BLOOMFIELD PUBLIC LIBRARY

PROSSER LIBRARY
1 TUNXIS AVENUE, BLOOMFIELD, CT 06002
STATE PROJECT NUMBER 011P-SC-21

OCTOBER 7, 2022
DESIGN DEVELOPMENT

ARCHITECT

TSKP STUDIO

TSKP STUDIO, LLC
146 WYLLYS STREET, BUILDING 1, SUITE 203
HARTFORD, CT 06106

CIVIL ENGINEER

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410

STRUCTURAL

MICHAEL HORTON ASSOCIATES, INC.
151 MEADOW STREET
BRANFORD, CT 06405

MEP/FP

RZ DESIGN ASSOCIATES, INC.
750 OLD MAIN STREET
ROCKY HILL, CT 06067

LANDSCAPE

RICHTER & CEGAN, INC.
AVON PARK NORTH P.O. BOX 567
8B CANAL COURT
AVON, CT 06405

DRAWING LIST

SITE

	PROPERTY AND TOPOGRAPHIC SURVEY
C1.0	UTILITY DEMOLITION PLAN
C2.0	SITE PLAN - UTILITIES
C3.0	SEDIMENT AND EROSION CONTROL PLAN
C3.1	SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS
C4.0	SITE DETAILS
C4.1	SITE DETAILS

LANDSCAPE

L-100	SITE ILLUSTRATIVE PLAN
L-111	SITE PREPARATION PLAN
L-112	TREE PRESERVATION PLAN
L-113	TREE PRESERVATION DETAILS
L-121	SITE LAYOUT AND MATERIALS PLAN
L-131	SITE GRADING PLAN
L-141	SITE PLANTING PLAN
L-501	SITE DETAILS
L-502	SITE DETAILS
L-503	SITE DETAILS
L-504	CONNDOT DETAILS
L-505	CONNDOT DETAILS

GENERAL

A0.00	COVER
A0.01	GENERAL INFORMATION
A0.02	CODE PLAN
A0.03	WALL TYPES

DEMO

1	SAMPLING LOCATION PLAN BLOOMFIELD PUBLIC LIBRARY-PROSSER HAZARDOUS MATERIAL SURVEY
3	SAMPLING LOCATION PLAN RILEY LUMBER COMPANY HAZARDOUS MATERIALS SURVEY
D1.00	DEMO PLANS & SECTION

ARCHITECTURAL

A1.00	LOWER LEVEL & FIRST FLOOR PLAN
A1.01	SECOND FLOOR & ROOF PLAN
A2.00	LOWER LEVEL & FIRST FLOOR REFLECTED CEILING PLAN
A2.01	SECOND FLOOR REFLECTED CEILING PLAN
A2.31	CEILING DETAILS
A3.00	EXTERIOR ELEVATIONS
A3.01	EXTERIOR ELEVATIONS
A3.10	BUILDING SECTIONS
A3.11	BUILDING SECTIONS
A3.12	BUILDING SECTIONS
A4.21	SECTION DETAILS
A4.22	SECTION DETAILS
A4.31	PLAN DETAILS
A6.01	STAIR PLANS AND SECTIONS
A6.02	STAIR PLANS AND SECTIONS
A6.03	STAIR & RAMP PLANS AND SECTIONS
A6.06	ELEVATOR PLAN, SECTION AND DETAILS
A8.01	INTERIOR ELEVATIONS
A8.02	INTERIOR ELEVATIONS
A10.01	FINISH SCHEDULE
A11.01	DOOR SCHEDULE
F1.01	FIRST FLOOR FURNITURE PLAN
F1.02	SECOND FLOOR FURNITURE PLAN

STRUCTURAL

S1.00	FOUNDATION AND FIRST FLOOR PLAN
S1.01	SECOND FLOOR AND ROOF FRAMING PLAN
S1.02	BRIDGE FRAMING PLAN
S1.03	CANOPY ROOF FRAMING PLAN
S2.00	COLUMN SCHEDULE AND DETAILS
S2.01	BUILDING ELEVATIONS EXTERIOR
S2.02	EXTERIOR ELEVATIONS
S-300	FOUNDATION SECTIONS
S-400	FLOOR SECTIONS
S-401	FLOOR SECTIONS
S-402	FLOOR SECTIONS
S-500	ROOF SECTIONS
S-501	ROOF SECTIONS
S-600	TYPICAL DETAILS
S-601	TYPICAL DETAILS
S-602	TYPICAL DETAILS
S-700	GENERAL NOTES

