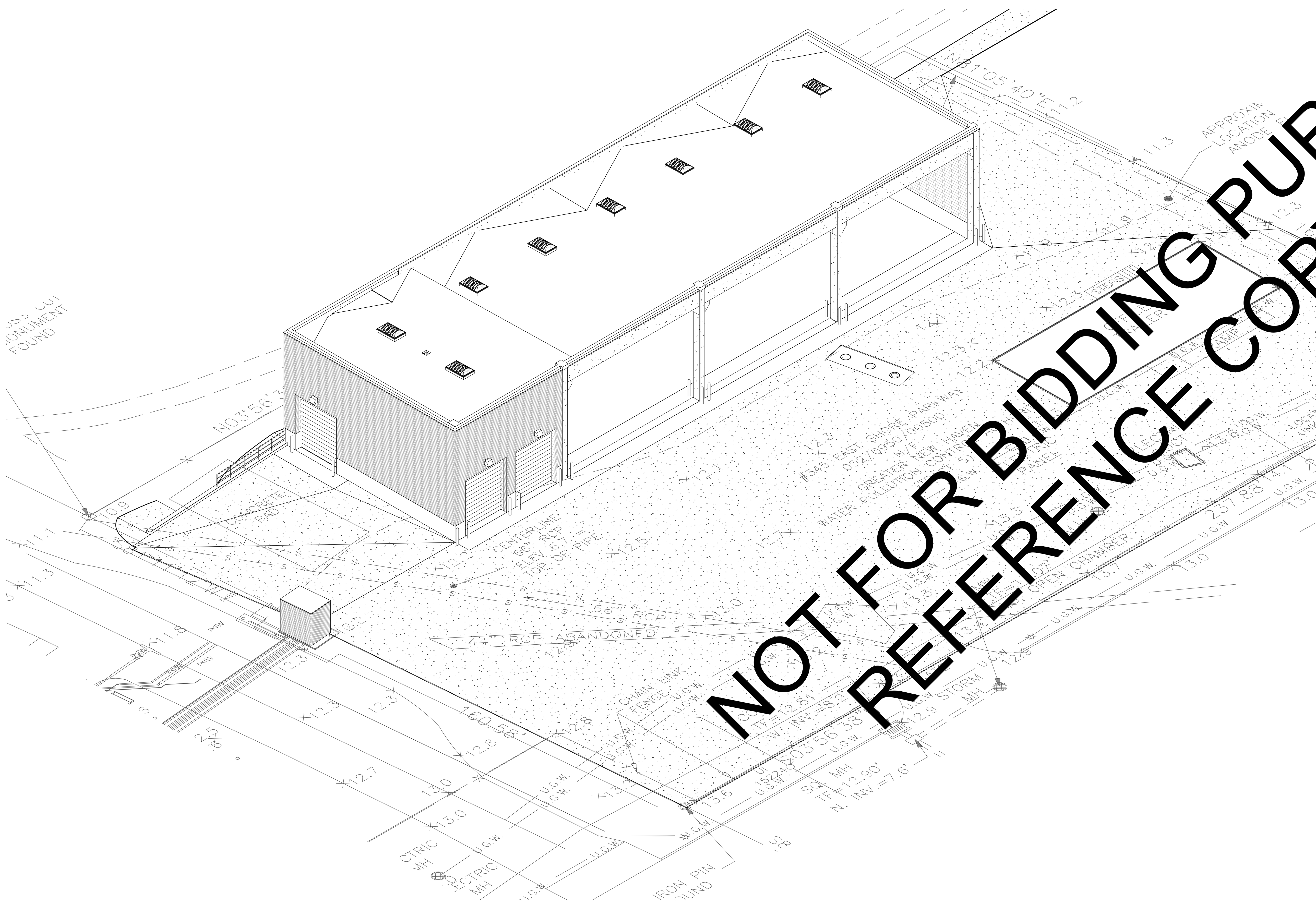
EAST SHORE WATER POLLUTION ABATEMENT FACILITY (ESWPAF) COLLECTIONS MAINTENANCE FACILITY

345 East Shore Parkway, New Haven, Connecticut

GNHWPCA PROJECT NO: SSF 2018-01

CWA PROJECT NO: 1801



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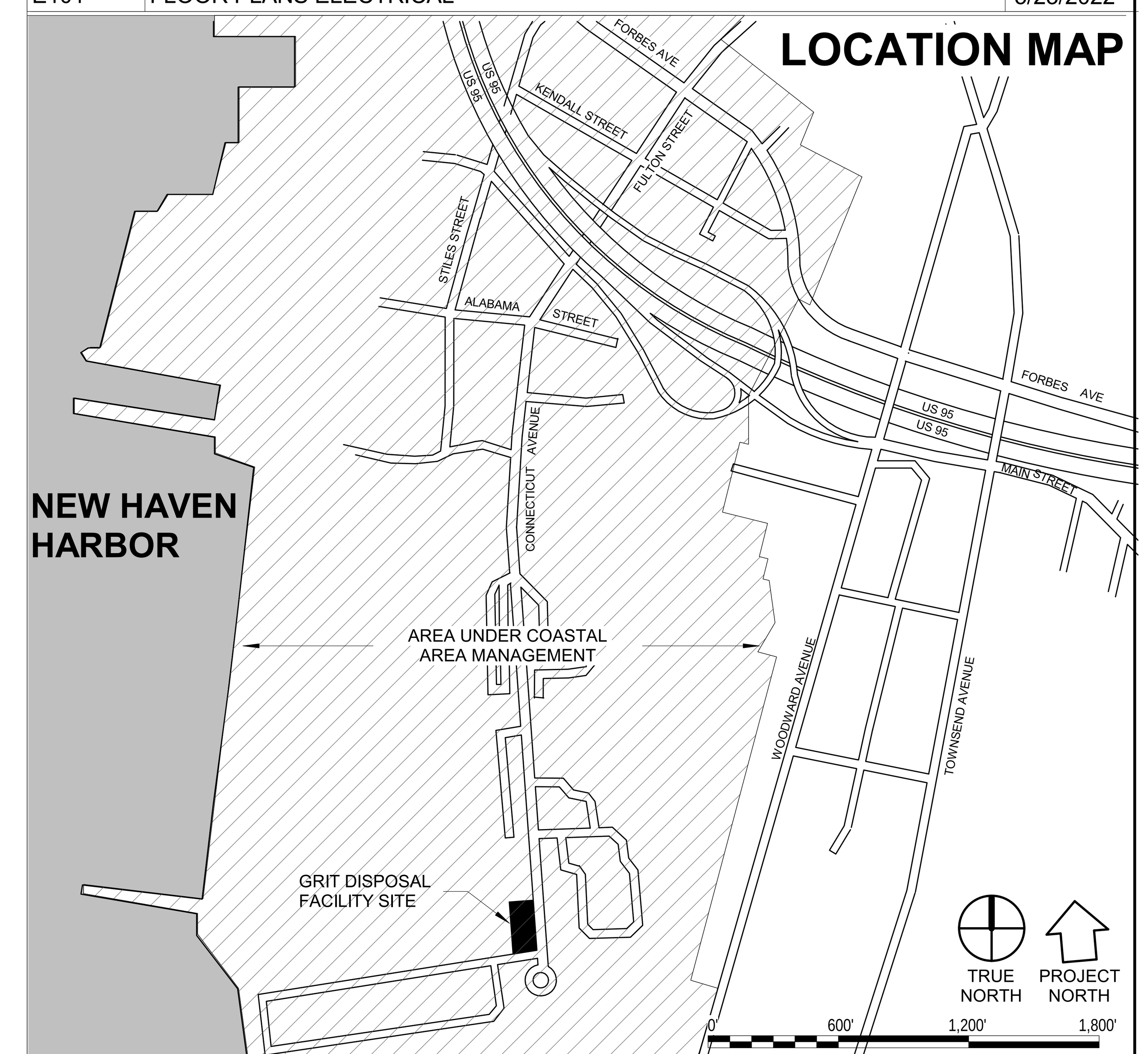
BOARD OF DIRECTORS

Joyce Alton	New Haven
Russell Cyr	Hamden
Salvatore Decola	New Haven
Robert Falcigno	East Haven
Michael Fimiani	New Haven
Jeffrey D. Ginzberg	Woodbridge
Stephen A. Mongillo, Chairman	Hamden
Raymond Pompano	East Haven
Clayton Williams, Vice-Chairman	New Haven

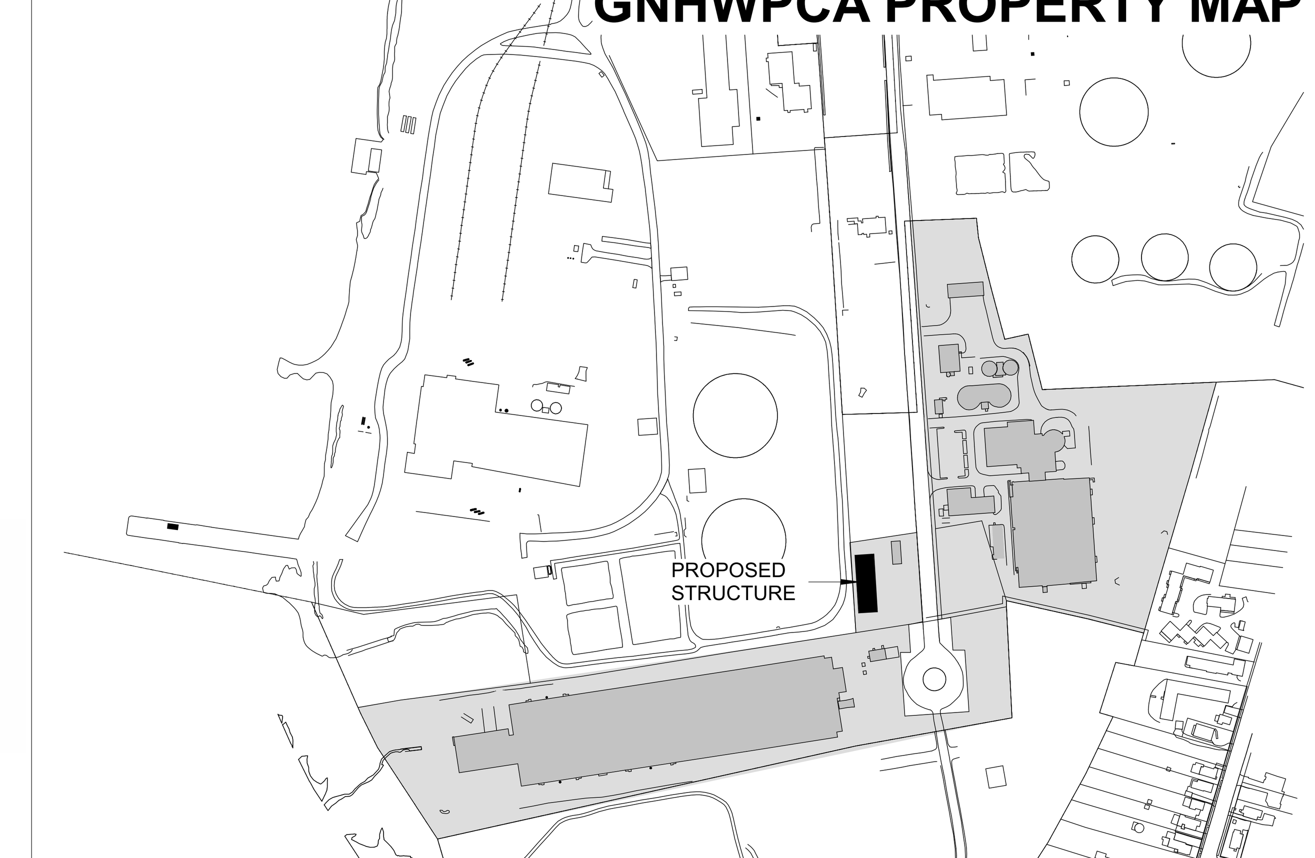
LOCATION MAP



MANAGEMENT AND STAFF

Sidney J. Holbrook	Executive Director
Gabriel Varca	Director of Finance & Administration (Treasurer)
Thomas Sgroi, P.E.	Director of Engineering
Gary Zrelak	Director of Operations
Charlie Biggs	Maintenance Administrator

GNHWPCA PROPERTY MAP



OWNER

GNHWPCA Protecting the Environment

Greater New Haven
Water Pollution Control Authority
260 East Street New Haven, CT 06511
203.466.5280 p 203.772.1564 f www.gnhwpca.com

ARCHITECT

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151 Meadow Street Branford, CT 06405
203.481.8600 www.mha-eng.com

MEP ENGINEER

ENGINEERING DESIGN GROUP, INC.
CONSULTING ENGINEERS
114 So. Main Street Cheshire, Ct. 06410
(203) 272-1860 FAX: 203-271-1536
ROGER K. DUSENBERY JOSEPH S. ZIELSKI

FOR CONSTRUCTION
5/23/2022

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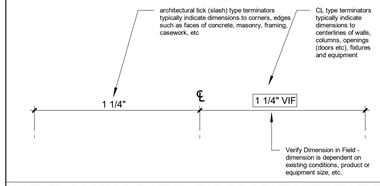
STANDARD ARCHITECTURAL ABBREVIATIONS

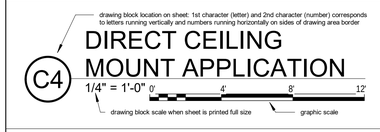
A	Amphere
A/C	Air Conditioning
AAP	Alarm Annunciator Panel
AB	Anchor Bolt
ABAN	Abandon
ABRSV	Abrasive
AC	Asphaltic Concrete,
ACC	Alternating Current
Ⓓ	Accessible
ACP	Asphaltic Concrete Paving
ACS DR	Access Door
ACS PNL	Access Panel
ACSR	Aluminum Cable Steel
ACST	Reinforced Acoustic
ACT	Acoustical Ceiling Tile
ACP	Acoustical Ceiling Panel
AD	Area Drain
ADA	Americans with Disabilities Act
ADC	Automatic Door Closer
ADDL	Additional
ADJ	Adjustable, Adjacent, Adjoining
AFF	Above Finish Floor
AFG	Above Finished Grade
AFS	Above Finished Slab
AHR	Anchor
AHU	Air Handling Unit
ALT	Alternate
ALUM	Aluminum
ANOD	Anodize
ANT	Antenna
APC	Acoustic Panel Ceiling
APPROX	Approximate
APT	Apartment
ARCH	Architectural
ARF	Architectural Finish
ASPH	Asphalt(ic)
ATC	Acoustical Tile Ceiling
ATCH	Attachment
AUTO	Automatic
AUX	Auxiliary
AV	Audio/Visual
AVG	Average
ⓌⓌ	Architectural Woodwork
AWN	Awning
AWT	Acoustical Wall Treatment
B/	Bottom of
BA	Bright Annealed
BAF	Baffle
BALC	Balcony
BAT	Batten, Battery
BB	Baseboard, Bulletin Board
BBR	Baseboard Radiator
BC	Between Centers, Bookcase
BCL	Boom Closet
BD	Board
BDRY	Boundary
BEV	Bevel
BF	Both Faces, Bottom Face
BFF	Below Finish Floor
BITUM	Bituminous
BKBD	Backboard
BL	Baseline, Building Line
BLDG	Building
BLKHD	Bulkhead
BLR	Boiler
BLST	Ballast
BLT	Borrowed Light
BLW	Below
BM	Beam, Benchmark
BOS	Bottom of Steel
BOT	Bottom
BR	Bedroom
BRDG	Bridging
BRG	Bearing
BRLP	Burlap
BⓏZ	Bronze
BS	Both Sides
BSMT	Basement
BT	Bathtub
BTWN	Between
BU	Built-Up
BUR	Built-Up Roofing
BW	Both Ways
C	Channel
C TO C	Center to Center
C&P	Carpet and Pad
CAB	Cabinet
CAN	Canopy
CANTIL	Cantilever
CATW	Catwalk
CAV	Cavity
CB	Catch Basin
CBB	Cementitious (Backer) Board
CCTV	Closed Circuit Television
CCW	Counterclockwise
CER	Ceramic
CF	Cubic Foot
CFLG	Counterflashing
CG	Corner Guard
CHBD	Chalk Board
CHFR	Chamfer
CHMBR	Chamber
CI	Cast Iron, Cubic Inch
CIR	Circle
CIRC	Circular
CISP	Cast Iron Soil Pipe
C.J.	Control Joint
CKBD	Chalkboard
CL	Centerline
CLG	Ceiling
CLL	Contract Limit Line
CLO	Closet
CLR	Clear. Clearance
CLRM	Classroom
CLT	Cleat
CM	Centimeter(s)
CMU	Concrete Masonry Unit
CNCL	Concealed
CND	Conduit
CNR	Corner
CNTR	Counter
CNVR	Conveyor
CO	Cased Opening, Cleanout, Cut Out
COL	Column
CONC	Concrete
CONF	Conference
CONSTR	Construction
CONT	Continuous, Continue
CONTR	Contract, Contractor
COORD	Coordinate
COP	Coping
CORN	Cornice
CORR	Corridor, Correct
COV	Cover
COVPL	Cover Plate
CPRS	Compressible
CPT	Carpet
CPVC	Chlorinated Polyvinyl Chloride
CRCMF	Circumference
CRN	Crown
CRS	Cold Rolled Steel
CS	Cast Stone
CSB	Concrete Splashback
CSG	Casing
CSK	Countersunk
CSMT	Casement
CT	Ceramic Tile, Connecticut
CTSTN	Cut Stone
CTD	Coated
CTR	Center, Contour
CU	Copper, Cubic
CUB	Cubicle
CUH	Cabinet Unit Heater
CURT	Curtain
CW	Clockwise, Cold Water
CY	Cubic Yard
D	Deep
DAP	Duct Access Panel
DAT	Datum
DBL	Double
DC	Direct Current
DEG	Degree
DEMO	Demolish, Demolition
DEPT	Department
DES	Designation
DET	Detail
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIAG.	Diagonal
DIAM	Diameter
DIFF	Diffuser
DIM	Dimension
DIR	Direction
DISC	Disconnect
DISP	Dispenser
DIV	Divide
DJ	Double Joist
DMPF	Dampproofing
DMPR	Damper
DN	Down
DOM	Domestic
DR	Drain
DRCL	Door Closer
DRFR	Door Frame
DRLV	Door Louver
DSBL	Disable
DSPL	Disposal
DT	Drain Tile
DTCH	Detach
DUPL	Duplicate
DW	Dishwasher
DWG	Drawing
DWH	Domestic Water Heater
DWL	Dowel(s)
DWR	Drawer
DWTR	Dumbwaiter
E	East, Modulus of Elasticity
EA	Each
ECC	Eccentric
EE	Each End
EF	Each Face, Exterior Finish
EFS	Exterior Finish System
EGB	Exterior Gypsum Board
EGSB	Exterior Gypsum Sheathing Board
EH	Electric Heater
EHD	Electric Hand Dryer
EIFS	Exterior Insulation and Finish System
EJ	Expansion Joint
EL	Elevation, Easement Line
ELAST	Elastomeric
ELEC	Electric, Electrical
ELEV	Elevator
EMER	Emergency
ENCL	Enclosure
ENTR	Entrance
EOS	Edge of Slab
EP	Electrical Panel, Panelboard
EPDM	Ethylene Propylene Diene Monomer
EQ	Equal
EQUIP	Equipment
ESC	Escape, Escutcheon
ESCAL	Escalator
ESMT	Easement
ETC	And So Forth
EW	Each Way
EWC	Electric Water Cooler
EWS	Eye Wash Station
EXC	Excavate
EXIST	Existing
EXP	Expansion
EXT	Exterior
F	Female
F/	Face of
FA	Fire Alarm
FAAP	Fire Alarm Annunciator Panel
FAB	Fabric
FC	Fire Code, File Cabinet
FCBRK	Face Brick
FCO	Floor Cleanout
FD	Floor Drain
FDC	Fire Department Connection
FDTN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Cabinet
FGL	Finish Floor (or) Face Fiberglass
FHC	Fire Hose Cabinet
FIG	Figure
FIN	Finish, Finished
FIXT	Fixture
FL	Floorline
FLASH	Flashing
FLDG	Folding
FLEX	Flexible
FLMT	Flush Mount
FLR	Floor
FLUOR	Fluorescent
FN	Fence
FO	Finished Opening
FOC	Face of Concrete
FOF	Face of Finish
FOM	Face of Masonry
FOS	Face of Stud
FOTK	Fuel Oil Tank
FOW	Face of Wall
FP	Fireproof, Flagpole
FPL	Fire Rating, Fire Resistant, Frame
FRA	Fire Rated Assembly
FRMG	Framing
FRTW	Fire Rated Treated Wood
FRZ	Freezer
FT	Feet, Foot
FTG	Footing
FTR	Fin Tube Radiation
FURN	Furniture
FUT	Future
G	Gage, Gauge
GALV	Galvanic, Galvanized
GB	Grab Bar, Gas Bibb
GDISP	Garbage Disposal
GDR	Guard Rail
GEN	Generator. General
GI	Galvanized Iron
GL	Glass
GLZ	Glazing, Glazed
GMU	Glass Masonry Unit
GRAN	Granite
GRDN	Garden
GROM	Grommet
GRTG	Grating
GRV	Groove
GSB	Gypsum Sheathing Board
GYP	Gypsum
GYP BD	Gypsum Board
GYP PLAS	Gypsum Plaster
H	High
HAZ	Hazard
HB	Hose Bibb
HC	Handicap, Hollow Core,
HCWD	Heavy Duty Hollow Core Wood
HDR	Header
HGR	Hanger
HDWD	Hardwood
HDWR	Hardware
HM	Hollow Metal
HMD	Hollow Metal Door
HNDRL	Handrail
HORIZ	Horizontal
HP	Heat Pump, Horse Power
HPDL	High Pressure Decorative
HS	Hand Sink, High Strength
HST	Hoist
HT	Height
HVAC	Heating, Ventilation, Air Conditioning
HVY	Heavy
HYD	Hydrant
I	Moment of Inertia
ID	Inside Diameter, Inside Dimension
IF	Inside Face
INCAN	Incandescent
INCL	Included
IND	Independent
INSUL	Insulate, Insulation
INT	Interior
IR	Inside Radius
IS	Insect Screen, Island
JAN	Janitor
JC	Janitor's Closet
J.F.	Joint Filler
JST	Joist
JT	Joint
KB	Knee Brace
KD	Kiln Dried, Knock Down
KIT	Kitchen
KO	Knock Out
KPL	Kickplate
KWY	Keyway
L	Angle
L&P	Lath and Plaster
LAB	Laboratory
LAM	Laminated
LAQ	Lacquer
LAT	Lateral
LAU	Laundry
LAV	Lavatory
LBS	Pounds
LBL	Label
LC	Laundry Chute
LCL	Linen Closet
LR	Living Room
LT	Light
LTG	Lighting
LV	Low Voltage
LVR	Louver
M	Meter
MACH	Machine
MAINT	Maintenance
MAX	Maximum
MB	Mail Box
MBR	Master Bedroom
MC	Moment Connection
MDO	Medium Density Overlay
MED	Medium, Medical
MEMB	Membrane
MEZZ	Mezzanine
MF	Mill Finish
MFR	Manufacturer
MH	Manhole
MIC	Microwave
MID	Middle
MIN	Minimum
MIRR	Mirror
MISC	Miscellaneous
MIT	Miter
MBH	Metal Bath, Monolithic
ML&P	Metal Lath and Plaster
MLDG	Molding
MLWK	Millwork
MM	Millimeter
MO	Masonry Opening
MOD	Modify, Module, Modular
MON	Monument (prop. line marker)
MR	Moisture Resistant
MS	Mop Sink
MTD	Mounted
MTG	Mounting
MTL	Metal
MULL	Mullion
MULT	Multiple
MW	Microwave
MWP	Waterproofing
N	North, New
NA	Not Applicable
NAT	Natural
NCA	Nickel Copper Alloy
NIC	Not in Contract
NICOP	Nickel Copper
NKL	Nickel
NL	Night Light
NLB	Non-Loadbearing
NO	Number
NOM	Nominal
NPL	Nameplate, Nickel Plated
NS	No Scale
O.A.	Overall
O.C.	On Center
OD	Outside Diameter,
OF	Outside Dimension
OF/CI	Outside Face Owner Furnished/ Contractor Installed
OFF	Office
OH	Overhang
OPH	Opposite Hand
OPNG	Opening
OPP	Opposite
OPQ	Opaque
OR	Outside Radius
ORD	Overflow Roof Drain
ORG	Organic
ORIG	Original
ORN	Ornamental
OZ	Ounce
P	Pole
PA	Public Address
PAF	Power Actuated Fastener
PAR	Parallel
PARG	Parging
PB	Panel Board
PC	Precast, Portland Cement
PCC	Precast Concrete
PCCP	Precast Concrete Pavement
PCF	Pounds per Cubic Foot
PCP	Portland Cement Plaster
PE	Photoelectric
PED	Pedestal
PEJ	Expansion Joint
PERF	Perforated
PERIM	Perimeter
PH	Penthouse, Phase, Acid/alkaline Scale
PIV	Pivot, Pivoted
PKG	Package
PL	Property Line
PLAS	Plaster, Plastic
PLAT	Platform
PLBG	Plumbing
PLF	Pounds per Linear Foot
PLG	Piling
PLL	Project Limit Line
PLYWD	Plywood
PMET	Painted Metal
PN	Part Number
PNEU	Pneumatic
PLN	Panel
POL	Polished
PORT	Portable
PR	Pair, Pipe Rail
PRCST	Precast
PREFAB	Prefabricate
PREFIN	Prefinished
PREFMD	Preformed
PRI	Primary
PRIN	Principal
PRKG	Parking
PRMLD	Premolded
PROP	Property
PSI	Pounds per square Inch
PSF	Pounds per square Foot
PT	Post Tensioned, Pressure Treated
PTD	Painted, Paper Towel Dispenser
PTN	Partition
PTR	Paper Towel
PVC	Receptacle
PVG	Polyvinyl Chloride
PW	Paving
PWR	Pass Window
Power	
QT	Quarry Tile
QTB	Quarry Tile Base
QTR	Quarter
QTY	Quantity
R	Radius, Riser
RAB	Rabbeted
RAD	Radiator
RADN	Radiation
RB	Resilient Base
RBM	Reinforced Brick Masonry
RBR	Rubber
RCP	Reflected Ceiling Plan
RCPTN	Reception
RD	Road, Roof Drain
REC	Recessed
REF	Reference
REFR	Refractory, Refrigeration
REG	Register
REINF	Reinforce
REM	Removable
REPL	Replace
REPRO	Reproduce
REQD	Required
RESIL	Resilient
REST	Restroom
RET	Return
REV	Revision, Revised
RFG	Roofing
RFL	Reflected
RH	Right Hand, Roof Hatch
RHR	Right Hand Reverse
RL	Roof Leader
RLG	Railing
RM	Room
RND	Round
RO	Rough Opening
ROW	Right of Way
RSD	Rolling Steel Door
RV	Roof Ventilator
RVL	Reveal
RWL	Rainwater Leader
S	South
SALV	Salvage
SAN	Sanitary
SB	Splash Block
SBSTR	Substrate
SC	Solid Core
SCHED	Schedule
SCP	Scupper
SCRN	Screen
SCT	Structural Clay Tile
SCWD	Solid Core Wood
SD	Smoke Detector, Soap Dispenser, Storm Drain
SDBL	Sandblast
SDG	Siding
SDL	Saddle
SECT	Section
SEP TNK	Septic Tank
SF	Square Foot
SGL	Single
SH	Shingles, Single Hung
SHFT	Shaft
SHR	Shower
SHRD	Shower Drain
SHT	Sheet
SHTHG	Sheathing
SHTR	Shutter
SHV	Shelf, Shelving
SIM	Similar
SKLT	Skylight
SLDG	Sliding
SLNT	Sealant
SLV	Sleeve
SLVT	Solvent
SM	Sheet Metal, Small, Smooth
SMLS	Seamless
SMP	Sump Pump
SND	Sanitary Napkin Dispenser
SNDU	Sanitary Napkin Disposal Unit
SNSR	Sensor
SP	Sump Pit
SP EL	Spot Elevation
SPCL	Special
SPH	Space Heater
SPKR	Speaker
SPL	Spline
SQ	Square
SS	Service Sink
SST	Stainless Steel
ST	Stairs, Street
STAG	Staggered
STD	Standard
STIF	Stiffener
STIR	Stirrup
STN	Strainer
STOR	Storage
STR	Straight, Strike, Stringer
STRM	Storeroom
STRUCT	Structural
SUB FL	Sub Floor
SURF	Surface
SURV	Survey
SUSP	Suspend, Suspended
SVCE	Service
SWR	Sewer
SYM	Symbol
SYMM	Symmetrical
SYNTH	Synthetic
SYS	System
T	Tread
T/	Top of
T&B	Top and Bottom
T&G	Tongue and Groove
T/S	Tub and Shower
TAN	Tangent
TC	Terra Cotta
TD	Towel Dispenser, Trench Drain
TDR	Towel Dispenser/ Receptacle
TE	Top Elevation
TEJ	Transverse Expansion Joint
TEL	Telephone
TEMP	Temporary, Temperature
TER	Terrazzo
TFF	Top of Finish Floor
THD	Thread
THK	Thickness
THRESH	Threshhold
THRU	Through
THROUT	Throughout
TKBD	Tack Board
TMPD	Tempered
TN	True North
TNL	Tunnel
TO	Top of,
TOB	Top of Beam
TOC	Top of Concrete (or) Curb
TOFF	Top of Finish Floor
TOF	Top of Frame
TOJ	Top of Joist
TOM	Top of Masonry
TOP	Top of Pavement, Top of Parapet
TOS	Top of Slab (or) Steel
TOW	Top of Wall
TPD	Toilet Paper Dispenser
TPH	Toilet Paper Holder
TR	Towel Rack
TRANS	Transom, Transparent
TRMBKL	Turnbuckle
TRTD	Treated
TV	Television
TYP	Typical
UC	Undercut
UCD	Undercut Door
UGND	Underground
UH	Unit Heater
UNEX	Unexcavated
UNFIN	Unfinished
UNIF	Uniform
UNO	Unless Noted Otherwise
UP	Utility Pole
UR	Urinal
UTIL	Utility
UV	Ultraviolet
V	Volt
VAN	Vanity
VAR	Varies
VCO	Vacuum Cleaner Outlet
VCT	Vinyl Composition Tile
VEH	Vehicle
VERT	Vertical
VES	Vestibule
VID	Video
VIF	Verify in Field
VJ	V Joint
VNR	Veneer
VOL	Volume
VP	Veneer Plaster,
VAR	Vapor Retarder
VRFY	Verify
VRNDA	Veranda
VYL	Vinyl
W	West, Wall, Waste,
W/	Wide With
W/O	Without
W/W	Wall to Wall
WB	Wood Base
WBL	Wood Blocking
WBS	Wrought Brass
WC	Wall Covering, Water Closet
WCLR	Water Cooler
WD	Wood, Wood Door
WDF	Wood Door and Frame
WDP	Wood Paneling
WF	Wide Flange
WFAB	Wall Fabric
WFR	Wood Frame
WFS	Wood Furring Strips
WGL	Wire Glass
WH	Wall Hung, Weep Hole
WI	Wrought Iron
WO	Where Occurs
WP	Waterproof, Weatherproof
WS	Weatherstrip
WSCT	Wainscot
WT	Watertight, Weight
WTR	Water
WWF	Welded Wire Fabric

GRAPHIC SYMBOLS ANNOTATION

DIMENSION TYPES



DRAWING BLOCK IDENTIFIER



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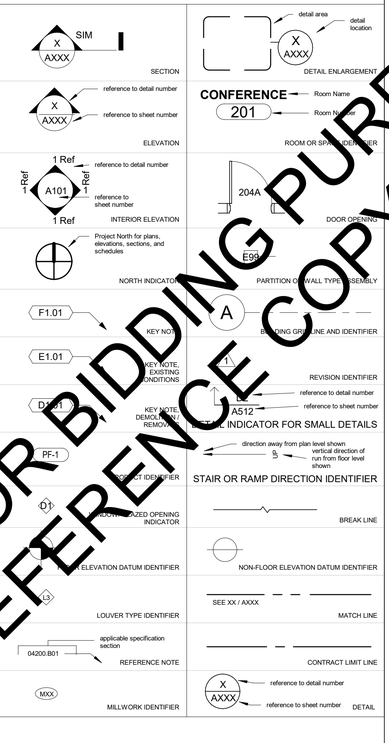

