DDS- Planning & Zoning: Plan Review Application

Submission date:	**12 July 2021, 2:57PM**
Receipt number:	**326**

Application Type

Check all that apply:	**Site Plan Review** **Special Permit**

Property Information

Property Address:	**80 Seymour Street, Hartford, CT Map (41.7640864, -72.5276275)**
Zoning District:	**MX-2**
Parcel ID:	**249554003**
Property Owner:	**Hartford healthcare - Dave Casale**
Address of Property Owner:	**129 Patricia Drive, Newington, CT 06111**
Email:	**Dave.Casale@hhchealth.org**

Applicant

	Plese check if "Applicant is the same as "Property Owner"
Name of Applicant:	**Hartford healthcare - Dave Casale**
File Date:	**07/12/2021**
Address:	**129 Patricia Drive, Newington, CT 06111 No coordinates found**

Phone:	**860-918-2305**
Email:	**Dave.Casale@hhchealth.org**

Primary Point of Contact

Name:	**Ronald Bomengen**
Phone:	**860-646-2469**
Email	**rbomengen@fando.com**

Project Narrative

Please describe your application action(s) and provide as much detail as possible. Attach additional pages if necessary:

Zoning Map Change Application

Proposed Zone:

Describe the existing use of land and buildings in the zone change area:

Reason for this request:

Zoning Appeal Application

Are you an aggrieved party?

Permit or Violation Number:

State your reason for appealing the decision of the administrator or enforcement officer:

Variance Application

Please state the paticular hardship* or unnecessary difficulty that prompts this application and the site the section of the zoning regulations that you are seeking relief from:

Subdivision Application

Number of lots to be created:

Area of each lot in square feet:

Street frontage of each of the new lots in feet:

Lot Combination Application

Addresses of lots to be combined

Map/Block/Lot for each property to be combined:

Liquor Permit Application

Please upload a copy of your State of CT Liquor Permit below.

Sign Permit Application

1. Is this sign proposed outside of the building line?

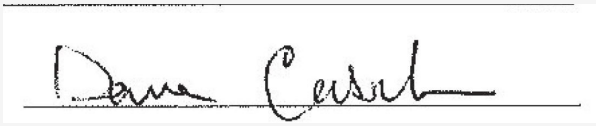
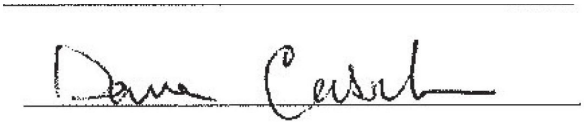
Maximum extention from building line:

2. Is this sign proposed outside of the street line?

Maximum extension from the Street line

3. Is the sign luminated?	
4. Engineer Name (if any):	
Phone:	
Address:	
5. Minimum distance from lowest point to the sidewalk:	
6. Maximum height of sign from lowest point of established grade:	
7. Distance from the nearest outdoor sign:	
8. Square feet of surface for one face of the sign:	
9. Wording of the sign (include all words):	
Description of work (upload additional files if necessary)	
Upload any supporting materials below.	City App Substation signed 7-12-21.pdf 2021-07-12 - Special Permit Request.pdf 2021-07-13 - HH Electic Substation_Local Permit Submission.pdf

Signatures

Signature of Applicant	 Uploaded signature image: Applicant Signature.JPG
Printed Name of Applicant:	**Dave Casale**
Date:	**07/12/2021**
Signature of Property Owner:	 Uploaded signature image: Applicant Signature.JPG
Printed Name of Property Owner:	**Dave Casale**

Date: **07/12/2021**

MUNIS App. #: _____

FOR OFFICE USE ONLY
Final Action: Approved _____ Denied _____ Withdrawn _____ Date of Action _____
Approved w/ Conditions _____ Approved By _____

City of Hartford
Planning Division
Department of Development Services

Return Form to the Planning Desk at the
Licenses & Inspections Division Counter
860-757-9239
260 Constitution Plaza
Hartford, Connecticut 06103-1822

For Assistance Contact Planning Division
860-757-9040,
250 Constitution Plaza, 4th Floor
Hartford, Connecticut 06103-1822
http://planning.hartford.gov

PLANNING AND ZONING APPLICATION

PLEASE CHECK THE ACTION(S) YOU ARE APPLYING FOR:

- ☐ Zoning Appeal
- ☐ Zoning Permit
- ☐ Zoning Variance
- ☐ Subdivision/Lot Line Revision
- ☐ Approval of Location
- ☒ Site Plan
- ☒ Special Permit
- ☐ Historic Review → Receiving Federal Funds: ☐ Yes ☐ No ☐ Demo ☐ Add. ☐ Repair
- ☐ Special Exception
- ☐ Lot Combination
- ☐ Liquor Permit

1. PROPERTY INFORMATION

Property Address: 80 Seymour Street City: Hartford State: CT Zip Code: 06106
Zoning District: (can be found at http://assessor1.hartford.gov/Default.asp?br=exp&vr=6) MX-2 - Mixed Use
Property Owner: Hartford Healthcare - Dave Casale, Senior Director, Facility Planning & Construction
Property Owner's Address: 129 Patricia Drive City: Newington State: CT Zip Code: 06111
Phone: 860-918-2305 Email: Dave.Casale@hhchealth.org

2. APPLICANT

☒ Please check if "Applicant" is the same as "Property Owner"

Name of Applicant: _____ File Date: _____
Address: _____ City: _____ State _____ Zip Code: _____
Phone: _____ Email: _____

3. PRIMARY POINT OF CONTACT:

Name: Ronald Bomengen,PE , LEED A
Phone: 860-646-2469; Ext. 5253
Email: RBomengen@fando.com

MUNIS App. #: _____

4. PROJECT NARRATIVE

Describe your application action(s) and provide as much detail as possible. Attach additional pages if necessary:

Hartford Hospital is replacing Electrical Substation No. 1 located in the existing Engineering and Laundry Building on Retreat Avenue. Replacement of the substation will provide Hartford Hospital with more reliable means of managing critical lifesaving operations during power outages. The new substation will be constructed in the location of the existing Hall-Wilson Laboratory Building, to be demolished, located off of Retreat Avenue. New feeder lines will be constructed from the existing Eversource electrical lines located in Retreated Avenue to the new substation. A Special Permit is required for construction of the screening wall along Retreat Avenue.

5. SIGNATURE(S)

All work will be done in strict accordance with the LOCAL, STATE AND FEDERAL CODES.
All work covered by this application has been authorized by the owner of this property.

Signature of Applicant: _____ Date: _____

Printed Name of Applicant: _____

Signature of Property Owner: Dave Casale Date: 7.12.21

Printed Name of Property Owner: DAVE CASALE

Please read the following sections carefully.
ONLY FILL OUT THE SECTIONS PERTINENT TO YOUR APPLICATION.

MUNIS App. #: _____

A. COMPLETE IF APPLYING FOR ZONING VARIANCE:

State the particular hardship* or unnecessary difficulty that prompts this application :

_____

_____

_____

**A "hardship" as defined by the Connecticut State Statutes Section 8-6 whereby "with respect to a parcel of land where, owing to conditions especially affecting such parcel but not affecting generally the district in which it is situated, a literal enforcement of such bylaws, ordinances or regulations would result in exceptional difficulty or unusual hardship." Note that "mere financial loss does not constitute hardship warranting granting of variance [unless] loss is so great as to amount to confiscation of applicant's property, [a]variance might be justified."*

B. COMPLETE IF APPLYING FOR SUBDIVISION, LOT LINE REVISION, OR LOT COMBINATION

Lot Subdivision/Lot Line Revision:

Number of new lots to be created:_____ Area of each of the new lots in square feet_____

Street frontage of each of the new lots in feet_____

Lot Combination:

Address of lots to be combined_____

Map/Block/Lot for each property to be combined: Map_____ Block_____Lot_____

Map_____ Block_____Lot_____

Map_____Block_____ Lot_____

(Map/Block/Lot and address information can be found at http://gis.hartford.gov/parcelviewer/index.html)

C. COMPLETE IF APPLYING FOR HISTORIC REVIEW

IMPORTANT: HISTORIC COMMISSION APPROVAL MUST FIRST BE OBTAINED BEFORE ANY BUILDING OR DEMOLITION PERMIT WILL BE ISSUED FOR WORK ON HISTORIC PROPERTIES. NO WORK MAY BEGIN UNTIL A BUILDING PERMIT IS ISSUED

❑ Please check if photographs are included with application (required for certain projects)

Proposed work includes: (Check all that apply)	□ Repairs	□ Addition	□ New construction	□ Demolition	□ Other (specify)

If proposing demolition, provide reason (attach additional pages if necessary):

_____

_____

_____

Current materials being repaired/replaced: _____

Materials/products being used in work: _____

FUSS & O'NEILL
Manufacturing Solutions, LLC

MEMORANDUM

TO: City of Hartford Planning & Zoning Commission

FROM: Ronald Bomengen, Associate – Fuss & O'Neill, Inc.

DATE: July 12, 2021

RE: Hartford Hospital Substation Replacement Project – Request for Special Permit

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Background
Hartford Hospital is proposing to replace its existing Electrical Substation No. 1 located in the existing Engineering and Laundry Building on Retreat Avenue. The new substation will be constructed in the location of the existing Hall-Wilson Laboratory Building, to be demolished, located off of Retreat Avenue. New feeder lines will be constructed from the existing Eversource electrical lines located in Retreat Avenue to the new substation.

Special Permit Request
A Special Permit has been requested to allow a 9 foot high wall to be placed around the substation area and equipment. Current zoning regulations only allow fencing or screening with a maximum height of 4 feet. Permitting the screening of the new substation area and equipment with walls 9 feet in height will result in a more aesthetically pleasing end product, provide greater security, and increase safety.

Consistency with the Plan of Conservation and Development
Hartford Hospital's mission is to improve the health and healing of the people and communities they serve. The proposed substation replacement project will provide Hartford Hospital with a more reliable source of backup energy which will allow Hartford Hospital to better safeguard its patients and manage the critical lifesaving services they provide to the community. This project is in harmony with and supports the City of Hartford's goal, within the Plan of Conservation and Development, to promote livable and sustainable communities.

Compliance with Zoning
The Hartford Hospital Campus located at 80 Seymour Street, including the location of the proposed new substation, is located within a MX-2, Multi-Use Mixed District zone. The overall hospital use at the site is in agreement with the purpose of the MX districts and the proposed site layout for the new substation complies with the applicable zoning requirements of the MX-2 District, with the exception of the proposed height of the walls surrounding the substation area. However, granting the Special Permit to allow the installation of higher wall panels will enhance the visual appearance of the site.

Compatibility with Neighboring Uses
Properties adjacent to the Hartford Hospital Campus and along Retreat Avenue are also located within a MX-2 District and include compatible uses for the district such as community housing

and other mixed-use type buildings with store fronts and office buildings. The proposed substation project will not change the primary hospital use of the property. The Hartford Hospital Campus will remain in harmony with the intended uses for the MX-2 District and will not be detrimental to existing development in the district.

Safety and Traffic

Installing 9 foot wall panels versus 4 foot wall panels or fencing around the substation area will increase safety to the general public. The higher walls will provide a greater deterrent for trespassers and/or vandalism. The proposed layout of the area will not create safety hazards in vehicular or pedestrian travel and the wall height will not impede motorist visibility in the area. Traffic levels of service will not be permanently impacted by the project.

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

RETREAT AVENUE · HARTFORD · CT

HARTFORD HOSPITAL

JULY 13, 2021

PREPARED FOR

HARTFORD HOSPITAL
80 SEYMOUR SREET
HARTFORD CT. 06102

PREPARED BY

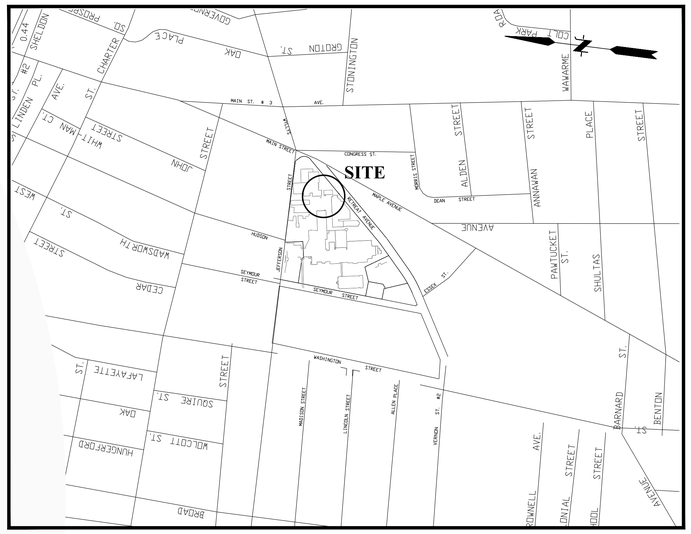
FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

SHEET INDEX

PROJECT TEAM

BR+A
10 GUEST STREET, 4TH FLOOR
BOSTON MA 02135
(617) 254-0016

SLAM
80 GLASTONBURY BLVD
GLASTONBURY CT 06033
(860)657-8077



LOCATION MAP
SCALE: 1" = 500'

Hartford Hospital
A Hartford HealthCare Partner

MEP Engineering Services
BR+A
Bard, Rao + Athanas
Consulting Engineers, LLC
10 Guest St., 4th Floor
Boston MA 02135
tel 617.254.0016 fax 617.924.9339
www.brplusa.com

Architectural and Structural Design Services
SLAM
The SLAM Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033-4410
phone 860 657.8077
fax 860 657.3741
www.slamcoll.com

Civil Engineering Design Services
FUSS & O'NEILL
146 Hartford Road
Manchester , CT 06040
tel 860.646.2469
www.fando.com

NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
COVER SHEET

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	GI-001
SCALE: NONE	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	

CIVIL GENERAL NOTES

GENERAL

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY FUSS & O'NEILL, AND FROM PLANS OF RECORD. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY FUSS & O'NEILL AND FROM PLANS OF RECORD. REFER TO A PLAN ENTITLED "LIMITED PROPERTY/BOUNDARY, TOPOGRAPHIC AND UTILITY SURVEY HARTFORD HOSPITAL PRIMARY SUBSTATION REPLACEMENT PROJECT 45 RETREAT AVENUE HARTFORD, CONNECTICUT, DATE 06/06/2018, SCALE 1"=40', PREPARED BY FUSS & O'NEILL, MANCHESTER, CONNECTICUT"
6. TOPOGRAPHIC ELEVATIONS ARE BASED ON NAVD 88 DATUM.
7. THERE ARE NO WETLANDS ON THIS SITE WITHIN THE AREA OF WORK.
8. ALL SOILS ON SITE ARE CLASSIFIED AS 307 "URBAN LAND".
9. AREA DETERMINED TO BE OUTSIDE OF THE 0.1% ANNUAL CHANCE FLOOD PLAIN PER FLOOD INSURANCE RATE MAP HARTFORD COUNTY, PANEL 3680F 675, MAP NUMBER 09003C0G, MAP REVISED SEPTEMBER 16, 2011.

WORK RESTRICTIONS

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
2. WORK IS RESTRICTED TO THE HOURS OF TO THE HOURS OF 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY.

REGULATORY REQUIREMENTS

1. CONTRACTOR TO OBTAIN PERMIT FROM THE CITY OF HARTFORD FOR ALL WORK WITHIN THE RIGHT OF WAY. ALL WORK WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH CITY OF HARTFORD STANDARDS.
2. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
3. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
4. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
5. THIS PROJECT DISTURBS LESS THAN ONE ACRE OF LAND AND DOES NOT FALL WITHIN THE CONNECTICUT DEEP STORMWATER AND DEWATERING WASTEWATER FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PROCESS.

EROSION AND SEDIMENT CONTROL

1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
2. CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
3. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.
6. PLAN IMPLEMENTATION – IMPLEMENT THIS EROSION AND SEDIMENT CONTROL PLAN. THIS IMPLEMENTATION INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES UNTIL PERMANENT STABILIZATION IS ACHIEVED, INFORMING ALL SUBCONTRACTORS OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER MUNICIPAL AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN TO THE NEW OWNER IF THE TITLE OF THE LAND IS TRANSFERRED PRIOR TO ACHIEVING PERMANENT STABILIZATION.
7. INSTALLATION SCHEDULE – INSTALL THE CONSTRUCTION ENTRANCE BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE PROJECT AREA BEGINS. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO STUMP REMOVAL AND CONSTRUCTION. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE OWNER, HIS AGENTS OR AGENTS OF THE MUNICIPALITY.
8. FUGITIVE DUST – CONTROL FUGITIVE DUST USING WATER SPRAYS OR CALCIUM CHLORIDE ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.
9. STRAW BALE LIFE SPAN – INSTALL STRAW BALES WHERE PROTECTION AND EFFECTIVENESS IS REQUIRED FOR LESS THAN 90 DAYS. OTHERWISE, INSTALL SILT FENCE.
10. CATCH BASINS – PROTECT CATCH BASINS WITH PROPER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
11. STOCKPILES – ENCIRCLE STOCKPILES OF ERODIBLE SOIL WITH A STRAW BALE OR SILT FENCE BARRIER. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE FORMED.
12. TOE OF SLOPE – ESTABLISH AN EROSION CONTROL BARRIER (SILT FENCE OR STRAW BALE BARRIER) APPROXIMATELY 5 TO 10 FEET FROM THE PROPOSED TOE OF THE CUT OR FILL AREA PRIOR TO BEGINNING EARTHWORK.
13. SEDIMENT REMOVAL – SEDIMENT REACHING ½ THE HEIGHT OF THE EROSION CONTROL BARRIER SHALL BE REMOVED. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.
14. SOIL STABILIZATION SCHEDULE – APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE. APPLY TEMPORARY SOIL STABILIZATION MEASURES IF FINAL GRADING IS TO BE DELAYED MORE THAN 30 DAYS.
15. TEMPORARY SEEDING – TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY 10-10-10 FERTILIZER AT A RATE OF 12 – 16 LBS/1000 SQ. FT. APPLY PERENNIAL RYE GRASS AT A RATE OF 2 LBS/1000 SQ. FT. TO A DEPTH OF ½ INCH. OPTIMUM SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 1. MULCH FOR SEED APPLIED WITHIN THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 80%-95% SOIL COVERAGE. MULCH FOR SEED APPLIED OUTSIDE OF THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 95%-100% COVERAGE.
16. PERMANENT SEEDING – SEED PERMANENT LAWN AREAS IN ACCORDANCE WITH THE SPECIFICATIONS.
17. CONCRETE TRUCK WASHOUT – CONCRETE TRUCK WASHOUT SHALL BE PROHIBITED ON SITE.
18. INSPECTION – THE OWNER SHALL SECURE THE SERVICES OF A SOIL SCIENTIST OR PROFESSIONAL ENGINEER TO VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED AND MAINTAINED. THESE INSPECTIONS SHALL BE NOT LESS FREQUENTLY THAN WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM HAVING A RAINFALL AMOUNT OF 0.1 INCH OR GREATER. FOLLOWING THESE INSPECTIONS, A WRITTEN REPORT SHALL BE PREPARED, INFORMING THE OWNER OR HIS AGENT NOT LESS FREQUENTLY THAN WEEKLY AND THE MUNICIPALITY NOT LESS FREQUENTLY THAN MONTHLY OF OBSERVATIONS, MAINTENANCE, AND CORRECTIVE ACTIVITIES UNDERTAKEN.

DEMOLITION

1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
2. THE DEMOLITION PLAN / SITE PREPARATION PLAN IS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER. DEMOLISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES.
3. STOCKPILE AND SAVE GRANITE CURBING REMOVED WITHIN THE LIMIT OF WORK. STOCKPILED GRANITE CURBING TO BE REUSED ON SITE WHERE POSSIBLE. GRANITE CURBING REMOVED WITHIN THE CITY RIGHT OF WAY TO BE REUSED IN ORIGINAL LOCATION.

CONSTRUCTION LAYOUT

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

EARTHWORK

1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. CT: "CALL BEFORE YOU DIG" AT 1-800-922-4455.
2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
3. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.

UTILITIES

1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
3. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
4. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
5. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

   MINIMUM INTERIOR DIAMETERS:
   0 TO 20 FEET DEEP; 4 FEET.
   20 FEET OR GREATER; 5 FEET.
5. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

   IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
   IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
   IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS:
   1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.
6. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER AND ARCHITECT.