MECHANICAL

M0.01	MECHANICAL GENERAL INFORMATION
M1.00	LOWER LEVEL & FIRST FLOOR MECHANICAL DUCT PLAN
M1.01	SECOND FLOOR & ROOF MECHANICAL DUCT PLAN
M1.06	MECHANICAL ROOF PLAN
M2.00	MECHANICAL PART PLAN & ONE LINE DUIAGRAMS
M3.00	MECHANICAL DETAILS
M3.01	MECHANICAL DETAILS
M4.00	MECHANICAL SCHEDULES
MP1.00	LOWER LEVEL & FIRST FLOOR MECHANICAL PIPE PLAN
MP1.01	SECOND FLOOR MECHANICAL PIPE PLAN

ELECTRICAL

E0.01	ELECTRICAL GENERAL INFORMATION
E1.00	LOWER LEVEL & FIRST FLOOR LIGHTING PLANS
E1.01	SECOND FLOOR LIGHTING PLAN
E2.00	LOWER LEVEL & FIRST FLOOR POWER PLANS
E2.01	SECOND FLOOR & ROOF POWER PLANS
E3.00	POWER RISING DIAGRAM
E3.01	ELECTRICAL SCHEDULES
E3.02	PANEL SCHEDULES
E3.03	PANEL SCHEDULES
E4.01	ELECTRICAL DETAILS
E4.02	ELECTRICAL DETAILS
ES1.01	SITE ELECTRICAL PLAN
FA1.00	LOWER LEVEL FIRE ALARM PLAN
FA1.01	FIRST & SECOND FLOOR FIRE ALAMR PLANS

PLUMBING

P0.01	PLUMBING GENERAL INFORMATION
P1.00	UNDERSLAB & LOWER LEVEL PLUMBING DRAINAGE PLAN
P1.01	FIRST & SECOND FLOOR PLUMBING DRAINAGE PLANS
P1.06	PLUMBING ROOF PLAN
P2.01	LOWER, FIRST & SECOND FLOOR PLUMBING SUPPLY PLANS
P3.01	PLUMBING DETAILS
P4.01	PLUMBING DETAILS