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GENERAL NOTES

1. THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS OF THE STATE OF CONNECTICUT BUILDING CODE AND FIRE SAFETY CODE, AS WELL AS ALL APPLICABLE FEDERAL AND STATE REGULATIONS AND REQUIREMENTS
2. DRAWINGS DATED MAY 31, 2019 ARE FOR SRUCTURAL/ ARCHITECTURAL WORK ONLY. DRAWINGS FOR PLUMBING, MECHANICAL AND ELECTRICAL WORK SHALL BE SUBMITTED SEPERATLY TO THE NEW HAVEN FIRE MARSHAL AND BUILDING DEPARTMENT FOR REVIEW AND PERMIT PRIOR TO EXECUTING PLUMBING, MECHANICAL AND ELECTRICAL WORK
3. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
4. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. REFER TO GENERAL NOTES REGARDING THE REQUEST FOR INFORMATION (RFI) PROCESS.
5. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. REFER TO GENERAL NOTES PAGE REGARDING SUBSTITUTIONS & REVISIONS.
6. COORDINATE WORK WITH THE OWNER INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, ACCESS TO OTHER BUILDINGS AND FACILITIES, SHUTDOWNS AND ALTERATIONS OF UTILITIES AND GNHWPCA SYSTEMS AND USE OF OWNER'S FACILITIES. MINIMIZE DISTURBANCE OF GNHWPCA'S FUNCTIONS AND OCCUPANTS.
7. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH GNHWPCA TO ENSURE SECURITY.
8. THE CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO WITHIN WORK ZONES AND LAYDOWN SPACES. WITHIN THE WORK ZONES, KEEP GROUND AND STOCKPILE AREAS CLEAN.
9. MAINTAIN TRAFFIC AND PEDESTRIAN WAYS CLEAR OF CONSTRUCTION AT ALL TIMES. COORDINATE WORK AREAS AND BARRIERS WITH OWNER.
10. WITHIN THE LIMITS OF THE SITE THERE ARE EXISTING UTILITIES BELOW GROUND. THE CONTRACTOR SHALL COORDINATE WITH "CALL BEFORE YOU DIG" AND MAKE HIS OWN SURVEY TO VERIFY THE LOCATIONS OF ALL UTILITIES POTENTIALLY EFFECTED BY THE WORK AND NO BREAKING GROUND. ALL UTILITIES ARE TO BE MAINTAINED AND PROTECTED DURING THE EXECUTION OF THE WORK.
11. THE CONTRACTOR SHALL ADEQUATELY BRACE AND PROTECT ALL WORK DURING CONSTRUCTION TO PREVENT DAMAGE, COLLAPSE OR DISTORTION OF EXISTING AND NEW WORK.
12. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES AT JOB SITE. ALL CONTRACTORS SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND REPORT DISCREPANCIES, PRIOR TO THEIR C ONSTRUCTION, TO THE ARCHITECT FOR REVIEW AND CLARIFICATION OR ACTION.
13. VERIFY SIZE, LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT TO BE FURNISHED WITH MANUFACTURERS OR SUPPLIERS BEFORE BEGINNING CONSTRUCTION.
14. VERIFY SIZE AND LOCATION OF ALL OPENINGS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AND RELATED WORK WITH CONTRACTORS INVOLVED AND EQUIPMENT TO BE FURNISHED. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15. THE ARCHITECT'S RESPONSIBILITY IN GENERAL ADMINISTRATION OF CONSTRUCTION IS FOR THE PURPOSE OF DETERMINING THAT THE WORK WHEN COMPLETED WILL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ENDEAVOR TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK. THE ARCHITECT WILL NOT HAVE CONTROL OVER OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY
16. OVERLAPPING/CONFLICTING REQUIREMENTS. MOST STRINGENT (GENERALLY MOST COSTLY) APPLY AND WILL BE ENFORCED. REFER TO ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING
17. REQUIRED SOIL BEARING CAPACITY IS SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE RIGID INCLUSION GROUND IMPROVEMENT TO ASSURE MINIMUMREQUIRED SOIL BEARING CAPACITY
18. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED, ALL FASTENERS, EXPOSED OR CONCEILED SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE
19. PROVIDE PRESSURE-PRESERVATIVE TREATED WOOD BLOCKING WHERE WOOD BLOCKING IS INDICATED OR REQUIRED
20. ALL SHEET METAL COPINGS, FLASHINGS, CONDUCTORS AND CONDUCTOR HEADS ETC. SHALL CONFORM TO DETAILS SHOWN AND THE LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS'S NATIONAL ASSOCIATION INC. ARCHITECTURAL SHEET METAL MANUAL
21. ROOFING SHALL BE INSTALLED IN CONFORMANCE WITH MEMBRANE MANUFACTURER'S REQUIREMENTS, DETAILS SHOWN SHALL BE REVIEWED BY MANUFACTURER AND ANY DETAIL CONFLICTS BETWEEN DETAILS SHOWN AND MANUFACTURER'S REQUIREMENTS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF THE INSTALLATION OF THE ROOF.
22. CONTRACTOR SHAL PROVIDE COATINGS SPECIFIED FOR METALS AND OTHER SURFACES SCHEDULED TO BE PAINTED
23. DETAILS NOTED AS TYPICAL APPLY TO ALL SIMILAR LOCATIONS UNLESS OTHERWISE NOTED CONTRACTOR'S PRICE SHALL INCLUDE A COMPLETE CONSTRUCTION CLEANUP
24. OVERHEAD CLEARANCE HEIGHTS MAY NOT BE MODIFIED DUE TO ANY CONDITIONS NEW OR EXISTING. MODIFY EXISTING CONDITIONS AS REQUIRED TO MAINTAIN SCHEDULED HEIGHTS

PROJECT DESCRIPTION

1. CONSTRUCTION OF A NEW STRUCTURE FOR THE GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY.
   - A. THE STRUCTURE WILL BE PRECAST CONCRETE AND UNIT MASONRY ON A CAST- IN-PLACE CONCRETE FOUNDATION.
   - B. UNDERGROUND UTILITY CONNECTIONS TO ADJACENT EXISTING BUILDINGS, UNDERGROUND WATER AND SANITARY SEWER LINES.
   - C. THE STRUCTURE WILL REQUIRE RIGID INCLUSION GROUND IMPROVEMENT TO PROVIDE ADEQUATE GROUND BEARING CAPACITY FOR STRUCTURE
2. THE BUILDING SITE IS AT THE EAST SHORE WATER POLLUTION ABATEMENT FACILITY OF THE GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY WHICH WILL BE IN FULL OPERATION DURING THE ENTIRE PERIOD OF CONSTRUCTION. THE CONTRACTOR WILL COOPERATE WITH THE OWNER TO MINIMIZE ANY INTERRUPTIONS OF ANY ACTIVITIES AT THE FACILITY.

GOVERNING REGULATIONS

CONNECTICUT STATE BUILDING CODE – OCTOBER 1, 2018

CT AMENDMENTS
- **A.** AMENDMENTS TO THE 2015 INTERNATIONAL BUILDING CODE
- B. AMENDMENTS TO ICC A117.1-2009
- C. AMENDMENTS TO THE 2015 INTERNATIONAL EXISTING BUILDING CODE
- D. AMENDMENTS TO THE 2015 INTERNATIONAL PLUMBING CODE
- E. AMENDMENTS TO THE 2015 INTERNATIONAL MECHANICAL CODE
- F. AMENDMENTS TO THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- G. AMENDMENTS TO THE 2017 NFPA 70, NATIONAL ELECTRICAL CODE
- **H.** AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE

INTERNATIONAL BUILDING CODE - 2015
INTERNATIONAL MECHANICAL CODE – 2015.
INTERNATIONAL PLUMBING CODE - 2015
INTERNATIONAL ENERGY CONSERVATION CODE - 2015
NATIONAL ELECTRIC CODE (NFPA 70) - 2017
ICC/ANSI A117.1-ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2009.

CONNECTICUT FIRE SAFETY CODE - 2018
CT AMENDMENTS - 2018
INTERNATIONAL FIRE SAFETY CODE - 2015
NFPA 101 - 2015

CONNECTICUT FIRE PREVENTION CODE - 2018
CT AMENDMENTS - 2018
NFPA 1 2015

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
OSHA 29 CFR PART 1910 OCCUPATIONAL SAFETY AND HEALTH REGULATIONS
OSHA 29 CFR PART 1926 OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION-

CITY OF NEW HAVEN ZONING ORDINANCE

BUILDING CODE SUMMARY

USE AND OCCUPANCY CLASSIFICATION:	S-2 LOW HAZARD STORAGE
BUILDING AREA:	7,195 SF
BUILDING HEIGHT:	1 STORY 29-FT
TYPE OF CONSTRUCTION:	MINIMUM REQUIRED: VB ACTUAL: TYPE IB

OWNER
GNHWPCA Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street New Haven, CT 06511
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ROGER K. DUSENBERY JOSEPH G. ZEILSKI

FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO:	SSF 2018-01
CWA PROJECT NO.:	1801
DRAWN BY:	Author
CHK'D BY:	Checker
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SHEET TITLE

GENERAL INFORMATION GRAPHIC SYMBOLS & CONVENTIONS

G001

SURVEY NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES – "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996 BEING AN IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY OF REFERENCE MAP "A" CONFORMING TO HORIZONTAL ACCURACY CLASS A-2; TOPOGRAPHY TO CLASS T-2.
2. NORTH ARROW AND BEARINGS ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83). ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. PROPERTY IS LOCATED WITHIN FEMA ZONES "X" AND AE (EL 12) AS DEPICTED ON FLOOD INSURANCE RATE MAP NUMBER 09009C0442J, REVISED JULY, 8, 2013.
4. PROPERTY IS TOGETHER WITH A SANITARY SEWER EASEMENT OVER LAND NOW OR FORMERLY OF THE ANNEX YOUNG MEN'S ASSOCIATION INCORPORATED AS RECORDED AUGUST 21, 2009 IN VOLUME 8429, PAGE 50 OF THE NEW HAVEN LAND RECORDS.
5. PROPERTY IS SUBJECT TO NEW HAVEN CITY PLAN COMMISSION SITE PLAN REVIEW AS RECORDED IN VOLUME 8957, PAGE 187 OF THE NEW HAVEN LAND RECORDS.
6. PROPERTY IS SUBJECT TO AN INGRESS/EGRESS & UTILITY EASEMENT IN FAVOR OF THE CITY OF NEW HAVEN AS RECORDED JUNE 21, 2013 IN VOLUME 9011, PAGE 68 OF THE NEW HAVEN LAND RECORDS AND AS DEPICTED ON REFERENCE MAP "M".
7. CONNECTICUT AVENUE IS ALSO KNOWN AS EAST SHORE PARKWAY. EAST SHORE PARKWAY WAS DISCONTINUED AND CONNECTICUT AVENUE WAS ACCEPTED AS A PUBLIC WAY AS RECORDED MARCH 17, 2008 IN VOLUME 8165, PAGE 51 OF THE NEW HAVEN LAND RECORDS.
8. (TRACT #) = DESIGNATED TRACT NUMBER OF PARCELS AS DEPICTED ON REFERENCE MAP "J".
9. PARCEL IS IN THE COASTAL ZONE AND THE ZONING CLASSIFICATION IS "PARK".
10. UTILITY INFORMATION DEPICTED HEREON HAS BEEN COMPILED FROM OTHER MAPPING AND ON-SITE FIELD LOCATIONS. SUBTERRANEAN IMPROVEMENTS DEPICTED HEREON ARE APPROXIMATE. CALL BEFORE YOU DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION ACTIVITIES.
11. PROPERTY AREA TRACT 5: 38,040 SQUARE FEET OR 0.873 ACRES

MAP REFERENCES:

REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:

A. "IMPROVEMENT LOCATION SURVEY PREPARED FOR GREATER NEW HAVEN WPCA, AS-BUILT EAST SHORE WPAF, #345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT"; SCALE: 1"=20'; DATED: SEPTEMBER 5, 2017 AND PREPARED BY CRISCUOLO ENGINEERING, LLC.

B. "GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY, PROPERTY/BOUNDARY & TOPOGRAPHIC MAP, EAST SHORE WATER POLLUTION ABATEMENT FACILITY, 345 EAST SHORE PARKWAY"; SCALE: 1"=20'; DATED: MARCH 30, 2012 AND PREPARED BY UNITED INTERNATIONAL CORPORATION.

C. "PLAN FOR THE UNITED ILLUMINATING COMPANY SHOWING PROPERTY INTERESTS ASSOCIATED WITH NEW HAVEN HARBOR STATION, NEW HAVEN, CONNECTICUT"; SCALE: 1" = 100'; DATED": JUNE 2, 1975 AND PREPARED BY GORDON BILIDES.

D. "PROPERTY MAP OF EAST SHORE PARK, WOODWARD AVENUE, NEW HAVEN, CONNECTICUT". SCALE: 1" = 100'; DATED; SEPTEMBER 8, 1977 AND PREPARED BY CAHN ENGINEERS, INC.

E. "MAP SHOWING WOODWARD MANOR'S CONDOMINIUMS, 504-512 WOODWARD AVENUE, NEW HAVEN, CONNECTICUT"; SCALE: 1" = 20'; DATED: SEPTEMBER 24, 1986 AND PREPARED BY S. A. HANCHURUCK, JR.

F. "PROPERTY TO BE CONVEYED TO ESCO (CONNECTICUT), NC., EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT"; SCALE: 1"=50'; DATED: APRIL 25, 1988; REVISED: MAY 13, 1988 AND PREPARED BY CLARENCE BLAIR ASSOCIATES, INC.

G. "PLAN PREPARED FOR CARGILL INCORPORATED, EAST SHORE PARKWAY, NEW HAVEN, CONN."; SCALE: 1" = 100'; DATED: SEPTEMBER 24, 1992; REVISED: JUNE 7, 1993 AND PREPARED BY MEEHAN ASSOCIATES.

MAP REFERENCES:

H. "ALTA/ACSM LAND TITLE SURVEY PREPARED FOR WISVEST-CONNECTICUT, LLC, WATERFRONT STREET, NEW HAVEN, CONNECTICUT"; SCALE: 1" = 100'; DATED; APRIL 15, 1999 AND PREPARED BY FUSS & O'NEILL, INC.

I. "PROPERTY SURVEY, EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT"; SCALE: 1" = 40'; DATED: JUNE 1999; REVISED TO: JUNE 18, 2007 AND PREPARED BY URS CORPORATION.

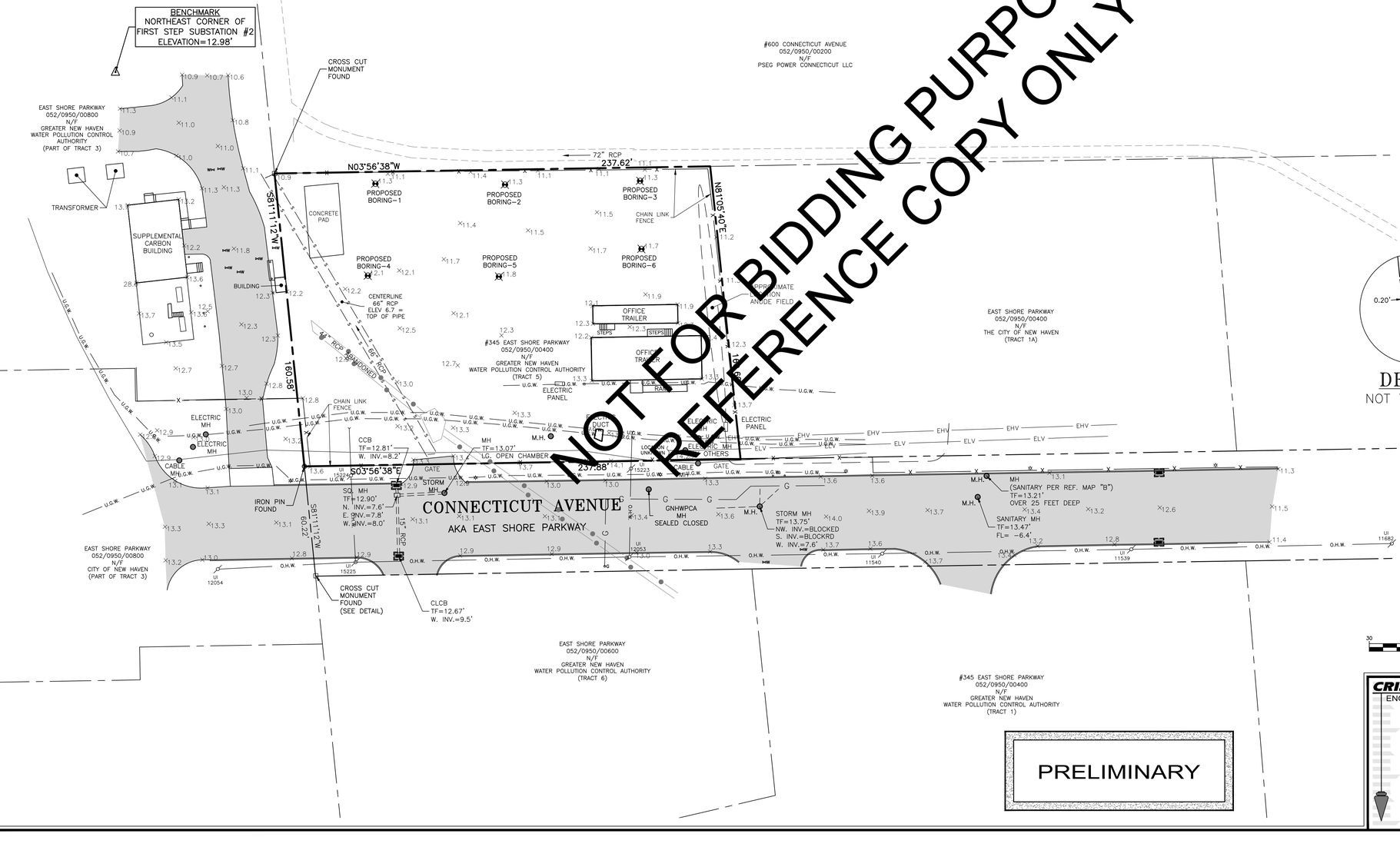
J. "PROPERTY SURVEY, LAND OF GNHWPCA AND THE CITY OF NEW HAVEN, CONNECTICUT"; SCALE: 1" = 80'; DATED: NOVEMBER 13, 2006 AND PREPARED BY CARDINAL ENGINEERING ASSOCIATES, INC.

K. "EASEMENT FOR: CONNECTICUT AVENUE, FORMER EAST SHORE PARKWAY, NEW HAVEN"; SCALE: 1" = 40'; DATED: DECEMBER 12, 2007; REVISED: DECEMBER 5, 2007 AND PREPARED BY THE UNITED ILLUMINATING COMPANY.

L. "PROPERTY & TOPOGRAPHIC MAP, PROPOSED ACQUISITION PROPERTY LOCATED AT REAR OF WOODWARD AVENUE, NEW HAVEN, CONNECTICUT PREPARED FOR GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY"; SCALE: 1" = 30'; DATED; JULY 29, 2010 AND PREPARED BY CRISCUOLO ENGINEERING LLC.

M. "PROPERTY & TOPOGRAPHIC MAP, PROPOSED ACQUISITION PROPERTY LOCATED AT REAR OF CONNECTICUT AVENUE, NEW HAVEN, CONNECTICUT PREPARED FOR GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY"; SCALE: 1" = 30'; DATED; AUGUST 11, 2010 AND PREPARED BY CRISCUOLO ENGINEERING LLC.

N. "PROPERTY & EASEMENT MAP, PROPOSED ACQUISITION PROPERTY LOCATED AT SOUTHERLY TERMINUS OF CONNECTICUT AVENUE, NEW HAVEN, CONNECTICUT PREPARED FOR GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY"; SCALE: 1" = 20'; DATED; DECEMBER 3, 2012 AND PREPARED BY CRISCUOLO ENGINEERING LLC.



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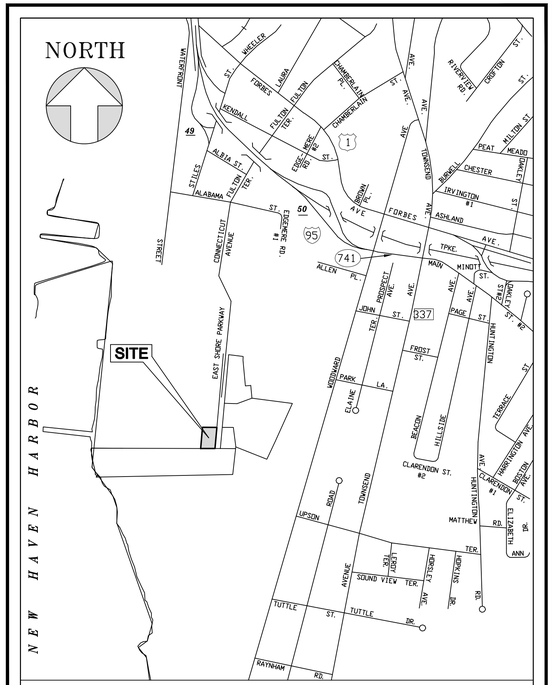
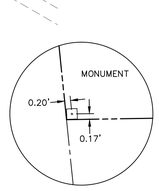
REFERENCE COPY ONLY



LOCATION MAP
SCALE: 1"=800'



DETAIL
NOT TO SCALE

SURVEY LEGEND

- Street Line
- Property Line
- Easement Line
- Curb
- // Wood/Vinyl Fence
- x Wire Fence
- Elevation Contour
- x XXX Spot Elevation
- Watercourse Line
- Catch Basin
- Manhole
- Utility Pole (With Guy)
- Water Valve/Meter Pit
- O.H.W. Over Head Wire
- W Water Main/Service
- S Sanitary Sewer
- G Gas Line
- Stormwater Pipe <12" Diameter
- Stormwater Pipe ≥12" Diameter
- Ironpin Or Pipe Found
- Monument Found
- Drill Hole Found
- Nail Or Spike Found
- XX/XX/XX Assessor's Map/Block/Lot Number
- Lamp Post

PRELIMINARY

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)

MARK D. BALLOU L.S. #70419
JAMES M. PRETTI, JR. L.S. #22897
THIS MAP NOT VALID WITHOUT LIVE SIGNATURE AND EMBOSSED SEAL OF THE LAND SURVEYOR NOTED ABOVE.

CRISCUOLO ENGINEERING LLC
CONSULTING ENGINEERS
LAND SURVEYORS
420 East Main Street
Building 1 - Suite 9
Branford, CT 06405
TEL: 203/481-6807
FAX: 203/488-5729

REV. DATE: DESCRIPTION:

JOB TITLE: **EXISTING CONDITIONS PROPERTY LOCATED AT #345 EAST SHORE PARKWAY NEW HAVEN, CONNECTICUT**

PREPARED FOR: **CHRISTOPHER WILLIAMS ARCHITECTS LLC**

DRAWING TITLE: **PROPERTY & TOPOGRAPHIC SURVEY**

ASSESSOR'S MAP 52, BLOCK 950, LOT 400

DATE: 11/15/2018
SCALE: 1"=30'
DRAWN: M.D.B.
CHECKED: J.M.P.
JOB: 2018.099

DRAWING NO.: 1 OF 1

CADD FILE: 2018-099P08

Z:\2018\2018-099\DWG\2018-099P08.dwg, 11/15/2018 11:17:43 AM

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REFERENCE COPY ONLY

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY EAST SHORE WATER POLLUTION ABATEMENT FACILITY

ADDRESS: 345 East Shore Parkway
New Haven, Connecticut

TRACT	MAP	BLOCK	LOT	AREA
Tract 1	052	0950	00400	340,929 SF
Tract 1A				
Tract 2				
Tract 2A				
Tract 5				38,040 SF
Tract 3 p/o	052	0950	00800	439,710 +/- SF
Tract 6	052	0950	00600	35,450 SF

Park to IH: 854,129 SF +/-

A5 GNHWPCA EAST SHORE WATER POLLUTION ABATEMENT FACILITY
1" = 100'-0"

0' 50' 100' 200' 300'

TRUE NORTH PROJECT NORTH

OWNER
GNHWPCA Protecting the Environment
Greater New Haven
Water Pollution Control Authority
260 East Street New Haven, CT 06511
203.466.5280 p 203.772.1564 f www.gnhwpca.com

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ROGER K. DUSENBERY JOSEPH G. ZEILSKI

FOR CONSTRUCTION

5/23/2022

ESWPCF COLLECTIONS MAINTENANCE FACILITY
GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO: SSF 2018-01
CWA PROJECT NO.: 1801
DRAWN BY: Author
CHK'D BY: Checker
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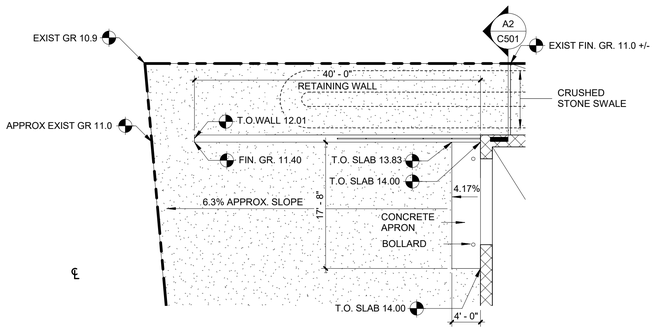
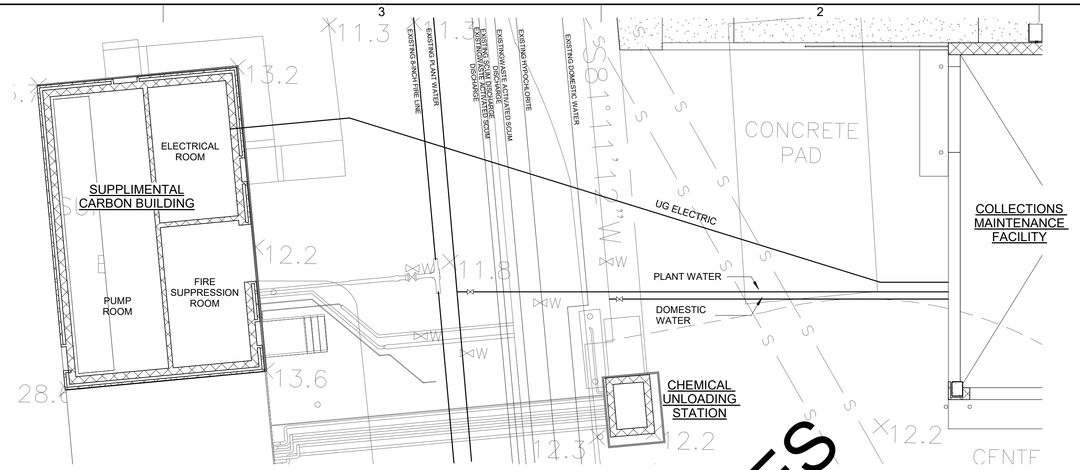
SHEET TITLE
ESWPAF PROPERTY PLAN

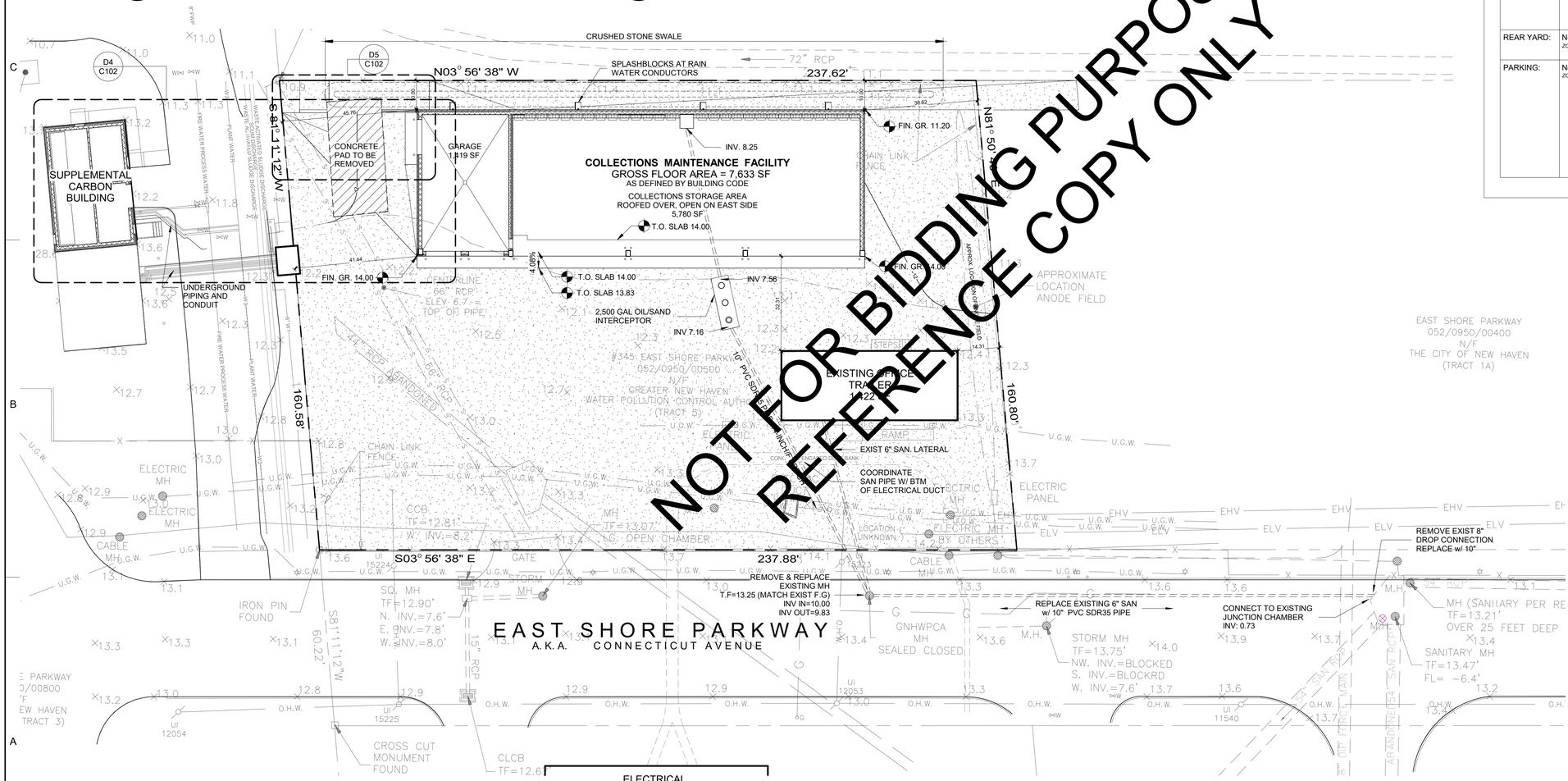
C101



D5 PARTIAL ENLARGED SITE PLAN
1" = 10'-0"



D4 SITE UTILITY PLAN
1" = 10'-0"



A5 SITE PLAN
1" = 20'-0"

0' 10' 20' 40' 60'

TRUE NORTH PROJECT NORTH

SURVEY INFORMATION FROM SURVEY PREPARED BY CRISCUOLO ENGINEERING LLC DATED 11/15/18

ADDITIONAL UNDERGROUND UTILITIES FROM WET WEATHER CAPACITY IMPROVEMENTS AND NITROGEN REDUCTION - PHASE 1 RECORD DOCUMENTS DATED MARCH 2017 AND UTILITY MAPPING PLAN OF FACILITY AT 345 EAST SHORE PARKWAY BY UNITED ENGINEERS AND SURVEYORS DATED SEPTEMBER 2009

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ZONING SUMMARY

LOT: 052 0950 00400
Greater New Haven water pollution Control authority Tract 5

PARCEL: GNHWPCA East Shore Water Pollution Abatement Facility
345 East Shore Parkway, New Haven, CT 06512

ZONE: PARK
City of New Haven Zoning Map

EXISTING USE: Waste processing and transfer

PROPOSED USE: Waste processing and transfer
(No Change)

LOT AREA: 38,037 Square Feet

GROSS BUILDING AREA: Proposed Building: 7,633 Square Feet
Existing Building to Remain: 1,422 Square Feet
Proposed Total Building Area: 9,055 Square Feet