PAVEMENT

1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

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fax 860 657.3141
www.slamcoll.com

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FUSS & O'NEILL
146 Hartford Road
Manchester , CT 06040
tel 860.646.2469
www.fando.com

NUMBER	DATE	REVISION

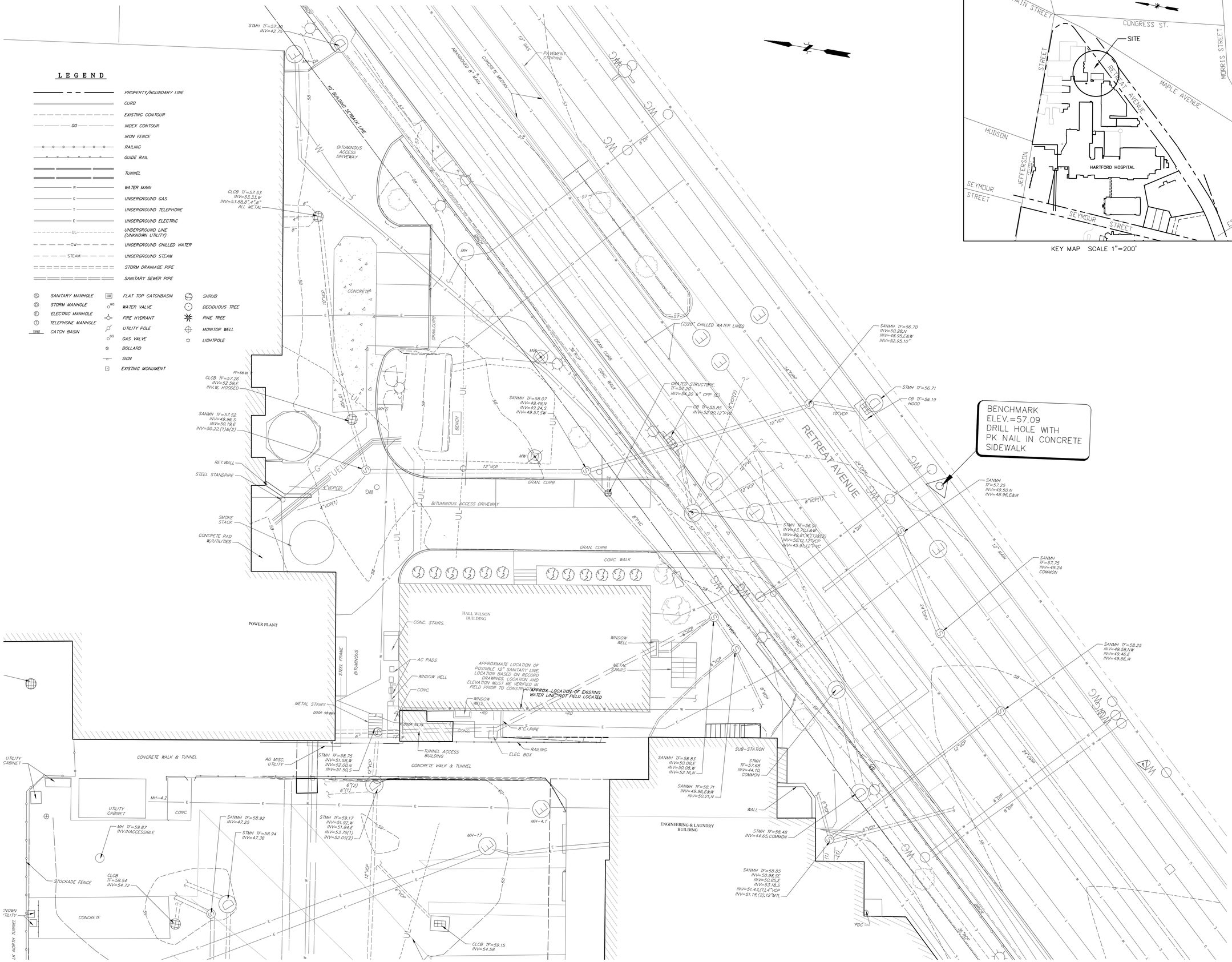
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

GENERAL NOTES

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	GI-002
SCALE: NOT TO SCALE	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



KEY MAP SCALE 1"=200'

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NUMBER	DATE	REVISION

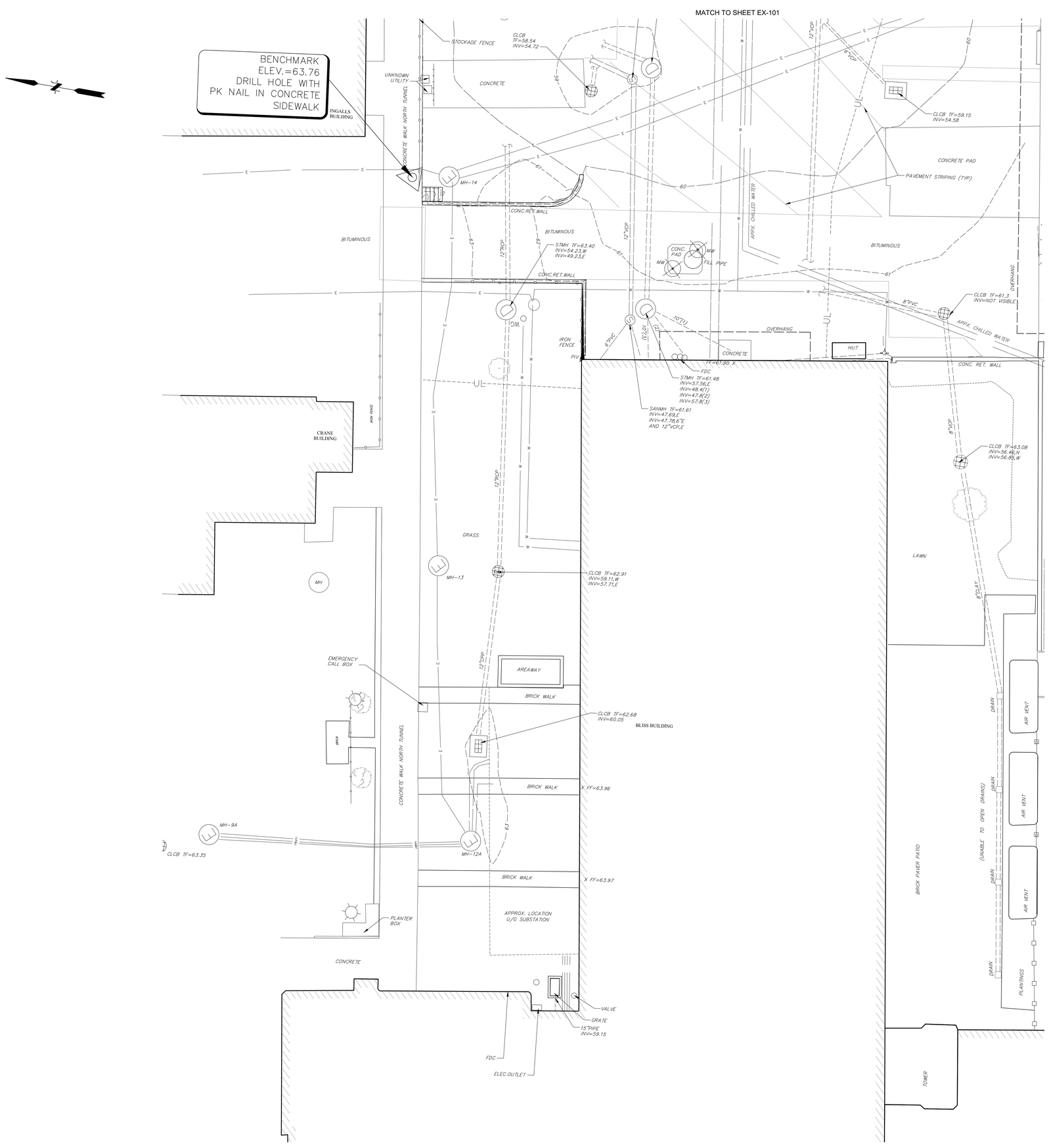
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

EXISTING CONDITIONS PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	EX-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



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NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

EXISTING CONDITIONS PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	EX-102
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: **07/13/2021**	

PROTECT CONCRETE DRIVE RAMP TO REMAIN
PROTECT GRANITE CURB
STOCKPILE GRANITE CURB FOR RE-USE
STOCKPILE BRICK PAVERS FOR RE-USE
GRANITE CURB AND SALVAGED BRICK PAVER STOCKPILE AREA
APPROXIMATE LIMIT OF SITE WORK
PROTECT TREE TO REMAIN
REMOVE EXISTING ACCESSIBLE RAMP AND SIDEWALK
REMOVE EXISTING GRANITE CURBING AND STOCKPILE FOR RE-USE
PROTECT LIGHT POLE TO REMAIN
PROTECT MANHOLE
PROTECT FENCE
PROTECT TREE TO REMAIN
REMOVE CONCRETE PAD
PROTECT UNDERGROUND ELECTRIC UTILITY
PROTECT EXISTING BUILDING
REMOVE EXISTING GRANITE CURB AND STOCKPILE FOR RE-USE
REMOVE BITUMINOUS CONCRETE DRIVEWAY AND GRANITE CURB. STOCKPILE GRANITE CURB FOR RE-USE
PROTECT EXISTING WATER
PROTECT EXISTING SANITARY MANHOLE AND PIPES
PROTECT EXISTING SANITARY MANHOLE AND PIPES
PROTECT EXISTING STORM DRAINAGE STRUCTURE AND PIPE
PROTECT EXISTING SMOKE STACK TO REMAIN
REMOVE EXISTING UNDERGROUND FUEL LINES
APPROXIMATE LIMIT OF SITE WORK
PROTECT EXISTING GAS LINE
PROTECT EXISTING RETAINING WALL TO REMAIN
PROTECT TELE MANHOLE AND CONDUITS
REMOVE EXISTING CONCRETE DRIVE RAMP
PROTECT STORM MANHOLE AND PIPES
AREA PREVIOUSLY DEMOLISHED
PROTECT EXISTING CONCRETE PAD AND UTILITIES
PROTECT ELECTRICAL LINE TO REMAIN
PROTECT EXISTING BUILDING
PROTECT EXISTING SANITARY MANHOLES AND PIPES
AREA PREVIOUSLY DEMOLISHED
PROTECT UNDERGROUND UTILITIES WITHIN RETREAT AVE
STOCKPILE GRANITE CURB FOR RE-USE
PROTECT EXISTING STORM DRAIN
STOCKPILE BRICK PAVERS FOR RE-USE
TEMPORARILY REMOVE EXISTING DECORATIVE FENCE, STOCKPILE FOR RE-USE
PROTECT EXISTING CONCRETE SIDEWALK
STOCKPILE BRICK PAVERS FOR RE-USE
TEMPORARY CONSTRUCTION FENCE
TEMPORARY CONSTRUCTION FENCE
REMOVE STOCKADE FENCE AND STOCKPILE FOR RE-USE
REMOVE EXISTING STAIRS AND STOCKPILE FOR RE-USE
PROTECT EXISTING STORM DRAINAGE MANHOLE AND PIPES
RELOCATE WATER LINE UNDER SEPARATE CONTRACT
TEMPORARILY REMOVE EXISTING METAL STAIRS, PROTECT EXISTING WINDOW WELL. REINSTALL STAIRS UPON COMPLETION OF WORK IN THIS AREA. COORDINATE BUILDING ACCESS WITH OWNER AND FIRE MARSHAL
PROTECT EXISTING STORM DRAIN PIPE
PROTECT EXISTING CIRCULATION VESTIBULE WITH TUNNEL ACCESS TO REMAIN
PROTECT EXISTING CONCRETE WALK AND TUNNEL TO REMAIN
APPROXIMATE LIMIT OF SITE WORK
TEMPORARY CONSTRUCTION FENCE
PROTECT EXISTING STORM DRAIN MANHOLE AND PIPES
PROTECT EXISTING LIGHT POLE
PROTECT EXISTING SANITARY SEWER MANHOLE AND PIPES
TEMPORARILY REMOVE EXISTING DECORATIVE FENCE AND STOCKPILE FOR RE-USE
PROTECT TREE TO REMAIN
MATCH TO SHEET EX-102

BENCHMARK
ELEV.=57.09
DRILL HOLE WITH
PK NAIL IN CONCRETE
SIDEWALK

CP-101
CS-101
CG-101
CU-101

CP-102
CS-102
CG-102
CU-102

PLAN SHEET LAYOUT KEY

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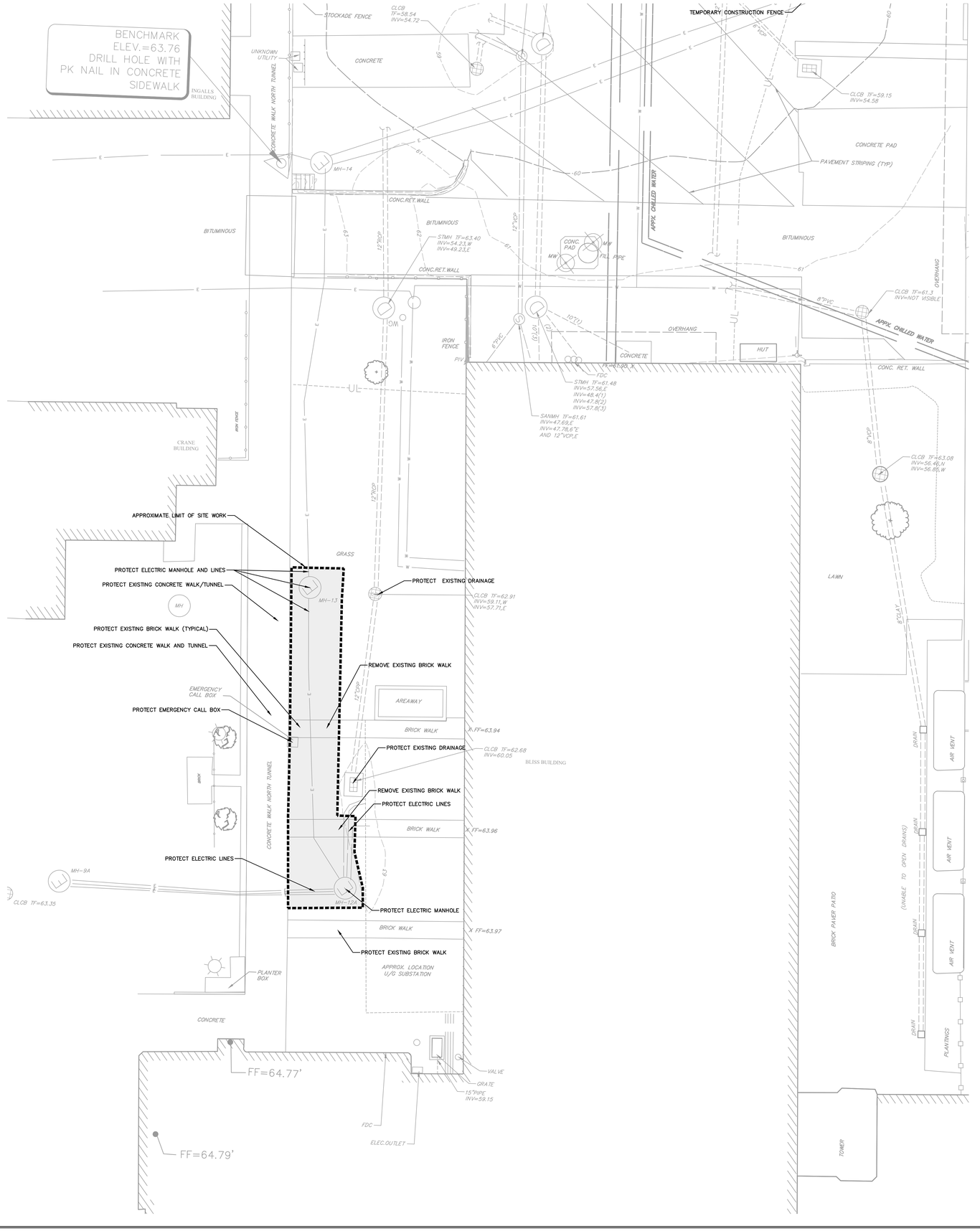
NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
SITE PREPARATION PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CP-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	

MATCH TO SHEET CP-101



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NUMBER	DATE	REVISION

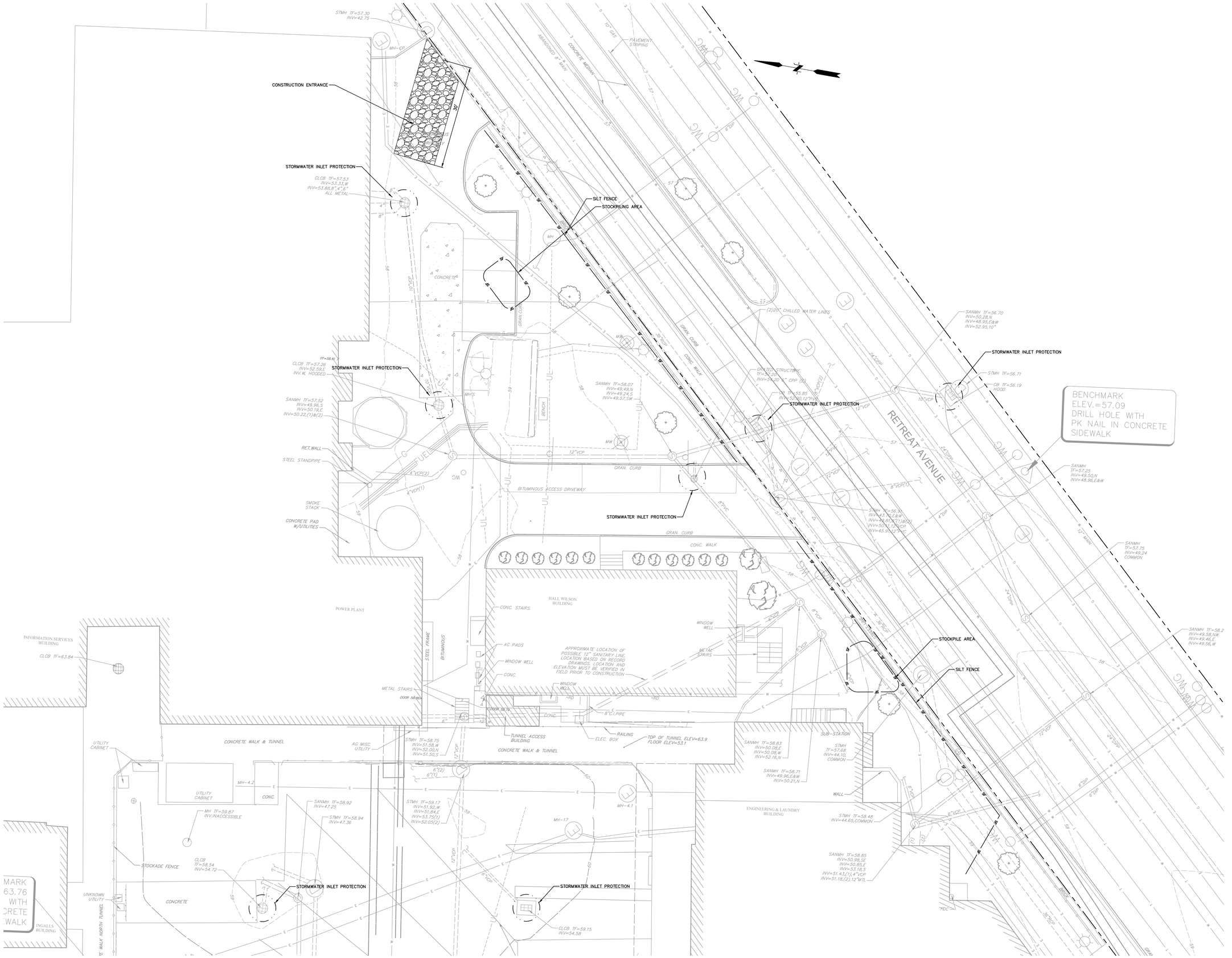
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

SITE PREPARATION PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CP-102
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: **07/13/2021**	



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NUMBER	DATE	REVISION

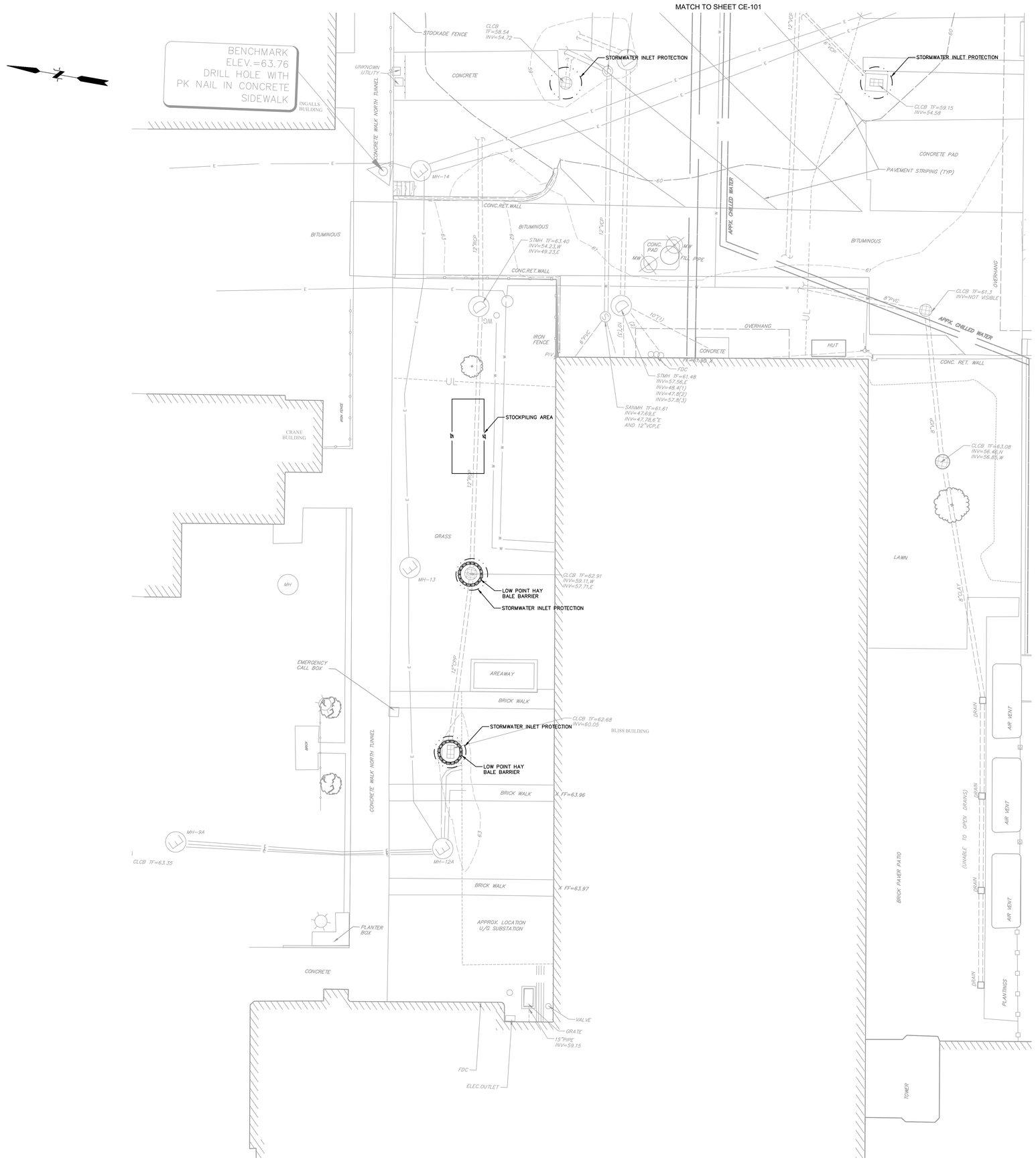
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