FIRE PROTECTION

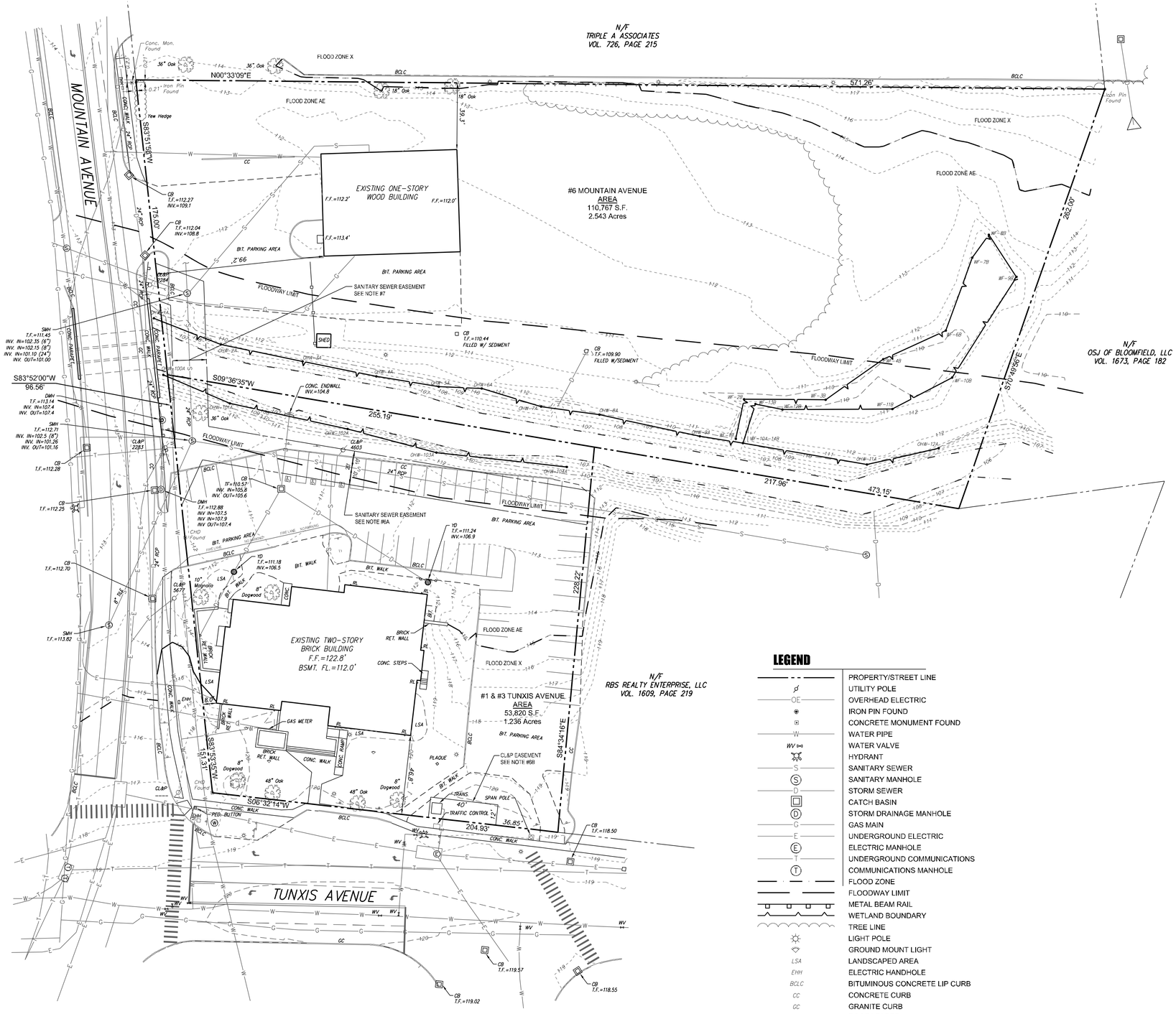
FP1.00	LOWER LEVEL AND FIRST FLOOR FIRE PROTECTION PLAN
FP1.01	SECOND FLOOR FIRE PROTECTION PLAN

LOCATION PLAN

APPROVALS

PUBLIC WORKS DATE

AGENCY DATE



0' 30' 60' 90'

SCALE: 1"=30'

NAD83

SURVEY NOTES:

1. THIS SURVEY AND MAP WERE PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A PROPERTY AND TOPOGRAPHIC MAP CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2. IT IS INTENDED TO DEPICT THE DEED LINES, LINES OF OCCUPATION, EASEMENTS AND ENCROACHMENTS AFFECTING THE PROPERTY. THE PROPERTY/BOUNDARY DETERMINATION OPINION PRESENTED HEREON IS BASED ON A RESURVEY.
2. REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS ENTITLED:
A. "LOT OWNED BY THE MASONIC HALL ASSOCIATION, INC. BLOOMFIELD, CONN." PREPARED BY ERWAN M. PECK, SCALE 1"=20' AND DATED JUNE 3, 1924, BLOOMFIELD LAND RECORDS MAP #107.
B. "RIGHT OF WAY MAP TOWN OF BLOOMFIELD MOUNTAIN AVENUE FROM BLOOMFIELD CENTER WESTERLY TO DUNCASTER ROAD, ROUTE NO. 311" PREPARED BY CONNECTICUT HIGHWAY DEPARTMENT, SCALE 1"=40', DATED JUNE 30, 1930 AND REVISED MAY 1958.
C. "RIGHT OF WAY MAP TOWN OF BLOOMFIELD WINTONBURY AVENUE A SECTION ADJACENT TO THE BLOOMFIELD GREEN & FROM THE N.Y.N.H.&H.R.R.TRACKS EASTERLY ABOUT 1,000 FEET" PREPARED BY CONNECTICUT HIGHWAY DEPARTMENT, SCALE 1"=40', DATED OCT. 31, 1930 AND REVISED APRIL 1958.
D. "PROPERTY OF ERNEST G. TAVENER, ESTATE AND NAT G. ROSE SCHWARTZ PREPARED FOR MOBIL OIL CORPORATION WEST SIDE TUNXIS AVENUE-BLOOMFIELD, CONN." PREPARED BY W.M. ALFORD, SCALE 1"=20', DATED DEC. 1970 AND REVISED MAR. 6, 1972. B.L.R. MAP #183.2
E. "PLOT PLAN PROPERTY OF RILEY LUMBER CO. IN BLOOMFIELD, CONNECTICUT" PREPARED BY FRANCIS T. D'ONOFRIO, SCALE 1"=40' AND DATED 3/29/88. B.L.R. MAP #3147.
F. "ALTA/ACSM LAND TITLE SURVEY PRPARED FOR AHOLD REAL ESTATE COMPANY 20-22 MOUNTAIN AVENUE BLOOMFIELD, CONNECTICUT" PREPARED BY F.A. HESKETH & ASSOCIATES, INC., SCALE 1"=40' AND DATED 09-19-95.
G. "COMPILATION PLAN EASEMENT TO BE ACQUIRED FROM THE TOWN OF BLOOMFIELD #1 TUNXIS AVE., BLOOMFIELD, CT." PREPARED BY NORTHEAST UTILITIES SERVICES CO., SCALE 1"=20' AND DATED 3-19-13. B.L.R. MAP #71-60.
H. "PROPERTY & TOPOGRAPHIC SURVEY PREPARED FOR ROBERT SCHWARTZ 5,7, & 9 TUNXIS AVENUE BLOOMFIELD, CONNECTICUT" PREPARED BY GODFREY HOFFMAN HODGE, LLC, SCALE 1"=20' AND DATED 07-11-2019.
3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
4. BEARINGS ARE BASED ON NAD83. ELEVATIONS ARE BASED ON NAVD88.
5. A PORTION OF THIS PARCEL LIES WITHIN FLOOD ZONE AE, BASE FLOOD ELEVATION 115', AS SHOWN ON FLOOD INSURANCE RATE MAP PANEL #09003C0353F, EFFECTIVE DATE 9/26/2008.
6. PARCEL #1 & #3 TUNXIS AVUNUE IS SUBJECT TO:
A. AN EASEMENT IN FAVOR OF THE METROPOLITAN DISTRICT FOR SANITARY SEWER AS RECORDED IN VOLUME 95, PAGE 61 OF THE B.L.R.
B. ELECTRIC DISTRIBUTION EASEMENT IN FAVOR OF THE CONNECTICUT LIGHT AND POWER COMPANY AS RECORDED IN VOLUME 1719, PAGE # 160 OF THE B.L.R.
7. #6 MOUNTAIN AVENUE IS SUBJECT TO AN EASEMENT IN FAVOR OF THE METROPOLITAN DISTRICT FOR SANITARY SEWER AS RECORDED IN VOLUME 95, PAGE 61 OF THE B.L.R.
8. THESE PARCELS ARE ZONED BCD. SETBACKS ARE GENERALLY FRONT 10', SIDE 0' AND REAR 0'.

LEGEND

- PROPERTY/STREET LINE
- UTILITY POLE
- OE — OVERHEAD ELECTRIC
- IRON PIN FOUND
- CONCRETE MONUMENT FOUND
- W — WATER PIPE
- WV — WATER VALVE
- HYDRANT
- S — SANITARY SEWER
- SANITARY MANHOLE
- D — STORM SEWER
- CATCH BASIN
- STORM DRAINAGE MANHOLE
- G — GAS MAIN
- E — UNDERGROUND ELECTRIC
- ELECTRIC MANHOLE
- T — UNDERGROUND COMMUNICATIONS
- COMMUNICATIONS MANHOLE
- FLOOD ZONE
- FLOODWAY LIMIT
- METAL BEAM RAIL
- WETLAND BOUNDARY
- TREE LINE
- LIGHT POLE
- GROUND MOUNT LIGHT
- LSA — LANDSCAPED AREA
- EHH — ELECTRIC HANDHOLE
- BCLC — BITUMINOUS CONCRETE LIP CURB
- CC — CONCRETE CURB
- GC — GRANITE CURB
- RL — ROOF LEADER
- OHW — ORDINARY HIGH WATER

PROPERTY AND TOPOGRAPHIC SURVEY

LAND NOW OR FORMERLY OF

TOWN OF BLOOMFIELD

#1 & #3 TUNXIS AVENUE, VOL. 14, PG. 131 AND VOL. 1189, PG. 317.