	PERMITTED / REQUIRED	EXISTING	PROPOSED
FAR:	No Requirement *ZOCONH Section 51*	0.05 *(Existing Building to Remain)*	0.24 *(New and Existing Buildings)*
BUILDING HEIGHT:	No Requirement *ZOCONH Section 51*	11.0 Ft *(Existing Building to Remain)*	27.5 Ft *(New Principal Building)*
BUILDING COVERAGE:	No Requirement *ZOCONH Section 51*	0.05 *(Existing Building to Remain)*	0.24 *(New Principal Building)*
FRONT YARD:	No Requirement *ZOCONH Section 51*	44.5 Ft *(Existing Building to Remain)*	44.5 Ft *(Existing Building to Remain)* 100.1 Ft *(New Principal Building)*
SIDE YARD:	No Requirement *ZOCONH Section 51*	14.31 Ft & 160.83 Ft *(Existing Building to Remain)*	14.31 Ft & 160.83 Ft *(Existing Building to Remain)* 38.62 Ft & 41.44 Ft *(New Principal Building)*
REAR YARD:	No Requirement *ZOCONH Section 51*	92.2 Ft *(Existing Building to Remain)*	10 Ft *(New Principal Building)*
PARKING:	No Requirement *ZOCONH Section 51*	0 on site	0 on site Operations at the proposed structure are currently conducted elsewhere at the GNHWPCA East Shore Water Pollution Abatement Facility. There will be no net change of the number of employees at the facility, all employee parking is within 1,000 Ft. walking distance of the proposed structure

OWNER
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FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY
GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO: SSF 2018-01
CWA PROJECT NO.: 1801
DRAWN BY: Author
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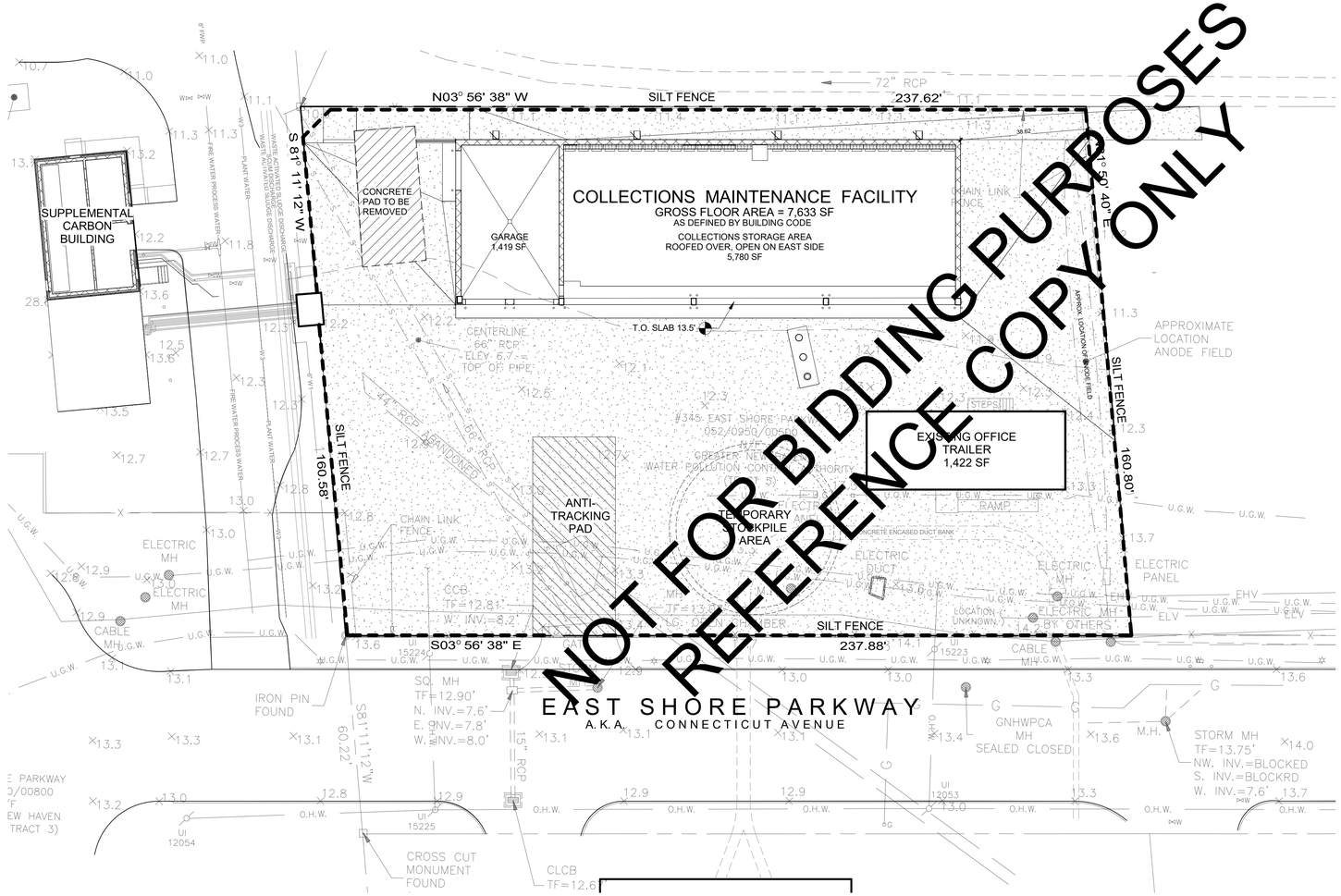
SHEET TITLE
SITE PLAN

C102



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REFERENCE COPY ONLY

A5 SOIL EROSION & SEDIMENT CONTROL PLAN
1" = 20'-0"

0' 10' 20' 40' 60'

TRUE NORTH PROJECT NORTH

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE CITY OF ANY TRANSFER OF THIS RESPONSIBILITY.
2. EXCEPT WHERE NOTED, ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND CITY OF NEW HAVEN REGULATIONS.
3. ALL CONTROL MEASURES SHALL BE INSTALLED AS PER PLAN AND DETAILS.
4. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE APPROVING AUTHORITY/S.
6. THE INDICATED 'LIMIT OF DISTURBANCE' REGION SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN IN PRE-CONSTRUCTION CONDITION.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER ½ THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED ON OR ADJACENT THE SITE SHALL BE PROTECTED BY 'SILT-SACK' (OR APPROVED EQUIVALENT) UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED. ANY-AND-ALL SEDIMENTS FALLING INTO EXISTING OR PROPOSED DRAINAGE COMPONENTS (INLETS, PIPING, OUTFALL, ETC.) SHALL BE IMMEDIATELY REMOVED
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN--OTHERWISE, EXPOSED OR NON-SECURED SLOPES WILL BE PROTECTED BY USING EITHER GEOTEXTILE BLANKETS, HAY & TACKIFIER, OR BY ANY OTHER APPROVED BEST MANAGEMENT PRACTICE.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO DRAINAGE FROM CITY ROADS ENTERS THE SITE DURING OR AFTER CONSTRUCTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL WINDBLOWN DUST AND WIND EROSION THROUGHOUT THE LIFE OF THE CONTRACT.
13. TEMPORARY STOCKPILING OF CONSTRUCTION MATERIALS SHALL ONLY BE ALLOWED IN THE LOCATIONS SHOWN ON THE PLAN(S). STOCKPILE AREAS SHALL BE FULLY ENCIRCLED WITH SILT FENCE AND BE COVERED WITH TARPAULIN AND HELD IN PLACE WITH GRAVEL BAGS.
14. ALL GROUNDWATER EXTRACTED DURING DEWATERING OF EXCAVATIONS SHALL BE TREATED TO ACCEPTABLE NPDES PERMIT LEVELS PRIOR TO RELEASE.
15. CONCRETE WASHOUT AND CONCRETE SPOILS ARE TO BE LIMITED TO 0.5 CUBIC YARDS (MAX.) PER TRIP - ALL CONCRETE SPOILS, IN EXCESS OF 0.5 CUBIC YARDS ARE TO BE RETURNED TO THE CONCRETE PLANT WHERE IT WAS ORDERED.
16. ALL GROUNDWATER EXTRACTED DURING DEWATERING OF EXCAVATIONS SHALL BE TREATED TO ACCEPTABLE NPDES PERMIT LEVELS PRIOR TO RELEASE.
17. CONTRACTOR TO PROVIDE CITY WITH CONTACT INFORMATION OF THE CONTRACTOR'S AGENTS-IN-CHARGE FOR THE IMPLEMENTATION AND COMPLIANCE OF THIS EROSION CONTROL PROGRAM. A MINIMUM OF TWO NAMES, PHONE DAYTIME AND EVENING PHONE NUMBERS, SHOULD BE PROVIDED IN WRITING TO THE CITY. THE CONTRACTOR SHOULD UPDATE THE CONTACT INFORMATION IF-IN-THE-EVENT PERSONNEL CHANGES.

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ROGER K. DUSENBERY JOSEPH G. ZEILSKI

FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY
GNHWPCA PROJECT NO: SSF 2018-01
EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO:	SSF 2018-01
CWA PROJECT NO.:	1801
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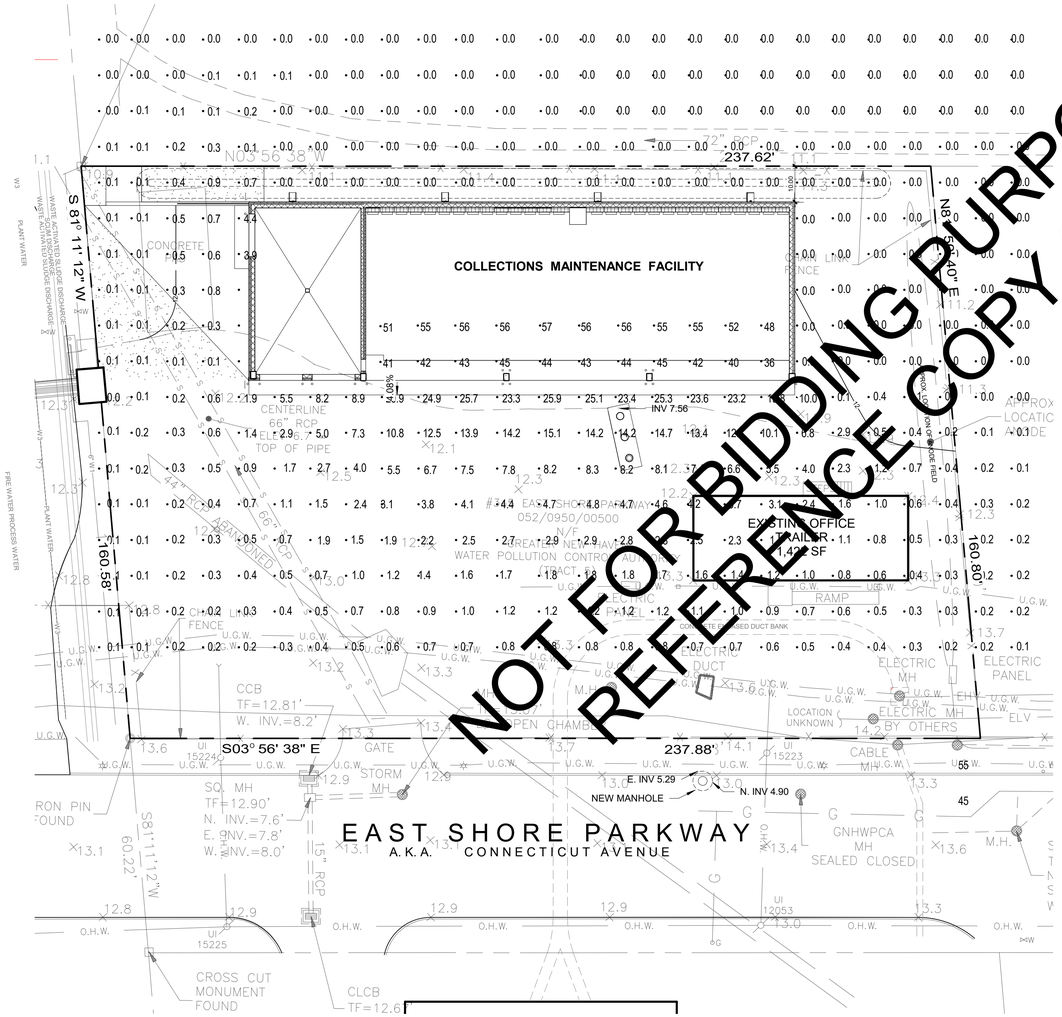
SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL PLAN

C103

Lighting Fixture Schedule						
Type Mark	Count	Manufacturer	Model	Total Light Loss Factor	Wattage	Luminaire Lumens
A	30	Xtralight	VTH-4-18000L-40K-DIM-SFA-STD	0.9	119 W	17672 lm
B1	3	Paraflex	DC150-90-30W-40K-BL	0.9	32 W	4473 lm
B2	1	Paraflex	DC150-90-12W-40K-BL	0.9	11 W	1531 lm
X1	1	Emergi-Lite	Survive-All			

ElumTools General Use Illuminance Results					
Calculation Points Name	Average	Maximum	Minimum	Average / Minimum	Maximum / Minimum
Covered Area	53.0 fc	62.5 fc	27.7 fc	1.9	2.3
Site Points	2.0 fc	26.1 fc	0.0 fc	0.0	0.0



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A4 SITE PHOTOMETRIC PLAN

1" = 20'-0"

SITE PHOTOMETRICS PREPARED BY SK & ASSOCIATES, CANTON MA.

0' 10' 20' 40' 60'

TRUE NORTH PROJECT NORTH

OWNER

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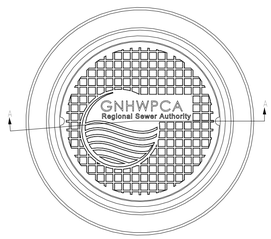
SHEET TITLE

SITE PHOTOMETRICS

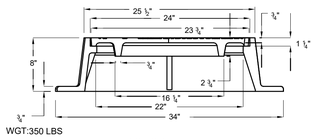
C104



PLAN

NOTE:
GNHWPCA LOGO DESIGN WITH 1" SQUARE FACE PATTERN 1/8" HIGH. AASHTO HS 20 LOAD RATED.
ASTM A48 CLASS 35B GRAY CAST IRON WITH NO BLACK ASPHALT COATING.

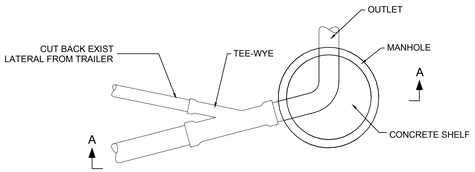
BACK OF COVER TO READ: "MM/DD/YY"



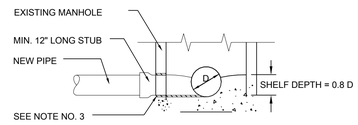
WGT:350 LBS

SECTION A—A

C5 WPCA MANHOLE COVER
NOT TO SCALE



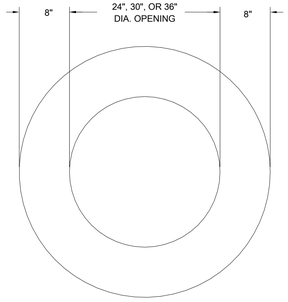
PLAN



NOTES: SECTION A-A

1. INVERT ELEVATION OF 12" LONG STUB AT THE INSIDE FACE OF MANHOLE TO BE 1 1/4" (MIN.) HIGHER THAN EXISTING OUTLET INVERT ELEVATION.
2. THE CORE CUT HOLE SHALL BE MADE WITH EQUIPMENT SPECIALLY DESIGNED TO CUT A SMOOTH HOLE WITHOUT SPALLING OR DAMAGE TO THE SHELL OR STRUCTURE.
3. PIPE CONNECTIONS THROUGH MH WALLS SHALL BE MADE W/ GROUTING RING (WS WATERSTOP) AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR APPROVED EQUAL AND NON-SHRINK GROUT.
4. MH INVERT SHALL BE FORMED OUT OF MH BRICK. SHELF TO BE BUILT TO 0.8 OF THE DIAMETER OF PIPE EXITING THE MH.

C4 MANHOLE CONNECTION
NOT TO SCALE



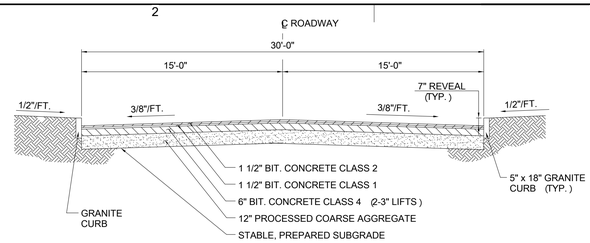
GRADE RING PLAN VIEW

GRADE RING ELEVATION VIEW

MANHOLE DESIGN SPECIFICATION CONFORMS TO LATEST ASTM DESIGNATION C478

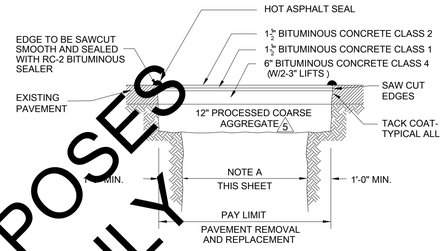
DESIGN NOTES:
1. REINFORCING STEEL WELDED WIRE FABRIC CONFORMS TO LATEST ASTM SPECIFICATION A185.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
3. CONCRETE COMPRESSIVE STRENGTH- 4000 PSI AT 28 DAYS.

C3 MANHOLE GRADE RING DETAIL
NOT TO SCALE

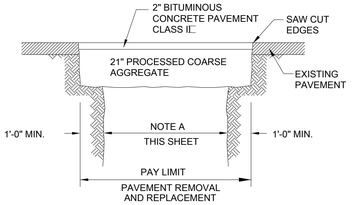


NOTE:
UNLESS OTHERWISE NOTED, ALL MATERIALS AND CONSTRUCTION METHODS USED SHALL CONFORM TO STATE DOT " STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION"; FORM 14A OR FORM 15 AND SUBSEQUENT MODIFICATIONS.

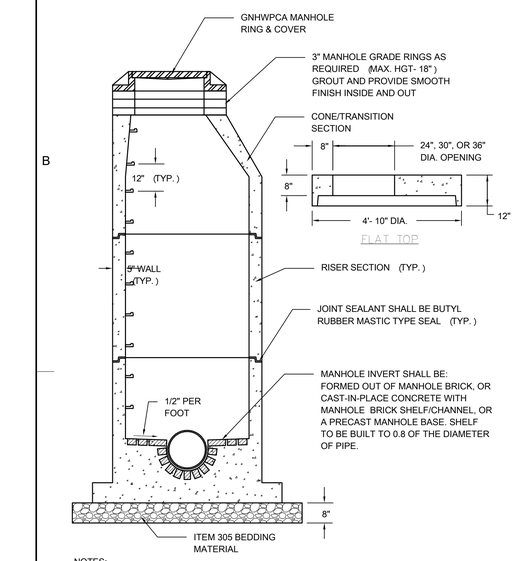
D2 ROAD PAVING CROSS SECTION
NOT TO SCALE



C2 PAVING PERMANENT REPAIR DETAIL
NOT TO SCALE

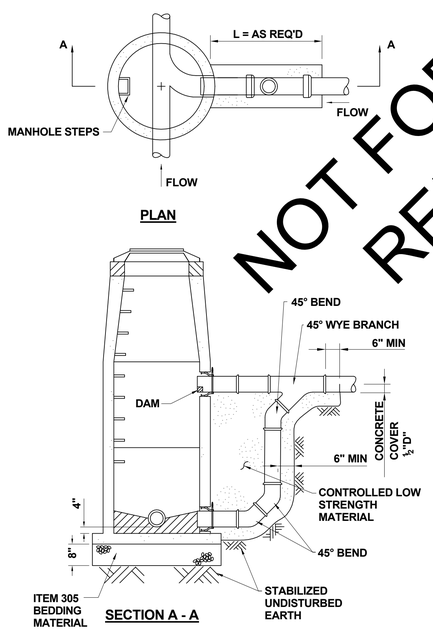


C1 PAVING TEMPORARY REPAIR DETTAIL
NOT TO SCALE

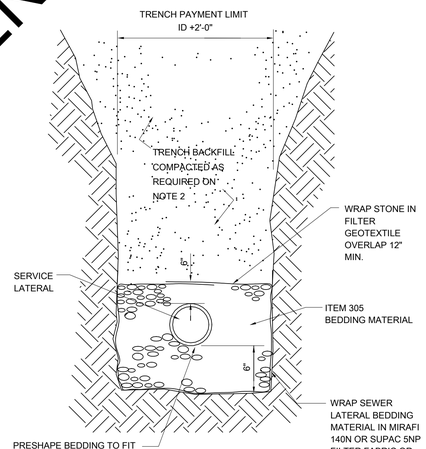


NOTES:
1. MINIMUM MANHOLE DIAMETER IS 4FT.
2. MANHOLE SHALL CONFORM TO LATEST ASTM DESIGNATION C478. CONCRETE COMPRESSIVE STRENGTH- 4000 PSI AT 28 DAYS.
3. ALL PIPE CONNECTIONS TO MH WALLS SHALL BE CAST-IN FLEXIBLE WATERTIGHT CONNECTORS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR APPROVED EQUAL.
4. MANHOLE STEPS SHALL MEET LATEST OSHA REGULATION 29 CFR 1910.27, SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 ASTM SPECIFICATION C497.
5. WHEN SPECIFIED MANHOLES SHALL BE COATED WITH BAY OIL, "EBONY".
6. MH BRICK (ASTM C32) SHALL BE GRADE MS OR MM.

A6 MANHOLE SECTION DETAIL
NOT TO SCALE

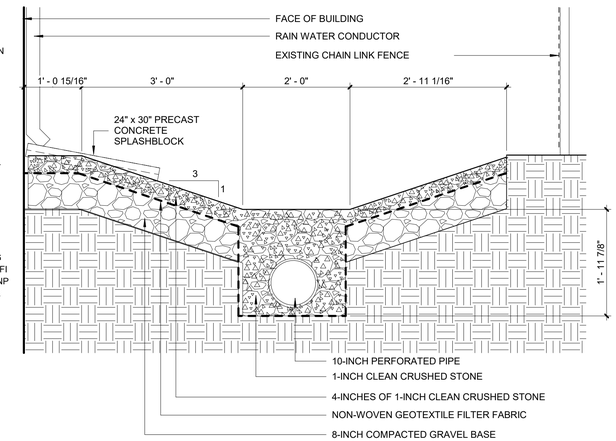


A5 DROP SANITARY MANHOLE
NOT TO SCALE



NOTES:
1. MAXIMUM PAY WIDTH PER BEDDING MATERIAL & TRENCH EXCAVATION IS I.D. + 2'-0"
2. BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.

A4 TRENCH SECTION DETAIL
NOT TO SCALE



A2 CRUSHED STONE SWALE
3/4" = 1'-0"

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FOR CONSTRUCTION

5/23/2022

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GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

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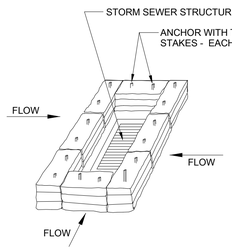
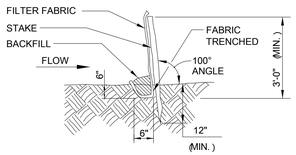


HAY BALE INSTALLATION
AT CATCH BASIN

B5 STORM CATCH BASIN HAY BALE DETAIL
NOT TO SCALE



SILT FENCE INSTALLATION

A) MINIMUM LENGTH OF SILT FENCE IS 15 L.F.

B) MAXIMUM POST SPACING IS 10 L.F.

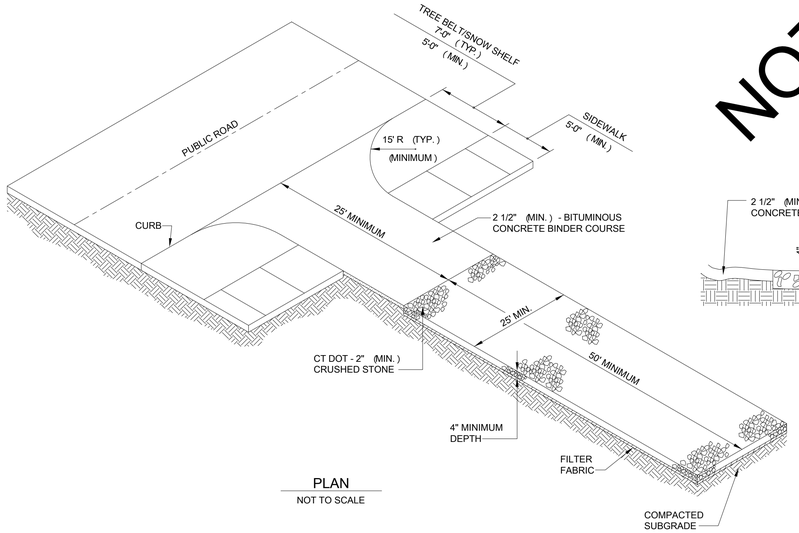
C) JOINTS ONLY AT SUPPORT POST WITH MINIMUM 6" OVERLAP, SECURELY SEALED.

D) SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.

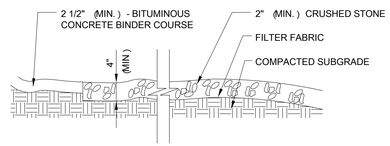
E) SILT FENCE SHALL NOT BE USED IN A WATER COURSE.

F) UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.

B4 SILT FENCE SECTION DETAIL
NOT TO SCALE

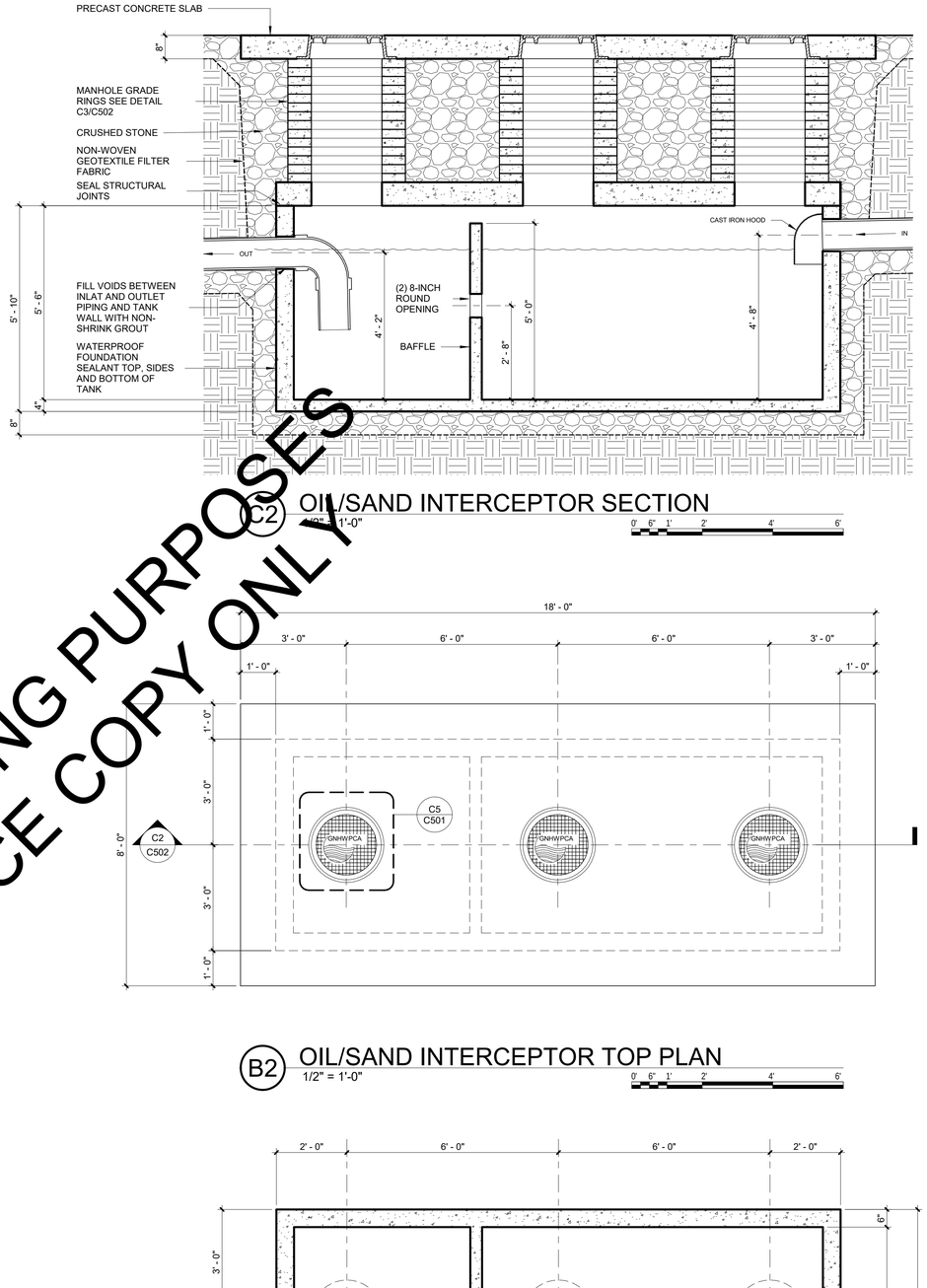


PLAN
NOT TO SCALE



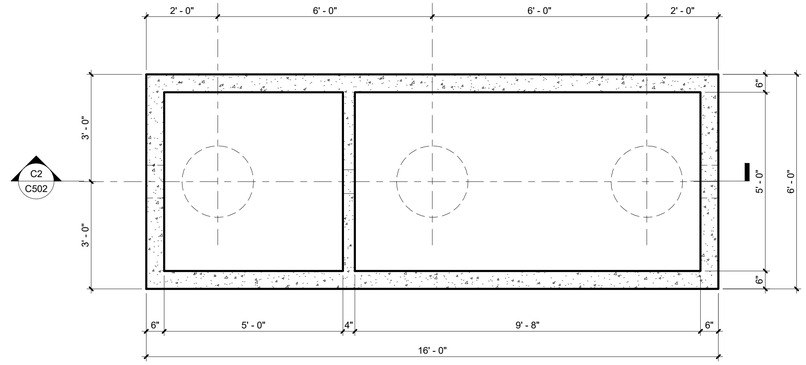
SECTION
SCALE: $\frac{1}{2}$"=1'-0"

A5 ANTI-TRACKING PAD DETAIL
NOT TO SCALE



C2 OIL/SAND INTERCEPTOR SECTION
1/2" = 1'-0"

B2 OIL/SAND INTERCEPTOR TOP PLAN
1/2" = 1'-0"



A2 OIL/SAND INTERCEPTOR PLAN
1/2" = 1'-0"

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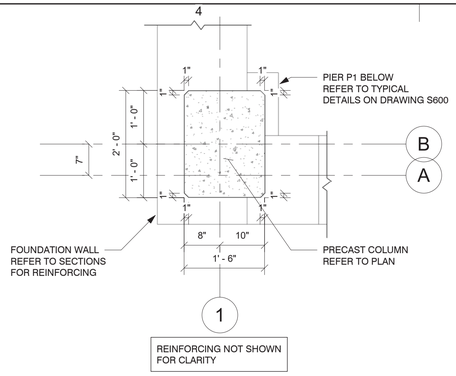
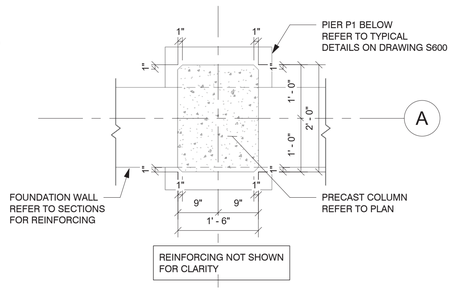
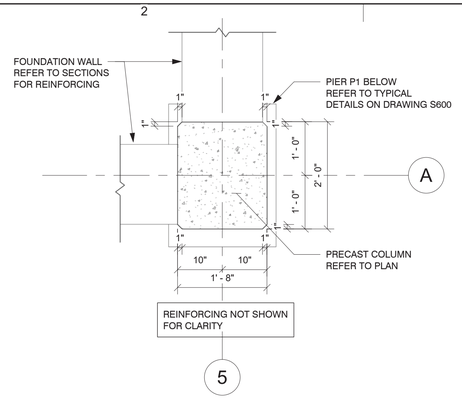


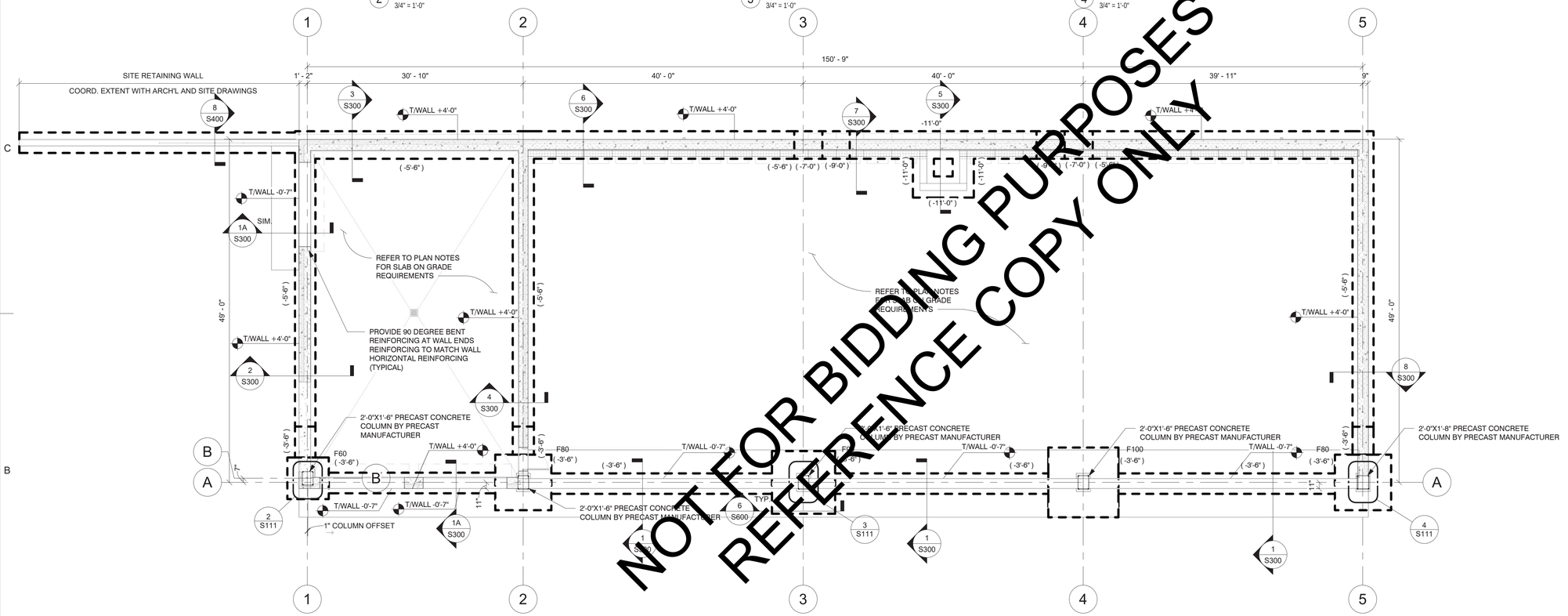
2 COLUMN PLAN DETAIL AT A/1
3/4" = 1'-0"



3 COLUMN PLAN DETAIL AT A/2,3,4
3/4" = 1'-0"



4 COLUMN PLAN DETAIL AT A/5
3/4" = 1'-0"



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

FOUNDATION NOTES:

1. TOP OF CONCRETE SLAB ELEVATION= VARIES, REFER TO ARCHITECTURAL DRAWINGS
2. FLOOR CONSTRUCTION: 7" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 4X4-W2.9XW2.9 W.W.F. (CHAIRED) TOP REINFORCING AND #5 AT 12" O.C. EACH WAY BOTTOM REINFORCING. REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
3. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0"). ALL FOOTINGS EXPOSED TO FROST SHALL BE PLACED WITH BOTTOM OF FOOTING ELEVATION A MINIMUM OF 3'-6" BELOW FINISHED GRADE.
4. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S6.00 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS.