EROSION AND SEDIMENT CONTROL PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CE-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



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NUMBER	DATE	REVISION

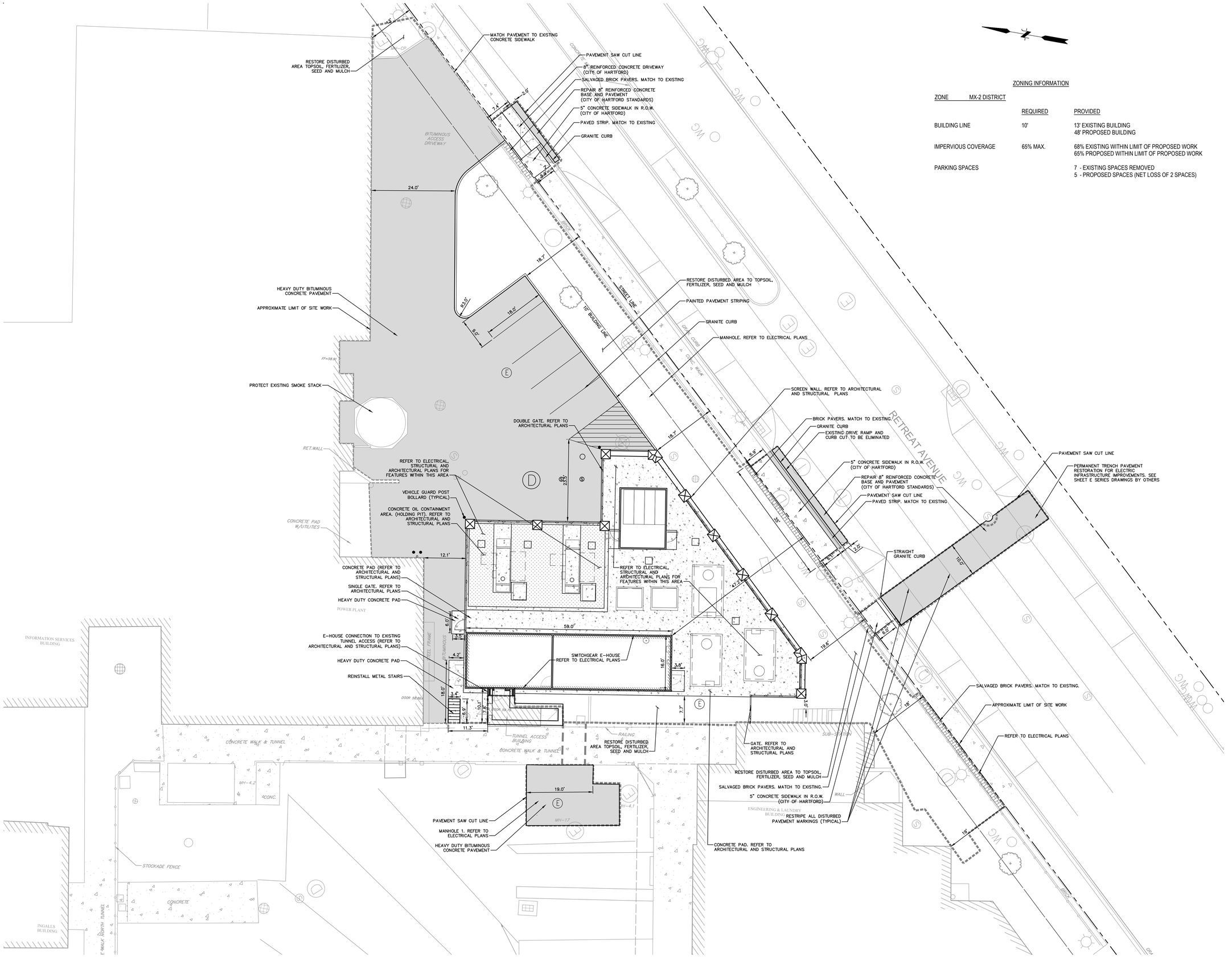
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

EROSION AND SEDIMENT CONTROL PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CE-102
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



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NUMBER	DATE	REVISION

PROJECT:

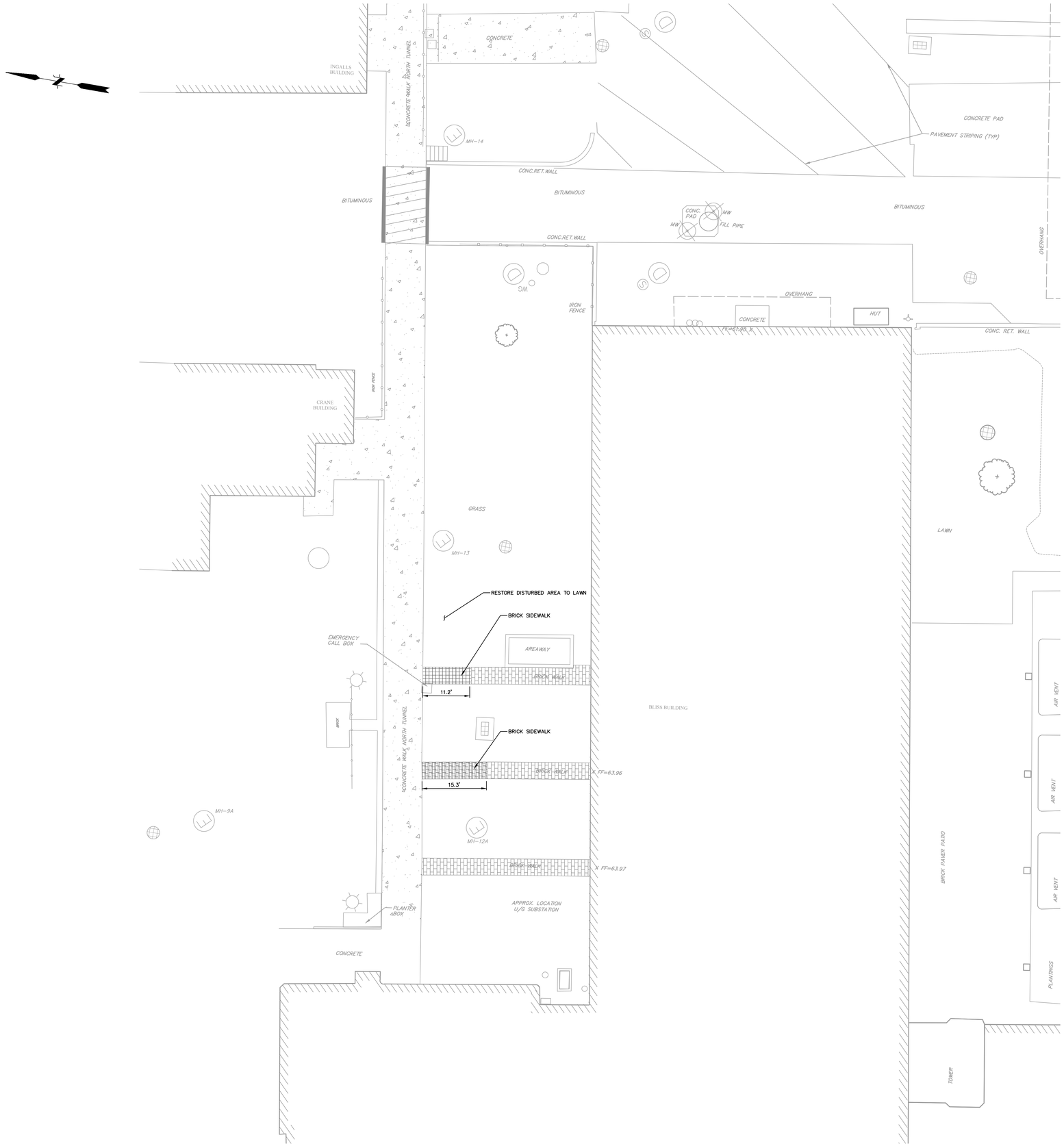
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

SITE LAYOUT PLAN

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CS-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: **07/13/2021**	

MATCH TO SHEET CS-101



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NUMBER	DATE	REVISION

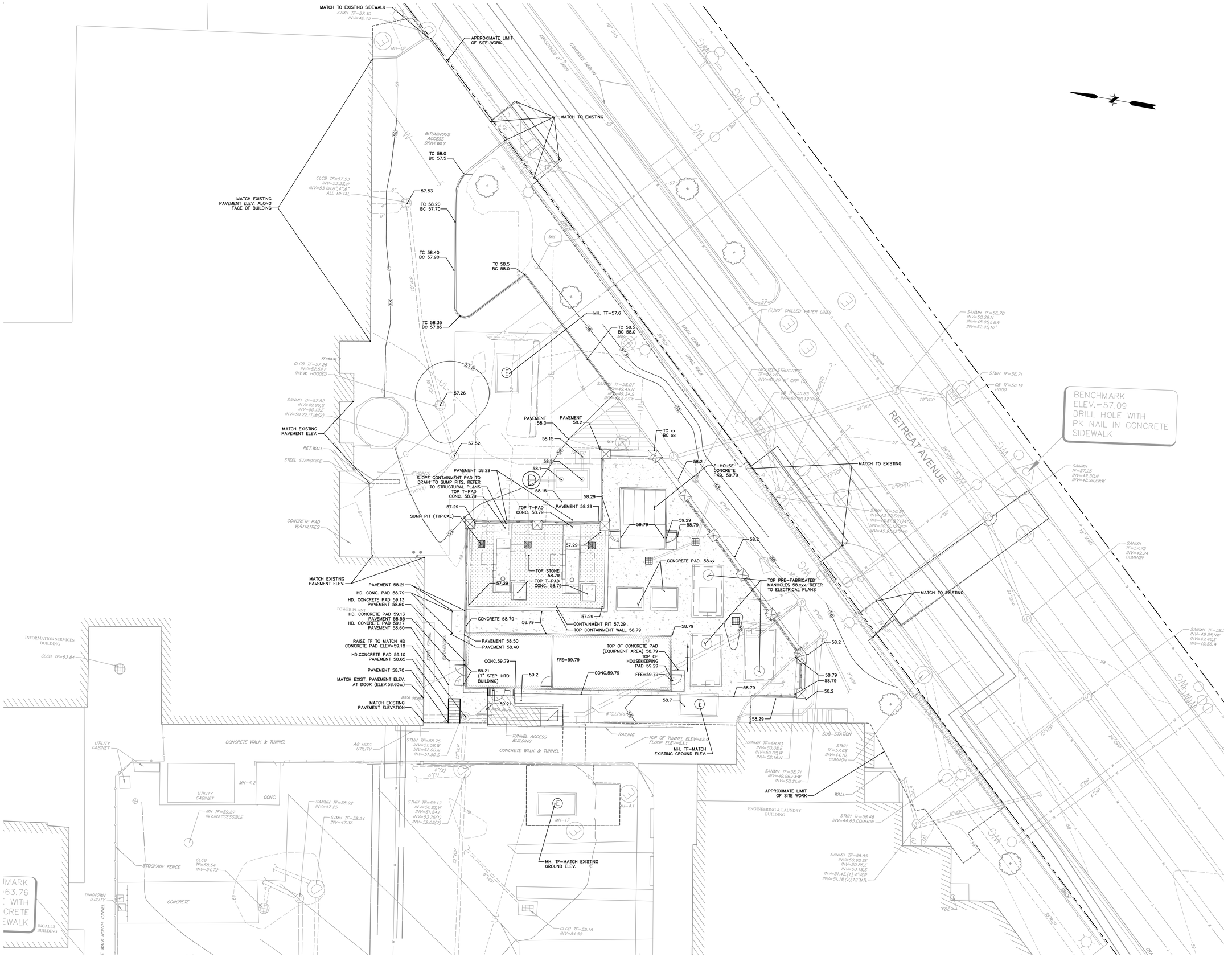
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

SITE LAYOUT PLAN

DWN BY: **SEJ**	DRAWING NO.
CHKD BY: **RB**	CS-102
SCALE: **1"=10'**	
JOB NO.: 20160045.S10	
DATE: **07/13/2021**	



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NUMBER	DATE	REVISION

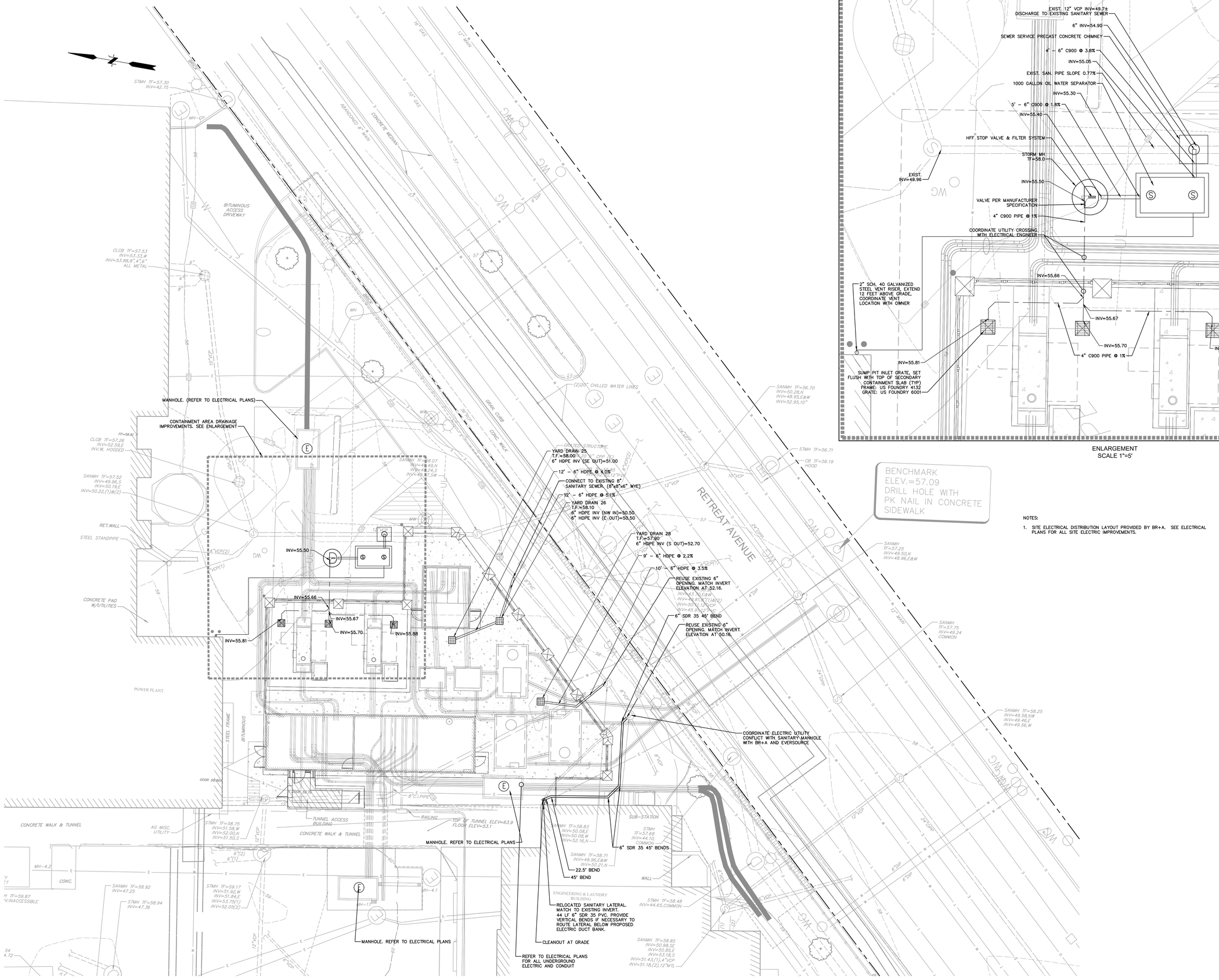
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

SITE GRADING PLAN

DWN BY: **SEJ**	DRAWING NO.
CHKD BY: **RB**	CG-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: **07/13/2021**	



ENLARGEMENT
SCALE 1"=5'

NOTES:

1. SITE ELECTRICAL DISTRIBUTION LAYOUT PROVIDED BY BR+A. SEE ELECTRICAL PLANS FOR ALL SITE ELECTRIC IMPROVEMENTS.

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NUMBER	DATE	REVISION

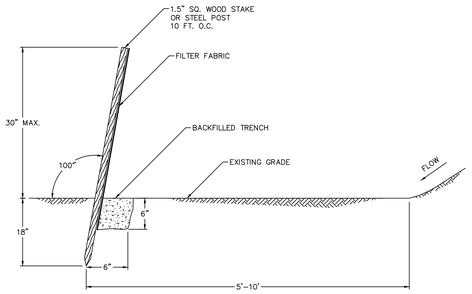
PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

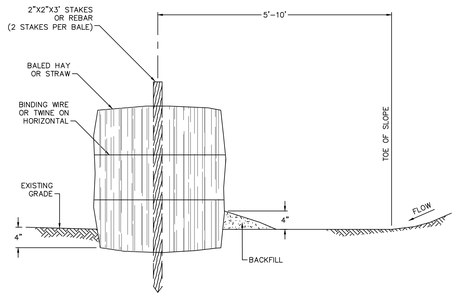
DRAWING TITLE:

DRAINAGE & UTILITY PLAN

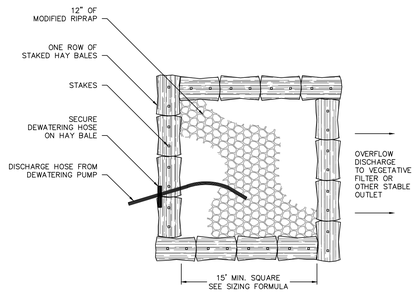
DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CU-101
SCALE: 1"=10'	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



SILT FENCE
NOT TO SCALE



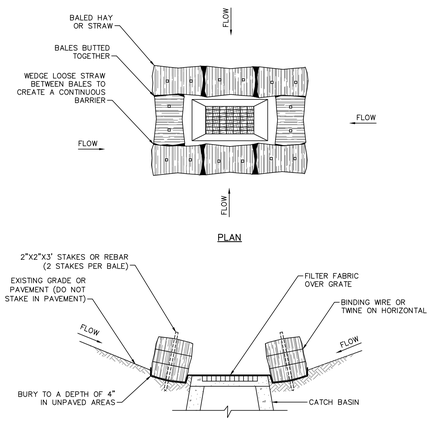
TOE OF SLOPE HAY BALE BARRIER
NOT TO SCALE



SIZING FORMULA:
CUBIC FT. OF REQUIRED STORAGE = PUMP DISCHARGE RATE (GPM) x 16

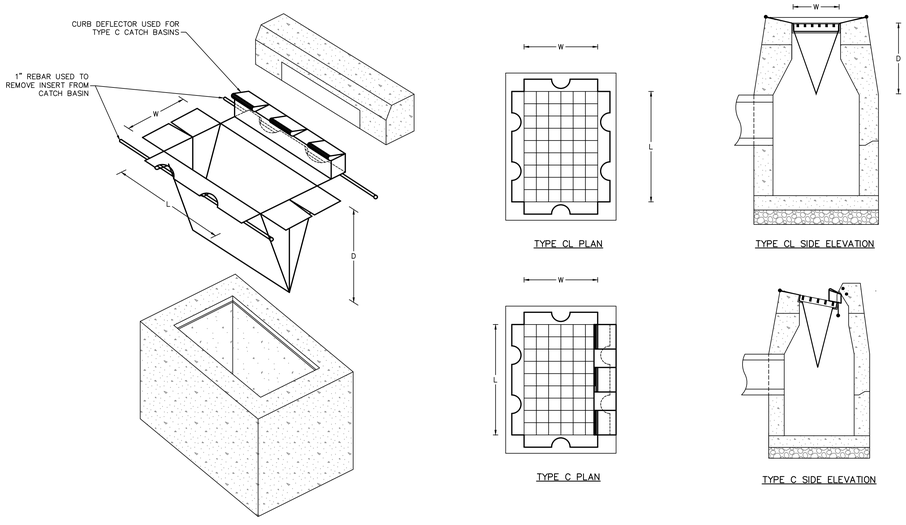
PLAN

PUMPING SETTLING BASIN TYPE I
NOT TO SCALE

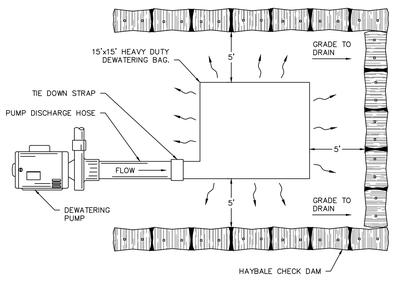


SECTION

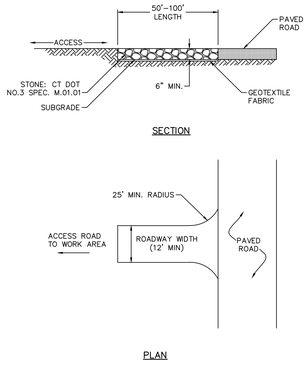
LOW POINT HAY BALE BARRIER
NOT TO SCALE



CATCH BASIN INSERT/STORMWATER INLET PROTECTION
NOT TO SCALE



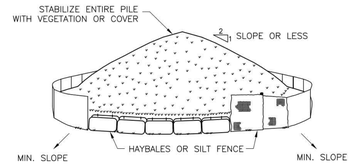
DEWATERING BAG
NOT TO SCALE



CONSTRUCTION ENTRANCE
NOT TO SCALE

THE METROPOLITAN DISTRICT
EROSION AND SEDIMENTATION CONTROL STANDARD DETAILS

MDC



NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAYBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. UPON COMPLETION OF SOIL STOCKPILING, RESTORE STOCKPILING AREA TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