#6 MOUNTAIN AVENUE, VOL. 1955, PG. 60

BLOOMFIELD, CONNECTICUT

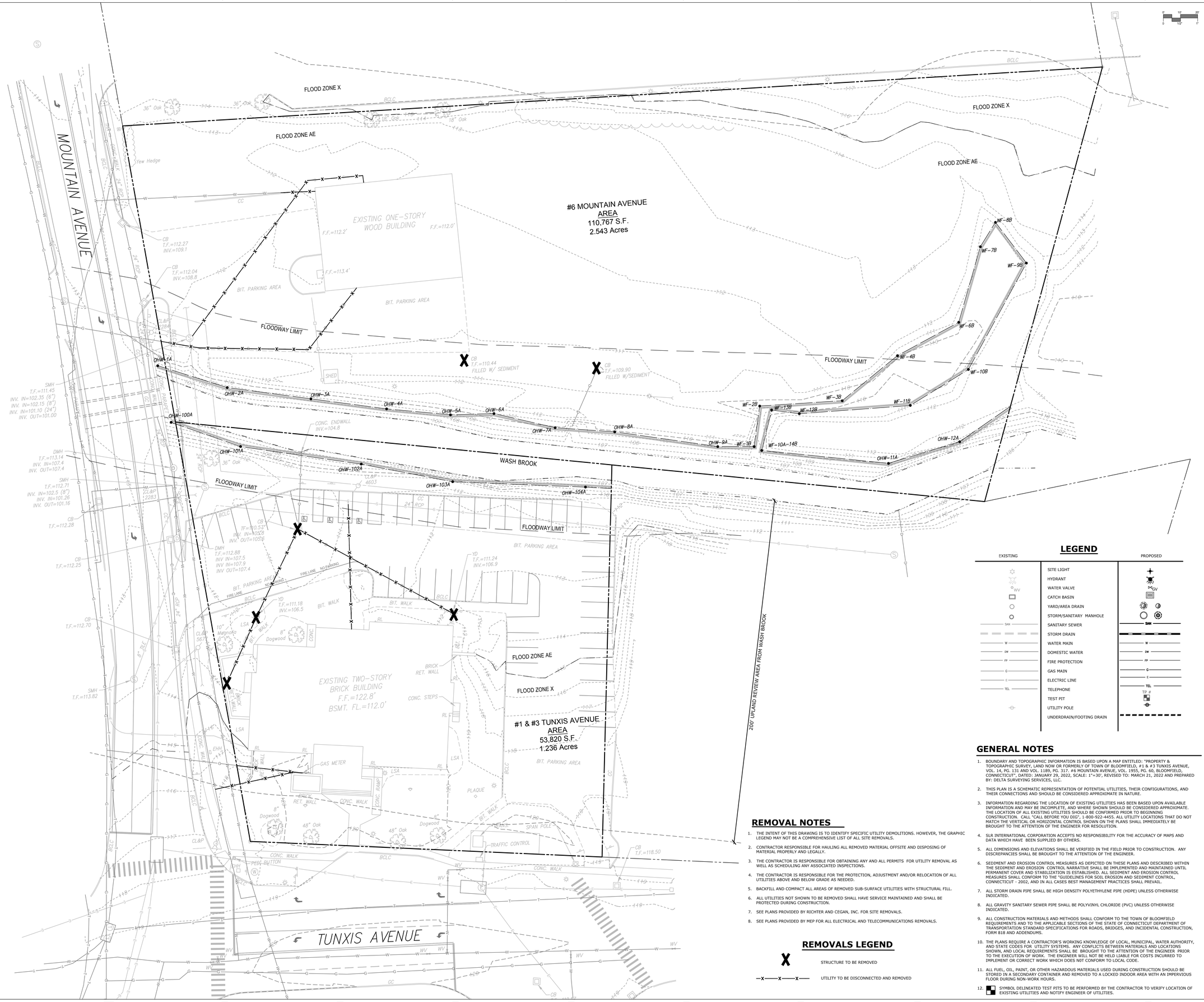
TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

JONATHAN TARBOX L.S. #70075

03/21/22 HYDRANT ADDED
02/24/22 FLOODWAY, WETLANDS
REVISIONS:

Delta
SURVEYING SERVICES, LLC
(860) 944-4678
75 ELLINGTON AVE., ELLINGTON, CT.