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS ACTUAL ELEVATION 14'-0"= 0'-0" COORD. WITH ARCH'L DRAWINGS

FOOTING SCHEDULE 1.5 TONS/SF

Mark	Footing Size			Reinf Each Way		Remarks
	Length	Width	Thickness	No.	Size	
F60	6' - 0"	6' - 0"	1' - 6"	8	#5	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	11	#6	
F100	10' - 0"	10' - 0"	2' - 0"	12	#6	

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STATE OF CONNECTICUT · DOUGLAS H. McCLOSKEY · No. 19941 · REGISTERED PROFESSIONAL ENGINEER

FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO:
CWA PROJECT NO.: 1801
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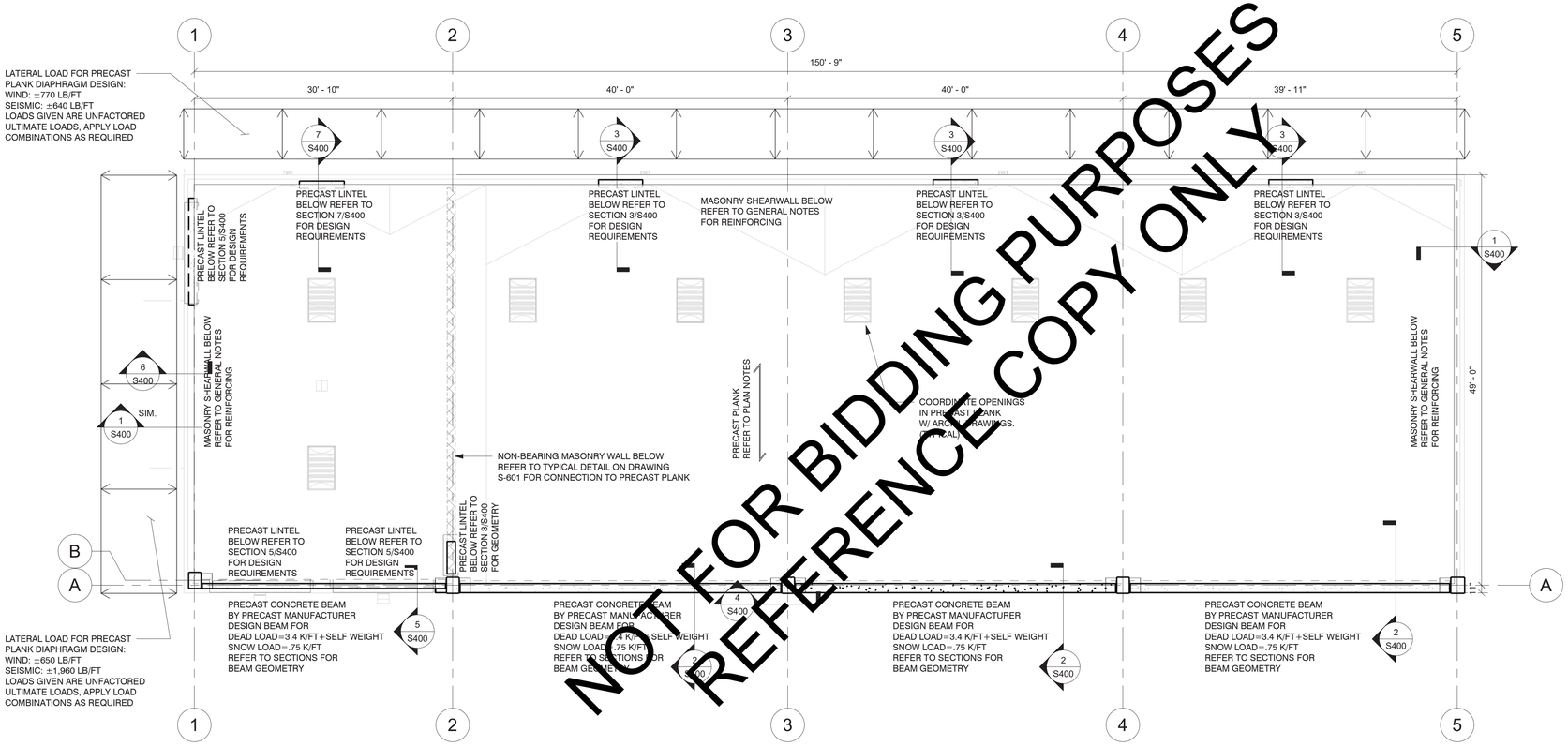
SHEET TITLE

FOUNDATION PLAN

S111



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1 ROOF FRAMING PLAN

1/8" = 1'-0"

1. TYPICAL ROOF CONSTRUCTION: 2" NORMAL WEIGHT TOPPING SLAB ON 16" HOLLOW CORE PLANK
2. TOP OF PLANK + TOPPING SLAB ELEVATION: VARIES, COORDINATE WITH ARCH'L DRAWINGS
3. PRECAST FABRICATOR COORDINATE OPENINGS WITH ARCHITECTURAL DRAWINGS. PROVIDE ADDITIONAL REINFORCING AS REQUIRED.
4. ALL EXPOSED STEEL TO BE TREATED WITH COLD GALV. AFTER WELDING
5. GROUT CMU JAMBS SOLID AT ALL LINTELS PER TYPICAL CMU WALL REINFORCING DETAILS ON DRAWING S601.

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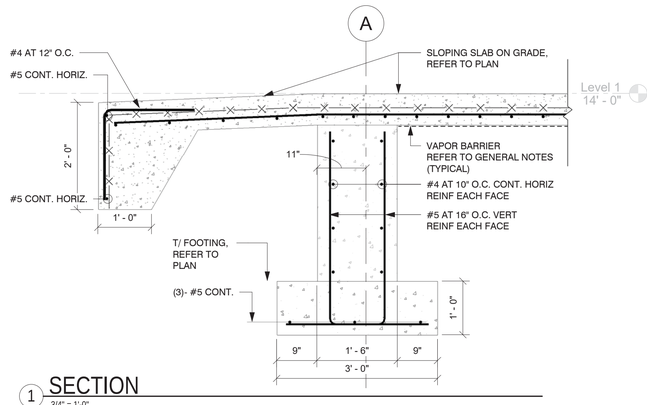
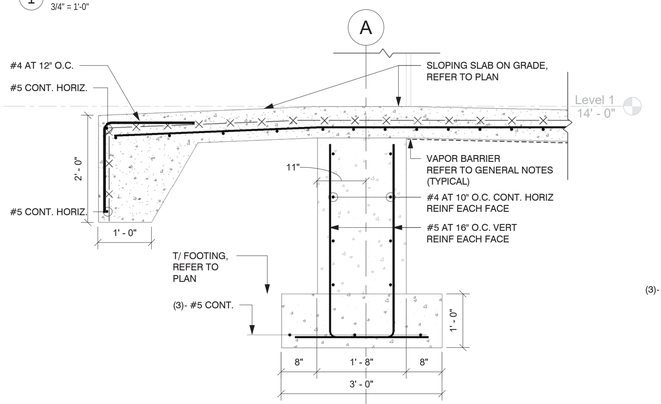
ROOF FRAMING PLAN

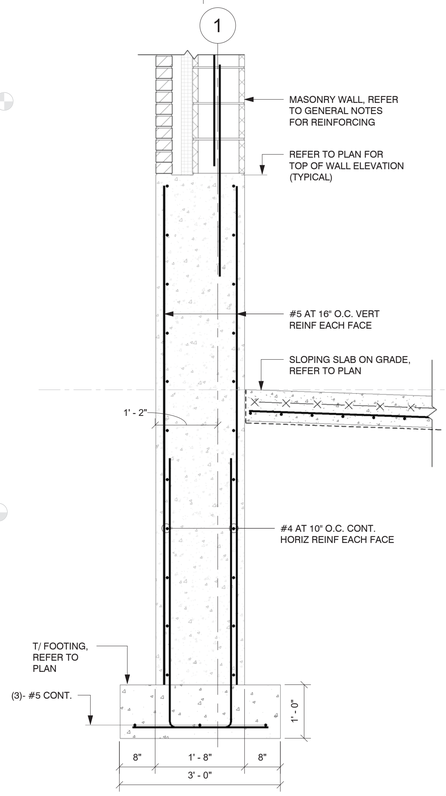
S112



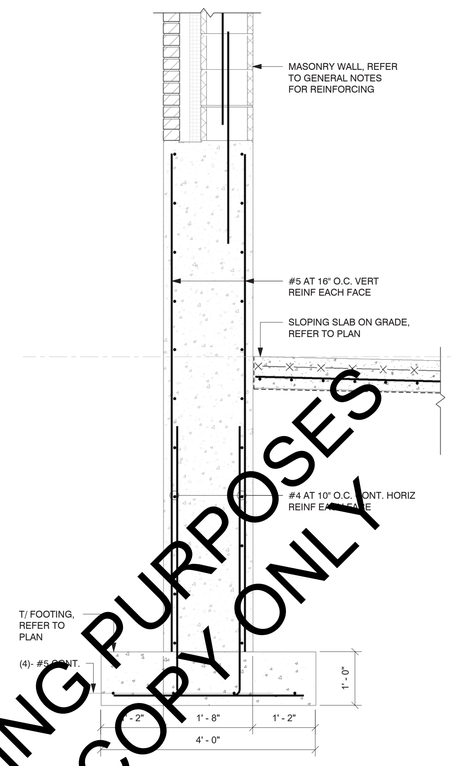
1 SECTION
3/4" = 1'-0"



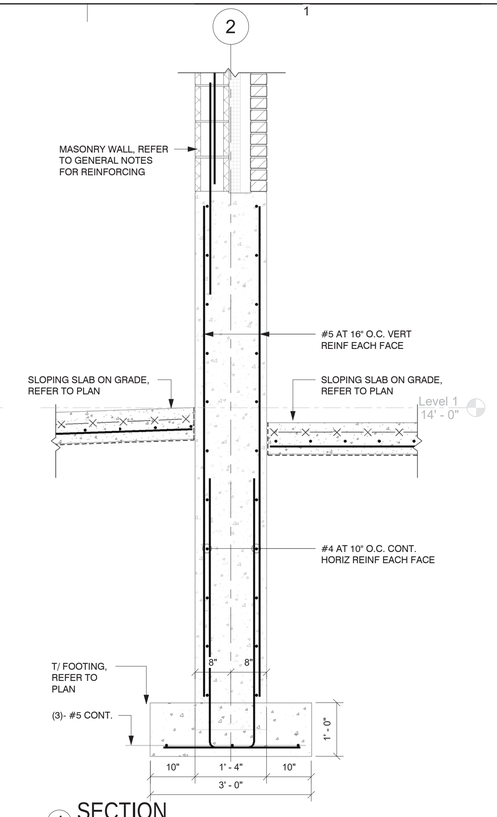
1A SECTION
3/4" = 1'-0"



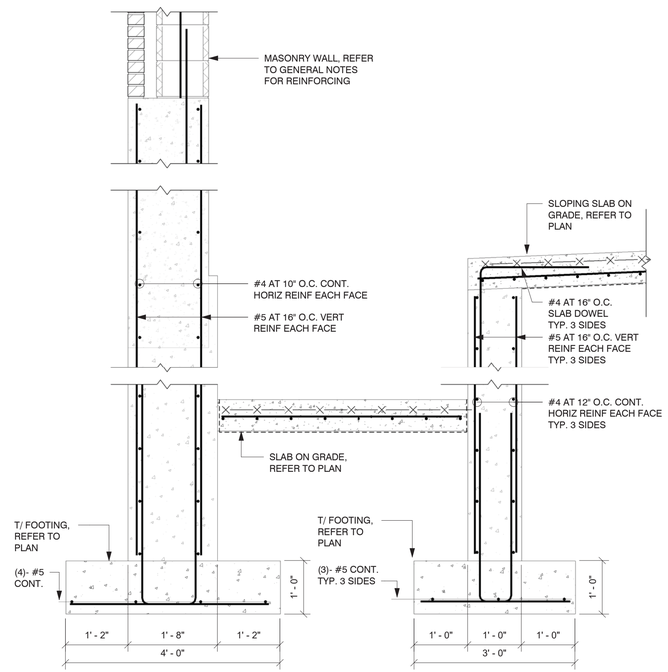
2 SECTION
3/4" = 1'-0"



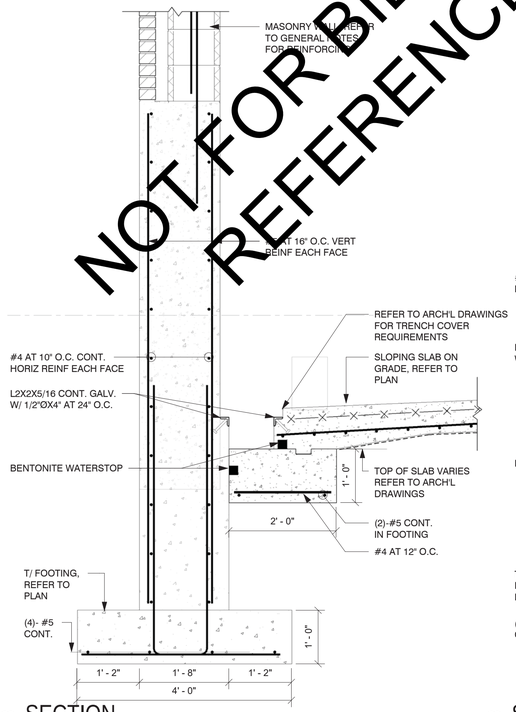
3 SECTION
3/4" = 1'-0"



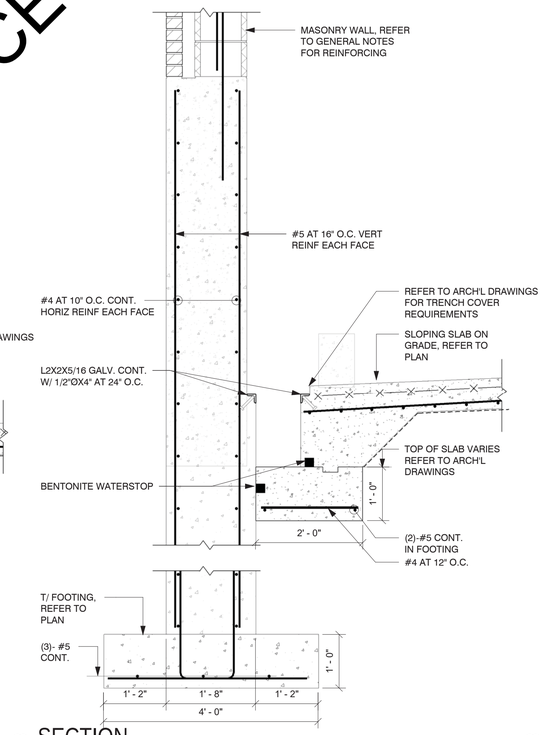
4 SECTION
3/4" = 1'-0"



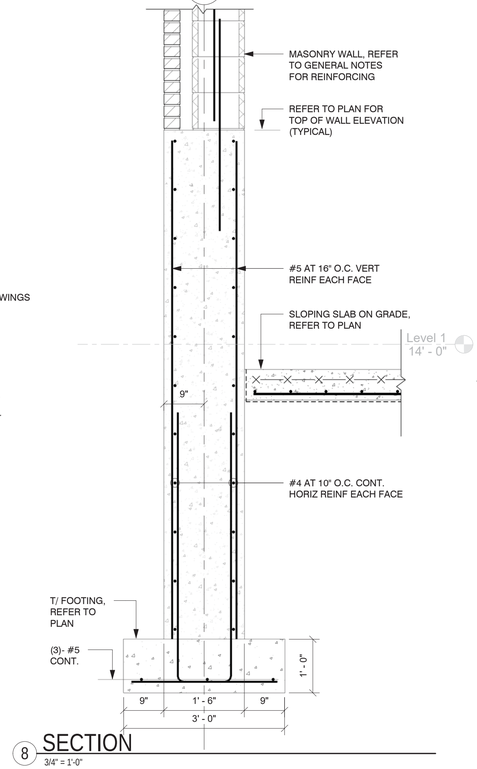
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



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

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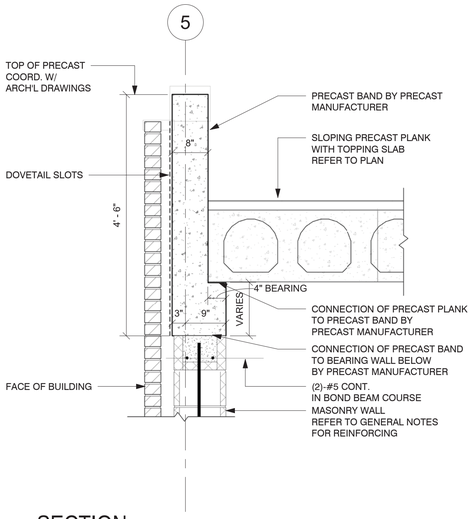
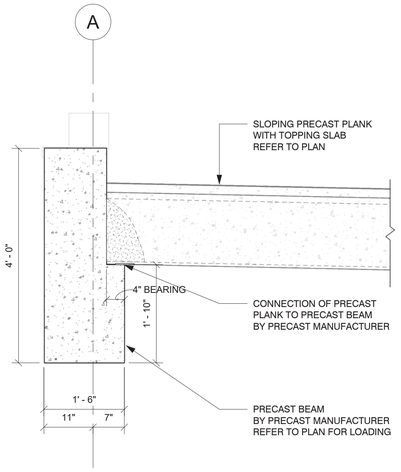
FOUNDATION SECTIONS

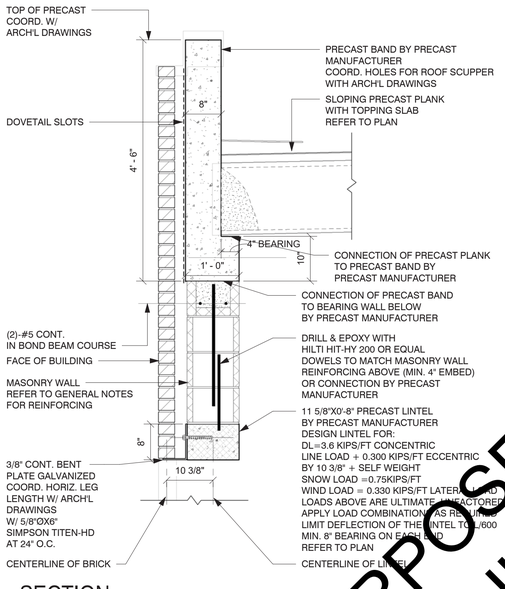
S300



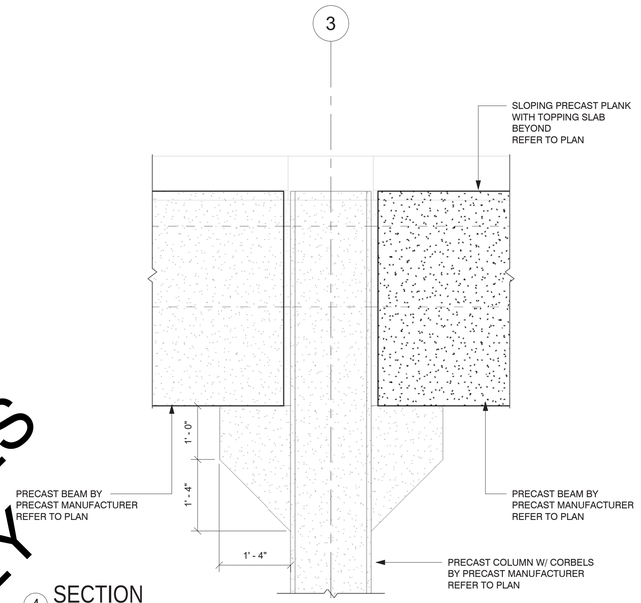
1 SECTION
3/4" = 1'-0"



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



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



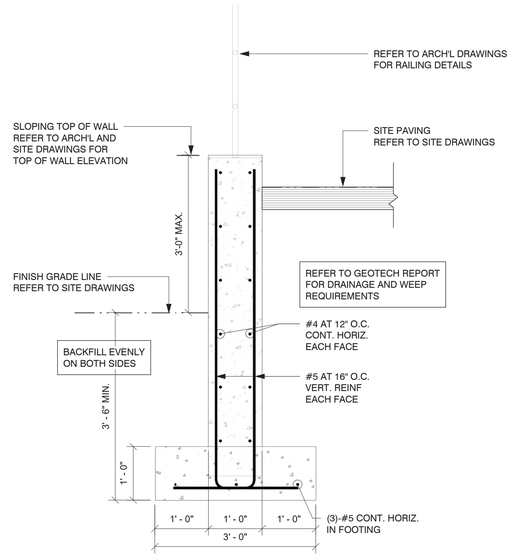
4 SECTION
3/4" = 1'-0"

NOTE: ALL EXPOSED STEEL TO BE TREATED WITH COLD GALV. AFTER WELDING

5 SECTION
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"



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

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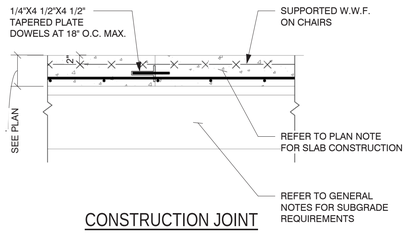
ROOF SECTIONS

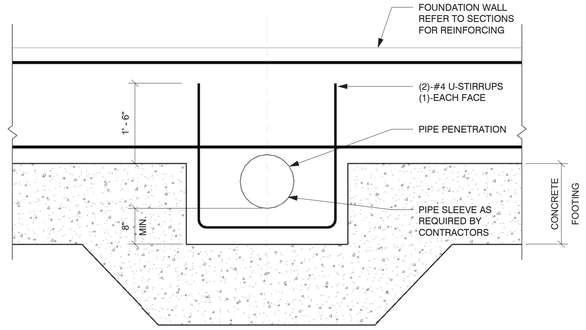
S400



CONSTRUCTION JOINT

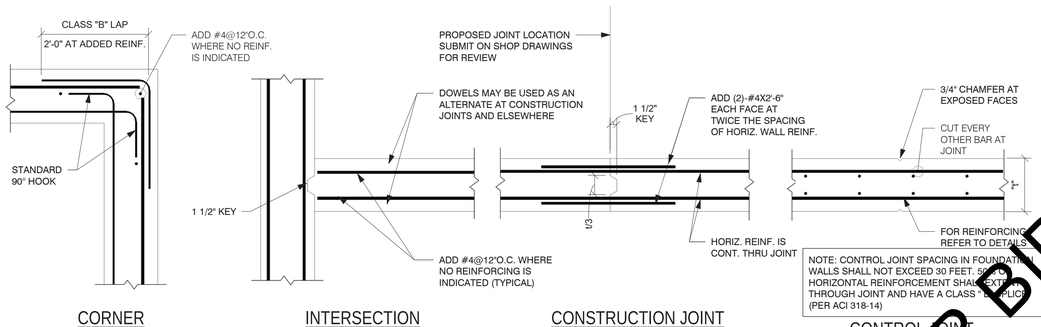
NOTE:
CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE PROPOSED LOCATION OF CONSTRUCTION JOINTS PRIOR TO PLACING CONCRETE FOR SLAB.
REFER TO GENERAL NOTES FOR SUBGRADE PREPERATION. REMOVE ALL FILL MATERIALS BELOW SLAB ON GRADE

1 TYPICAL SLAB ON GRADE DETAIL
3/4" = 1'-0"



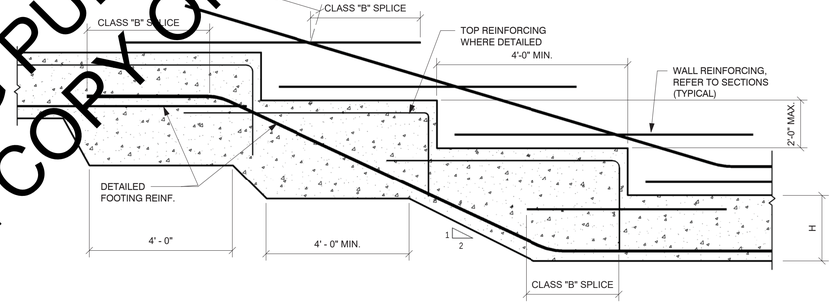
NOTE: DO NOT PLACE PENETRATIONS THROUGH COLUMNS PIERS OR FOOTINGS.
REFER TO PLAN FOR LOCATIONS AND COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS.

2 TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATION WALLS
3/4" = 1'-0"

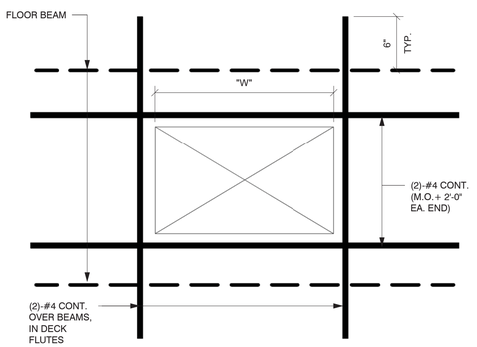


CORNER | INTERSECTION | CONSTRUCTION JOINT | CONTROL JOINT

3 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"

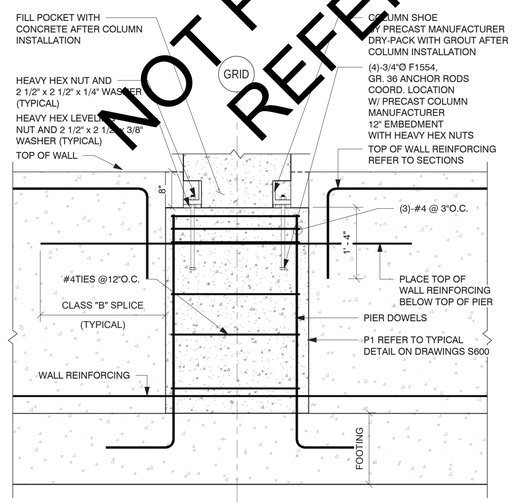


4 TYPICAL STEPPED FOOTING DETAIL
1/2" = 1'-0"



NOTES:
1. FOR OPENINGS WITH "W" GREATER THAN 4'-0" SUBMIT LOCATION FOR REVIEW.
2. FOR STEEL FRAME, REFER TO TYPICAL FLOOR OPENING DETAIL
3. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

5 TYPICAL SLAB OPENING DETAIL
1 1/2" = 1'-0"



NOTE: REFER TO SECTIONS FOR REINFORCING.

6 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"

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MARK	DATE	DESCRIPTION

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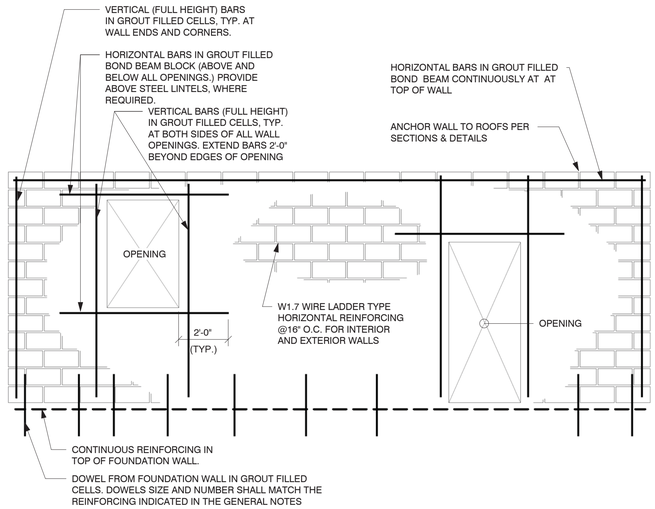
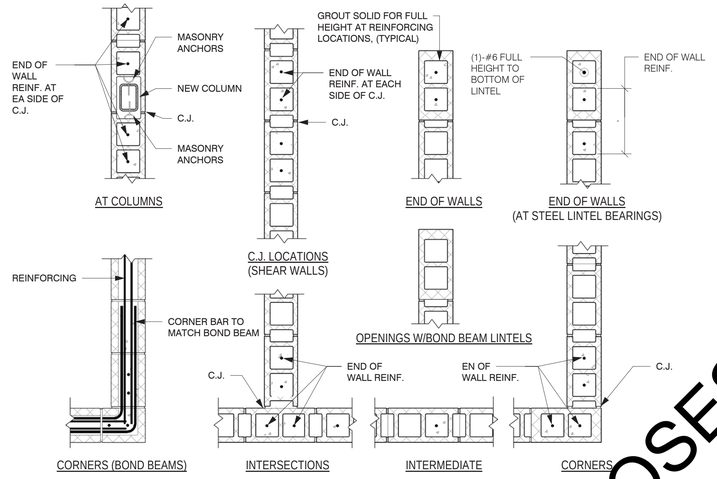
TYPICAL DETAILS

S600



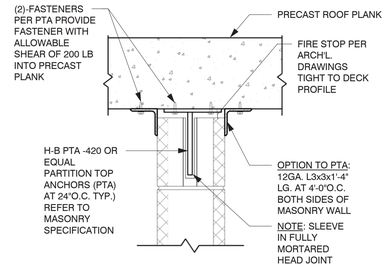
NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES FOR WALL REINFORCING REQUIREMENTS.