STOCKPILING AREA
DETAIL ES
NTS 9

File: ES-9 Stockpiling Area.dwg — Latest Revision: 1/9/2015

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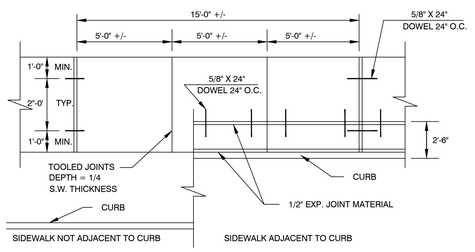
NUMBER	DATE	REVISION

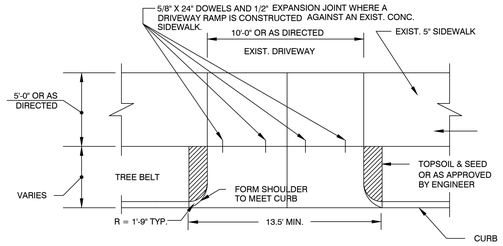
PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
SITE DETAILS

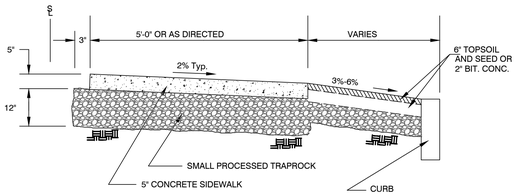
DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CD-501
SCALE: NOT TO SCALE	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	



PLAN



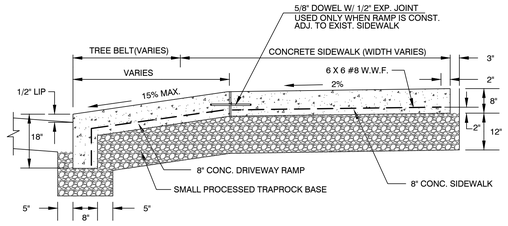
PLAN



SECTION

5" CONCRETE SIDEWALK IN R.O.W.

CITY OF HARTFORD DETAIL – NOT TO SCALE



SECTION

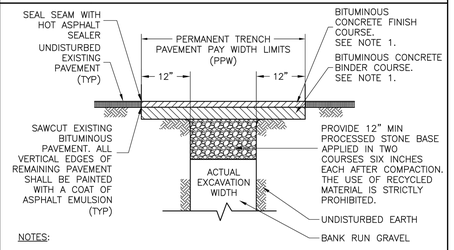
8" REINFORCED CONCRETE DRIVEWAY

CITY OF HARTFORD DETAIL – NOT TO SCALE

THE METROPOLITAN DISTRICT

SURFACE RESTORATION STANDARD DETAILS

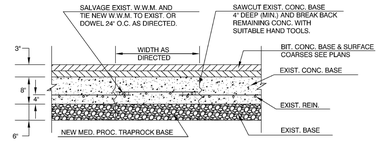
MDC



NOTES:

1. MINIMUM THICKNESS FOR PERMANENT FINISH AND BINDER COURSES SHALL BE THICKNESS AND PAVEMENT CLASS AS STATED IN THE SPECIFICATIONS.
2. THE PAY WIDTH DIMENSIONS SHOWN REPRESENT THE MAXIMUM PAY WIDTHS TO BE PAID. WHEN THE ACTUAL SURFACE REPAIR OR TRENCH WIDTH IS LESS, THE ACTUAL WIDTH SHALL BE PAID FOR AT THE APPLICABLE UNIT PRICE.
3. THE MAXIMUM PERMANENT PAVEMENT PAY WIDTH AT MANHOLES IS 24" OUTSIDE THE BASE.
4. FOR WORK ON STATE HIGHWAYS, SEE CT DOT TRENCH DETAILS.

MAXIMUM PERMANENT TRENCH PAVEMENT PAY WIDTH (PPW)		
DEPTH TO PIPE INVERT	0–12" PIPE PPW (FT)	>12" PIPE PPW (FT)
0–8	8.0	PIPE I.D. + 7
8–12	9.0	PIPE I.D. + 8
12–16	10.0	PIPE I.D. + 9
>16	11.0	PIPE I.D. + 10



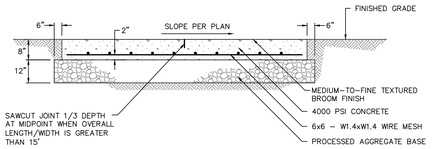
SECTION

REPAIR 8" REINFORCED CONCRETE BASE

NOTES:
1. IF EXISTING PAVEMENT SECTION IN CITY RIGHT–OF–WAY VARIES, MATCH EXISTING CONDITIONS AND NOTIFY ENGINEER.
2. SEE RETREAT AVENUE TYPICAL ROADWAY CROSS SECTION FOR BITUMINOUS PAVEMENT BASE AND SURFACE COURSES.

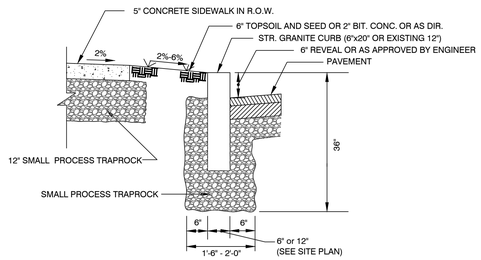
PERMANENT TRENCH PAVEMENT RESTORATION

NOT TO SCALE



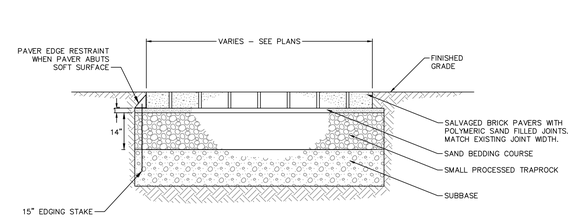
HEAVY–DUTY CONCRETE PAD (DOORWAY LANDINGS)

NOT TO SCALE



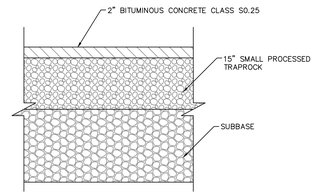
STRAIGHT GRANITE CURB SECTION

CITY OF HARTFORD DETAIL – NOT TO SCALE



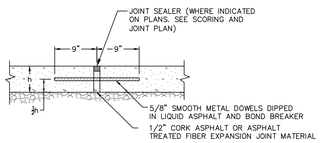
SALVAGED BRICK PAVERS

NOT TO SCALE



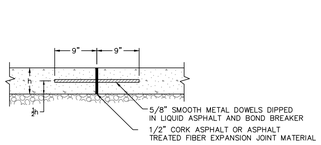
PAVED STRIP

NOT TO SCALE



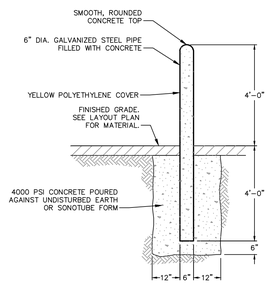
EXPANSION JOINT WITH SEALER

NOT TO SCALE



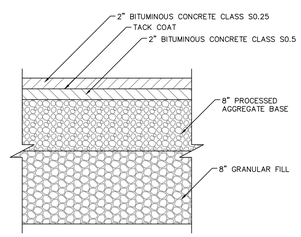
EXPANSION JOINT

NOT TO SCALE



VEHICLE GUARD POST BOLLARD

NOT TO SCALE

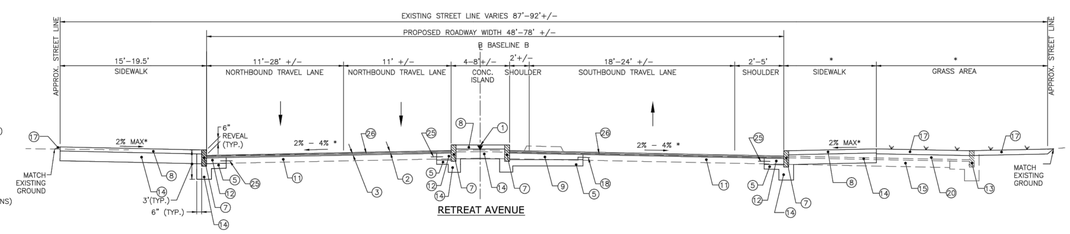


HEAVY–DUTY BITUMINOUS CONCRETE PAVEMENT

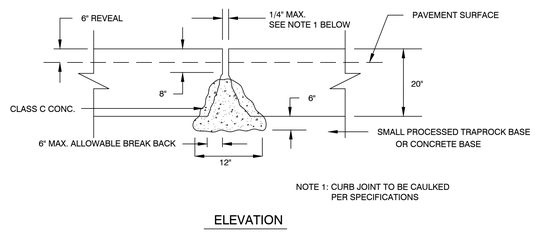
NOT TO SCALE

LEGEND

1. POINT OF APPLICATION OF GRADE
2. NEW 2" SURFACE COURSE (H.M.A. S0.5)
3. NEW 1" LEVELING COURSE (H.M.A. S0.25)
4. EXISTING REINFORCED CONCRETE ROADBASE
5. NEW 6" PROCESS TRAP ROCK
6. EXISTING UNDISTURBED SUBGRADE
7. NEW 6"x20" GRANITE STONE CURBING
8. NEW 5" CONCRETE SIDEWALK
9. NEW 8" REINFORCED CONCRETE ROADBASE
10. EXISTING SIDEWALK
11. EXISTING REIN. CONCRETE PAVEMENT BASE TO REMAIN
12. RECONSTRUCTED 8" REIN. CONCRETE BASE @ CURB
13. EXISTING GRANITE CURB – TO BE REMOVED
14. NEW 12" PROCESS TRAP ROCK
15. EXISTING PAVEMENT STRUCTURE TO BE REMOVED
16. NEW 6" CURB UNDER DRAIN (IF CALLED FOR ON PLANS)
17. NEW 6" TOPSOIL & SEEDING/LID/OTHER (SEE PLANS)
18. NEW DB–SAE ⅜" SPLICER TYPICAL
19. NEW 4" PERFORATED FOOTING DRAIN
20. NEW BANK RUN GRAVEL (IF REQUIRED)
21. NEW 12" PROCESSED TRAPROCK
22. NEW LONG. DOWELED EXP. JOINT (LOC. VARIES SEE PLANS)
23. NEW 11" REINFORCED CONCRETE BUS PAD
24. TEMPORARY PAVEMENT
25. ⅜" X 24" GALV. (GRADE 60) DOWEL TYP.



RETREAT AVENUE



NOTE 1: CURB JOINT TO BE CAULKED PER SPECIFICATIONS

ELEVATION

TYPICAL JOINT DETAIL FOR STRAIGHT GRANITE CURB

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NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

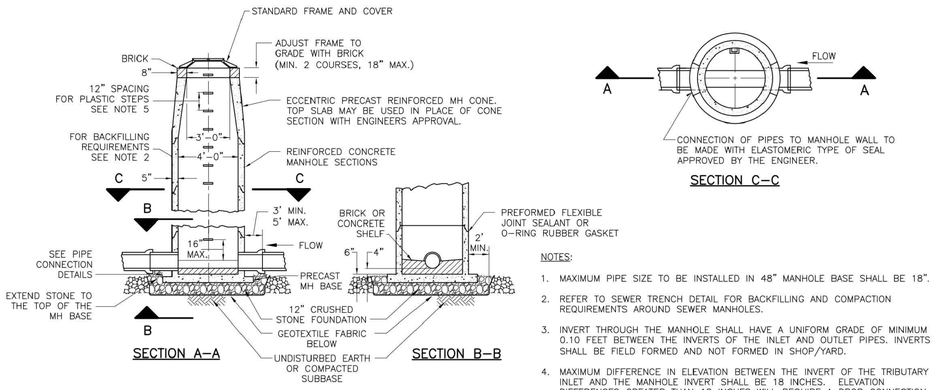
DRAWING TITLE:

SITE DETAILS

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CD-502
SCALE: NOT TO SCALE	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



NOTES:

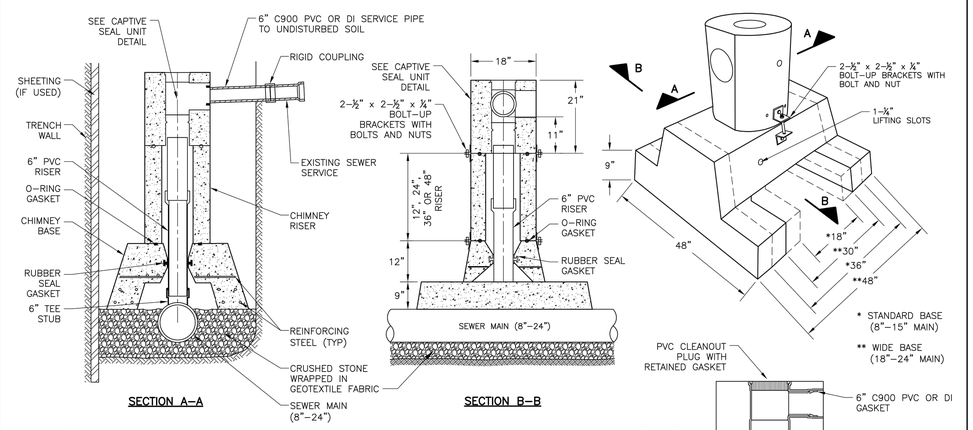
1. MAXIMUM PIPE SIZE TO BE INSTALLED IN 48" MANHOLE BASE SHALL BE 18".
2. REFER TO SEWER TRENCH DETAIL FOR BACKFILLING AND COMPACTION REQUIREMENTS AROUND SEWER MANHOLES.
3. INVERT THROUGH THE MANHOLE SHALL HAVE A UNIFORM GRADE OF MINIMUM 0.10 FEET BETWEEN THE INVERTS OF THE INLET AND OUTLET PIPES. INVERTS SHALL BE FIELD FORMED AND NOT FORMED IN SHOP/YARD.
4. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN THE INVERT OF THE TRIBUTARY INLET AND THE MANHOLE INVERT SHALL BE 18 INCHES. ELEVATION DIFFERENCES GREATER THAN 18 INCHES WILL REQUIRE A DROP CONNECTION.
5. DISTANCE FROM TOP OF MANHOLE COVER TO FIRST PLASTIC STEP SHALL BE BETWEEN 12" AND 16".

TYPE II PRECAST CONCRETE MANHOLE

DETAIL S 18
NTS

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC

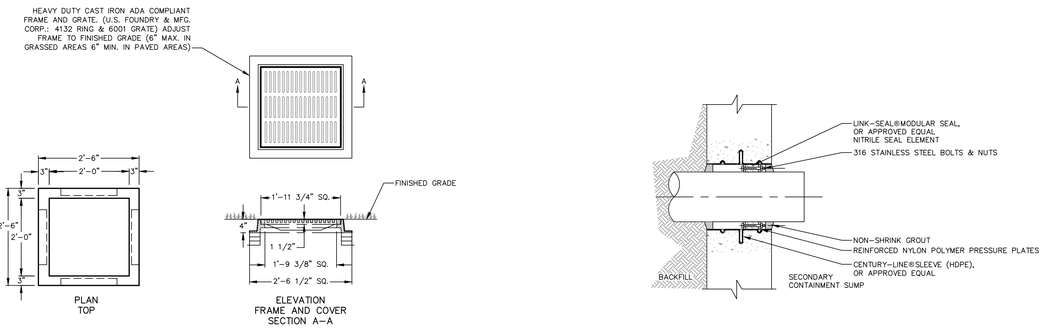


NOTE:

1. REFER TO SEWER TRENCH DETAIL FOR BACKFILL AND SURFACE RESTORATION REQUIREMENTS.

SEWER SERVICE PRECAST CONCRETE CHIMNEY

DETAIL S 12
NTS



YARD DRAIN

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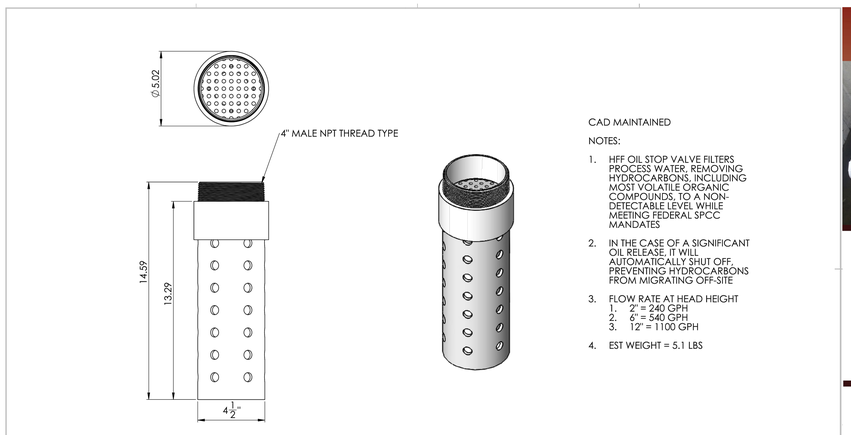
SECONDARY CONTAINMENT PIPING PENETRATION

NOT TO SCALE



CAD MAINTAINED

NOTES:

1. HFF OIL STOP VALVE FILTERS PROCESS WATER, REMOVING HYDROCARBONS, INCLUDING MOST VOLATILE ORGANIC COMPOUNDS, TO A NON-DETECTABLE LEVEL WHILE MEETING FEDERAL SPCC MANDATES
2. IN THE CASE OF A SIGNIFICANT OIL RELEASE, IT WILL AUTOMATICALLY SHUT OFF, PREVENTING HYDROCARBONS FROM MIGRATING OFF-SITE
3. FLOW RATE AT HEAD HEIGHT
   1. 2" = 240 GPH
   2. 6" = 540 GPH
   3. 12" = 1100 GPH
4. EST WEIGHT = 5.1 LBS

	NAME	DATE
DRAWN	JJ	02/15/18
CUST APPR.		

SCALE: 1:5 DO NOT SCALE DRAWING

TITLE: 4" X 12" HFF REV 2 | SIZE: B
DWG. NO.: CIA-00250 | SHEET 1 OF 1

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Need to reduce organic hydrocarbons to a non-detectable level? Need to filter and process water quickly and effectively? Look no further than the C.I.Agent® HFF Oil Stop Valve. Constructed from a rugged, perforated plastic casing, this custom-built, passive system filters water multi-directionally, with industry-leading flow rates. By utilizing our C.I.Agent® polymers to capture and solidify hydrocarbons, the HFF Oil Stop Valve gives you complete confidence in your secondary containment. In the event of a a major release, it will automatically shut off, thereby preventing contaminated water from being released from the containment site.

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Note: For optimum flow rates, the HFF requires a minimum of one foot head pressure or installation at a 10 degree angle.