JOB No.:	21-070
SCALE:	1"=30'
DATE:	JANUARY 29, 2022
DWG. NO.:	1
SHEET:	1 OF 1



LEGEND

EXISTING		PROPOSED
	SITE LIGHT	
	HYDRANT	
WV	WATER VALVE	GV
	CATCH BASIN	
	YARD/AREA DRAIN	
	STORM/SANITARY MANHOLE	
SAN	SANITARY SEWER	SAN
	STORM DRAIN	
W	WATER MAIN	W
DW	DOMESTIC WATER	DW
FP	FIRE PROTECTION	FP
G	GAS MAIN	G
E	ELECTRIC LINE	E
TEL	TELEPHONE	TEL
	TEST PIT	TP #
	UTILITY POLE	
	UNDERDRAIN/FOOTING DRAIN	

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED UPON A MAP ENTITLED: "PROPERTY & TOPOGRAPHIC SURVEY, LAND NOW OR FORMERLY OF TOWN OF BLOOMFIELD, #1 & #3 TUNXIS AVENUE, VOL. 14, PG. 131 AND VOL. 1189, PG. 317, #6 MOUNTAIN AVENUE, VOL. 1955, PG. 60, BLOOMFIELD, CONNECTICUT", DATED: JANUARY 29, 2022, SCALE: 1"=30', REVISED TO: MARCH 21, 2022 AND PREPARED BY: DELTA SURVEYING SERVICES, LLC.
2. THIS PLAN IS A SCHEMATIC REPRESENTATION OF POTENTIAL UTILITIES, THEIR CONFIGURATIONS, AND THEIR CONNECTIONS AND SHOULD BE CONSIDERED APPROXIMATE IN NATURE.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. SLR INTERNATIONAL CORPORATION ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
8. ALL GRAVITY SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) UNLESS OTHERWISE INDICATED.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF BLOOMFIELD REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS.
10. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
11. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
12. SYMBOL DELINEATED TEST PITS TO BE PERFORMED BY THE CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF UTILITIES.

REMOVAL NOTES

1. THE INTENT OF THIS DRAWING IS TO IDENTIFY SPECIFIC UTILITY DEMOLITIONS. HOWEVER, THE GRAPHIC LEGEND MAY NOT BE A COMPREHENSIVE LIST OF ALL SITE REMOVALS.
2. CONTRACTOR RESPONSIBLE FOR HAULING ALL REMOVED MATERIAL OFFSITE AND DISPOSING OF MATERIAL PROPERLY AND LEGALLY.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FOR UTILITY REMOVAL AS WELL AS SCHEDULING ANY ASSOCIATED INSPECTIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION, ADJUSTMENT AND/OR RELOCATION OF ALL UTILITIES ABOVE AND BELOW GRADE AS NEEDED.
5. BACKFILL AND COMPACT ALL AREAS OF REMOVED SUB-SURFACE UTILITIES WITH STRUCTURAL FILL.
6. ALL UTILITIES NOT SHOWN TO BE REMOVED SHALL HAVE SERVICE MAINTAINED AND SHALL BE PROTECTED DURING CONSTRUCTION.
7. SEE PLANS PROVIDED BY RICHTER AND CEGAN, INC. FOR SITE REMOVALS.
8. SEE PLANS PROVIDED BY MEP FOR ALL ELECTRICAL AND TELECOMMUNICATIONS REMOVALS.

REMOVALS LEGEND

X — STRUCTURE TO BE REMOVED

—X—X—X— UTILITY TO BE DISCONNECTED AND REMOVED

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SLRCONSULTING.COM

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BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
UTILITY DEMOLITION PLAN