1 TYPICAL CMU WALL REINFORCEMENT DETAIL
3/4" = 1'-0"



NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAIWINGS
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.

2 TYPICAL CMU REINFORCING PLAN DETAILS
3/4" = 1'-0"



NOTE: APPLIES TO INTERIOR WALLS ONLY. ALL EXPOSED STEEL TO BE GALVANIZED.

3 TYPICAL TOP OF WALL MASONRY ANCHORAGE TO PRECAST PLANK
1 1/2" = 1'-0"

4 TYPICAL AT REENTRANT SLAB CORNERS
3/4" = 1'-0"

LINTEL SCHEDULE			
MARK	CMU	OPENING WIDTH	LINTEL
	12" BLOCK	INTERIOR MECHANICAL OPENINGS UP TO 3'-0"	(2)-#5 CONT.
	12" BLOCK	OPENINGS NOT COVERED ABOVE UP TO 5'-0"	PRECAST LINTEL SIMILAR TO SECTION 3/S400

NOTE:
1. PROVIDE LINTELS WHERE NEEDED. NOT SHOWN ON THE DRAWINGS
2. ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED
3. COORDINATE ALL OPENINGS WITH ARCHT & MECH DRAWINGS.
4. GROUT ALL JAMBS SOLID PER TYPICAL CMU WALL REINF. DETAILS.

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TYPICAL DETAILS

S601

GENERAL NOTES

GENERAL

GOVERNING CODE: 2018 CONNECTICUT STATE BUILDING CODE, (2015 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: CITY OF NEW HAVEN

MINIMUM LIVE LOADS:

SLAB ON GRADE: 40 PSF + 45,500 LB AXLE LOAD

ROOF LOAD:

ROOF SNOW LOAD CRITERIA: Pg = 30 PSF, Ce = 0.9 AND Is = 1.0, Ct= 1.2 WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2015 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 130 PSF

WIND LOAD CRITERIA: SECTION 1609 (2015 IBC)
ULTIMATE WIND SPEED V_U = 125 MPH
NOMINAL DESIGN WIND V_{ASD} = 105 MPH
RISK CATEGORY II, Iw = 1.0
EXPOSURE CLASSIFICATION "D".

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-10.

COMPONENT AND CLADDING DESIGN WIND PRESSURES:

ROOF ZONE 1: POSITIVE: 18.55 PSF
NEGATIVE: -45.60 PSF

ROOF ZONE 2: POSITIVE: 18.55 PSF
NEGATIVE: -76.55 PSF

ROOF ZONE 3: POSITIVE: 15.55 PSF
NEGATIVE: -115.18 PSF

WALL ZONE 4: POSITIVE: 45.61 PSF
NEGATIVE: -49.50 PSF

WALL ZONE 5: POSITIVE: 45.61 PSF
NEGATIVE: -61.10 PSF

ROOF OVERHANG ZONE 2: -71.00 PSF
ROOF OVERHANG ZONE 3: -116.81 PSF

DESIGN WIND PRESSURE IS COMPUTED BASED ON ULTIMATE WIND SPEED USING 10 SQUARE FOOT OF AREA.

SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2012 IBC) WITH:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
Ss = 0.186g, S1 = 0.062g
SOIL SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.198G, Sd1 = 0.149g
SEISMIC DESIGN CATEGORY, B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: BEARING WALL, INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR, V = 0.057W
RESPONSE MODIFICATION FACTOR, R = 3.5
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

ASSUMED BEARING PRESSURE: 3000 PSF

1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

3. THE STRUCTURE UTILIZES SHEAR WALLS TO PROVIDE LATERAL STABILITY. THEREFORE, TEMPORARY BRACING, GUYS, ETC. MUST BE MAINTAINED UNTIL ALL MASONRY SHEAR WALLS HAVE BEEN ERECTED AND ATTACHED TO STEEL FRAMING.

4. LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

5. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.

6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

7. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

9. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

10. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID FOR REFERENCE TO ALL NOTES ON ARCHITECTURAL DRAWINGS REFERRING TO ASEE STRUCTURAL DRAWINGS@. IF THE SIZE OF ELEMENTS AND DETAILING OF MEMBERS IS NOT INDICATED, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST THE MISSING INFORMATION IN PREPARATION OF THEIR BID. THESE REFERENCED ITEMS SHALL BE PART OF THE BASE BID.

11. IN CASES OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SUBMITTED SHOP DRAWINGS, THE CONTRACT DOCUMENTS SHALL GOVERN INSTALLATION OF MATERIALS.

FOUNDATIONS

1. BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).

2. ALL FOOTINGS ARE TO REST ON UNDISTURBED NATURAL SOIL, AS DEFINED IN THE SPECIFICATIONS, OR CONTROLLED COMPACTED FILL, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.

3. IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.

4. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

5. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.

6. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

7. FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0".

8. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.

9. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING OR CONDUIT, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING OR CONDUITS.

10. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

11. USE LEAN CONCRETE (f'c=1500) OR CONTROLLED COMPACTED FILL FOR OVER-EXCAVATION OF FOOTINGS.

12. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.

13. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS, SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

14. CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318-95).

15. WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEYED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS BELOW GRADE.

16. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK OR CONCRETE MASONRY BLOCK SHELF ELEVATIONS IN THE FOUNDATION WALLS.

17. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SOIL BORINGS, SOILS REPORT AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER, GEODESIGN, DATED NOVEMBER 2, 2018. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE MATERIAL PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SOIL CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

18. FOUNDATION DESIGN SITE PREPARATION: THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE SITE IMPROVEMENT USING RAMMED AGGREGATE PIERS OR EQUAL.

19. PROVIDE CONTINUOUS BENTONITE WATERSTOPS BETWEEN THE TOP OF FOOTING AND BOTTOM OF ALL WALLS WHERE THE SLAB ON GRADE IS BELOW THE FINISH GRADE. PLACE THE WATERSTOP WITH A MINIMUM OF 2" CLEAR FROM THE FACE OF WALL, OR PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS. ATTACH WATERSTOP TO THE CONCRETE PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS.

SLAB ON GRADE

1. ALL SLABS ON GRADE SHALL BEAR ON A 15 MIL, CLASS A, VAPOR RETARDER OVER A MINIMUM OF 12 INCHES COMPACTED GRAVEL FILL OR CRUSHED STONE, OVER PROOF ROLLED BASE COURSE.

ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE. TURN THE VAPOR BARRIER UP AT ALL TERMINATIONS AGAINST FOUNDATION WALLS AND SEAL JOINT BY CONTINUOUSLY TAPING.

2. IF FILL MATERIALS ARE ENCOUNTERED SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

3. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

4. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEYED AND DOWELED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER.

5. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED AREAS, UNLESS OTHERWISE SHOWN.

6. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, AGUIDE FOR CONSOLIDATION OF CONCRETE.

CONCRETE

MATERIALS:

CONCRETE SHALL MEET THE REQUIREMENTS OF EXPOSURE F3 PER ACI 318-14 CHAPTER 19, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.4, SHALL HAVE A TARGET AIR CONTENT OF 6 PERCENT, AND SHALL DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	STRENGTH (PSI)
FOUNDATIONS	5000
WALLS	5000
SLABS ON GRADE	5000

1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

2. REINFORCING STEEL SHALL BE 60,000 PSI YIELD.

3. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

4. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-14.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

6. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.

7. WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.

8. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.

9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS.

10. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS B SPLICES IN ACCORDANCE WITH ACI 318.

11. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.

12. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

13. ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.

14. CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING, PROVIDE CLASS "B" SPLICE.

15. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.

16. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.

17. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).

18. ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.

19. PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

FOOTINGS (AGAINST EARTH)	3"
COLUMNS AND PIERS (VERTICAL REINFORCING)	2"
WALLS, INTERIOR FACE	3/4"
WALLS, EXTERIOR FACE (#5 AND SMALLER)	1 1/2"
WALLS, EXTERIOR FACE (#6 AND LARGER)	2"
SLABS (INTERIOR)	3/4"
SLABS (EXTERIOR)	1 1/2"
SLABS ON GRADE (W.W.F.)	1/3 X THK. FROM TOP SURFACE

20. NO SLEEVES, HOLES OR INSERTS SHALL BE PLACED IN SLABS WITHIN 2'-0" OF THE EDGE OF COLUMNS, OR ANYWHERE IN BEAMS, COLUMNS OR JOISTS WITHOUT APPROVAL OF THE ARCHITECT.

21. PROVIDE LENGTH OF BEARING ON MASONRY WALLS AS FOLLOWS, UNLESS NOTED OTHERWISE:

REINFORCED CONCRETE BEAMS: 8 INCHES
SOLID CONCRETE SLABS: 4 INCHES

22. JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THERE SHALL BE NO HORIZONTAL JOINTS IN BEAMS OR SUSPENDED SLABS.

23. PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED:

1-#5 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING.

1-#5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.

24. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS.

25. SHOP DRAWINGS SHALL INDICATE LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL	ASTM A 36
ALL W SHAPES	ASTM A 992, GR.50
STRUCTURAL STEEL TUBING	ASTM A500, GRADE B
STRUCTURAL STEEL PIPE	ASTM A53, GRADE B
BOLTS	ASTM A325
ANCHOR BOLTS	ASTM F1554, GRADE 36
WELDING ELECTRODE	ASTM E 70

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION. ALL REACTIONS SHOWN ON PLAN HAVE BEEN DEVELOPED USING ALLOWABLE STRESS DESIGN.

2. WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

3. ALL LOOSE BEAM LINTELS SHALL HAVE 8" MINIMUM BEARING. SEE ARCHITECTURAL JAMB DETAILS FOR LENGTHS.

4. FOR MISCELLANEOUS STEEL REFER TO ARCHITECTURAL DRAWINGS.

5. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.

CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER ASTM A325 BOLTS (SNUG TIGHT OR SLIP CRITICAL) OR WELDS, UNLESS NOTED OTHERWISE. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES USING CLASS A FAYING SURFACE.

PROVIDE SLOTTED BOLTED CONNECTIONS WHERE SHOWN WITH 13/16" X 1 7/8" SLOTTED HOLES USING ASTM A 325 BOLTS WITH WASHERS. NUTS SHALL BE FASTENED SNUG TIGHT, THEN UNTIGHTENED BY ONE-HALF TURN. PEEN THREADS TO PREVENT FURTHER LOOSENING OF NUT.

USE LARGER OF 1/4" FILLET WELDS OR MINIMUM SIZE PER AISC REQUIREMENTS WHERE NO WELD SIZE IS SHOWN ON DRAWINGS.

WELDS IN EXCESS OF 24" IN LENGTH SHALL BE 3" STITCH WELDS AT 8" ON CENTERS, UNLESS SPECIFICALLY SHOWN ON DRAWINGS TO BE CONTINUOUS.

MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP FULL MOMENT CAPACITY OF THE ELEMENTS CONNECTED, UNLESS SPECIFIC MOMENT IS INDICATED ON THE DRAWINGS.

6. NO WELDING OR FINAL BOLTING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE THAT WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

7. SEQUENCE OF PLACING WELDS SHALL BE SUCH AS TO AVOID DISTORTION OF MEMBERS.

8. SUBSTITUTION OF STRUCTURAL STEEL MEMBERS IS PERMITTED TO FACILITATE DELIVERY AT NO ADDITIONAL COST TO THE OWNER. SUBSTITUTED MEMBERS MUST BE OF THE SAME NOMINAL DEPTH AS THE MEMBER ORIGINALLY INDICATED AND HAVE A WEIGHT GREATER THAN THAT INDICATED. BEAM FLANGES MUST NOT INFRINGE ON ADJACENT ARCHITECTURAL ELEMENTS.

9. ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE THE FOLLOWING MASONRY ANCHORAGE:

16 GAGE GALVANIZED CHANNEL SLOTS (DUR-O-WAL, INC. D/A 901) WELDED TO COLUMNS AND BEAMS WITH 1/4" GALVANIZED STRAP ANCHORS (DUR-O-WAL, INC. D/A 914) SPACED 1'-4" O.C. AT COLUMNS AND 1'-4" AT BEAMS (UNLESS OTHERWISE NOTED). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

12. PROVIDE DEFORMED BAR ANCHORS ON THE TOP OF ALL BEAMS SUPPORTING CONCRETE MASONRY UNIT WALLS OR MULTI-WYTHE BRICK WALLS. THE ANCHORS SHALL BE WELDED AT 24" ON CENTER AND SHALL BE THE SAME SIZE AS THE WALL REINFORCING. DEFORMED BAR ANCHORS SHALL BE PLACED BY A TIMED STUD WELDING MACHINE.

13. STEEL MEMBERS SHOWN CONNECTED TO MASONRY WITH EXPANSION ANCHORS SHALL HAVE 3/4" DIAMETER EXPANSION ANCHORS AT 2'-8" ON CENTERS IN VERTICALLY SLOTTED HOLES, UNLESS OTHERWISE INDICATED.

14. BEAMS BEARING ON MASONRY SHALL HAVE ANGLE WALL ANCHORS WELDED TO THE BEAM, AS DETAILED IN THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

15. PROVIDE 8" X 8" X 5/8" BEARING PLATES FOR ALL WALL BEARING BEAMS UNLESS NOTED OTHERWISE. ALL PLATES SHALL HAVE A MINIMUM OF (2)-3/4" DIAMETER X 5" LONG WELDED STUDS ON THE BOTTOM TO SET IN CONCRETE OR MASONRY WALLS.

16. PROVIDE 1/4" CLOSURE PLATES WITH FULL SEAL WELDS FOR ALL TUBE OR PIPE HOLLOW STEEL SECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

17. STEEL CONTRACTOR SHALL PROVIDE SKETCHES FOR ALL CORRECTIVE FIELD WORK WHICH SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. ALL SKETCHES SHALL BE SIGNED AND SEALED BY THE STEEL FABRICATORS CONNECTIONS ENGINEER.

CONCRETE MASONRY

MATERIALS:

HOLLOW LOAD BEARING UNITS: ASTM C 90
MORTAR: (TYPE S) ASTM C 270
(COMPRESSIVE STRENGTH OF MASONRY, f=m = 1500 PSI)
GROUT FOR REINFORCED MASONRY: ASTM C 476
(COMPRESSIVE STRENGTH AT 28 DAYS = 2500 PSI)
GROUT FOR REINFORCED MASONRY: ASTM C 476
SOLID LOAD BEARING UNITS: (GRADE N-I) ASTM C 145
CONCRETE BRICK: (GRADE N-I) ASTM C 55

1. WALLS INDICATED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND COMPOSITION OF MASONRY WALLS.

2. ALL MASONRY WALLS SHALL CONTAIN THE FOLLOWING REINFORCING:

1-#5 VERTICAL BAR AT 24" ON CENTER.

2-#6 VERTICAL BARS AT BOTH SIDES OF DOOR, WINDOW AND MECHANICAL OPENINGS.

2-#5 HORIZONTAL BAR MINIMUM ABOVE AND BELOW ALL WINDOW AND MECHANICAL OPENINGS AND ABOVE ALL DOOR OPENINGS. PROVIDE ADDITIONAL BARS ABOVE DOORS, WINDOWS AND MECHANICAL OPENINGS AS REQUIRED IN ACCORDANCE WITH LINTEL SCHEDULE ON ARCHITECTURAL DRAWINGS.

2-#5 HORIZONTAL AT TOP OF ALL WALLS, AND AT BOND BEAMS CONNECTED TO FLOORS AND ROOFS, UNLESS OTHERWISE INDICATED.

2-#6 VERTICAL BARS AT ENDS OF ALL WALLS, AND EACH SIDE OF CONTROL JOINTS.

STANDARD LADUR TYPE DESIGN DUR-O-WAL HORIZONTAL REINFORCING @ 16" O.C. VERTICAL. SIDE WIRE SIZE SHALL BE #9 GAGE WIRE.

3. MORTAR PROTRUSIONS EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND/OR GROUTED SHALL BE REMOVED.

4. ALL MASONRY WALLS SHALL BE BRACED AT THE TOP WHERE MASONRY ENDS AT THE UNDERSIDE OF ROOF CONSTRUCTION. REFER TO TYPICAL DETAILS.

5. ALL MASONRY WALLS THAT DO NOT EXTEND TO BOTTOM OF FLOOR OR ROOF STRUCTURE ABOVE SHALL BE BRACED AT THE TOP, UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS AT A MAXIMUM SPACING OF 11 FEET FOR 4" WALLS, 17 FEET FOR 6" WALLS, 23 FEET FOR 8" WALLS, AND 33 FEET FOR 12" WALLS. THE ENDS OF THE WALLS MUST BE ANCHORED TO INTERSECTING WALLS BY EITHER TOOTHING OR MECHANICAL ANCHORS. THERE SHALL BE NO VERTICAL CONTROL JOINTS WITHIN THE HORIZONTAL SPAN OF THE WALL BETWEEN THE INTERSECTING WALLS.

6. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS, OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR LOAD CONCENTRATION.

7. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

8. COLLAR (VERTICAL LONGITUDINAL) JOINTS BETWEEN THE FACING AND BACKING WYTHES IN WALLS SHALL BE COMPLETELY FILLED WITH MORTAR OR GROUT AND WORKED IN WITH A TROWEL.

9. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN MASONRY BOND UNLESS NOTED OTHERWISE.

10. MINIMUM DEVELOPMENT LENGTH AND SPLICE LENGTH OF MASONRY REINFORCING SHALL BE AS FOLLOWS:

	BAR SIZE	DEVELOPMENT LENGTH	SPLICE LENGTH
1.			
2.	JOINT REINFORCING	9”	12”
3.	#4	18”	24”
4.	#5	25”	30”
5.	#6	27”	36”
6.	#7	32”	42”

11. IF EPOXY COATED REINFORCING IS SPECIFIED IN THE MASONRY SPECIFICATIONS, THEN ALL SPLICE LENGTHS SHALL BE INCREASED BY 50% PER THE ACI 530 MASONRY CODE.

12. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF ALL REINFORCING REQUIRED IN MASONRY WALLS. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL CONTROL JOINTS, AND THE REQUIRED LAP SPLICES FOR ALL REINFORCING.

13. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF TOP OF WALL PARTITION ANCHORS AT ALL INTERIOR CMU WALLS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.

14. PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 30 FEET ON CENTER. PROVIDE CONTROL JOINTS BETWEEN MAIN AND INTERSECTING WALLS, AT CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS AND NO GREATER THAN 4'-0” FROM CORNERS.

PRECAST CONCRETE

MATERIALS:

CONCRETE SHALL DEVELOP STRENGTH AS FOLLOWS:

AT RELEASE: 3500 PSI
AT 28 DAYS: 5000 PSI

1. ALL DETAILING, FABRICATION AND ERECTION OF PRECAST ELEMENTS SHALL FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

2. FABRICATOR MUST BE A PRODUCER MEMBER OF THE PRESTRESSED CONCRETE INSTITUTE AND/OR PARTICIPATE IN ITS PLANT CERTIFICATION PROGRAM, FABRICATOR SHALL HAVE A MINIMUM OF 2 YEARS EXPERIENCE IN FABRICATION OF PRECAST CONCRETE UNITS.

3. FABRICATOR SHALL FOLLOW THE STANDARDS OF THE PRESTRESSED CONCRETE INSTITUTE MNL 116, "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF PRECAST CONCRETE PRODUCTS".

4. PRESTRESSING TENDON SHALL BE HIGH TENSILE STRENGTH SEVEN-WIRE STRESS RELIEVED STRAND.

5. NON-PRESTRESSED REINFORCING SHALL HAVE 60,000 PSI YIELD STRENGTH.

6. FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN OF ALL PRECAST ELEMENTS AND THEIR CONNECTIONS.

7. ALL PRECAST ELEMENTS SHALL BE DESIGNED TO MINIMIZE CRACKING UNDER SERVICE LOADS.

8. REFER TO SPECIFICATIONS FOR FINISHES ON STEEL PLATES UTILIZED IN PRECAST CONNECTIONS.

9. SEE ARCHITECTURAL, MECHANICAL AND EQUIPMENT DRAWINGS FOR SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN THE PRECAST ELEMENTS REQUIRED BY OTHER TRADES.

10. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR THE TYPE OF CONCRETE FINISH REQUIRED FOR ALL PRECAST ELEMENTS.

11. PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL PRECAST WALLS AND COLUMNS ABUTTING MASONRY WALLS OR VENEERS, UNLESS OTHERWISE NOTED.

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REFERENCE COPY ONLY

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FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO:
CWA PROJECT NO.: 1801
DRAWN BY: AC
CHK'D BY: PJS
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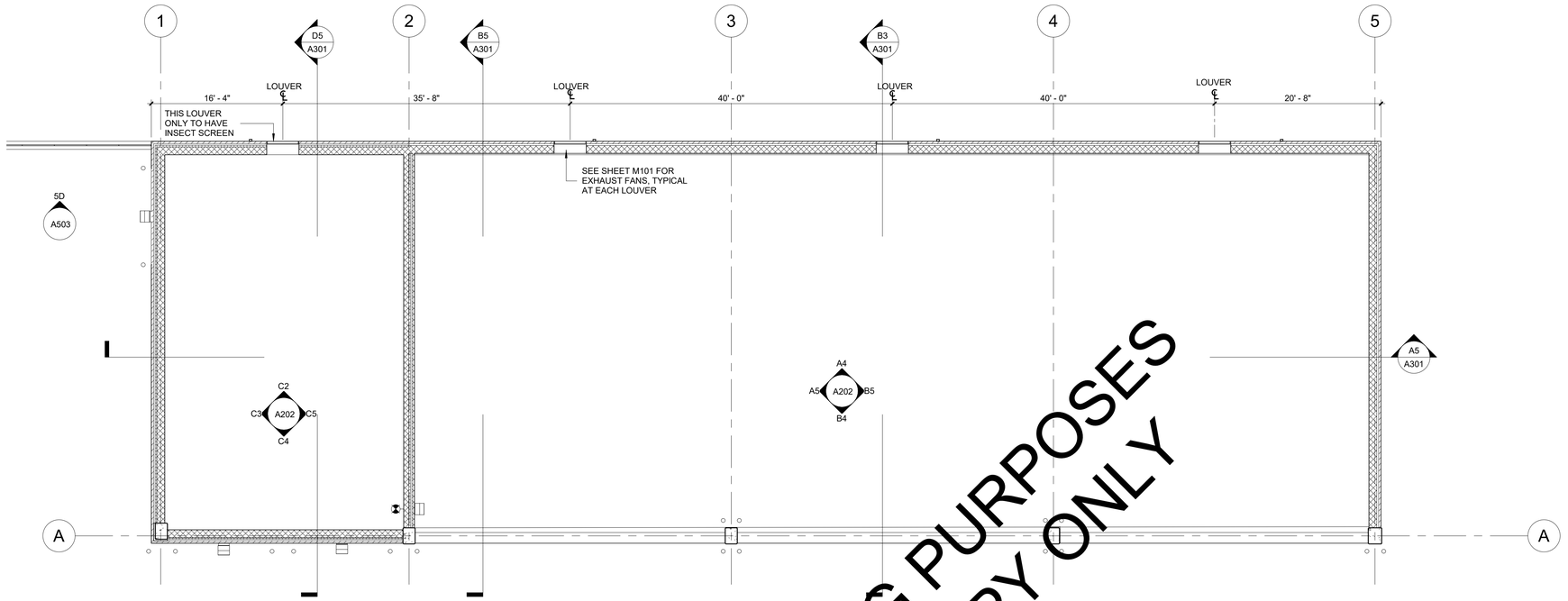
SHEET TITLE
GENERAL NOTES

S700

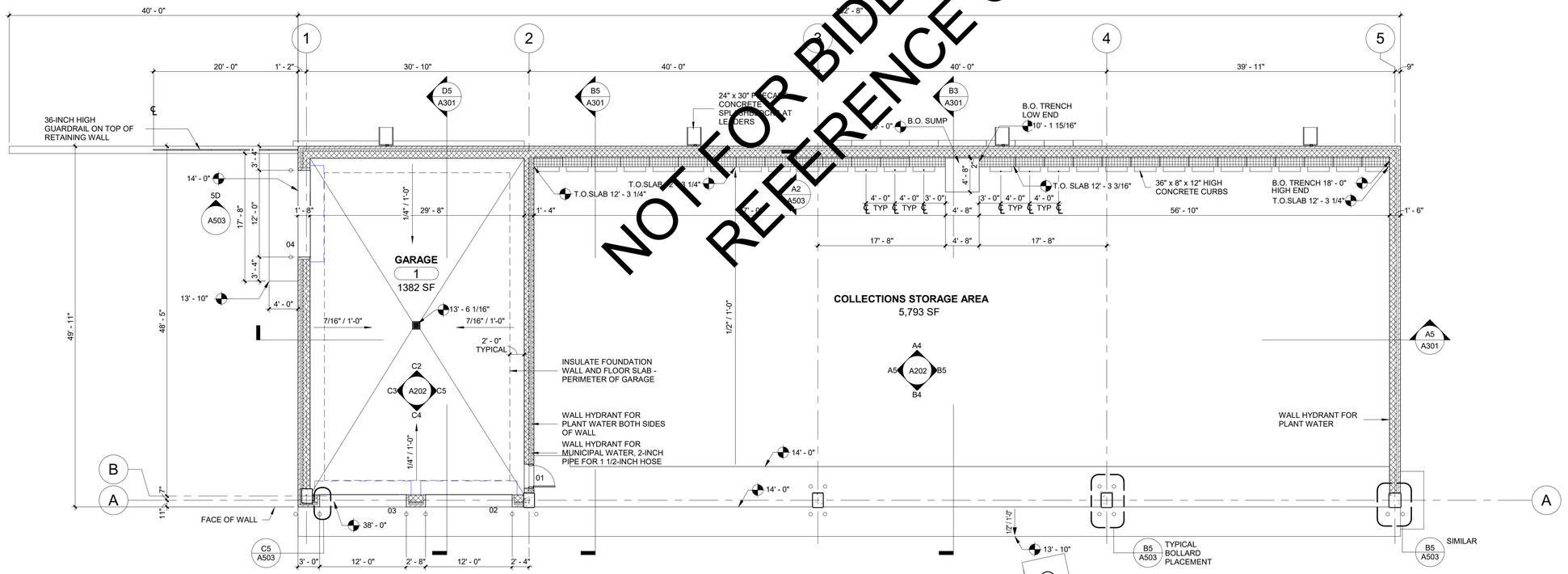


C5 FLOOR PLAN AT ELEVATION +18'-0"

1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH



A5 FLOOR PLAN AT ELEVATION +6'-0"

1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH

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FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

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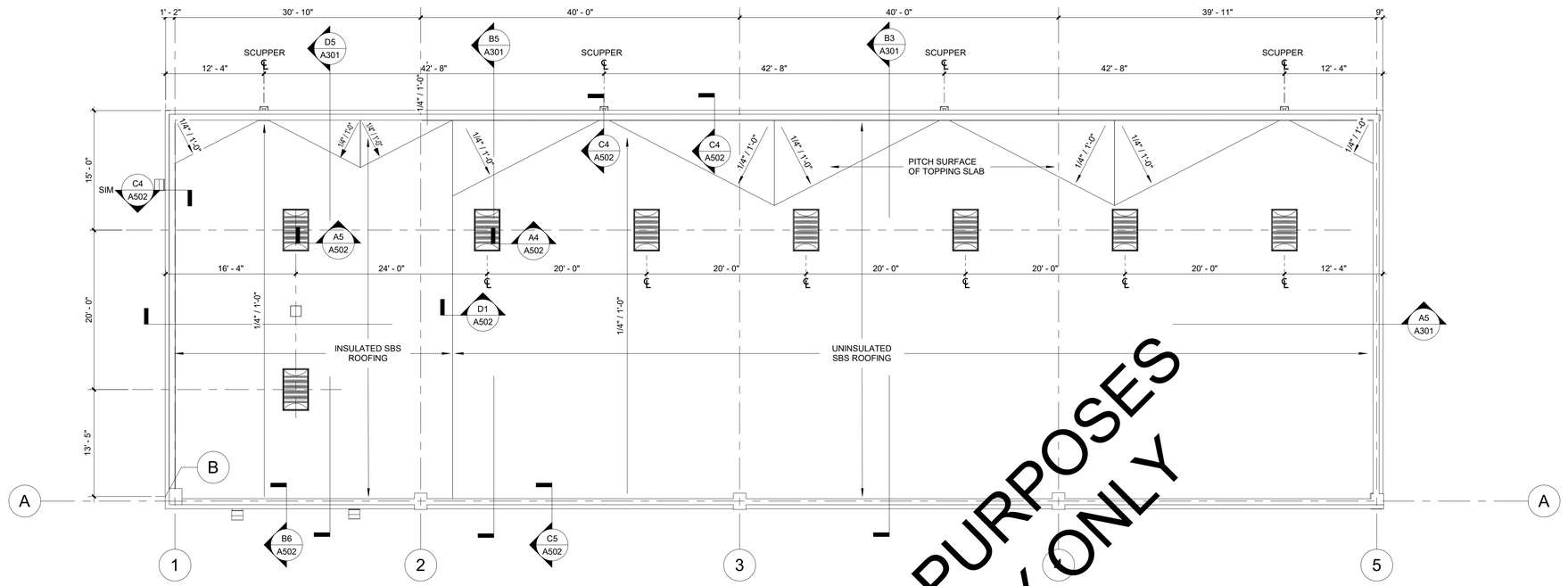
FLOOR PLANS