Features and Benefits

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- Near navigable water
- Can support vehicle traffic/heavy load*
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HFF STOP VALVE & FILTER SYSTEM

NOT TO SCALE

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

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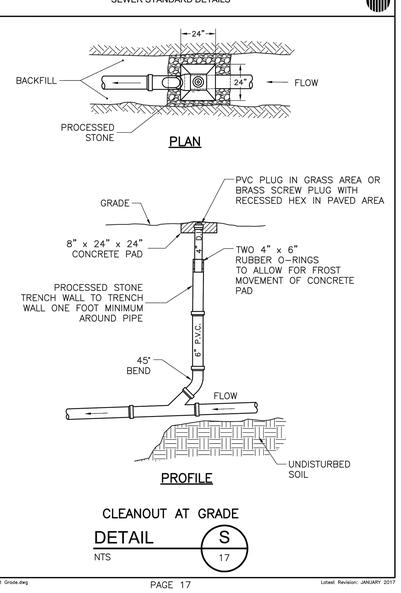

CLEANOUT AT GRADE

DETAIL S 17
NTS

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NUMBER	DATE	REVISION

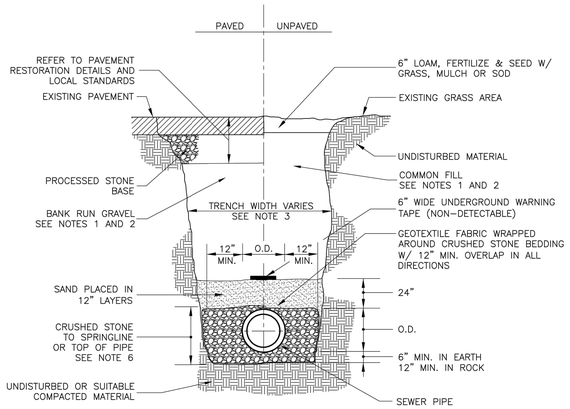
PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
SITE DETAILS

DWN BY: SEJ	DRAWING NO.
CHKD BY: RB	CD-503
SCALE: NOT TO SCALE	
JOB NO.: 20160045.S10	
DATE: 07/13/2021	

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



NOTES:

1. ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED.
2. BACKFILL MATERIAL SHALL BE APPROVED BANK RUN GRAVEL IN PAVED AREAS (INCLUDING DRIVEWAYS AND SIDEWALKS) OR COMMON FILL IN UNPAVED AREAS.
3. TRENCH WIDTH VARIES BASED ON PIPE SIZE AND DEPTH.
4. TRENCHES LOCATED IN THE ROAD SHOULDER SHALL BE TREATED THE SAME AS TRENCHES IN THE PAVED ROADWAY EXCEPT FOR PAVEMENT AND SURFACE RESTORATION WORK.
5. PROVIDE IMPERVIOUS TRENCH DAM(S) IN STONE BEDDING AS DIRECTED BY THE ENGINEER. SEE PIPE TRENCH DAM DETAIL.
6. CRUSHED STONE SHALL BE INSTALLED TO TOP OF PIPE FOR PVC AND DI PIPE AND TO SPRINGLINE FOR RC PIPE.

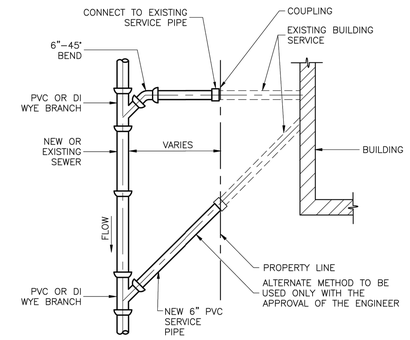
SEWER TRENCH
DETAIL S 2
NTS

File: S-2 Sewer Trench.dwg

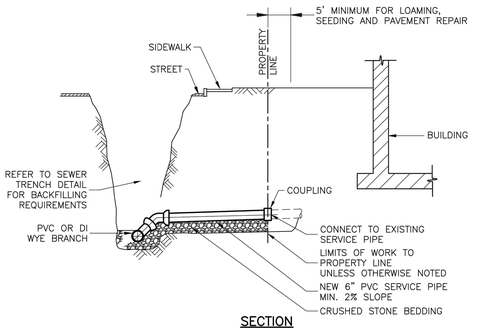
Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



PLAN



SECTION

SEWER SERVICE REPLACEMENT
DETAIL S 9
NTS

File: S-9 Sewer Service Replacement.dwg

Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

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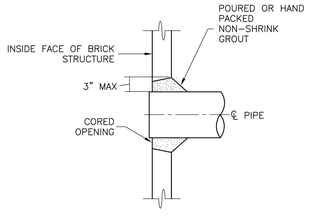


NOTES:

1. REFER TO OTHER PIPE CONNECTION DETAILS FOR OTHER APPROVED CONNECTION METHODS.
2. PROVIDE WATER STOP AROUND NEW PVC PIPE FOR SANITARY SEWER FLOWS.
3. REWORK EXISTING MANHOLE INVERT TO ACCOMMODATE NEW FLOWS, IF NECESSARY.

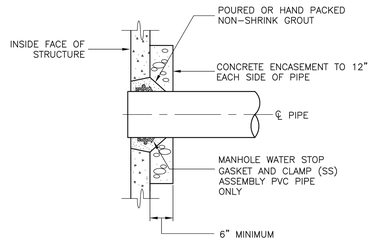
PIPE CONNECTION TO EXISTING BRICK STRUCTURE
DETAIL S 36
NTS

File: S-36 Pipe Connection to Existing Brick Structure.dwg

Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



NOTE:

1. FORM CONCRETE ENCASEMENT ON UNDISTURBED MATERIAL OR STRUCTURALLY FIRM FOUNDATION.

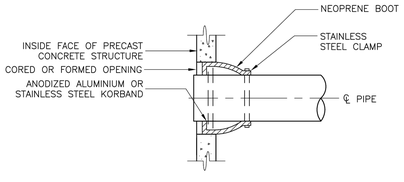
PIPE CONNECTION TO EXISTING STRUCTURE WITH CONCRETE ENCASEMENT
DETAIL S 37
NTS

File: S-37 Pipe Connection to Existing Structure with Concrete Encasement.dwg

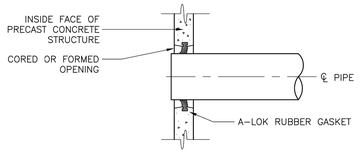
Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



KOR-N-SEAL BOOT



A-LOK SYSTEM

NOTE:

1. PACK NON-SHRINK GROUT AROUND ANNULAR AREA OF PIPE ON OUTSIDE OF STRUCTURE PRIOR TO BACKFILLING.

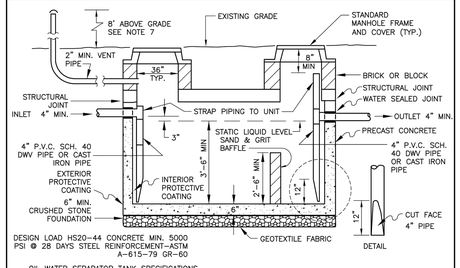
PIPE CONNECTIONS TO PRECAST CONCRETE STRUCTURES
DETAIL S 38
NTS

File: S-38 Pipe Connections to Precast Concrete Structures.dwg

Latest Revision: JANUARY 2017

THE METROPOLITAN DISTRICT
SEWER STANDARD DETAILS

MDC



OIL WATER SEPARATOR TANK SPECIFICATIONS

1. TANK SHALL HAVE A MINIMUM CAPACITY SUFFICIENT TO PRE-TREAT THE MAXIMUM DAILY FLOW PROPOSED AND NO LESS THAN 1000 GALLONS. TANK SHALL BE CONSTRUCTED OF PRECAST CONCRETE.
2. INTERIOR OF THE TANK AND EXTENSION TO GRADE MANHOLES SHALL BE COATED WITH AN EPOXY PETROLEUM RESISTANT SEALANT. EXTERIOR OF THE TANK AND EXTENSION GRADE MANHOLES SHALL BE COATED WITH A WATERPROOF FOUNDATION SEALANT. THIS INCLUDES THE TANK EXTERIORS TOP AND BOTTOM.
3. STRUCTURAL SEAM OF THE TANK SHALL BE FILLED IN WITH NON-SHRINKING GROUT OR WATER PLUG AND COATED WITH A WATERPROOF SEALANT.
4. VOIDS BETWEEN INLET AND OUTLET PIPING OF THE TANK SHALL BE FILLED WITH NON-SHRINKING GROUT AND COATED WITH A WATERPROOF SEALANT.
5. THE TANK SHALL HAVE EXTENSIONS TO GRADE ABOVE THE INLET AND OUTLET PIPING. THE EXTENSION SHALL HAVE FRAMES AND MANHOLE COVERS.
6. THE OUTLET PIPING SHALL UTILIZE A TEE-PIPE ON THE INTERIOR OF THE TANK. THE TEE-PIPE SHALL BE EQUIPPED WITH A STAND PIPE RISER EXTENDING UP THE EXTENSION TO GRADE BUT NO CLOSER THAN EIGHT (8) INCHES FROM THE MANHOLE COVER. THE TEE-PIPE SHALL EXTEND SIX (6) TO TWELVE (12) INCHES FROM THE BOTTOM OF THE TANK.
7. THE INLET EXTENSION TO GRADE SHALL BE PROVIDED WITH A VENT LINE WHICH EXTENDS EIGHT (8) FEET ABOVE FINISHED GRADE AND PROPERLY SECURED TO THE BUILDING. THE SIZE OF THE VENT SHALL BE HALF THE SIZE OF THE OUTLET DISCHARGE LINE.
8. THE HORIZONTAL STRUCTURAL SEAM OF THE TANK SHALL BE LOCATED ABOVE THE STATIC LIQUID LEVEL OF THE TANK.
9. THE INCOMING PIPE SHALL NOT INCLUDE ANY SOURCES OF DOMESTIC WASTEWATER OR STORMWATER.
10. THE OUTLET PIPE SHALL BE CONNECTED TO THE SANITARY SEWER.
11. THE OUTLET PIPE SHALL BE AT LEAST THE SIZE OF THE INLET PIPE OR GREATER AND AT A MINIMUM SHOULD BE 4.0 INCHES IN DIAMETER.
12. IF HEAVY PIPING, SUCH AS CAST IRON IS USED, ALL PIPING MUST BE STRUCTURALLY SECURED.
13. THE CONCRETE COVERS PROVIDED BY THE OIL SEPARATOR MANUFACTURES MUST BE REMOVED AND DISCARDED.

OIL WATER SEPARATOR
DETAIL S 46
NTS

File: S-46 Oil Water Separator.dwg

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NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

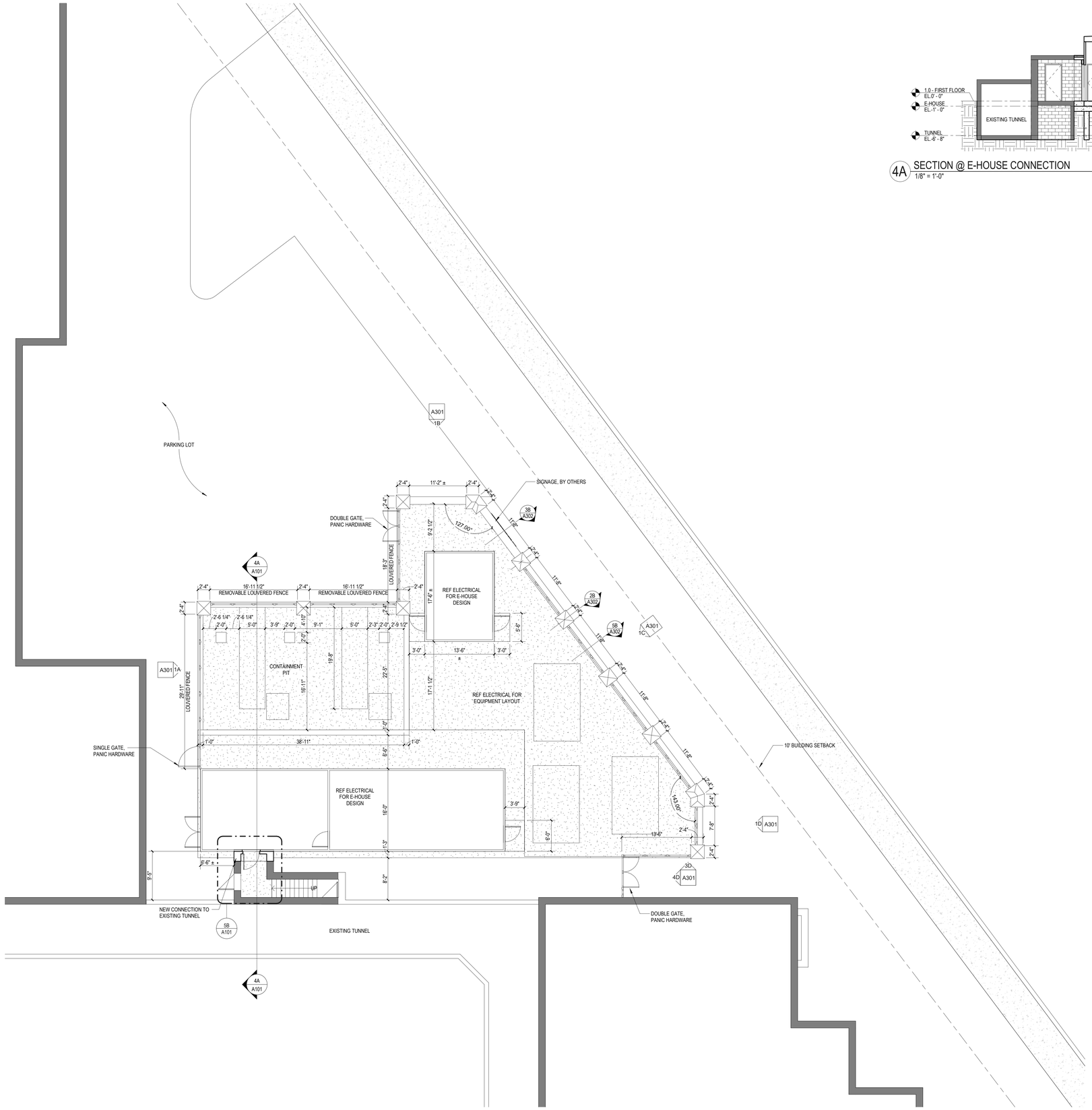
DRAWING TITLE:

SITE DETAILS

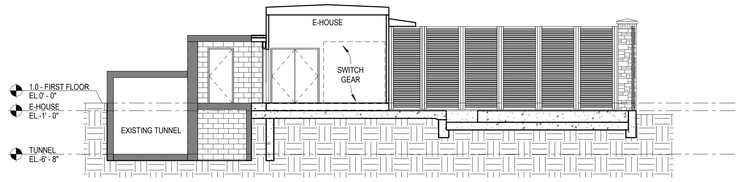
DWN BY: SEJ
CHKD BY: RB
SCALE: NOT TO SCALE
JOB NO.: 20160045.S10
DATE: 07/13/2021

DRAWING NO.

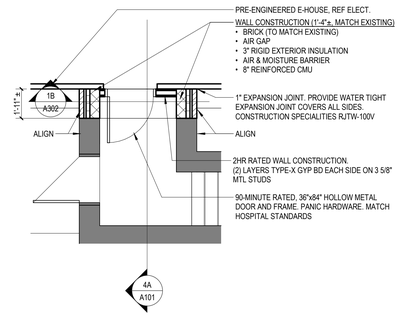
CD-504



1E SUBSTATION SITE PLAN
1/8" = 1'-0"



4A SECTION @ E-HOUSE CONNECTION
1/8" = 1'-0"



5B ENLARGED TUNNEL EXPANSION
1/4" = 1'-0"

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NORTH

NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY
ELECTRIC
SUBSTATION PROJECT

DRAWING TITLE:

SUBSTATION SITE PLAN

DWN BY:	RMM
CHKD BY:	
SCALE:	As indicated
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.

A101

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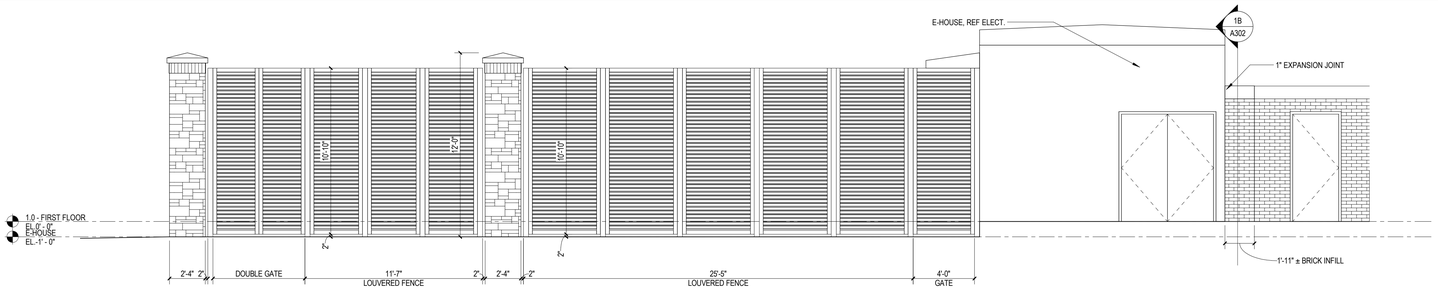
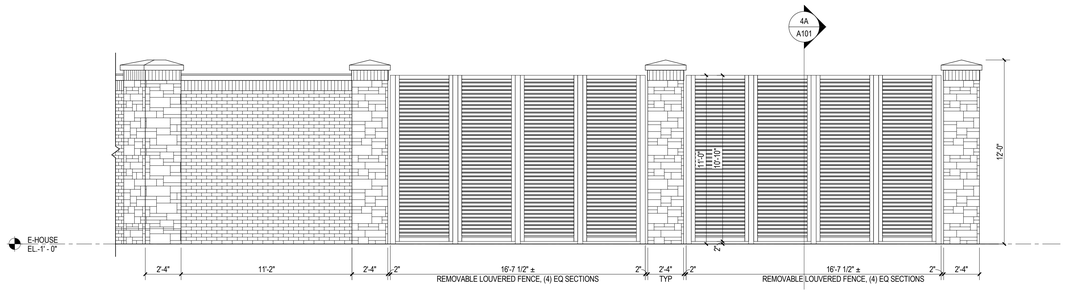
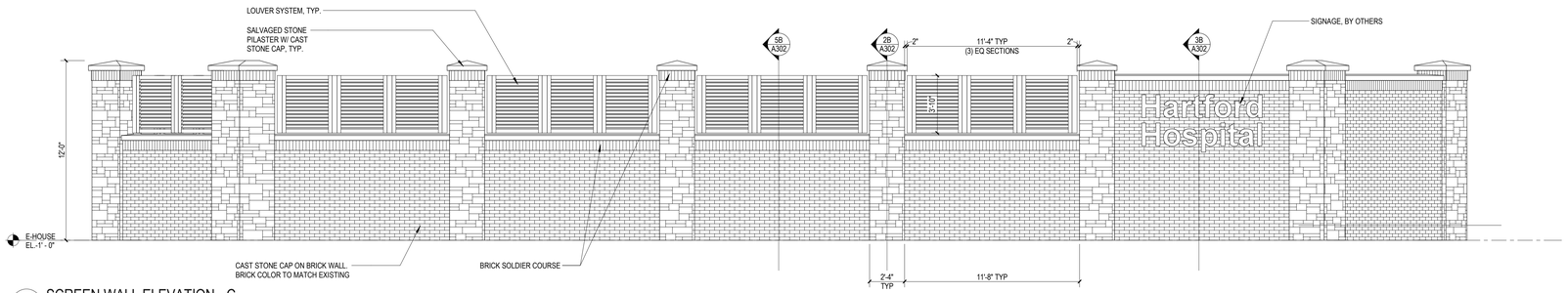


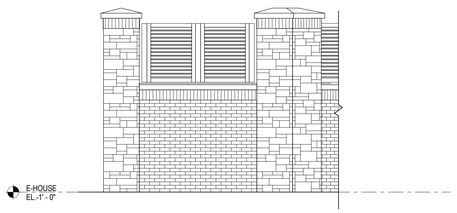
1A SCREEN WALL ELEVATION - A
1/4" = 1'-0"



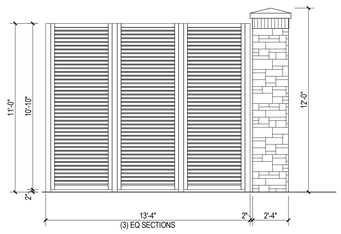
1B SCREEN WALL ELEVATION - B
1/4" = 1'-0"



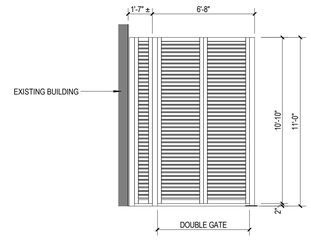
1C SCREEN WALL ELEVATION - C
1/4" = 1'-0"



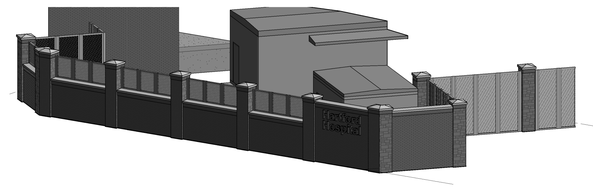
1D SCREEN WALL ELEVATION - D
1/4" = 1'-0"



3D SCREEN WALL ELEVATION - E
1/4" = 1'-0"



4D SCREEN WALL ELEVATION - F
1/4" = 1'-0"



5A SCREEN WALL PERSPECTIVE

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NORTH

NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY
ELECTRIC
SUBSTATION PROJECT

DRAWING TITLE:

SCREEN WALL ELEVATIONS

DWN BY:	**RMM**
CHKD BY:	
SCALE:	**1/4" = 1'-0"**
JOB NO.:	**16012.00**
DATE:	**07/13/2021**

DRAWING NO.

A301

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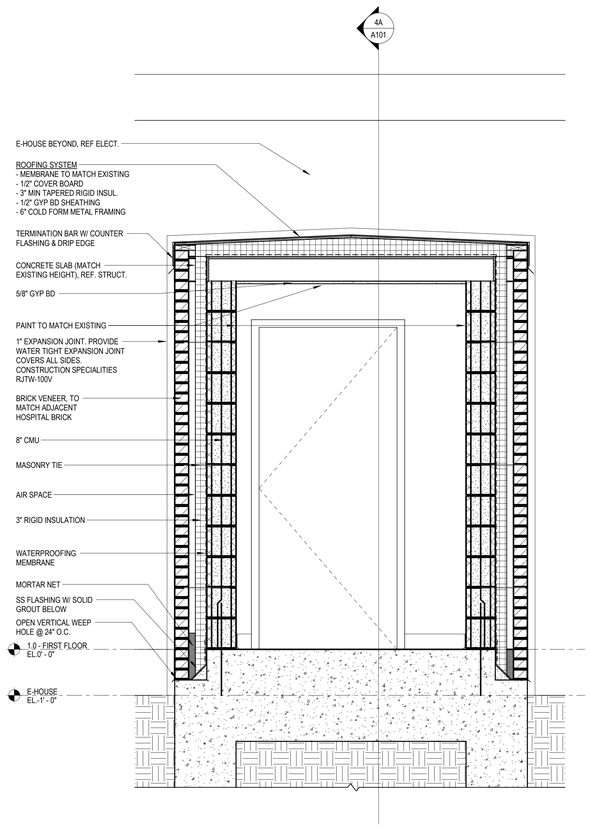
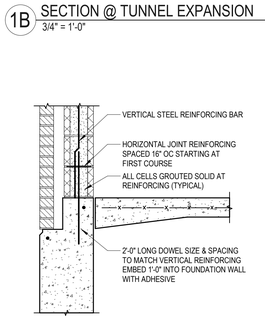
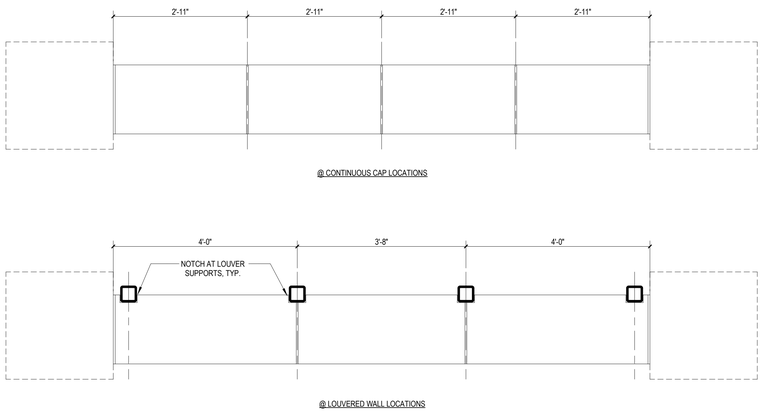


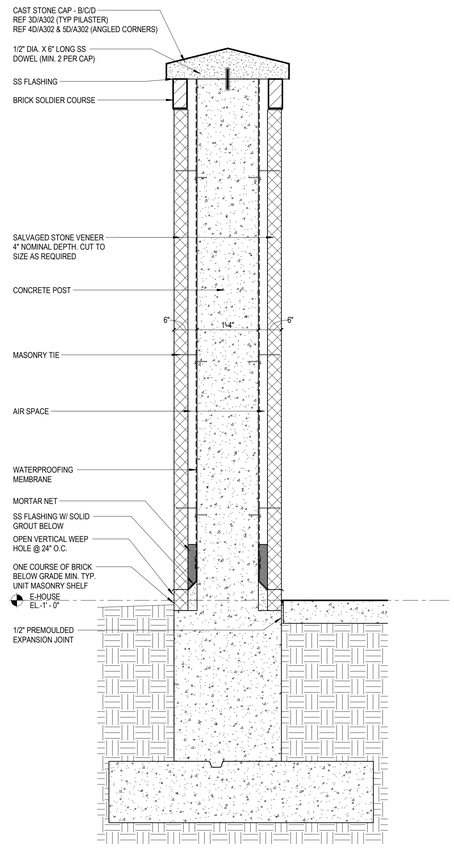
1B SECTION @ TUNNEL EXPANSION
3/4" = 1'-0"



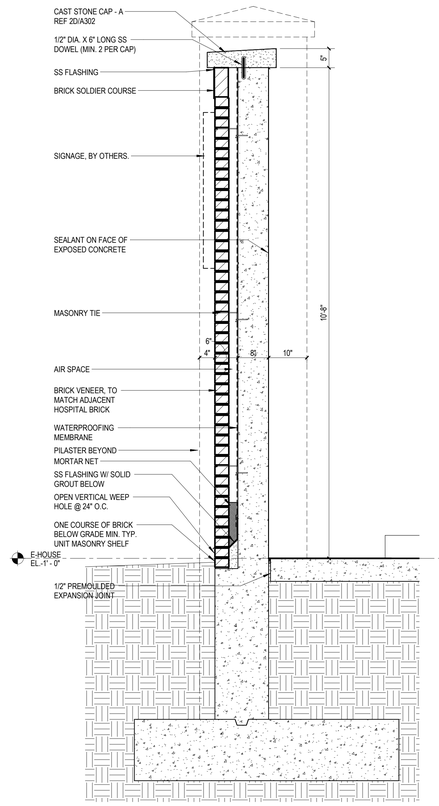
1C TYPICAL ANCHORAGE AT FOUNDATION AT VERTICALLY-SPANNING WALLS
3/4" = 1'-0"



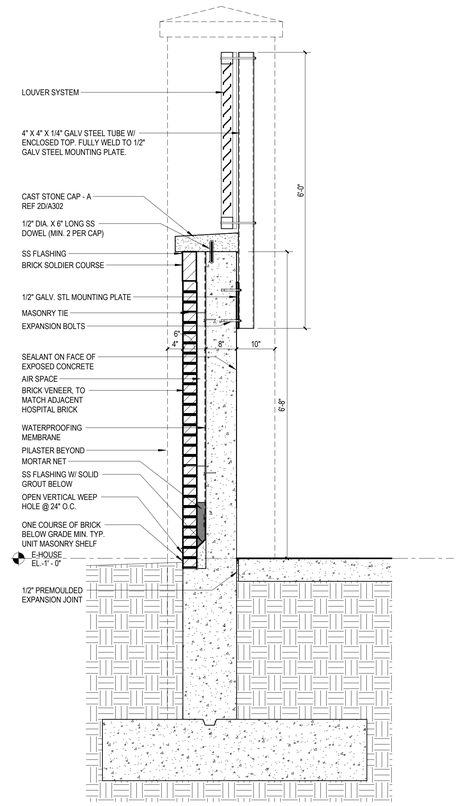
1D CAST STONE CAP - SEAMING DIAGRAM
3/4" = 1'-0"



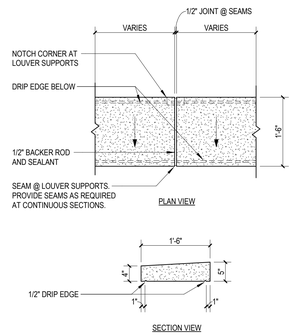
2B SECTION @ PILASTER
3/4" = 1'-0"



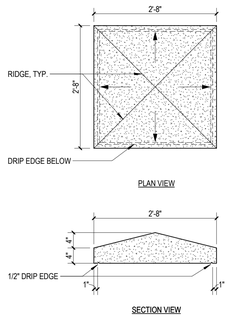
3B SECTION @ BRICK WALL
3/4" = 1'-0"



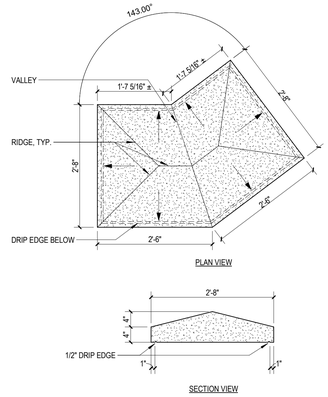
5B SECTION @ BRICK & LOUVER WALL
3/4" = 1'-0"



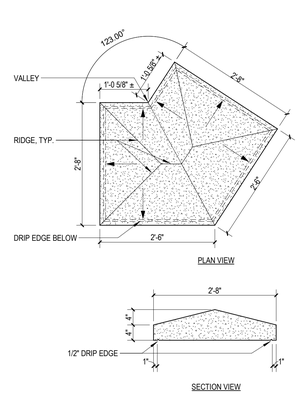
2D CAST STONE CAPE - TYPE A
3/4" = 1'-0"



3D CAST STONE CAPE - TYPE B
3/4" = 1'-0"



4D CAST STONE CAPE - TYPE C
3/4" = 1'-0"



5D CAST STONE CAPE - TYPE D
3/4" = 1'-0"

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NORTH

NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
EXTERIOR SECTIONS & DETAILS

DWN. BY:	RMM
CHKD. BY:	
SCALE:	3/4" = 1'-0"
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.: **A302**

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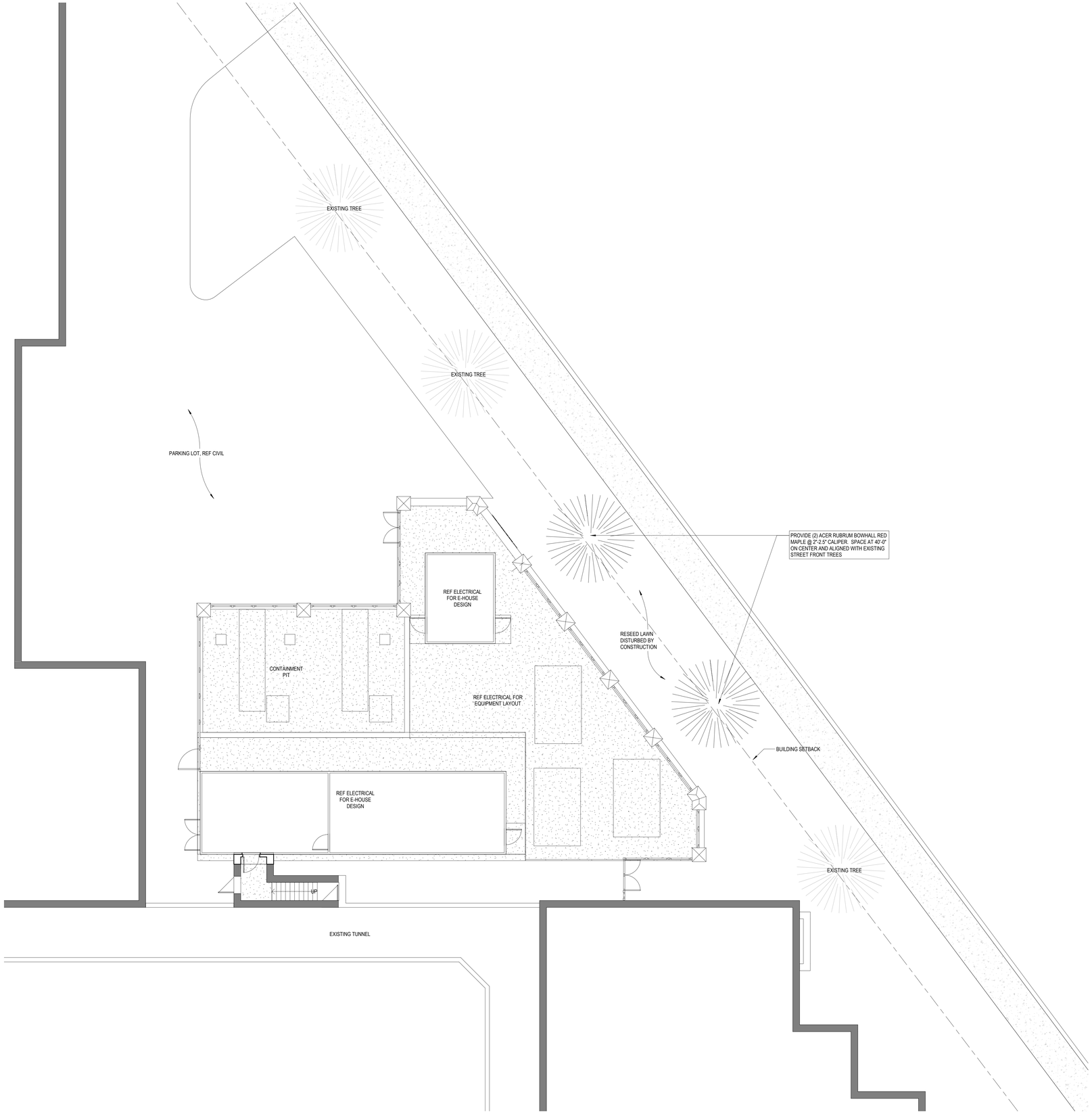

1E SUBSTATION SITE PLAN
1/8" = 1'-0"

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NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
LANDSCAPE PLANTING PLAN

DWN BY: RMM	DRAWING NO.
CHKD BY:	**L101**
SCALE: 1/8" = 1'-0"	
JOB NO.: 16012.00	
DATE: 07/13/2021	

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STRUCTURAL GENERAL NOTES

A. **CODES AND STANDARDS:**
THE FOLLOWING CODES AND STANDARDS, AND ALL REFERENCED STANDARDS THEREIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE. SAFETY AND CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
1. 2018 STATE BUILDING CODE, STATE OF CONNECTICUT
   NOTE: CURRENT CONNECTICUT SUPPLEMENT MAY BE DOWNLOADED FROM THE DEPT. OF STATE BUILDING INSPECTOR AT WWW.CT.GOV
2. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (SEI/ASCE 7-10), AMERICAN SOCIETY OF CIVIL ENGINEERS.
3. "STEEL CONSTRUCTION MANUAL" 13TH EDITION, 2005, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS)

B. **DESIGN DATA:**
1. *IBC2015* FLOOR LIVE LOAD:

AREA	UNIFORM LOAD	CONC. LOAD	LL REDUCIBLE?	IMPACT LOAD
a. PATIO ROOF	100 psf	2000 lbs	No	N/A

2. *IBC2015* ROOF SNOW LOAD:
   - a. GROUND SNOW LOAD, P_g = 35psf
   - b. *IBC2015* FLAT ROOF SNOW LOAD, P_f = 30psf
   - c. *IBC2015* SNOW EXPOSURE FACTOR, C_e = 1.0
   - d. *IBC2015* SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
   - e. *IBC2015* THERMAL FACTOR, C_t = 1.0
3. WIND LOAD:
   - a. *IBC2015* BASIC WIND SPEED (3 SECOND GUST) 125 MPH
   - b. *IBC2015* NOMINAL DESIGN WIND SPEED 97 MPH
   - c. *IBC2015* WIND IMPORTANCE FACTOR, I_w = 1.0
   - d. *IBC2015* RISK CATEGORY II
   - e. *IBC2015* WIND EXPOSURE C
   - f. *IBC2015* INTERNAL PRESSURE COEFFICIENT
   - g. *IBC2015* COMPONENTS AND CLADDING: N/A
   - h.
4. EARTHQUAKE DESIGN DATA:
   - a. *IBC2015* ANALYSIS PROCEDURE — EQUIVALENT. LATERAL FORCE PROCEDURE
   - b. *IBC2015* RISK CATEGORY — II
   - c. *IBC2015* SEISMIC IMPORTANCE FACTOR, — I_E = 1.0
   - d. *IBC2015* MAPPED SPECTRAL RESPONSE COEFFICIENTS — S_s = 0.185 S_1 = 0.064
   - e. *IBC2015* SITE CLASS — D (ASSUMED)
   - f. *IBC2015* SPECTRAL RESPONSE COEFFICIENTS, — S_{ds} = 0.197 S_{d1} = 0.102
   - g. *IBC2015* SEISMIC DESIGN CATEGORY — B
   - h. *IBC2015* BASIC SEISMIC FORCE RESISTING SYSTEM - CANOPY — CANTILEVERED COLUMN-ORDINARY
   - i. *IBC2015* BASIC SEISMIC FORCE RESISTING SYSTEM - DUNNAGE — CANTILEVERED COLUMN - ORDINARY
   - j. *IBC2015* RESPONSE MODIFICATION FACTOR, — R = 3.0
   - k. *IBC2015* DEFLECTION AMPLIFICATION FACTOR, — C_d = 3.0
   - l. *IBC2015* OVERSTRENGTH FACTOR — W_o = 3.0
   - m. LONG-PERIOD TRANSITION PERIOD — TL= 6 SEC

C. **FOUNDATIONS/GEOTECHNICAL REPORT:**
1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE INFORMATION SHOWN ON THE EXISTING BUILDING DRAWINGS. NO NEW GEOTECHNICAL REPORT HAS BEEN PROVIDED BY THE OWNER FOR THIS PROJECT.
2. ALL FOUNDATIONS SUSCEPTIBLE TO FROST SHALL BEAR A MINIMUM OF 3'-6" BELOW GRADE. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
3. FOUNDATIONS PLACED ON UNDISTURBED SOIL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 4000 PSF.
4. FOUNDATIONS PLACED ON COMPACTED STRUCTURAL FILL, WHERE INDICATED ON THE DRAWINGS, HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 4000 PSF.

D. **MATERIALS:**
1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.
2. CEMENT: ASTM C150; TYPE I OR III
   ASTM C150; TYPE II FOR CONCRETE IN CONTACT WITH EARTH
3. CONCRETE:
   ALL ELEVATED SLAB INFILLS SHALL BE NORMAL WEIGHT CONCRETE.
   ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.

APPLICATION	F'C @28 DAYS (PSI)
SLABS ON GRADE	4000
NORMAL WEIGHT FILL ON METAL DECK	4000
FOOTINGS AND PIERS	4000
POST TENSION CONCRETE	4000
EXTERIOR SLABS ON GRADE	4500

4. REINFORCEMENT:
   - a. DEFORMED REINFORCING BARS - GRADE 60
5. STEEL:
   - a. STRUCTURAL STEEL WIDE FLANGE & TEE SECTIONS — ASTM A992
   - b. STRUCTURAL ANGLES, CHANNELS & PLATES — ASTM A36
   - c. ROUND HOLLOW STRUCTURAL SHAPES — ASTM A500, GRADE B, Fy=42ksi
   - d. RECTANGULAR HOLLOW STRUCTURAL SHAPES — ASTM A500, GRADE B, Fy=46ksi
   - e. HIGH STRENGTH BOLTS — ASTM A325-N OR TC-TYPE
   - f. WELDING ELECTRODES — AWS A5.1 OR A5.5, E70XX

E. **CONSTRUCTION:**
1. GENERAL:
   - a. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
   - b. TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.
   - c. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
   - d. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
   - e. EXISTING BUILDING INFORMATION SHOWN IS AS INDICATED ON EXISTING BUILDING DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES. UNLESS INDICATED OTHERWISE, NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
   - f. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES, TEMPORARY SHORING, AND BRACING OF EXISTING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   - g. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
   - h. CONTRACTOR SHALL COORDINATE WITH ALL ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
   - i. OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, STEEL FRAMED SLAB OPENINGS, AND SLAB DEPRESSIONS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FOOD SERVICE ITEMS HAVE BEEN SHOWN BASED ON DESIGN DRAWINGS THAT WERE AVAILABLE FOR COORDINATION PRIOR TO THE ISSUANCE OF THE FINAL BID DOCUMENTS. THESE ITEMS ARE SHOWN TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE GENERAL SCOPE OF WORK, BUT ARE NOT INTENDED TO REPRESENT EXACT LOCATIONS, QUANTITIES, OR COMPLETE EXTENT OF REQUIRED COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES. FRAMES
2. INSPECTION AND TESTING:
   - a. THE OWNER SHALL ENGAGE A TESTING AGENCY AND A SPECIAL INSPECTOR TO PROVIDE SERVICES AND SUBMIT REPORTS AS INDICATED IN THE SPECIFICATIONS AND STATEMENT OF SPECIAL INSPECTIONS.

F. **FOUNDATIONS & STRUCTURAL EARTHWORK:**
1. GENERAL:
   - a. SEE THE SPECIFICATIONS EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES.
   - b. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS, AND SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
   - c. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
   - d. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN.
   - e. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
   - f. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL.
   - g. NEW FOOTING BEARING ELEVATIONS ARE TO MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE APPLICABLE UNLESS INDICATED OTHERWISE ON PLANS.
   - h. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S/ ENGINEERING SEAL AND SIGNATURE.

G. **CONCRETE:**
1. CAST-IN-PLACE:
   REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   - NON-POST-TENSIONED CONCRETE:
     CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
     CONCRETE EXPOSED TO EARTH OR WEATHER:
     #6 BARS AND LARGER: 2"
     #5 BARS AND SMALLER: 1½"
     CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     SLABS, WALL, JOISTS: #11 BARS AND SMALLER: ¾"
     PIERS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1½"
2. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS AUTHORIZED BY THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SUBMITTAL OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
3. CORE DRILLING SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
4. SPLICES OF REINFORCEMENT SHALL BE AS DETAILED ON THE APPROVED PLACEMENT DRAWINGS OR AS AUTHORIZED BY THE STRUCTURAL ENGINEER. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
5. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.
7. SUBMIT MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY DEMONSTRATING THAT TEST RESULTS FOR TRIAL MIX BATCHES FOR EACH CONCRETE MIX DESIGN COMPLY WITH ACI 301 AND THE ADDITIONAL REQUIREMENTS OF THE PROJECT CONTRACT DOCUMENTS.
8. ALL POST INSTALLED CONCRETE ANCHORS SHALL BE EVALUATED BY THE ICC EVALUATION SERVICE AND SHALL BE TESTED IN ACCORDANCE WITH AC 193 (ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS) OR AC 308 (ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS). APPROVED ANCHORS SHALL BE SUITABLE FOR USE IN SEISMIC ZONES A-F IN ADDITION TO CRACKED CONCRETE. CONTRACTORS SHALL SUBMIT MANUFACTURER PRODUCT INFORMATION CLEARLY STATING WHICH ANCHOR TYPE, DIAMETER AND EMBEDMENT IS TO BE USED AS WELL AS INSTALLATION PROCEDURE TO THE STRUCTURAL ENGINEER FOR THEIR REVIEW. ANCHOR INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE PROGRAM OF SPECIAL INSPECTIONS.