A111

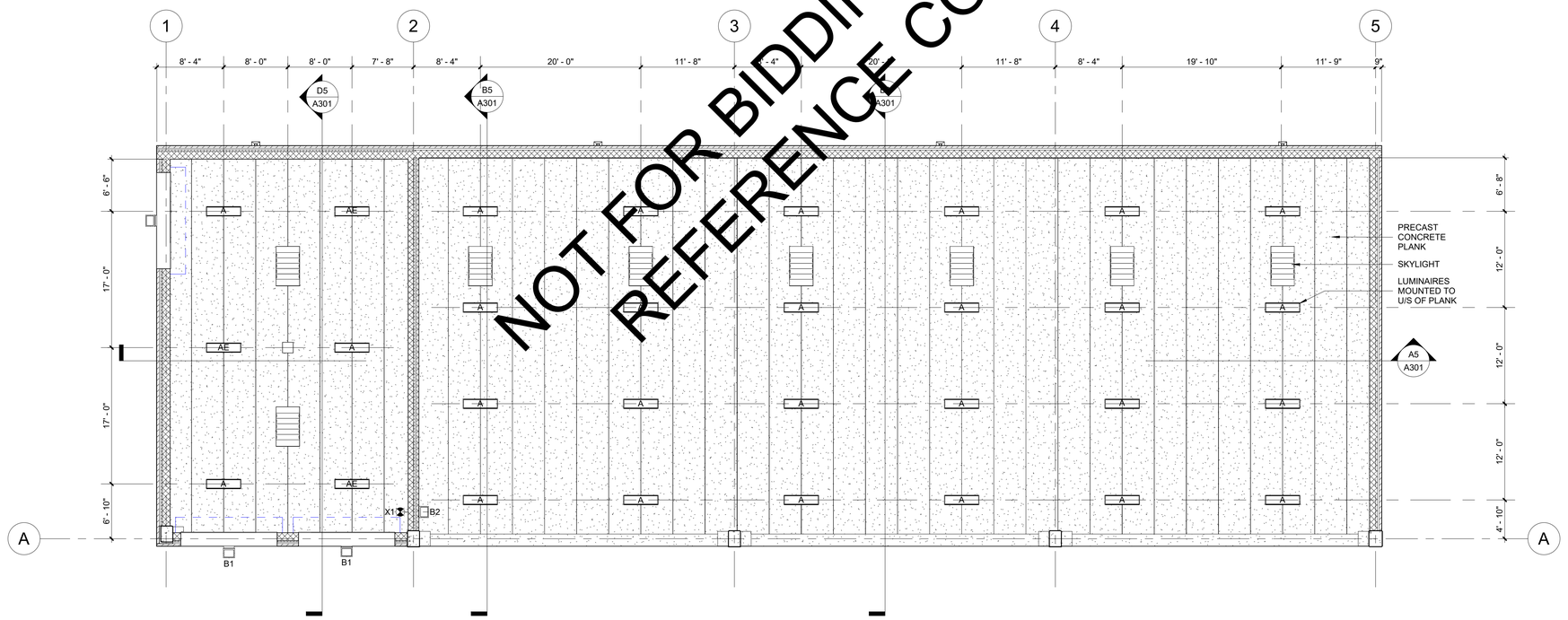


C5 ROOF PLAN

1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH



A5 REFLECTED CEILING PLAN

1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH

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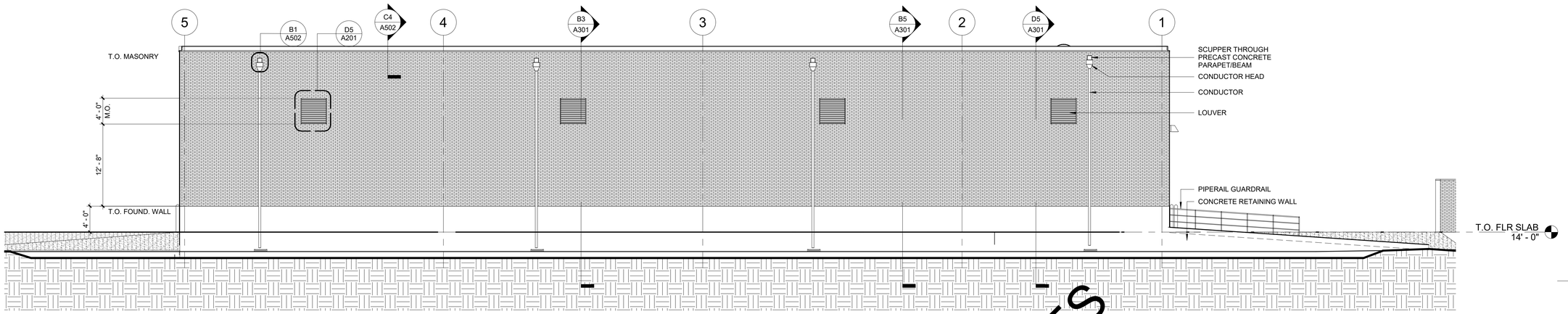
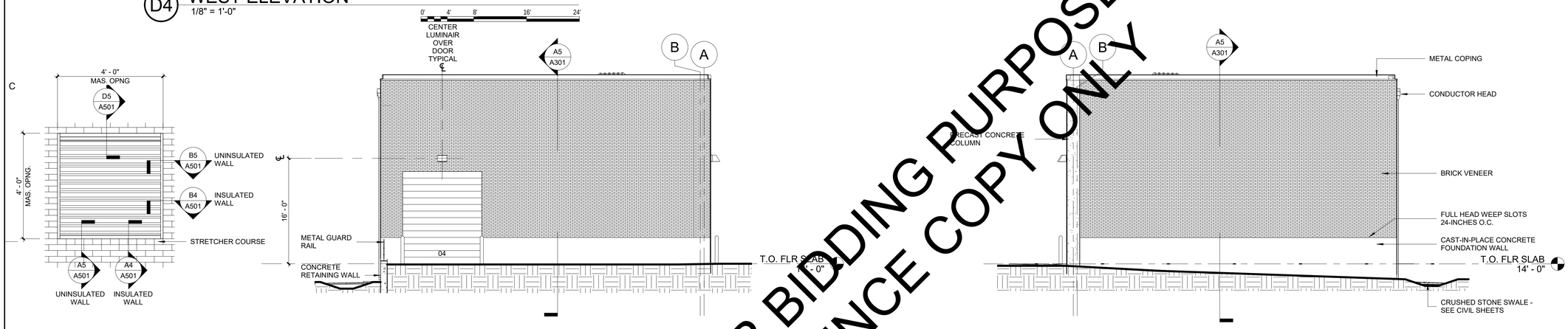
REFLECTED CEILING AND ROOF PLANS

A112



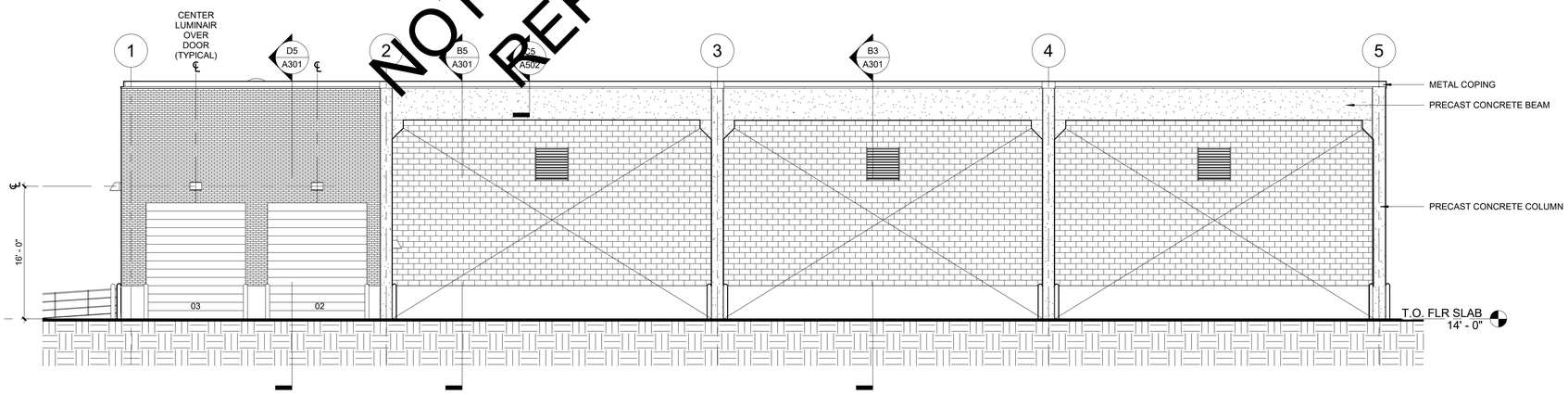
D4 WEST ELEVATION
1/8" = 1'-0"



D5 LOUVER ELEVATION
1/2" = 1'-0" 6" 1' 2' 4' 6"

B4 SOUTH ELEVATION
1/8" = 1'-0" 0' 4' 8' 16'

B2 NORTH ELEVATION
1/8" = 1'-0" 0' 4' 8' 16' 24'



A4 EAST ELEVATION
1/8" = 1'-0" 0' 4' 8' 16' 24'

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EXTERIOR ELEVATIONS

A201

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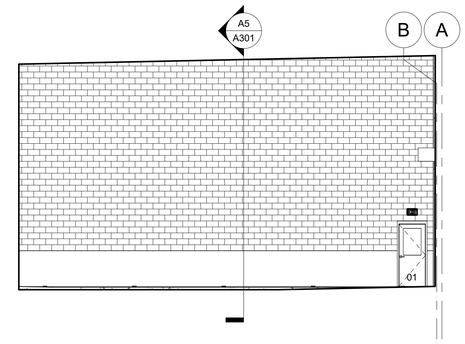
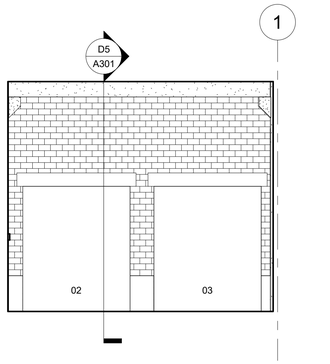
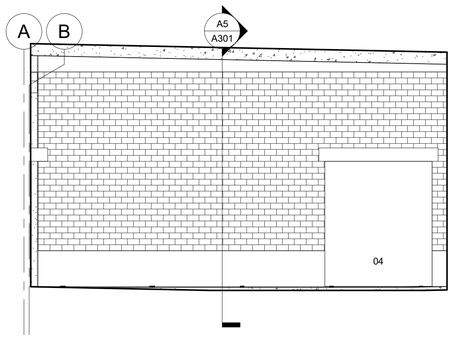


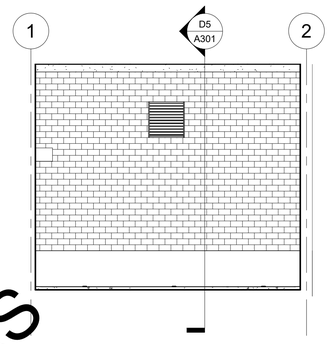
C5 GARAGE NORTH
1/8" = 1'-0"



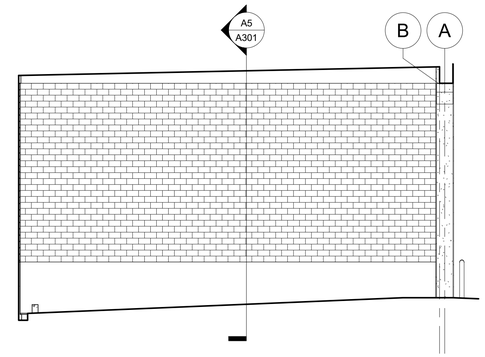
C4 GARAGE EAST
1/8" = 1'-0"



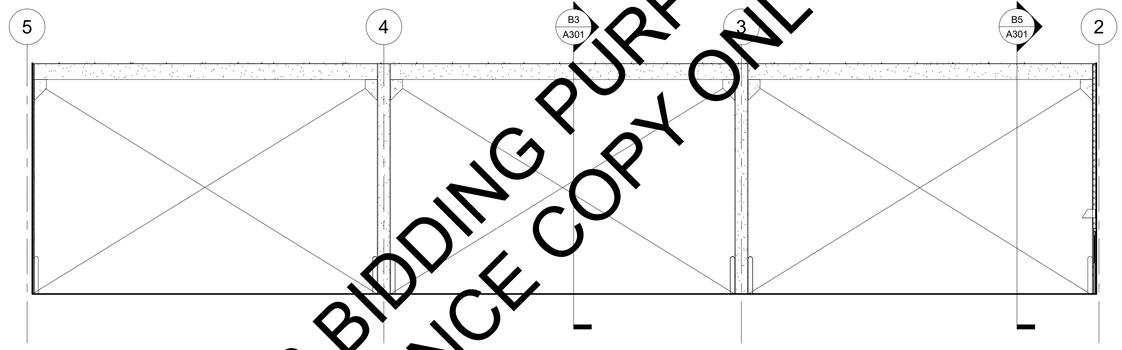
C3 GARAGE SOUTH
1/8" = 1'-0"



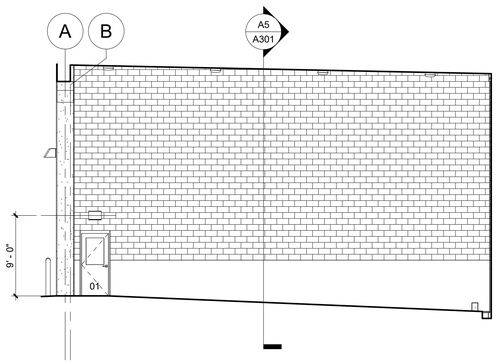
C2 GARAGE WEST
1/8" = 1'-0"



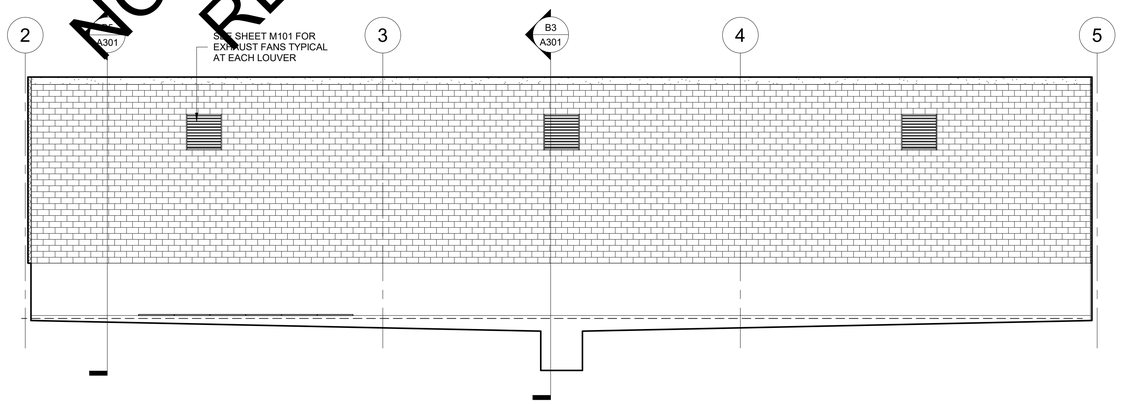
B5 INTERIOR NORTH
1/8" = 1'-0"



B4 INTERIOR EAST
1/8" = 1'-0"



A5 INTERIOR SOUTH
1/8" = 1'-0"



A4 INTERIOR WEST
1/8" = 1'-0"

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GENERAL NOTES

1. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of all Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. Where a conflict within the Contract Documents exists, the Contractor shall provide the better quality or greater quantity of work in accordance with the Architect's resolution without any increase in the Contract sum. Organization of the Specifications into divisions, sections and articles, and arrangement of sheets shall not control the Contractor in dividing the work among subcontractors, or in establishing the extent of Work to be performed by any trade.
2. REFERENCE KEY NOTES and SHEET KEY NOTES are intended to indicate and clarify the extent and requirements of the Work; they do not indicate every location or occurence of required Work. The lack of a key note to an individual item of Work will not relieve the Contractor of responsibility to execute that Work as part of the Contract when the requirement for that Work can be logically inferred by other parts of the Contract Documents
3. Do not scale drawings, except for estimation and approximation purposes.
4. This is an existing building; all conditions and critical dimensions must be field verified.

KEYNOTES

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FOR CONSTRUCTION

5/23/2022

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GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

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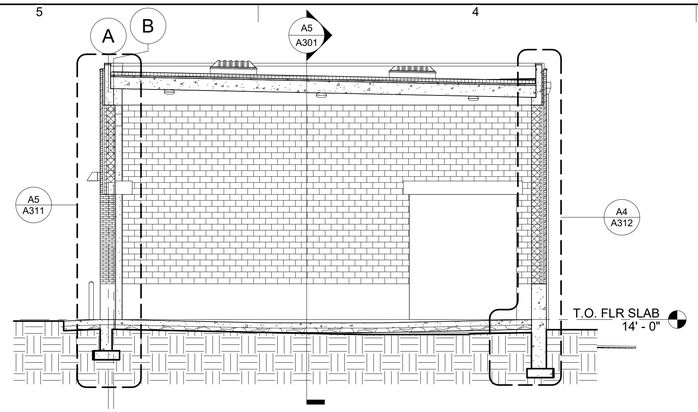
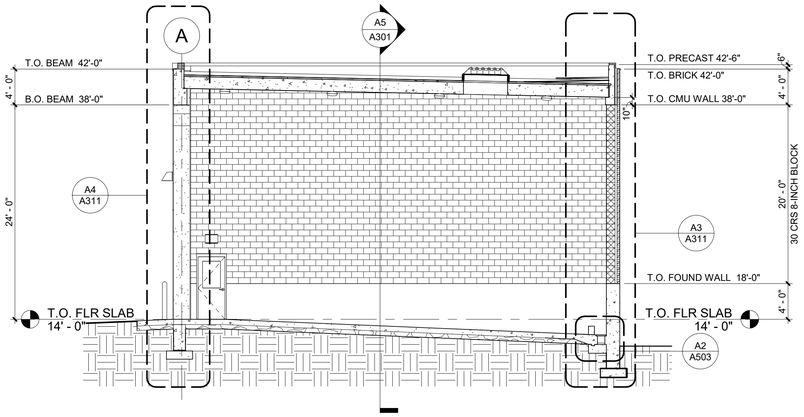
INTERIOR ELEVATIONS

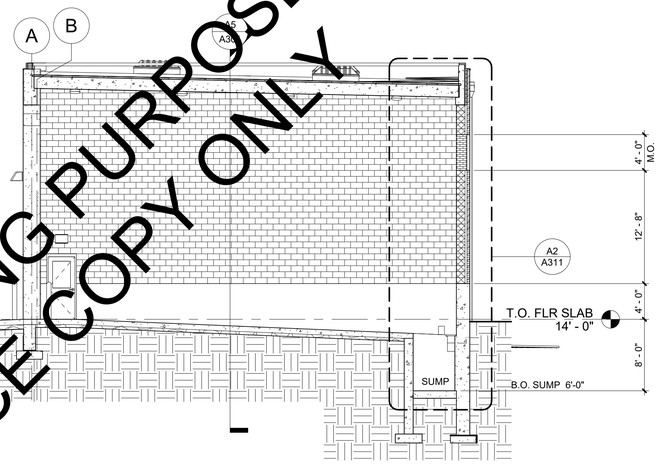
A202



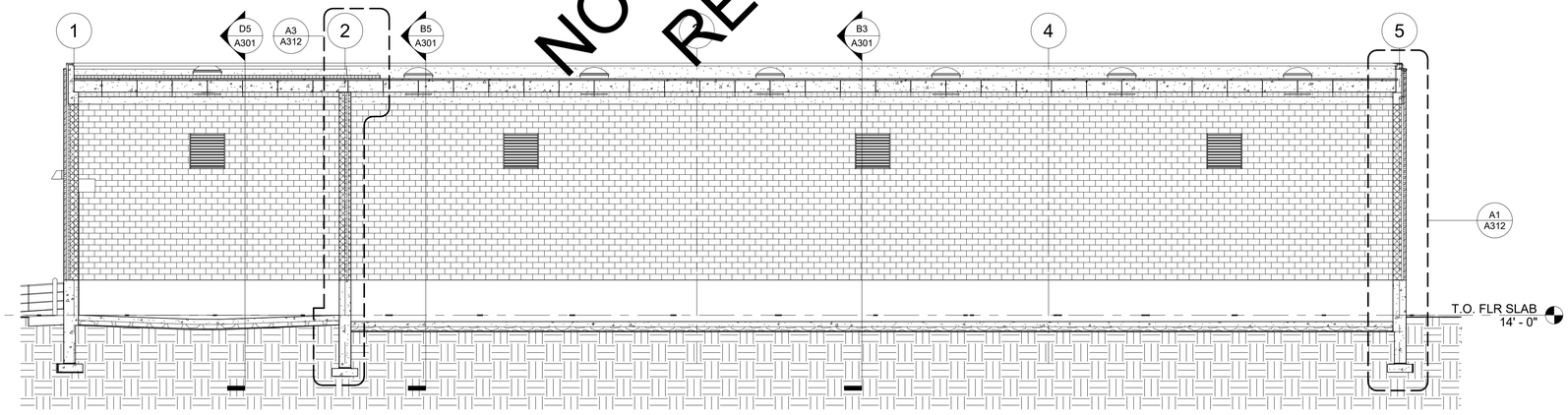
D5 CROSS SECTION THROUGH GARAGE
1/8" = 1'-0"



B5 CROSS SECTION
1/8" = 1'-0"



B3 CROSS SECTION THROUGH SUMP
1/8" = 1'-0"



A5 LATERAL SECTION
1/8" = 1'-0"

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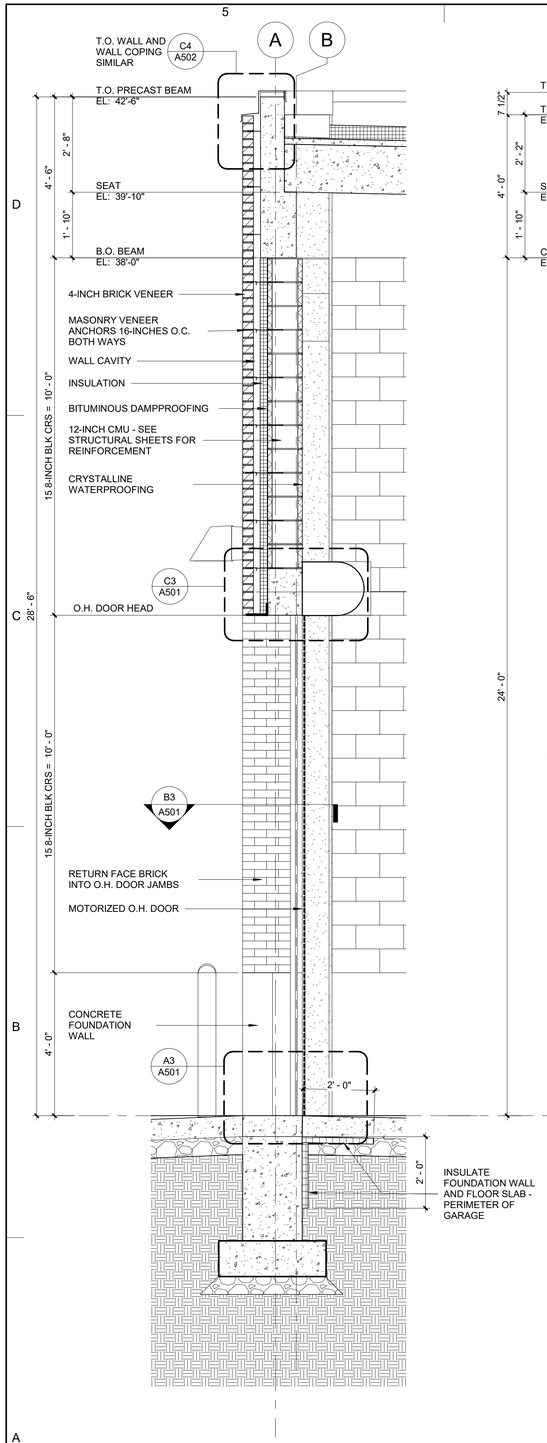
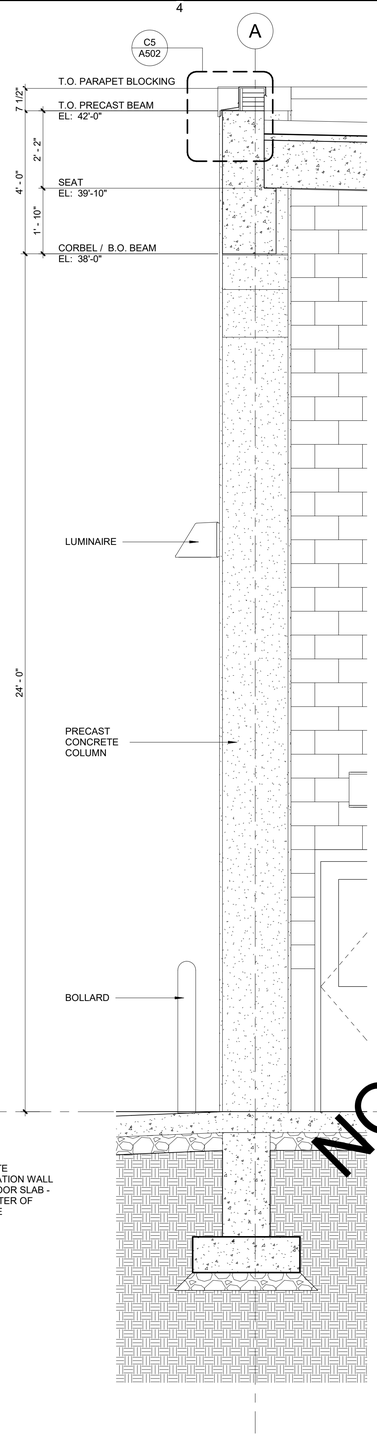
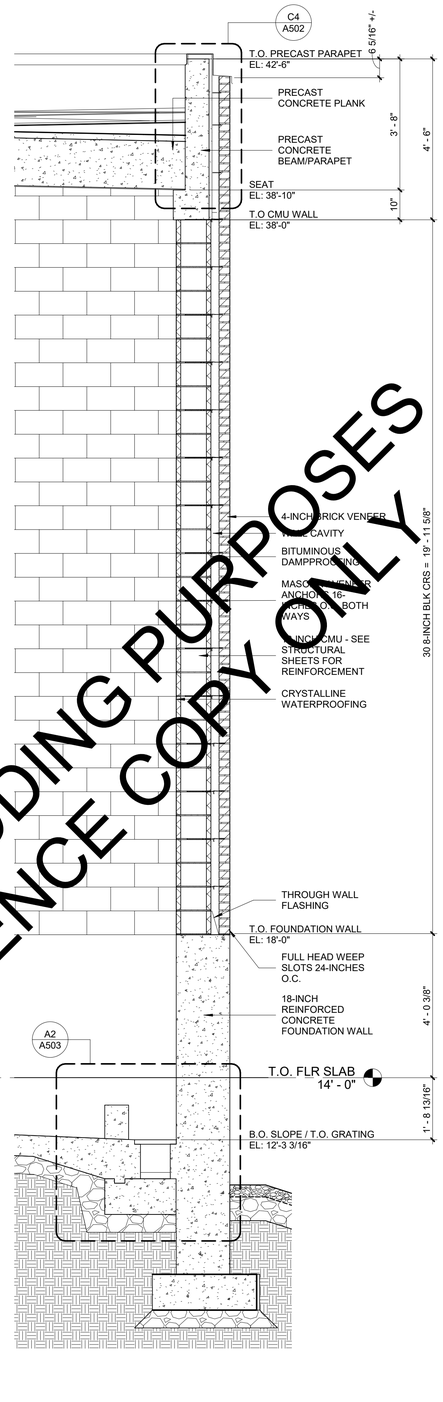
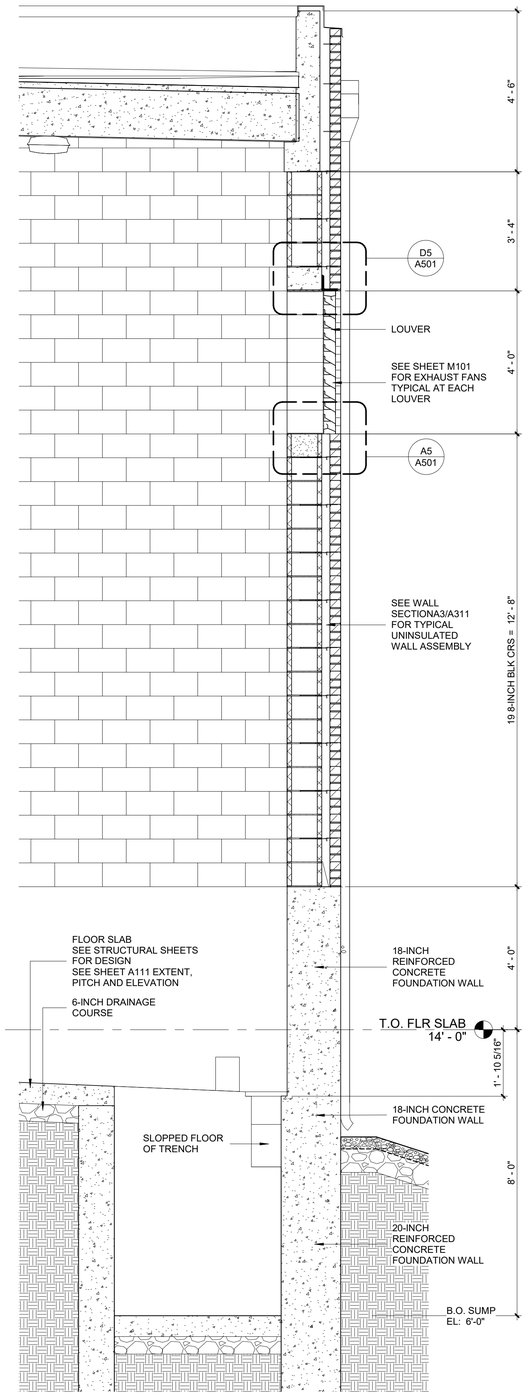
BUILDING SECTIONS

A301









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A5 EAST WALL SECTION thru O.H. DOOR
1/2" = 1'-0"

A4 EAST WALL SECTION 02
1/2" = 1'-0"

A3 WEST WALL SECTION Thru TRENCH
1/2" = 1'-0"

A2 WEST WALL SECTION Thru SUMP
1/2" = 1'-0"

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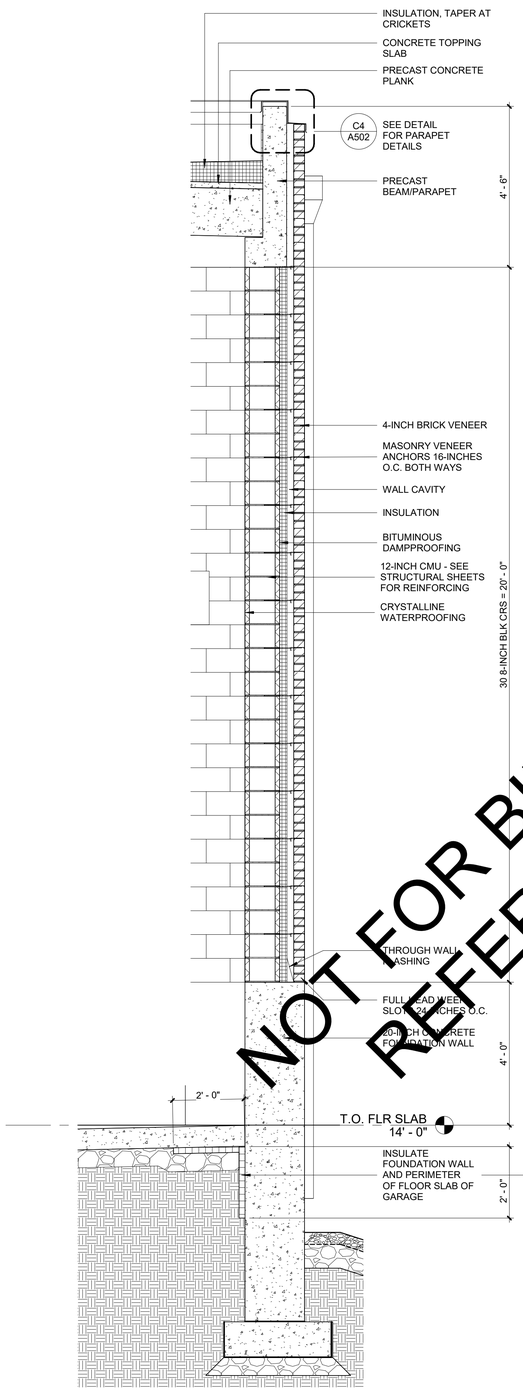
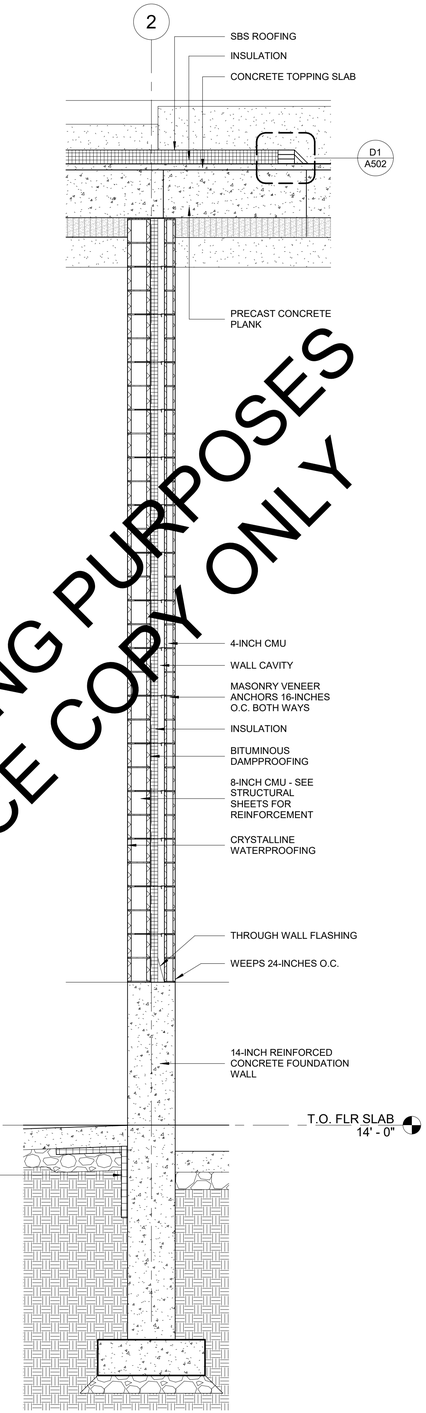
WALL SECTIONS