H. **STRUCTURAL STEEL:**
1. GENERAL:
   - a. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION SEQUENCES, MEANS, AND METHODS; AND FOR THE DESIGN OF TEMPORARY LATERAL AND VERTICAL BRACING. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE COMPLETE VERTICAL AND LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.
   - b. THE COMPLETE LATERAL FORCE RESISTING SYSTEM (LFRS) INCLUDES HORIZONTAL ELEMENTS, SUCH AS DIAPHRAGMS AND COLLECTORS, VERTICAL ELEMENTS SUCH AS SHEAR WALLS, BRACED FRAMES MOMENT FRAMES, FOUNDATIONS, AND ALL ASSOCIATED CONNECTIONS AND ANCHORAGES. CONTRACTORS RESPONSIBLE FOR THE INSTALLATION OF LATERAL FORCE RESISTING ELEMENTS SHALL REVIEW THE DRAWINGS TO BECOME FAMILIAR WITH THE COMPLETE SYSTEM. IF THE COMPLETE LFRS IS NOT UNDERSTOOD, THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE STRUCTURAL ENGINEER OF RECORD, AND ALSO ANY SPECIALTY STRUCTURAL ENGINEERS THAT ARE RESPONSIBLE FOR THE DESIGN OF SPECIFIC ELEMENTS OF THE LFRS.
   - c. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
   - d. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. INSTALL EXPANSION BOLTS AND ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
   - e. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
   - f. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.
   - g. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND SHALL RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
   - h. ALL STRUCTURAL STEEL THAT IS DIRECTLY EXPOSED TO WEATHER, SHALL BE HOT-DIPPED GALVANIZED, UNLESS OTHERWISE INDICATED.
   - i. STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES AND NOT DIRECTLY EXPOSED TO WEATHER, SHALL BE POWER TOOL CLEANED AND PAINTED WITH THREE COATS OF OIL BASE PAINT IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL PAINTING SYSTEM SPECIFICATION NO. 1.09 OR HOT DIPPED GALVANIZED, AT THE CONTRACTOR'S OPTION.
2. CONNECTIONS
   - a. THE FABRICATOR SHALL EMPLOY A PROFESSIONAL ENGINEER TO BE IN RESPONSIBLE CHARGE OF THE DEVELOPMENT OF FABRICATION AND ERECTION DRAWINGS. THE REGISTERED DESIGN PROFESSIONAL (RDP) SHALL BE REGISTERED AND APPROVED TO PERFORM STRUCTURAL ENGINEERING IN THE PROJECT'S JURISDICTION.
   - b. ALL CONNECTIONS SHALL BE SELECTED, COMPLETED, DESIGNED, AND DETAILED BY THE FABRICATOR'S RDP IN RESPONSIBLE CHARGE OF THE DEVELOPMENT OF FABRICATION AND ERECTION DRAWINGS. CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THE GOVERNING AISC SPECIFICATION. SUBMIT CALCULATIONS BEARING THE RDP'S SEAL AND SIGNATURE PRIOR TO, OR ALONG WITH, PIECE DETAILS.
   - c. ALL CONNECTIONS, SPLICES, SHOP STANDARDS, AND TEMPORARY SUPPORT SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP STANDARDS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE PRIOR TO, OR ALONG WITH, PIECE DETAILS.
     - SIMPLE SHEAR CONNECTIONS MAY BE SELECTED FROM AISC'S TABULATED SIMPLE SHEAR CONNECTIONS, SUBJECT TO RESTRICTIONS INDICATED.
     - SPECIALTY CONNECTIONS SHALL BE DESIGNED BASED ON THE LOAD DATA AND SCHEMATIC DETAILS INDICATED.
     - REACTIONS INDICATED ON FRAMING PLANS ARE BASED ON UNFACTORED LOADS, UNLESS OTHERWISE NOTED.
   - d. PROVIDE NO LESS THAN 3/16" WELDS EXCEPT ALONG EDGES OF MATERIALS THAT ARE ¼" OR LESS IN THICKNESS, FOR EDGES OF MATERIALS THAT ARE 1/4" OR LESS IN THICKNESS, USE THE MAXIMUM SIZE WELD PERMITTED BY THE GOVERNING AISC SPECIFICATION.
   - e. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
   - f. UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.
   - g. BOLTS USED IN STRUCTURAL STEEL FRAMING CONNECTIONS SHALL BE A MINIMUM OF ¾" DIAMETER.
   - **h.** BOLTED CONNECTIONS SHALL USE A MINIMUM OF TWO BOLTS PER CONNECTED PART, UNLESS OTHERWISE INDICATED.

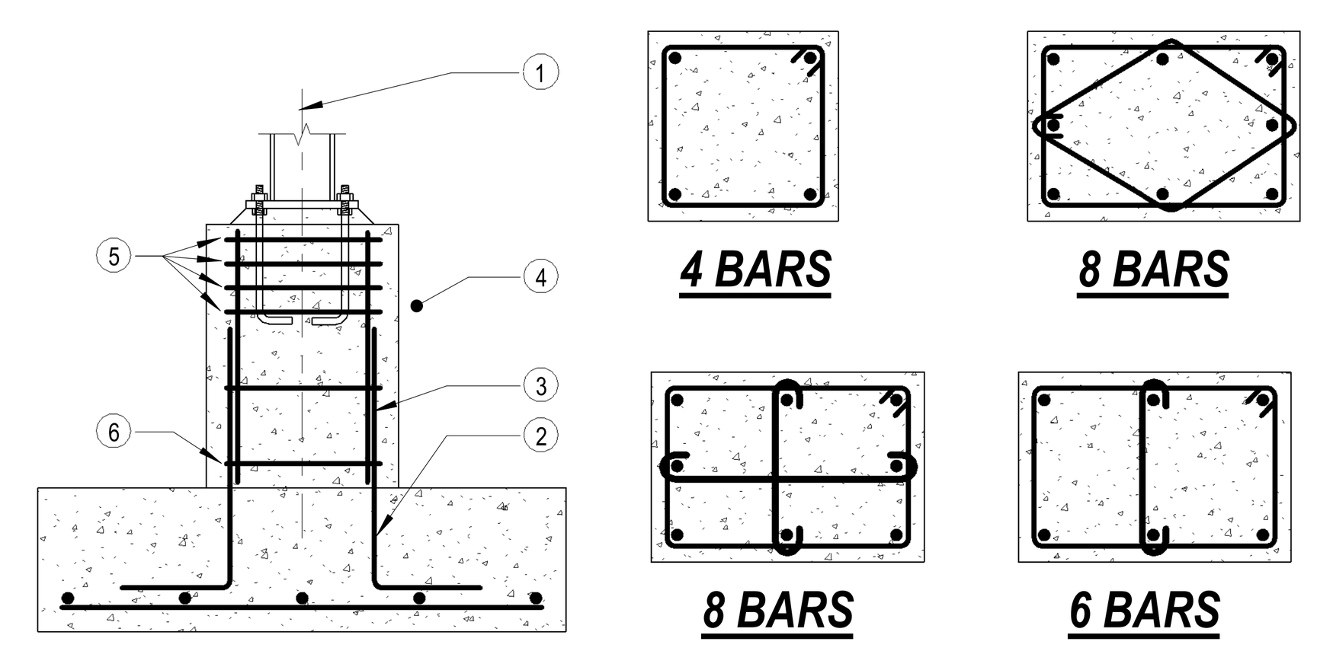
J. **STEEL DECK:**
1. FABRICATE PANELS WITH AN EXTENDED FEMALE LEG AT INTERLOCKING SEAMS THAT ALLOWS FOR SIDELAP SCREWS TO BE INSTALLED VERTICALLY.
2. STEEL ROOF DECK HAS BEEN SPECIFIED BASED ON A UL ASSEMBLY AS SPECIFIED BY ARCHITECT (VERIFY ASSEMBLY NUMBER WITH ARCHITECTURAL CONTRACT DOCUMENTS). STEEL ROOF DECKS SUPPLIED SHALL CONFORM TO THE REQUIREMENTS OF THIS UL ASSEMBLY NUMBER.
3. DO NOT PRIME PAINT DECK AREAS THAT ARE TO RECEIVE SPRAY APPLIED FIREPROOFING. COORDINATE LOCATIONS OF DECK THAT IS TO BE PAINTED WITH THE ARCHITECT.
4. THE STEEL DECK HAS BEEN DESIGNED FOR UNIFORMLY DISTRIBUTED LOADS AND MUST NOT BE USED AS THE EQUIVALENT OF POINT LOADS OR LINEAR LOADS. CONCENTRATED LOADS APPLIED TO STEEL DECK SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
5. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED FROM EXISTING OR NEW METAL ROOF DECK.

STRUCTURAL DRAWING LIST

PIER SCHEDULE

Column Location Mark	Pier: Top Of Pier	Pier: Width	Pier: Length	Reinforcing: Vertical	Reinforcing: Ties	Reference Level	Remarks
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	-1'-0"	2'-4"	2'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	10'-4"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	
	9'-10"	1'-4"	1'-4"	4 - #8	#4 AT 12" OC	FIRST FLOOR	

KEY NOTES:
1. CENTER PIER REINFORCING ABOUT COLUMN CENTERLINE.
2. ANCHOR VERTICAL PIER REINFORCING BARS INTO FOUNDATION USING STANDARD HOOKS.
3. PROVIDE CLASS B LAP SPLICES AS REQUIRED FOR CONSTRUCTABILITY.
4. PLACE PIERS MONOLITHICALLY WITH ADJACENT WALLS OR GRADE BEAM.
5. PROVIDE 2- #4 (OR 3-#3) CLOSED TIES WITHIN THE TOP 5" OF PIERS AND REMAINING TIES @ 12" OC.
6. LOCATE FIRST TIE NOT MORE THAN ONE-HALF OF A TYPICAL TIE SPACING ABOVE THE FOUNDATION.



CONCRETE PIER REINFORCING DETAILS

REINFORCING STEEL SPLICE LENGTH SCHEDULE: 4000 psi

BAR SIZE	TOP BARS	OTHER BARS
#3	$64d_b$ = 2'-0"	$49d_b$ = 1'-7"
#4	$64d_b$ = 2'-8"	$49d_b$ = 2'-1"
#5	$64d_b$ = 3'-4"	$49d_b$ = 2'-7"
#6	$64d_b$ = 4'-0"	$49d_b$ = 3'-1"
#7	$80d_b$ = 5'-10"	$62d_b$ = 4'-7"
#8	$80d_b$ = 6'-8"	$62d_b$ = 5'-2"
#9	$80d_b$ = 7'-6"	$62d_b$ = 5'-10"
#10	$80d_b$ = 8'-6"	$62d_b$ = 6'-6"

1. TOP BARS INCLUDE FOOTING REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REBAR, AND ALL HORIZONTAL WALL REINFORCEMENT WITHOUT EXCEPTION. REFER TO ACI 318 FOR MORE INFORMATION.
2. OTHER BARS INCLUDE FOOTING REINFORCEMENT WITH LESS THAN 12" OF CONCRETE CAST BELOW THE REBAR AND VERTICAL WALL REINFORCEMENT.
3. PROVIDE LAP SPLICES FOR PIER REINFORCEMENT PER OTHER BARS CATEGORY.
4. MINIMUM CLEAR SPACING OF BARS SHALL NOT BE LESS THAN 2 BAR DIAMETERS. CLEAR COVER SHALL NOT BE LESS THAN THE MOST RESTRICTIVE REQUIREMENT OF 1 BAR DIAMETER, THE MINIMUM CLEAR COVER DIMENSION LISTED IN THE CONTRACT DOCUMENTS, AND THE ACI CODE. REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD IMMEDIATELY.
5. SPLICES INDICATED ARE CLASS B LAP SPLICES. PROVIDE CLASS B LAP SPLICES AT ALL SPLICE LOCATIONS U.O.N.

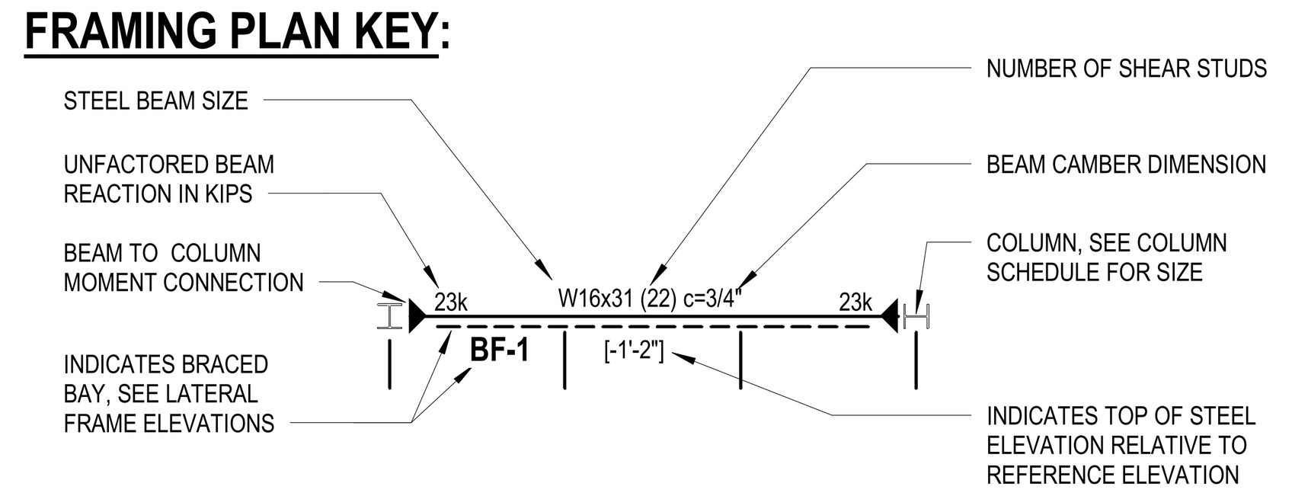
SLAB ON GRADE SCHEDULE

Mark	Thickness	Reinforcement	Remarks
S1	6"	6x6-W4.0xW4.0 WWF	4000 PSI NW CONCRETE
S2	1' - 0"	#4 AT 12" OC EW, TOP AND BOT	4000 PSI NW CONCRETE

STRUCTURAL ABBREVIATIONS

#	NUMBER OR POUND
&	AND
@	AT
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL/ARCHITECT
AVG	AVERAGE
BFE	BOTTOM OF FOOTING ELEVATION
BGB	BOTTOM OF GRADE BEAM
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
B PL	BASE PLATE, BEARING PLATE
BS	BOTH SIDES
BTB	BOTTOM OF TIE BEAM
BYD	BEYOND
C	CHANNEL
CANT	CANTILEVER
CB	CONCRETE BEAM/CATCH BASIN
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTRACTION/CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
DEFL	DEFLECTION
DEMO	DEMOLITION
Db	BAR DIAMETER
DIA, Ø	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DO	DITTO
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.F.	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
EOS	EDGE OF SLAB
EOD	EDGE OF DECK
EQ	EQUAL
E.W.	EACH WAY
EX	EXISTING
EXT	EXTERIOR
FTG	FOOTING
FDN	FOUNDATION
F.F.	FAR FACE
FFE	FINISHED FLOOR ELEVATION
FIN FL	FINISHED FLOOR
FLG	FLANGE
FO	FRAMED OPENING
FS	FOOTING STEP
FT	FOOT/FEET
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GRD	GRADE
HORIZ	HORIZONTAL
HKP	HOUSEKEEPING PAD
HP	HIGH POINT
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH (ES)
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
KB	KNEE BRACE
k	KIP (S)
L	ANGLE
LF	LINEAR FOOT
LG	LIGHT GAUGE
LL	LIVE LOAD
LP	LOW POINT
LW	LONG WAY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OPPOSITE HAND
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PEN	PENETRATION
PL	PLATE
PSL	PARALLEL STRAND LUMBER
QTY	QUANTITY
R	REACTION
R, RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE (MENT)
REQ'D	REQUIRED
REV	REVISION
RL	ROOF DRAIN LEADER
ROF	ROOF OPENING FRAME
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SJ	SEISMIC JOINT
SL	SLOPE
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
SW	SHORT WAY
SYM	SYMMETRICAL, SYMMETRY
T&B	TOP AND BOTTOM
TGB	TOP OF GRADE BEAM
TGE	TOP OF GRADE BEAM ELEVATION
TPC	TOP OF PILE CAP
TPE	TOP OF PIER ELEVATION
TSE	TOP OF SHELF ELEVATION
TTB	TOP OF TIE BEAM
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UOD	UNDERSIDE OF DECK
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGE
W/O	WITHOUT
W/	WITH
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

FRAMING PLAN KEY:



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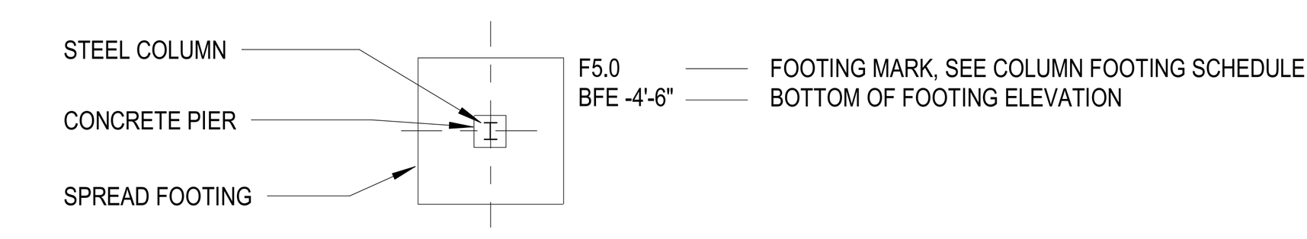

PLAN KEYS:

— — — — —	INDICATES CONTRACTION OR CONSTRUCTION JOINT (SEE TYPICAL DETAIL ON DWG. SXXX)
———	INDICATES ISOLATION JOINT (SEE TYPICAL DETAIL ON DWG. SXXX)
FO	INDICATES FRAMED OPENING PER DETAIL ON DRAWING S4XX. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL QUANTITIES, SIZES, AND LOCATIONS.
	INDICATES 4" DIA. PERFORATED UNDERSLAB DRAIN PIPE (MAX 3/8" DIA HOLE)
	INDICATES 6" DIA. PERFORATED FOOTING DRAIN PIPE (MAX 3/8" DIA HOLE)
	INDICATES PENETRATION THROUGH FOUNDATION WALL. COORDINATE SIZE, LOCATION, AND TYPE WITH MEP DRAWINGS
FP1	INDICATES CEMENTITIOUS FIRE PROOFING
FP2	INDICATES INTUMESCENT FIRE PROOFING
	INDICATES FIRE PROOFING APPIED TO ROOF DECK
	INDICATES CONTROL JOINT IN MASONRY WALL CONSTRUCTION. REFER TO DETAIL ON DWG ___
	INDICATES AREA OF DEPRESSED CONCRETE SLAB ON GRADE . DEPTH & EXACT LOCATION OF DEPRESSION SHALL BE COORDINATED WITH ARCH DWGS.
	INDICATES SLAB OPENING OR PENETRATION
BP- ##	INDICATES BASE PLATE MARK
BRG- ##	INDICATES BEARING PLATE MARK
CP- ##	INDICATES CAP PLATE MARK

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NORTH

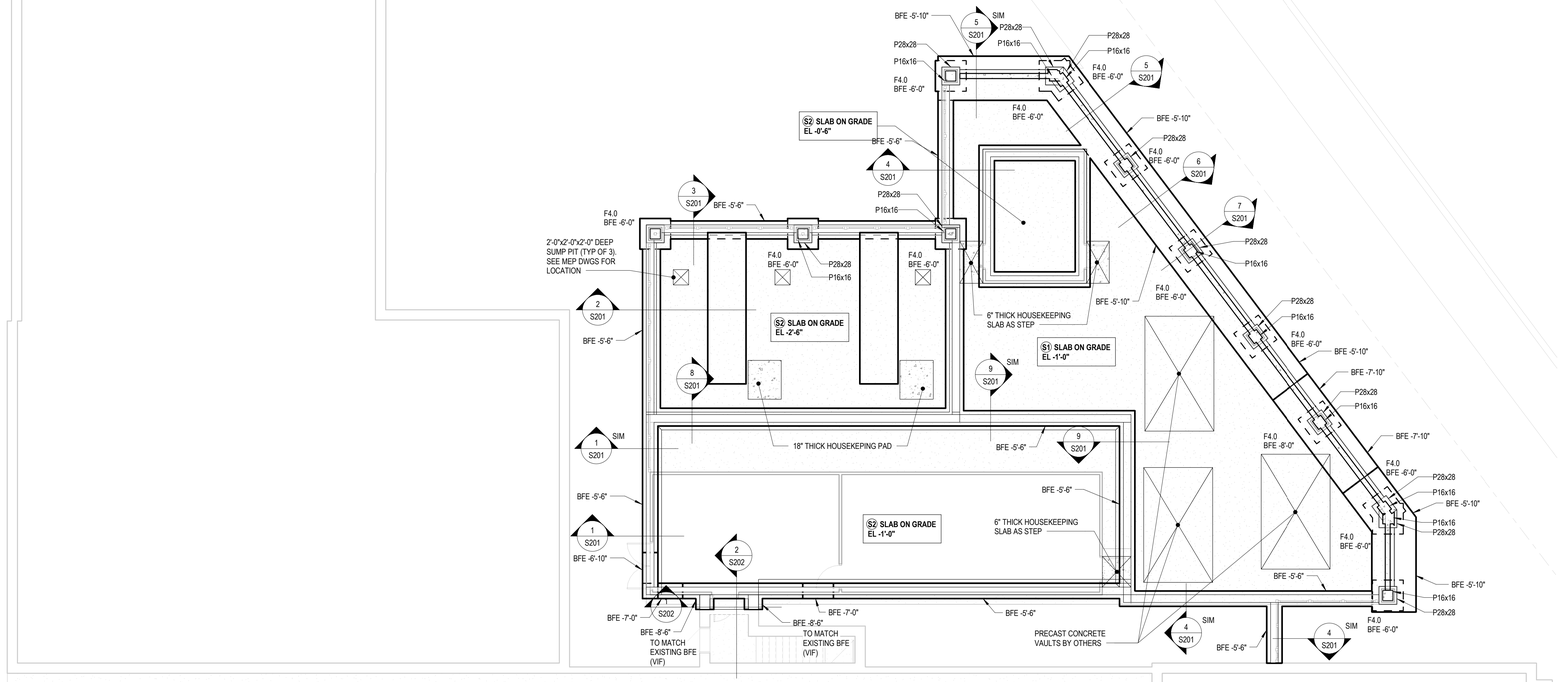
NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
GENERAL NOTES AND ABBREVIATIONS

DWN BY:	AB
CHKD BY:	DSG
SCALE:	As indicated
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.
S001



FOUNDATION PLAN
1/8" = 1'-0"

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NORTH

NUMBER	DATE	REVISION

PROJECT:
NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
FOUNDATION PLAN

DWN BY:	AB
CHKD BY:	DSG
SCALE:	1/8" = 1'-0"
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.
S101

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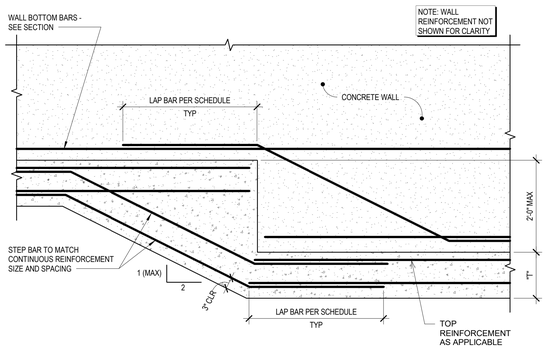
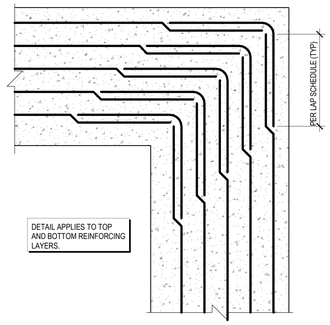
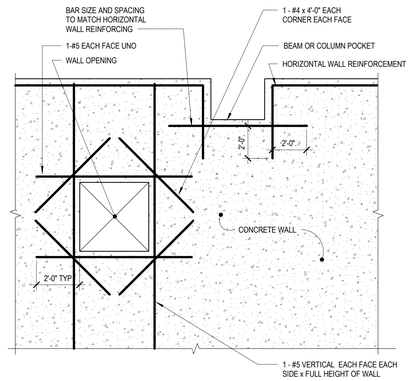


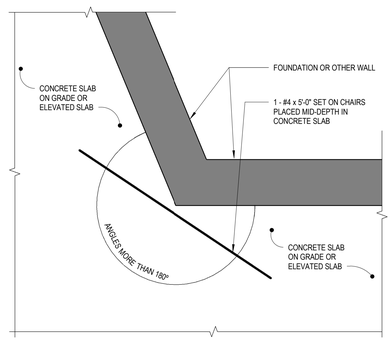
1 S200 TYPICAL STEPPED FOOTING
NOT TO SCALE



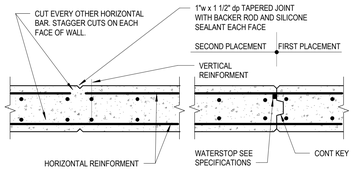
2 S200 TYPICAL FOOTING CORNER BAR DETAIL
NOT TO SCALE



3 S200 TYPICAL WALL REINFORCING
NOT TO SCALE



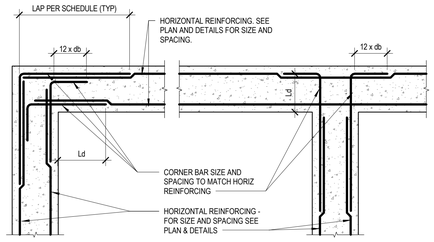
4 S200 TYPICAL RE-ENTRANT CORNER
NOT TO SCALE



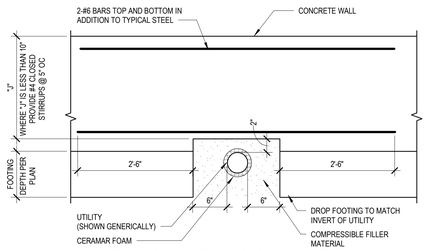
PLAN

1. PROVIDE CONSTRUCTION JOINT OR CONTRACTION JOINT AT 65'-0" MAX SPACING.
2. LOCATE FIRST JOINT NOT FARTHER THAN 15'-0" FROM A CORNER.
3. JOINT LOCATIONS AND DETAILS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
4. DO NOT USE THIS DETAIL FOR SHEAR WALLS OR WALLS DESIGNED TO SPAN HORIZONTALLY (NOTED ON PLANS).
5. PRIOR TO PLACEMENT OF WALL AT CONSTRUCTION JOINTS, ABRASIVE BLAST OR CHIP FIRST PLACEMENT FACE OF JOINT TO REMOVE LAITANCE, HONEYCOMBING, ETC. CLEAN WITH WATER AND STIFF BRUSH.
6. LOCATE JOINT NO CLOSER THAN 4'-0" FROM A PIER/CORNER OR PORTION OF WALL SUPPORTING CONCENTRATED LOAD.
7. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER SHALL BE REMOVED.
8. USE A BONDING AGENT AT LOCATIONS WHERE FRESH CONCRETE IS PLACE AGAINST HARDENED OR PARTIALLY HARDENED SURFACES.
9. CLEAN JOINT PRIOR TO INSTALLING JOINT SEALANT.

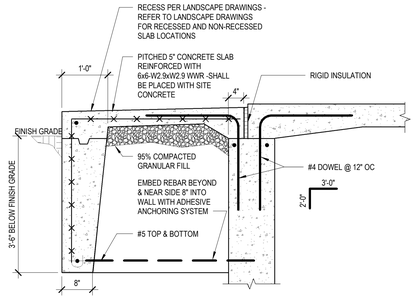
5 S200 TYPICAL WALL JOINTS
NOT TO SCALE



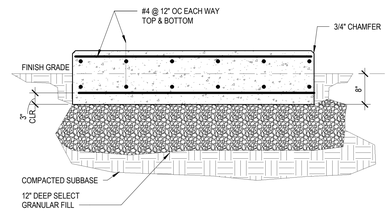
6 S200 TYPICAL WALL INTERSECTIONS
NOT TO SCALE



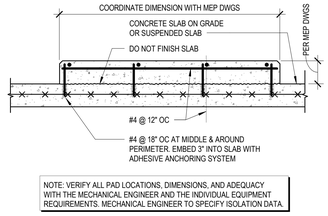
7 S200 TYPICAL FOOTING BREAK
NOT TO SCALE



8 S200 TYPICAL SLAB AT EXTERIOR DOOR
NOT TO SCALE

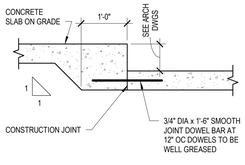


9 S200 EXTERIOR REINFORCED CONCRETE PAD
NOT TO SCALE

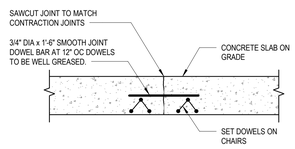


NOTE: VERIFY ALL PAD LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE MECHANICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA.

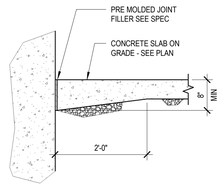
10 S200 TYPICAL HOUSEKEEPING PAD
NOT TO SCALE



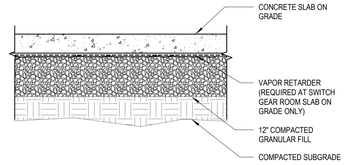
11 S200 TYPICAL SLAB DEPRESSION
NOT TO SCALE



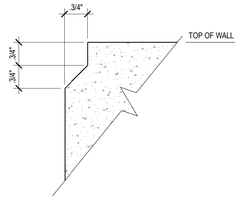
12 S200 TYPICAL SLAB CONSTRUCTION JOINT
NOT TO SCALE



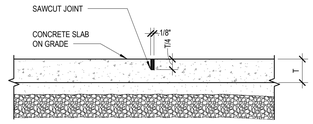
13 S200 TYPICAL SLAB ON GRADE PERIMETER DETAIL
NOT TO SCALE



14 S200 TYPICAL INTERIOR SLAB ON GRADE
NOT TO SCALE



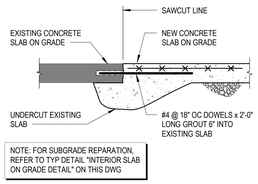
15 S200 TYP TOP OF WALL CHAMFER DETAIL
NOT TO SCALE



NOTES:

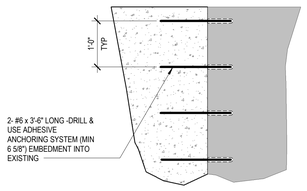
1. SAWCUT JOINTS USING A "SOFT-CUT" MACHINE OR EQUAL AS SOON AS POSSIBLE AFTER FINISHING SLAB WITHOUT DISLODGING LARGE AGGREGATE.
2. FILL JOINT WITH EPOXY SEALANT AFTER SLAB HAS BEEN CURED.
3. CONSTRUCTION JOINT MAY REPLACE CONTRACTION JOINT.

16 S200 TYPICAL SLAB ON GRADE CONTRACTION JOINT
NOT TO SCALE

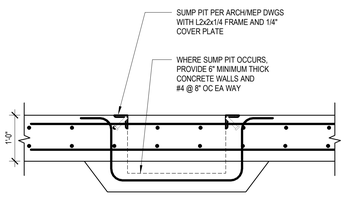


NOTE: FOR SUBGRADE REPARATION, REFER TO TYP DETAIL "INTERIOR SLAB ON GRADE DETAIL" ON THIS DWG

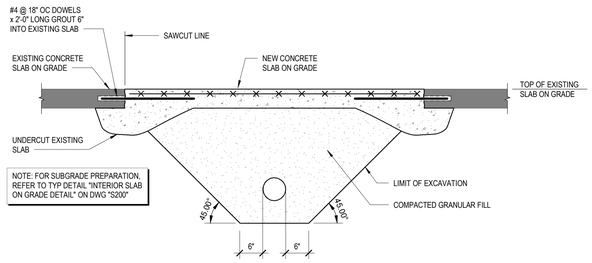
17 S200 TYPICAL NEW SLAB TO EXISTING SLAB DETAIL
NOT TO SCALE



18 S200 TYP NEW TO EXISTING FDN WALL DETAIL
NOT TO SCALE



19 S200 TYPICAL SUMP PIT
NOT TO SCALE



NOTE: FOR SUBGRADE PREPARATION, REFER TO TYP DETAIL "INTERIOR SLAB ON GRADE DETAIL" ON DWG "S200"

20 S200 NEW UTILITY PIPE INSTALLATION BELOW EXISTING SLAB ON GRADE
NOT TO SCALE

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NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:

FOUNDATION DETAILS

DWN BY:	AB
CHKD BY:	DSG
SCALE:	3/4" = 1'-0"
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.

S200

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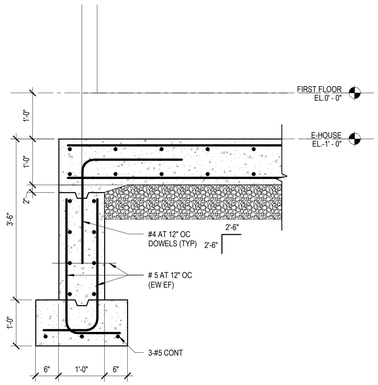
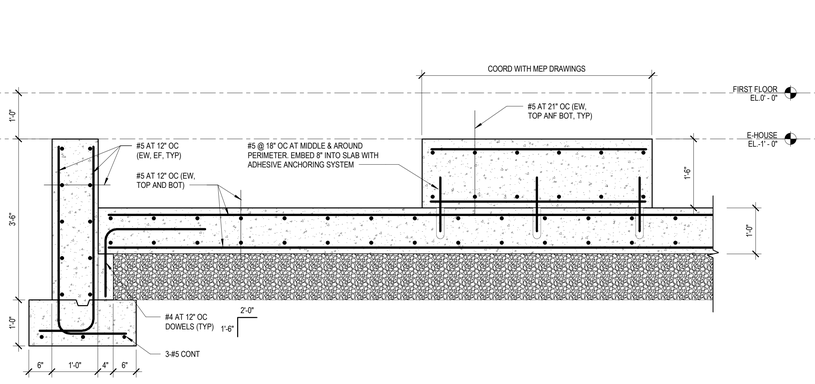
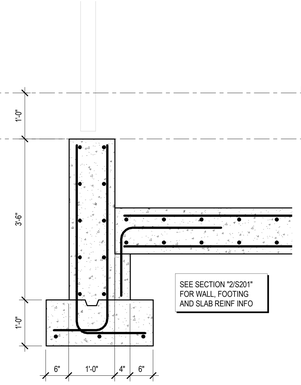


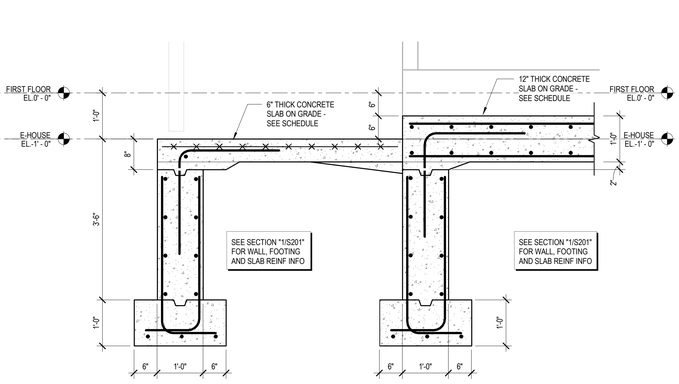
1 S201 FOUNDATION SECTION
3/4" = 1'-0"



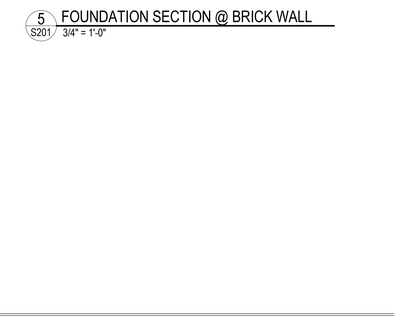
2 S201 FOUNDATION SECTION
3/4" = 1'-0"



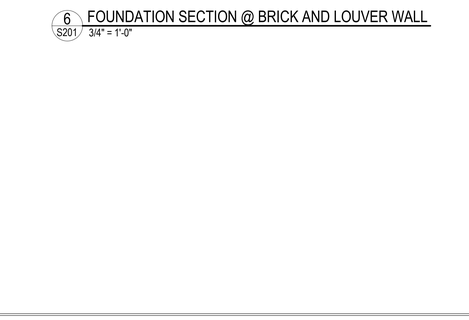
3 S201 FOUNDATION SECTION
3/4" = 1'-0"



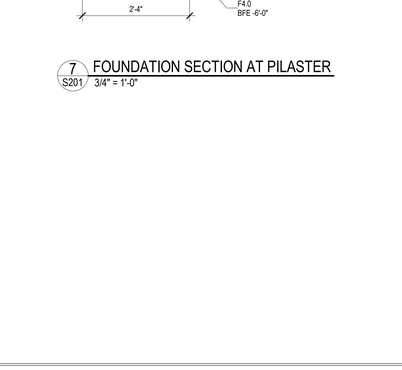
4 S201 FOUNDATION SECTION
3/4" = 1'-0"



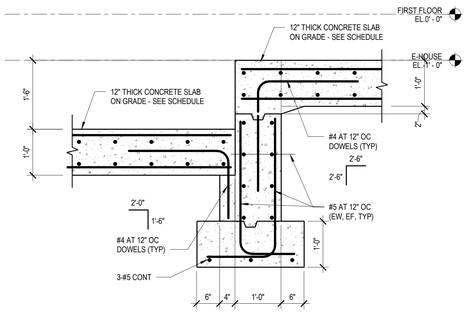
5 S201 FOUNDATION SECTION @ BRICK WALL
3/4" = 1'-0"



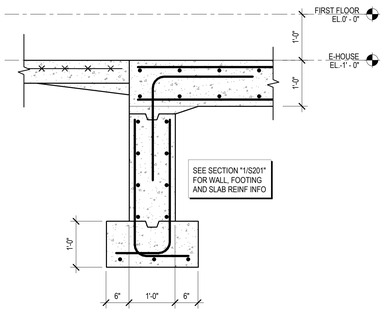
6 S201 FOUNDATION SECTION @ BRICK AND LOUVER WALL
3/4" = 1'-0"



7 S201 FOUNDATION SECTION AT PILASTER
3/4" = 1'-0"



8 S201 FOUNDATION SECTION
3/4" = 1'-0"



9 S201 FOUNDATION SECTION
3/4" = 1'-0"

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NORTH

NUMBER	DATE	REVISION

PROJECT:

NEW PRIMARY
ELECTRIC
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DRAWING TITLE:

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DWN BY:	AB
CHKD BY:	DSG
SCALE:	3/4" = 1'-0"
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.

S201

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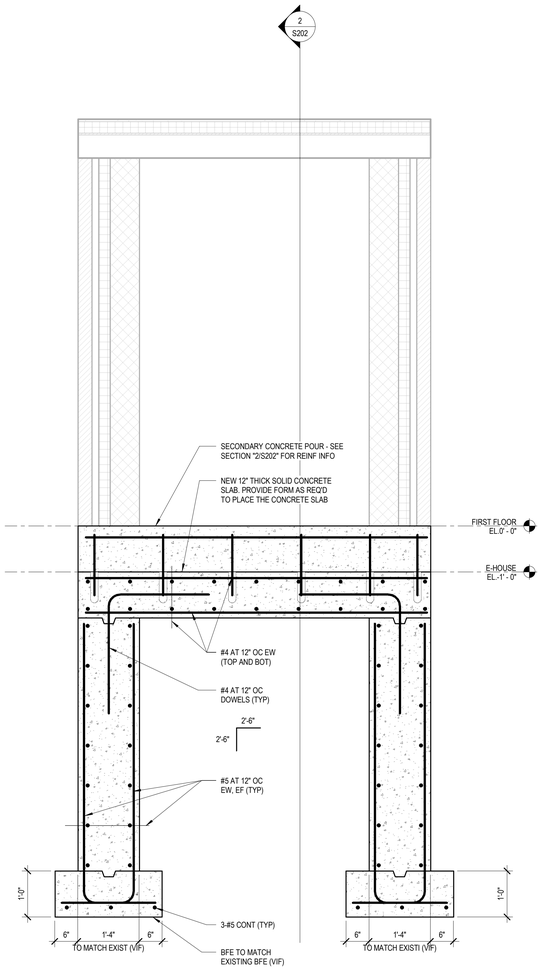
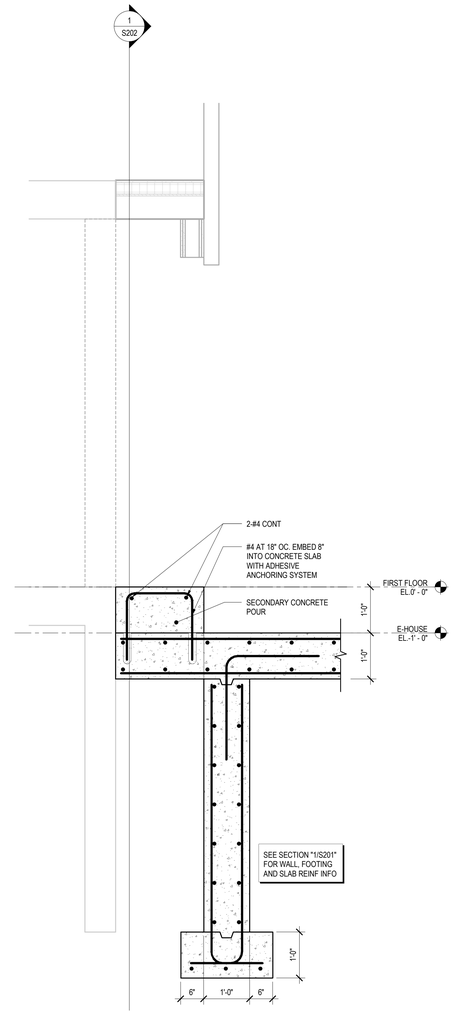


1 FOUNDATION SECTION AT EXISTING BUILDING
S202 3/4" = 1'-0"



2 FOUNDATION SECTION AT EXISTING BUILDING
S202 3/4" = 1'-0"

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NEW PRIMARY ELECTRIC SUBSTATION PROJECT

DRAWING TITLE:
FOUNDATION DETAILS

DWN BY:	AB
CHKD BY:	DSG
SCALE:	3/4" = 1'-0"
JOB NO.:	16012.00
DATE:	07/13/2021

DRAWING NO.
S202

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