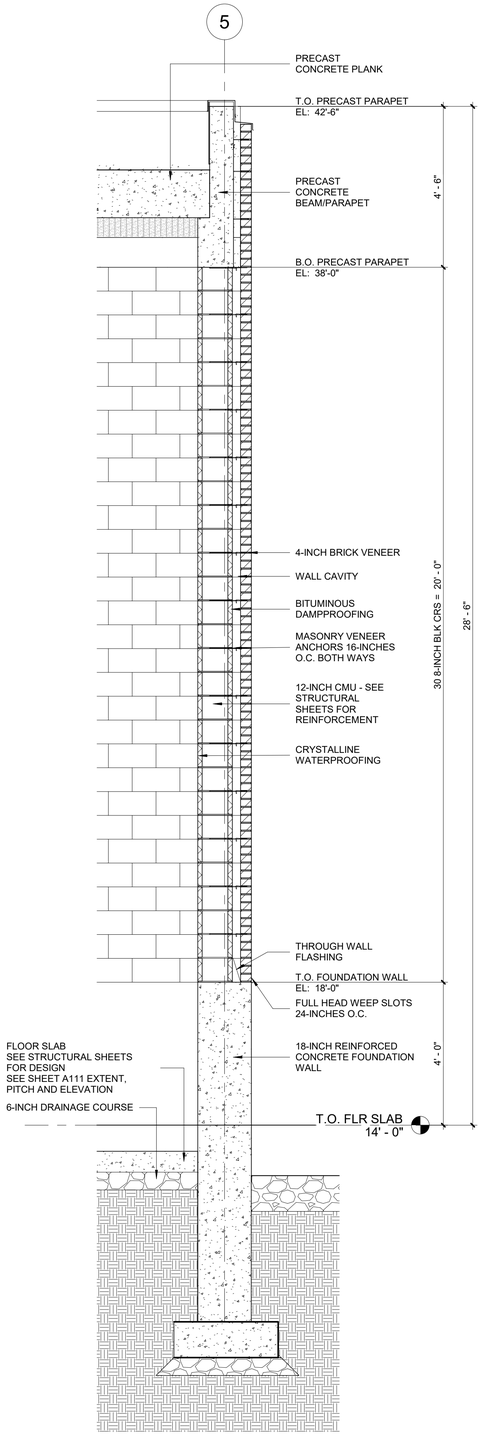
A311



A4 WEST WALL Thru GARAGE
1/2" = 1'-0"



A3 LATERAL WALL SECTION 01
1/2" = 1'-0"



A1 LATERAL WALL SECTION 02
1/2" = 1'-0"

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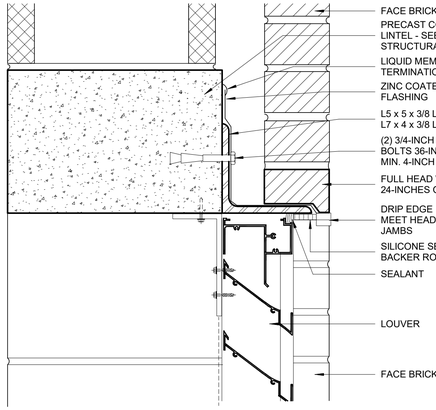
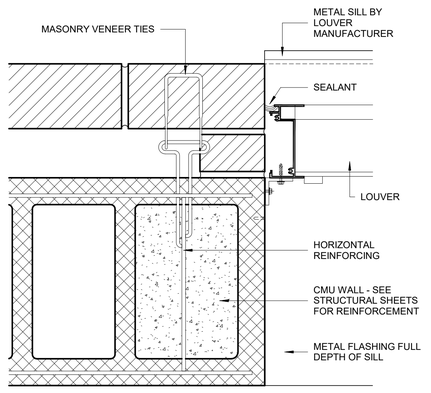
WALL SECTIONS

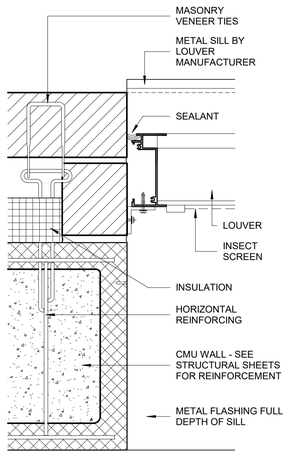
A312



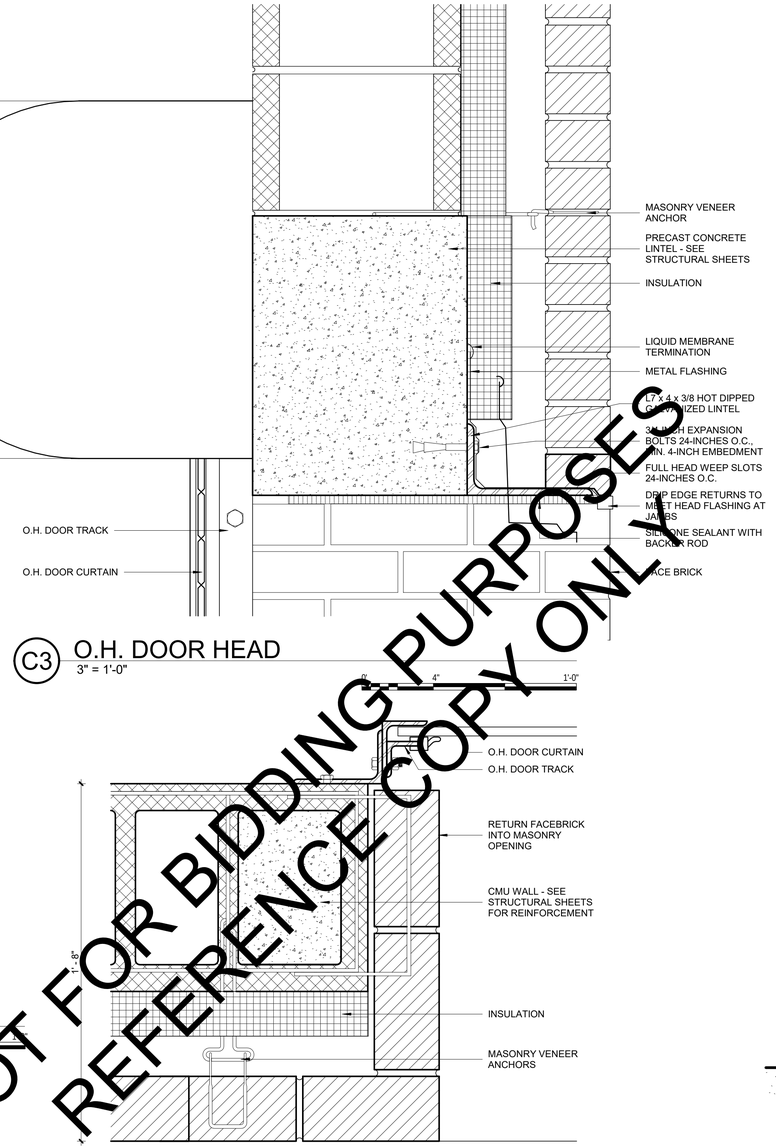
D5 LOUVER HEAD
3" = 1'-0"



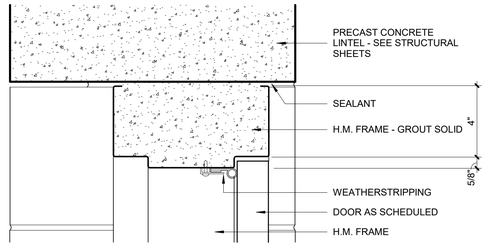
B5 LOUVER JAMB UNINSULATED WALL
3" = 1'-0"



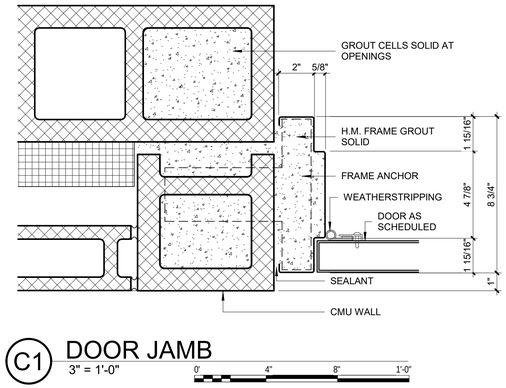
B4 LOUVER JAMB INSULATED WALL
3" = 1'-0"



C3 O.H. DOOR HEAD
3" = 1'-0"

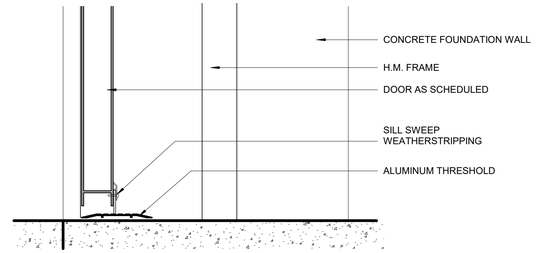


D1 DOOR HEAD
3" = 1'-0"

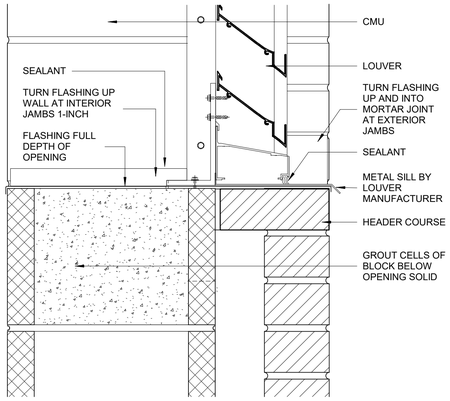


C1 DOOR JAMB
3" = 1'-0"

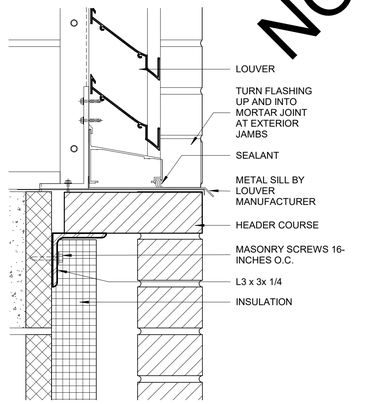
B3 O.H. DOOR JAMB
3" = 1'-0"



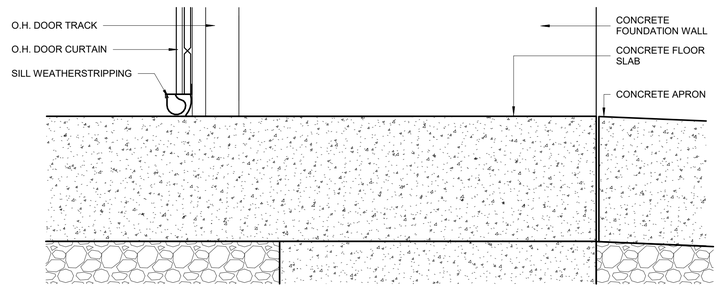
B1 DOOR SILL
3" = 1'-0"



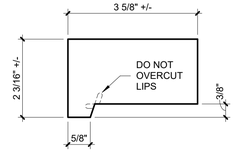
A5 LOUVER SILL SECTION UNINSULATED WALL
3" = 1'-0"



A4 LOUVER SILL PARTIAL SECTION -INSULATED WALL
3" = 1'-0"



A3 O.H. DOOR SILL
3" = 1'-0"



A1 TYPICAL LIP BRICK
6" = 1'-0"

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ROGER K. DUSENBERY JOSEPH S. ZELSKI

FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

PROJECT NO: SSF 2018-01
CWA PROJECT NO.: 1801
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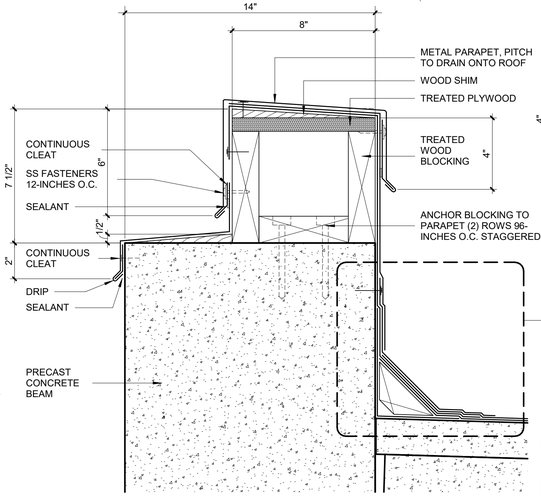
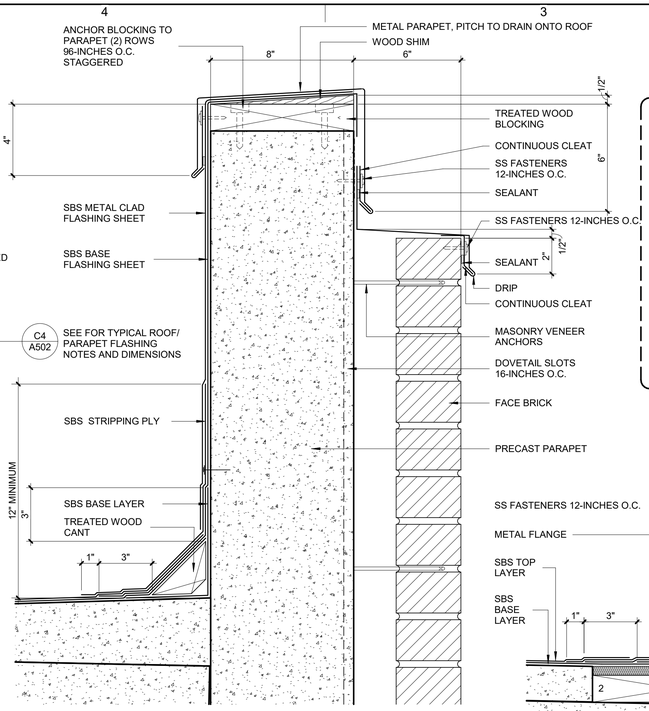
SHEET TITLE

OPENING DETAILS

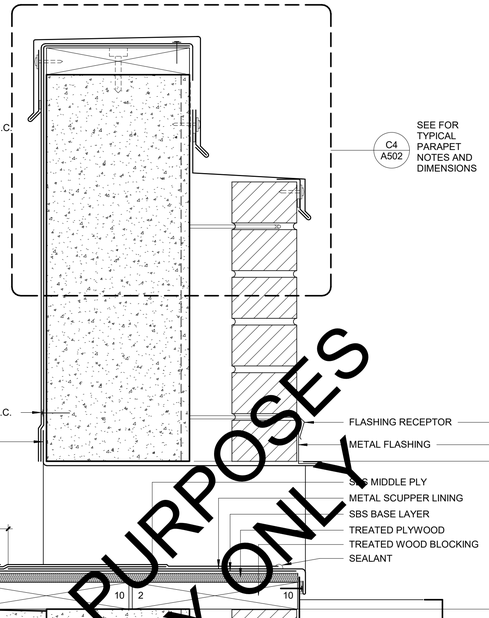
A501



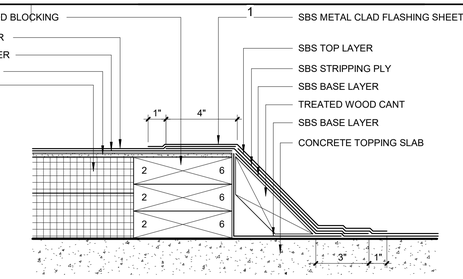
C5 EAST PARAPET SECTION - NORTH
3" = 1'-0"



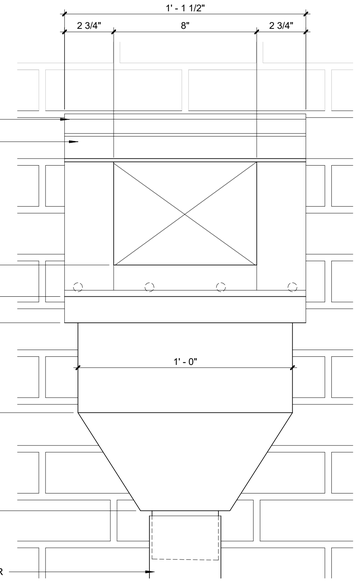
C4 WEST PARAPET SECTION
3" = 1'-0"



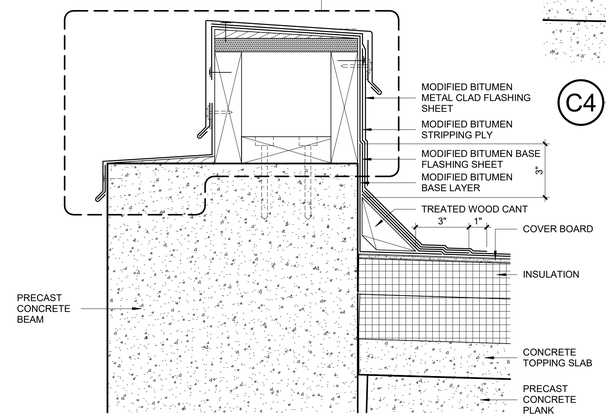
B3 SCUPPER SECTION - UNINSULATED ROOF
3" = 1'-0"



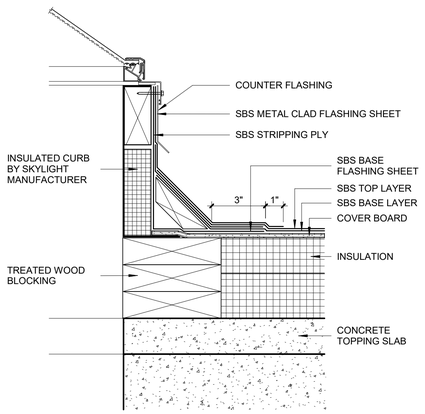
D1 ROOF STEP DETAIL
3" = 1'-0"



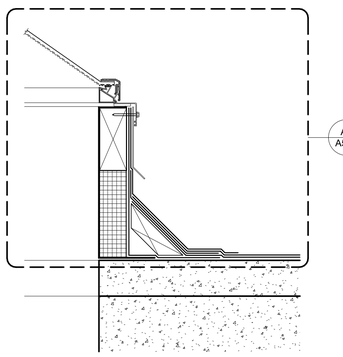
B1 SCUPPER ELEVATION
3" = 1'-0"



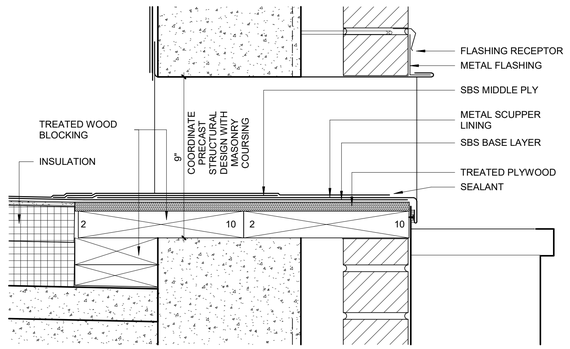
B6 EAST PARAPET SECTION - SOUTH
3" = 1'-0"



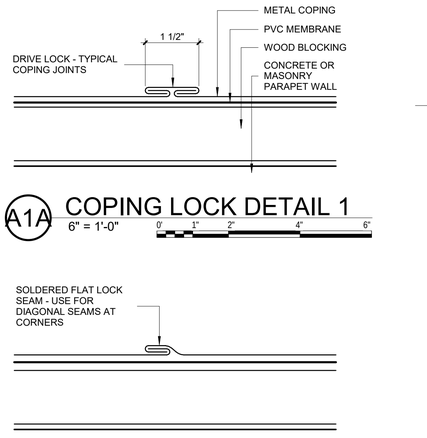
A5 SKYLIGHT CURB SECTION
3" = 1'-0"



A4 SKYLIGHT CURB SECTION
3" = 1'-0"



A3 SCUPPER SECTION - INSULATED ROOF
3" = 1'-0"



A1A COPING LOCK DETAIL 1
6" = 1'-0"

A1 COPING LOCK DETAIL 2
6" = 1'-0"

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FOR CONSTRUCTION

5/23/2022

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GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
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MARK	DATE	DESCRIPTION

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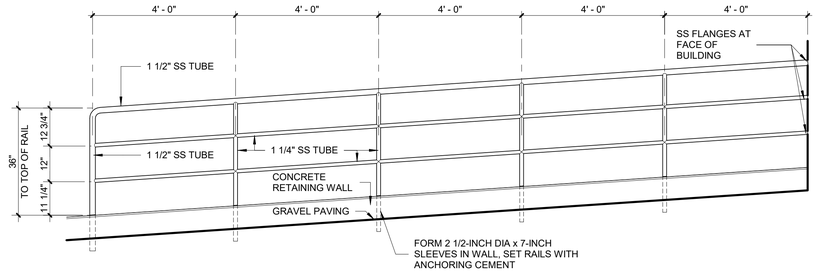
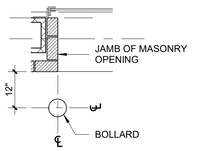
SHEET TITLE
ROOF DETAILS

A502



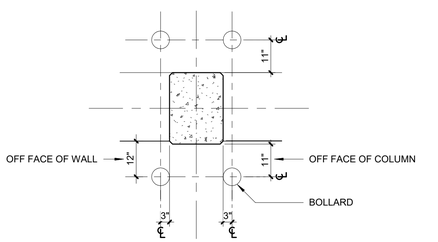
5D EXTERIOR GUARDRAIL ELEVATION Looking WEST

1/2" = 1'-0"



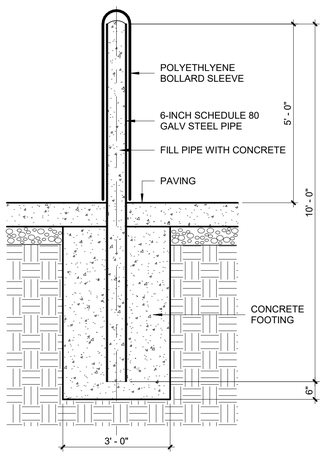
C5 TYPICAL BOLLARD LOCATION AT O.H. DOOR

1/2" = 1'-0"



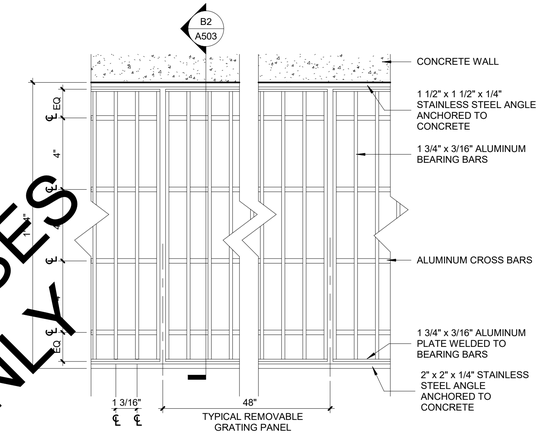
B5 TYPICAL BOLLARD LOCATION

1/2" = 1'-0"



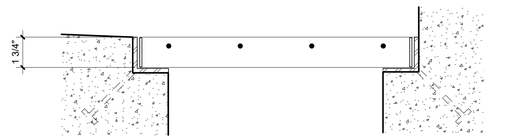
A5 BOLLARD SECTION

1/2" = 1'-0"



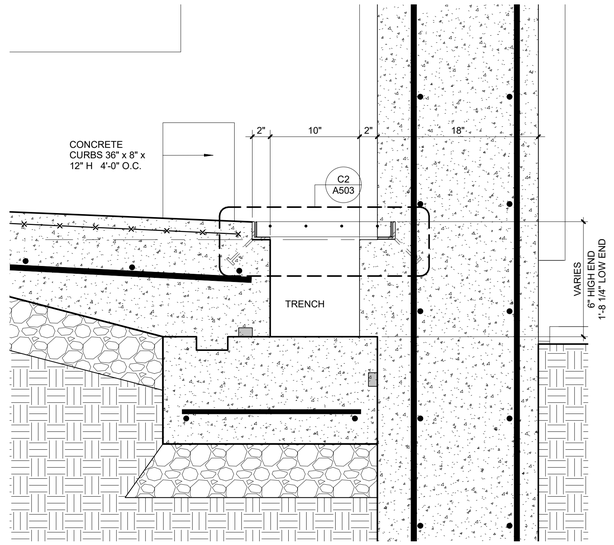
C2 TRENCH GRATING PLAN DETAIL

3" = 1'-0"



B2 TRENCH GRATING SECTION

3" = 1'-0"



A2 TRENCH SECTION

1 1/2" = 1'-0"

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345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

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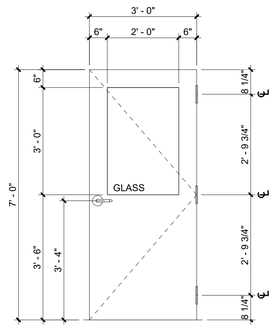
DETAILS

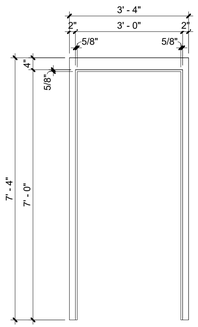
A503

DOOR SCHEDULE

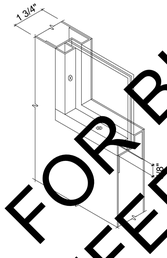
DOOR NUMBER	ROOM	DBL. LEAF DOOR	SLIDING DOOR	OVERHEAD DOOR	DOOR									FRAME								FIRE RATING (Hours)	NOTES
					SIZE (in inches)			TYPE	SPEC. SECTION	MATERIAL	FINISH	GLAZING		TYPE	SPEC. SECTION	MATERIAL	FINISH	DETAIL/SHEET NUMBER					
					WIDTH	HEIGHT	THICK.											HEAD DETAIL	JAMB DETAIL	MULLION DETAIL	THRESHOLD DETAIL		
01	GARAGE				36"	84"	1 3/4"	A	08 1113	GALV. STEEL	P-1	GLASS, CLEAR LAMINATED		1	08 1113	GALV. STEEL	P-1	D1/A501	C1/A501	-	B1-A501	0	
02	GARAGE			X	168"	168"	1"	B	08 3323	GALV. STEEL	POWDER COAT	-		-	08 3323	GALV. STEEL	P-1	C3/A501	B3/A501	-	A3/A501	0	
03	GARAGE			X	168"	168"	1"	B	08 3323	GALV. STEEL	POWDER COAT	-		-	08 3323	GALV. STEEL	P-1	C3/A501	B3/A501	-	A3/A501	0	
04	GARAGE			X	168"	168"	1"	B	08 3323	GALV. STEEL	POWDER COAT	-		-	08 3323	GALV. STEEL	P-1	C3/A501	B3/A501	-	A3/A501	0	



DOOR TYPE A



FRA ME TYPE 1



1 08 DOOR GLAZING DETAIL
3" = 1'-0"

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SHEET TITLE
SCHEDULES

A601

PLUMBING SPECIFICATIONS

1.01 SCOPE OF WORK

A. The work to be done under this Division of the specifications shall include the furnishing of all equipment, supplies, supervision, and all materials not specifically mentioned ready for use, all plumbing systems, equipment and associated items.

1. Plumbers work to start 6" above floor. See floor plan for distribution.
2. All hose bibbs as indicated.
3. All waste piping to points indicated.
4. Insulation of all new cold water piping.
5. Sanitary to point indicated.

1.02 SOIL, WASTE AND VENT PIPING

A. All soil and waste piping below grade shall be PVC plastic piping. Fittings on waste and soil lines shall be drainage pattern.

B. All soil and waste piping above grade shall be PVC.

C. Plastic pipe and fittings shall conform to commercial standards CS 272-65 (PVC) and ASTM D-2661. Exposed lavatory waste piping shall be C.P. brass.

D. Run all soil, waste and vent piping shown or required by code. Piping shown is a minimum and in accordance with state code.

E. Flash all vents through roof.

F. Cleanouts shall be installed at base of all stacks, at all changes of direction, and long lines at maximum 50 ft. intervals.

G. Gas piping shall be black iron with malleable fittings or trac-pipe.

1.03 INTERIOR WATER PIPING

A. All domestic water piping above ground shall be Type "L" copper tubing with sweat type fittings, and all joints shall be made 95-5 solder or

1.04 INTERIOR WATER VALVES

A. Install all globe, cocks, check, etc., valves as shown, all others to be ball type. All valves shall be high quality, equal to Jamesbury "Clincher" or Apollo.

1.05 INSULATION

A. Insulate all new hot, cold and recirculating water piping with 1" thick heavy density fiberglass 25 ASJ with vapor barrier and lap adhesive jacket. Insulation on fittings shall be covered with fiberglass reinforcing cloth and fitting mastic.

1.06 EXAMINATION OF SITE

A. The Contractor shall be assumed to have visited the premises and noted all pertinent facts and details including the conditions under which the work must be carried out. No allowance will be made for failure to have done so.

B. Each bidder shall thoroughly familiarize himself with the requirements and intent of all drawings of all Divisions of the specifications so as to include all of the heating, ventilating and plumbing work intended.

1.07 INSURANCE

A. This Contractor shall be fully insured, including Workmen's Compensation, Public Liability for injury and property damage. Proof of such insurance shall be submitted to the Owner before signing the contract to proceed with the work.

1.08 CODES

A. All work shall comply with the requirements of the National Board of Fire Underwriters, the National Plumbing Code, the Building Department, Fire Department, local utilities and all local and state codes which apply, and the Fire Insurance Rating Organization.

1.09 PERMITS

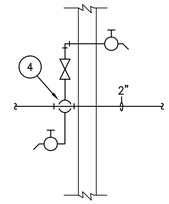
A. This Contractor shall obtain all permits required for this work.

1.10 GUARANTEE

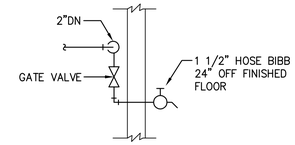
A. All equipment, materials and workmanship shall be guaranteed for a period of one year from date of acceptance, by Owners, of the entire installation.

LEGEND

1. FLOOR DRAIN BY OTHERS
2. CITY WATER AND PLANT WATER TO BUILDING BY OTHERS. PLUMBERS WORK TO START 6" ABOVE FLOOR
3. RUN BELOW FLOOR
4. 2" DOWN TO 1 1/2" HOSE BIBB, MOUNT 24" OFF FINISHED FLOOR. SEE 1 1/2" HOSE BIBB DETAIL "B"
5. 2" MUNICIPAL WATER DOWN ON WALL. TERMINATE 24" OFF FINISHED FLOOR. SEE 1 1/2" HOSE BIBB DETAIL "A"
6. RUN EXPOSED HIGH AS POSSIBLE
7. CONNECT TO OIL SEPARATOR BY OTHERS
8. CONNECT TO B.O. SUMP
9. PROVIDE INSULATION OVER HEAT TAPE



1 1/2" HOSE BIBB DETAIL "B"
NTS



1 1/2" HOSE BIBB DETAIL "A"
NTS

MINIMUM CONNECTION SCHEDULE

FIXTURE	HOT	COLD	WASTE	VENT
WATER CLOSET	–	1/2"	4"	2"
LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
JANITORS SINK	1/2"	1/2"	1 1/2"	1 1/2"
KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/2"
LAUNDRY MATE	1/2"	1/2"	2"	1 1/2"
CLOTHES WASHER	1/2"	1/2"	2"	1 1/2"
URINAL	–	3/4"	2"	1 1/2"
SHOWER VALVE	1/2"	1/2"	–	–

PLUMBING ABBREVIATIONS

C.W.	COLD WATER
H.W.	HOT WATER
W.C.	WATER CLOSET
LAV.	LAVATORY
D.W.	DISHWASHER
K.S.	KITCHEN SINK
W.H.	WALL HYDRANT
CW.	CLOTHES WASHER
S.V.	SHOWER VALVE
R.D.	ROOF DRAIN
R.L.	ROOF LEADER
C.O.	CLEAN OUT
F.D.	FLOOR DRAIN

PLUMBING SYMBOLS LIST

— C —	COLD WATER
— H —	HOT WATER
	PITCH DIRECTION
— S —	SOIL AND WASTE
— — —	VENT
	GATE VALVE
	CHECK VALVE
	GAS COCK
	FLOW DIRECTION
	SHOWER VALVE
— G —	GAS PIPING
	STORM PIPING
	RECIRCULATING LINE
— PD —	PUMPED DISCHARGE
	TEMPERED HOT WATER
— C —	CONDENSATE DRAIN

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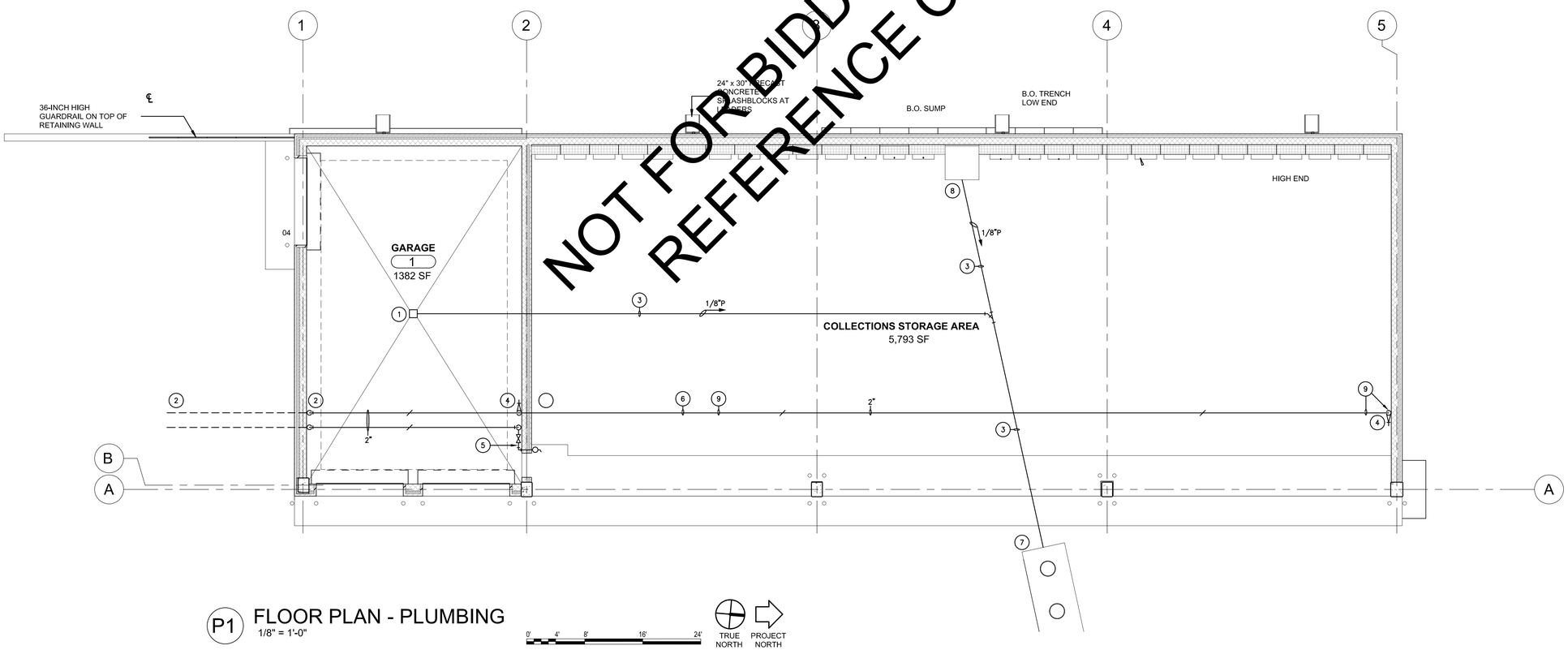

P1 FLOOR PLAN - PLUMBING
1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH

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FOR CONSTRUCTION

5/23/2022

ESWPAF COLLECTIONS MAINTENANCE FACILITY

GNHWPCA PROJECT NO: SSF 2018-01

EAST SHORE WATER POLLUTION ABATEMENT FACILITY
345 EAST SHORE PARKWAY, NEW HAVEN, CONNECTICUT 06512

MARK	DATE	DESCRIPTION

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FLOOR PLAN
PLUMBING

P101

HVAC SPECIFICATIONS

1.01 SCOPE OF WORK

A. Provide all labor, materials, and equipment required to produce a complete heating, ventilating, and air conditioning system as indicated on the drawings and herein specified, including but not limited to the following:

1. Furnish and install electric unit heater and exhaust fans.
2. All exhaust ductwork including hangers, louvers and motorized dampers.
3. Balancing and adjusting to ± 10%, by and independant agency.
4. Seismic bracing as required.
5. Carbon monoxide and nitrogin dioxide control system.
7. All temperature control wiring of units and thermostats.
8. Operation and Maintenance Manuals.

1.02 INSURANCE

A. This Contractor shall be fully insured, including Workmen's Compensation, Public Liability for injury and property damage. Proof of such insurance shall be submitted to the Owner before signing the Contract to proceed with the work.

1.03 CODES

A. All work shall comply with the requirements of the National Board of Fire Underwriters, the National Electrical Code, the Building Department, Fire Department, local utilities and all local and state codes which apply.

1.04 PERMITS

A. This Contractor shall obtain and pay for all permits required for this work.

1.05 GUARANTEE

A. All equipment, materials, and workmanship shall be guaranteed for a period of one year from date of acceptance, by the Owner of the entire installation.

1.06 EXAMINATION OF SITE

A. The Contractor shall be assumed to have visited the premises and noted all pertinent facts and details, including the conditions under which the work must be carried out, and no allowances will be made for failure to have done so.

B. Each bidder shall thoroughly familiarize himself with the requirements and intent of all drawings of all Divisions of the Specifications so as to include all of the heating, ventilating, and plumbing work intended.

1.07 AIR DISTRIBUTION

A. Furnish and install all ductwork for the heating, ventilating, and air conditioning system as shown on drawings.

B. All ductwork shall be constructed of gauges as called for in the "Duct Manual and Sheet Metal for Ventilating Air-Conditioning Systems" and as recommended by the ASHRAE.

C. Insulate all air conditioning supply, return and outside air ductwork with 2" fiberglass duct wrap where concealed.

D. Provide duct turns in ducts at all changes of direction where space does not permit long radius elbows.

E. Furnish and install hangers, brackets, and supports for all sheet metal work. No wire, chains, or perforated metal bands will be permitted in any part of the work.

F. Furnish sheet metal coordination shop drawings at 1/4" = 1'-0" scale. Include all required offsets and transitions to avoid pipes, lights, conduits, or obstructions.

G. Provide volume dampers at all take-off branches.

H. Seal all ductwork air tight.

EQUIPMENT SPECIFICATIONS

EUH ELECTRICAL UNIT HEATER SHALL BE EQUAL TO QMARK, MODEL MUH304F, RATED 30KW, 480/3/60. MOTOR SHALL BE 1/4HP, 115/1/60. FURNISH WITH THERMOSTAT, POINT SUSPENSION KIT, THERMOSTAT GUARD WITH LOCKING COVER.

EF-1 INLINE EXHAUST FAN SHALL BE EQUAL TO GREENHECK MODEL NO. BSQ180, RATED 3616 CFM 0.5"S.P. 1037 RPM WITH 3/4HP, 480/3/60 MOTOR. FURNISH WITH MODEL GRS24 ROOF CAP ON A 12" HIGH ROOF CURB.

EF-2,3,4 SIDEWALL EXHAUST FAN SHALL BE EQUAL TO GREENHECKMODEL NO. SE2-18-430-B4, RATED 2084 CFM @ .20"S.P. WITH 1/4HP, 115/1/60. FURNISH WITH BACKDRAFT DAMPER MODEL WD320, WALL COLLAR AND MOTOR SIZE GUARD.

GARAGE CARBON MONOXIDE AND NITROGEN DIOXIDE SYSTEMS SHALL BE EQUAL TO HONEYWELL MODEL E3POINT301C MULTI-GAS DETECTION AND CONTROL SYSTEM. PROVIDE TWO SENSORS TO DETECT CARBON MONOXIDE GAS LOCATED 5'-0" ABOVE FINISHED FLOOR. PROVIDE TWO SENSORS TO DETECT NITROGEN GAS LOCATED 26'-0" ABOVE FINISHED FLOOR. SENSORS SHALL BE FURNISHED BY THE MANUFACTURER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INCLUDE RELAY FOR EXHAUST FAN AND MOTORIZED DAMPER INTERLOCK. PANEL TO BE 120/1/60. COORDINATE INSTALLATION WITH MANUFACTURER.

STORAGE AREA CARBON MONOXIDE CONTROL SHALL BE THREE HONEYWELL E3POINT-CO STAND ALONE SINGLE SENSORS WITH SPLASH GUARD ENCLOSURES.

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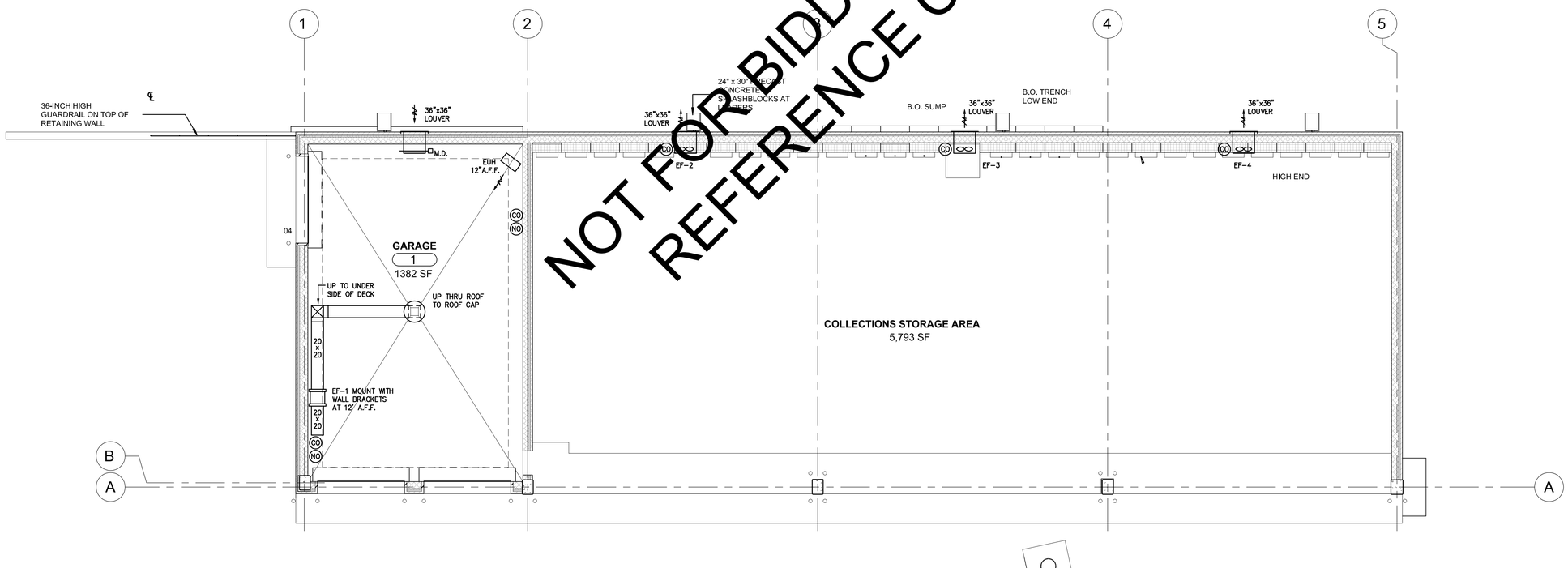

M1 FLOOR PLAN - MECHANICAL
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0' 4' 8' 16' 24'

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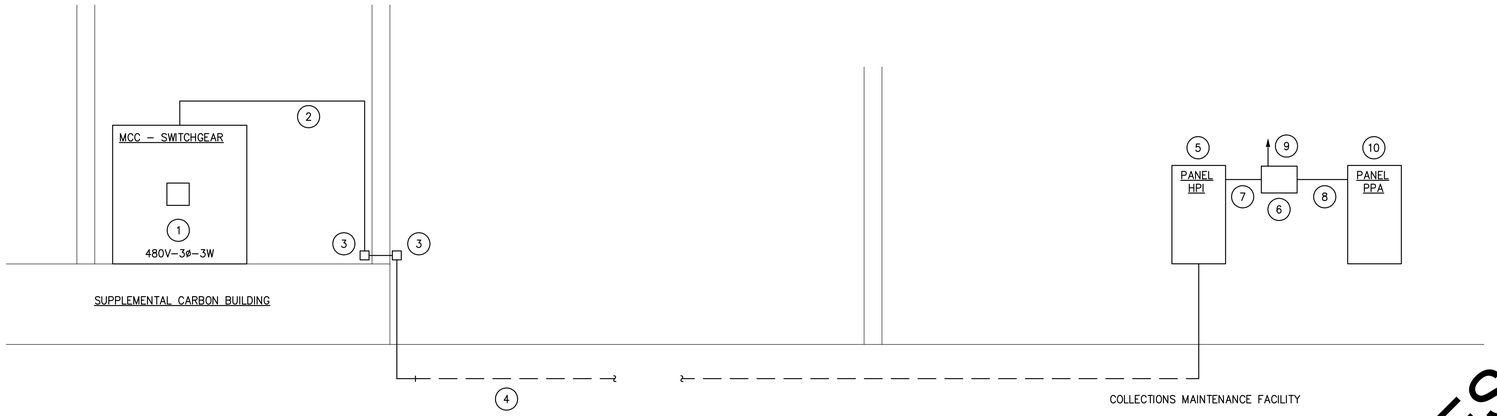
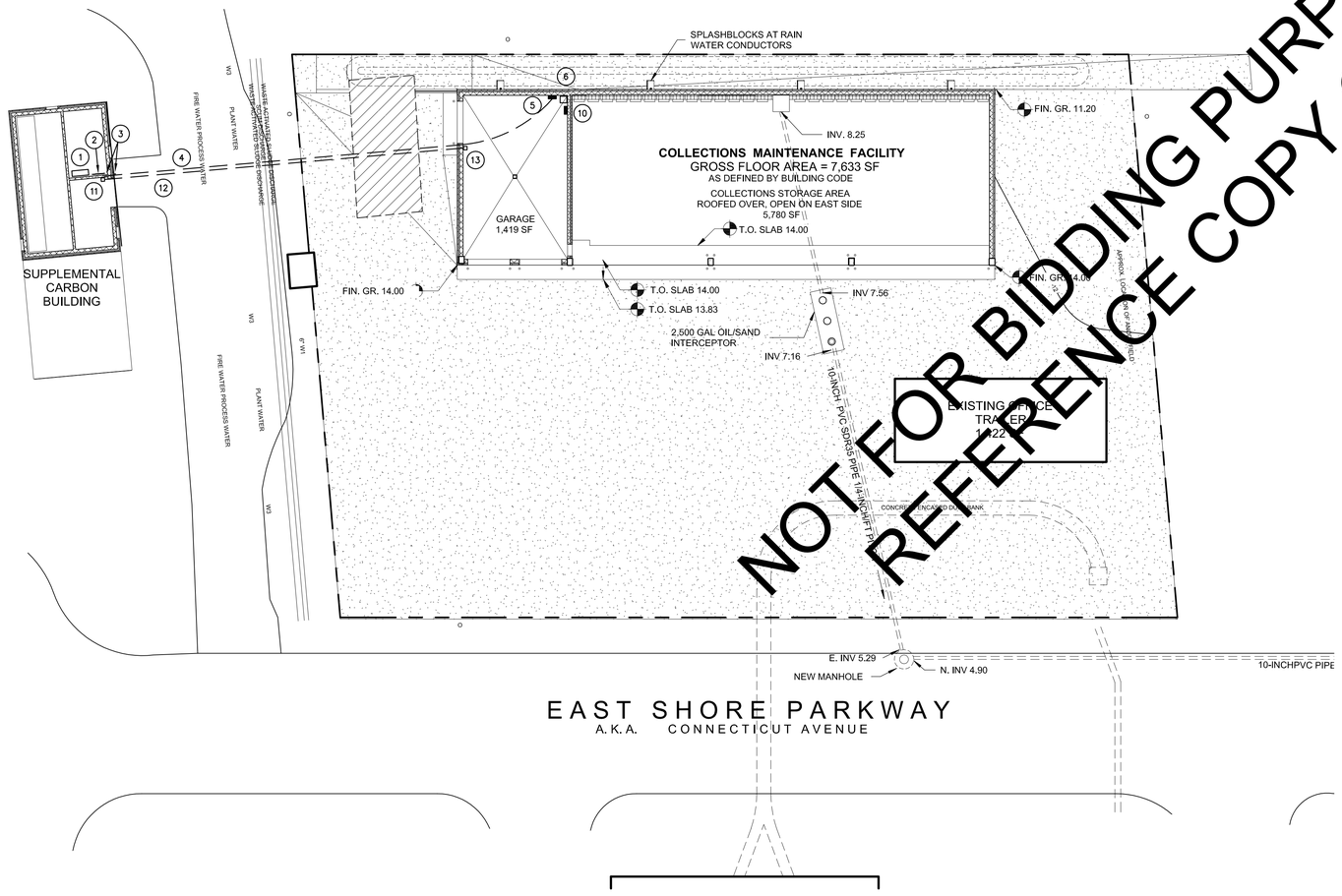
FLOOR PLAN MECHANICAL

M101



PANEL RISER DIAGRAM
NTS



SE1 SITE PLAN - ELECTRICAL
1" = 20'-0"

0' 10' 20' 40' 60'

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LEGEND

1. CONFIRM EXISTING MOTOR CONTROL CENTER SWITCHGEAR. PROVIDE NEW 100A–3PC/B, BUCKET WITH COVERPLATE AND ALL NECESSARY HARDWARE. GE – EVOLUTION – E9000 – 600AMPS @ 480V–3ø–3W
2. 1 1/2"G.C. WITH 3#2 XHHW PLUS 1#8 XHHW GROUND
3. GALVANIZED L.B. FITTING – CORE THROUGH EXISTING BUILDING WALL
4. 1 1/2"G.C. WITH 3#2 XHHW PLUS 1#8 XHHW GROUND UNDERGROUND
5. PANEL HPI – 100A–3PMNC/B–480V–3ø–3W WITH 1–50A–3PC/B, 1–40A–3PC/B, 2–20A–3PC/B AND 12 SPACES
6. DRY CORE TRANSFORMER – HPIPPA 25kva–480V–3ø–3W TO 120/208V–3ø–4W
7. 3/4"G.C. WITH 3#8 THHN PLUS GROUND TO 40A–3PC/B
8. 1 1/4"G.C. WITH 4#2 THHN PLUS 1#8 GROUND
9. 3/4"G.C. WITH 1#8 THHN GROUND TO BUILDING STEEL
10. PANEL PPA – 100A–3PMNC/B 120/208V–3ø–4W WITH 2–20A–2PC/B, 14–20A–1PC/B AND 6 SPACES
11. EXISTING FIRE ALARM CONTROL PANEL. COORDINATE NEW WORK WITH FIRETECH – 1–800–253–7685
12. 1"G.C. WITH L.B. CORED THROUGH EXISTING BUILDING WALL DOWN UNDERGROUND WITH FIRE ALARM WIRING PER FIRETEK
13. JUNCTION BOX ON WALL WITH RED COVER PLATE

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CONDUCTOR COLORS FOR 120/208 VOLT SYSTEM

PHASE A – BLACK
PHASE B – RED
PHASE C – BLUE
NEUTRAL – WHITE
GROUND – GREEN

CONDUCTOR COLORS FOR 277/480 VOLT SYSTEM

PHASE A – BROWN
PHASE B – ORANGE
PHASE C – YELLOW
NEUTRAL – GRAY
GROUND – GREEN

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SITE PLAN ELECTRICAL

SE101

LEGEND

1. PANEL HP1
2. TRANSFORMER HP1PPA
3. PANEL PPA
4. 2#12 THHN PLUS GROUND–3/4"G.C. TO 20A–1PC/B IN PANEL PPA
5. 2#12 THHN PLUS GROUND–3/4"G.C. UNDERGROUND
6. 2#12 THHN PLUS GROUND–3/4"G.C. TO RESPECTIVE WEATHERTIGHT SWITCH AND 20A–1PC/B IN PANEL PPA
7. OVERHEAD DOORS – 120V–1ø – 2#12 THHN PLUS GROUND–3/4"G.C. TO 20A–1PC/B IN PANEL PPA
8. ELECTRIC UNIT HEATER – 30kw–480V–3ø – 3#6 THHN PLUS GROUND–3/4"C. TO 50A–3PC/B IN PANEL HP1
9. EXHAUST FAN – 3/4HP–480V–3ø – 3#12 THHN PLUS GROUND–3/4"G.C. TO STARTER IN CONTROL PANEL
10. CONTROL PANEL BY MECHANICAL COPNTRACTOR – 3#12 THHN PLUS GROUND–3/4"G.C. TO 20A–3PC/B IN PANEL HP1
11. CO SENSOR WIRED TO CONTROL PANEL
12. MOTORIZED DAMPER – 120V–1ø – PROVIDE RIB RELAY 120V TO 480V – 2#12 THHN PLUS GROUND–3/4"G.C. TO CONTROL PANEL
13. HEAT TRACE CABLE CONTROL PANEL – CHROMALOX – CTCI–000, 2#12 THHN PLUS GROUND–3/4"G.C. TO 20A–2PC/B IN PANEL PPA
14. AMBIENT SENSOR – CHROMALOX – AS–BM MOUNTED 10' ABOVE FINISHED FLOOR. WIRE TO CONTROL PANEL IN 3/4"G.C.
15. HEAT TRACE CABLE – CHROMALOX #CPR5–2CT SELF REGULATING WITH ALL NECESSARY ACCESSORIES. MOUNTED ON WATER PIPING AND HOSE BIBS IN THE OPEN BAYS CONNECTED TO THE CONTROL PANEL. INSTALL WARNING LABELS
16. 3–WEATHERIGHT SWITCHES
17. 2#10 THHN–DC–3/4"G.C.
18. FIRE ALARM JUNCTION WITH RED COVER PLATE
19. EXHAUST FAN – 120V–1ø – WIRED TO CONTROL PANEL
20. CARBON MONOXIDE AND NITROGEN DIOXIDE CONTROL PANEL – 2#12 THHN PLUS GROUND–3/4"G.C. TO 20A–1PC/B IN PANEL PPA. SEE MANUFACTURER'S WIRING DIAGRAM FOR FINAL WIRING REQUIREMENTS

SYMBOLS LIST

SYMBOL	DESCRIPTION
○	RECESSED DOWN LIGHT
⊢○	SURFACE MOUNTED LIGHT
⌑	SURFACE MOUNTED LIGHT
⊗	EXIT SIGN
S	SINGLE POLE SWITCH
$\textcircled{G}_G$	GROUND FAULT RECEPTACLE
⊐	DISCONNECT SWITCH
⊘	MOTOR – SIZE AS INDICATED
F	FIRE ALARM PULL STATION – NOTIFIER #NBG–12LX
F ▽	HORN/STROBE LIGHT – NOTIFIER #P2W–L
F ▽ WP	HORN/STROBE LIGHT WEATHERPROOF – NOTIFIER #P2WK
Ⓗ	FIRE ALARM–HEAT DETECTOR – NOTIFIER #FST–951
WP	WEATHERPROOF

LIGHTING FIXTURE SPECIFICATION

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION
A	XTRALIGHT	VTH–4–18000L–40K–DIM–SFA–STD	4' PENDANT MOUNTED LED LIGHT. VAPOR IGHT–GASKETED NEMA 4X–120V–18000 LUMENS 4000'k.
AE	XTRALIGHT	VTH–4–18000L–40K–DIM–SFA–STD–EM	SIMILAR TO TYPE A, EXCEPT WITH EMERGENCY BATTERY.
B1	PARAFLEX	DC150–90–36W–40K–BL–PCI	WALL MOUNTED LED LIGHTL FULL CUTOOF IP–65 RATED WET LOCATION–120V–36W–4820 LUMENS–4000'k–PHOTOCELL
B2	SEGULL	DC150–90–12W–40K–BL–PCI	SIMILAR TO TYPE B1, EXCEPT 12W, 806 LUMENS.
EL	CHLORIDE	TPR–2–LM5–W–G	REMOTE TWIN HEADED GASKETED WET LOCATION EMERGENCY HEADS. 2–12V–5W.
X	CHLORIDE	TPCW–RL–I–R–W–IC	SELF CONTAINED FULLY AUTOMATIC AC/DC LED WET LOCATION EXIT SIGN WITH REMOTE CAPACITY.

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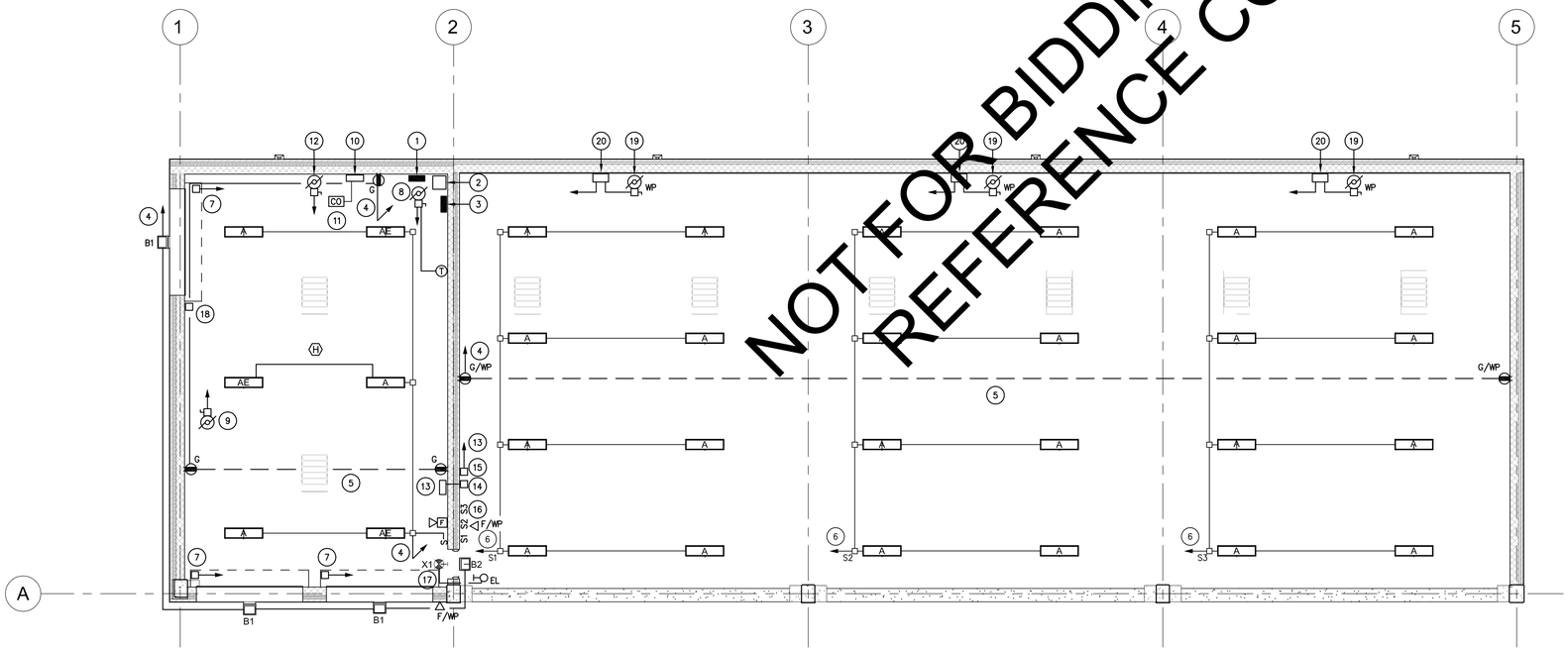

E1 FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

0' 4' 8' 16' 24'

TRUE NORTH PROJECT NORTH

NOTE

1. FEED EACH EMERGENCY LIGHT AND EXIT SIGN FROM LOCAL CONSTANT LIGHTING CIRCUIT.

ELECTRICAL GENERAL SPECIFICATION

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS,AND SERVICE REQUIRED TO COMPLETE THE INSTALLATION OF ALL WORK CALLED FOR AND SHOWN.
2. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, OSHA, ALL STATE, LOCAL CODES, ORDINANCES AND REQUIREMENTS AND WITH ALL AUTHORITIES HAVING JURISDICTION.
3. ALL PERMITS FOR THE ELECTRICAL WORK SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. UPON COMPLETION, A CERTIFICATION OF FINAL APPROVAL SHALL BE SUBMITTED, SIGNED BY THE PROPER AUTHORITIES.
4. ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND SHALL CONFORM TO U.L. STANDARDS WHERE SUCH IS APPLICABLE. ONLY THE BEST WORKMANSHIP IN ACCORDANCE WITH PRESENT DAY STANDARDS WILL BE ACCEPTABLE. ANY WORK INSTALLED IN WHICH WORKMANSHIP IS ADJUDGED BY THE ENGINEER TO BE BELOW ACCEPTED STANDARDS SHALL BE TAKEN OUT AND REPLACED WITH PROPERLY DONE WORK AT THIS CONTRACTOR'S EXPENSE.
5. MINIMUM SIZE OF WIRE FOR ANY CIRCUIT SHALL BE #12 A.W. GAUGE THHN 3/4"G.C. CABLE UNLESS OTHERWISE NOTED.
6. RACEWAYS AT EVERY OUTLET MUST TERMINATE IN SUITABLE OUTLET BOXES OF APPROVED FORM AND DIMENSIONS, ADAPTED IN ALL INSTANCES TO LOCATION AND USE OR NUMBER OF WIRES TERMINATING THEREIN.
7. HOMERUNS EXCEEDING 100' FROM SOURCE OF SUPPLY SHALL BE A MINIMUM OF #10 AWG–COPPER UNLESS OTHERWISE INDICATED.
8. THE ELECTRICAL CONTRACTOR MUST VERIFY CEILING FINISH CONSTRUCTION WITH FINAL ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES AND ORDER FIXTURES WITH PROPER MOUNTING ARRANGEMENTS TO BE COMPATIBLE WITH TYPE OF CEILING IN WHICH FIXTURES ARE TO BE MOUNTED.
9. ALL EQUIPMENT CONNECTIONS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
10. THE CONTRACTOR SHALL ASSIGN BREAKERS IN THE PANELBOARDS TO THE BRANCH CIRCUITS CALLED FOR ON THE DRAWINGS IN SUCH A MANNER TO INSURE BALANCE OF LOADS BETWEEN THE PHASES. AS BUILT DRAWINGS FURNISHED BY THE CONTRACTOR SHALL SHOW THE PANELBOARD CIRCUIT NUMBERS ACTUALLY USED FOR THE BRANCH CIRCUITS.
11. PROVIDE NEW ADDRESSIBLE FIRE ALARM DEVICES AS SHOWN ON THE DRAWINGS WIRED PER THE MANUFACTURER'S REQUIREMENTS TO THE NEW FIRE ALARM SYSTEM. RUN WIRING IN 3/4"G.C. CONTACT FIRETECH 1–800–253–7685.
12. PROVIDE NEW LIGHTING FIXTURES HUNG AND CONNECTED.
13. PROVIDE NEW SWITCHES, RECEPTACLES (GFI) AND COVER PLATES.
14. PROVIDE NEW SERVICE SYSTEM FROM EXISTING MCC IN EXISTING SUPPLEMENTAL CARBON BUILDING WITH UNDERGROUND RACEWAYS, NEW CIRCUIT BREAKER/BUCKET, PANELS AND TRANSFORMER.
15. SUPPORT ALL EQUIPMENT AS PER CODES AND SEISMIC REQUIREMENTS.
16. PROVIDE HEAT TRACING SYSTEM FOR WATER PIPING IN THE OPEN BAYS. COORDINATE WITH THE PLUMBING CONTRACTOR.
17. PROVIDE ALL POWER AND CONTROL WIRING FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE FINAL LOCATIONS WITH THE CONTRACTORS.
18. FIRE STOP ALL WALL AND FLOOR OPENINGS MADE FOR ELECTRICAL WORK.
19. ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM THE DATE OF ACCEPTANCE BY OWNER OF THE ENTIRE INSTALLATION.
20. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO WORK OF OTHER TRADES. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE, IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS AN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE PLANS.

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FLOOR PLANS ELECTRICAL

E101