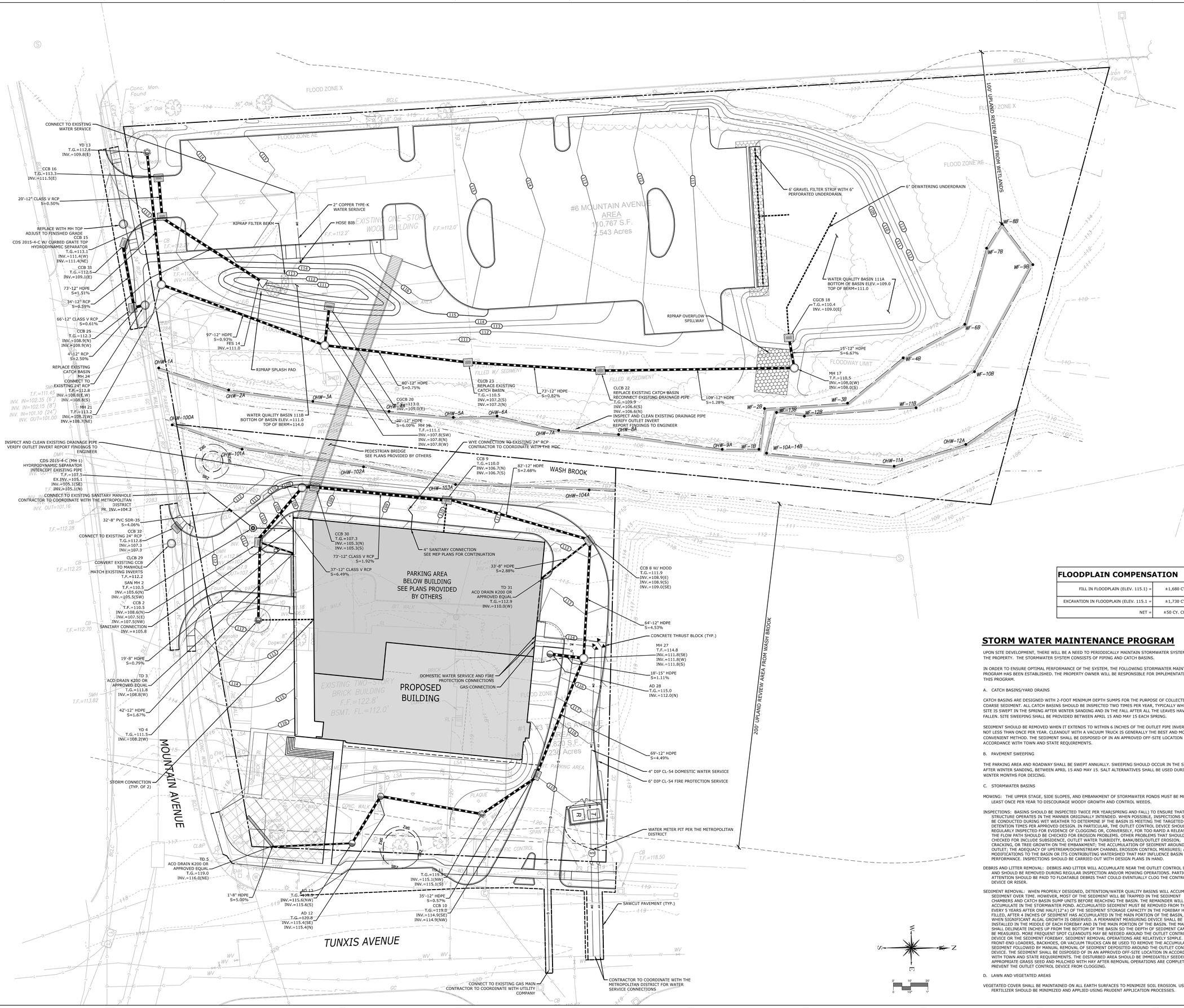
STATE PROJ NO.	
PROJECT NO.	200802
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C1.0

Plotted: 06 OCTOBER 2022 - 09:49AM BY RYE
Drawing Name: 200802 - 01 - DEMO PLAN.dwg



FLOODPLAIN COMPENSATION	
FILL IN FLOODPLAIN (ELEV. 115.1) =	±1,680 CY.
EXCAVATION IN FLOODPLAIN (ELEV. 115.1 =	±1,730 CY.
NET =	±50 CY. CUT

STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM.

A. CATCH BASINS/YARD DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

C. STORMWATER BASINS

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER PONDS MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS.

INSPECTIONS: BASINS SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICE AND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS AFTER ONE HALF(12"±) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF EACH FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY. SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. LAWN AND VEGETATED AREAS

VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE IF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCESSES.

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PROJECT
DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE PLAN - UTILITIES

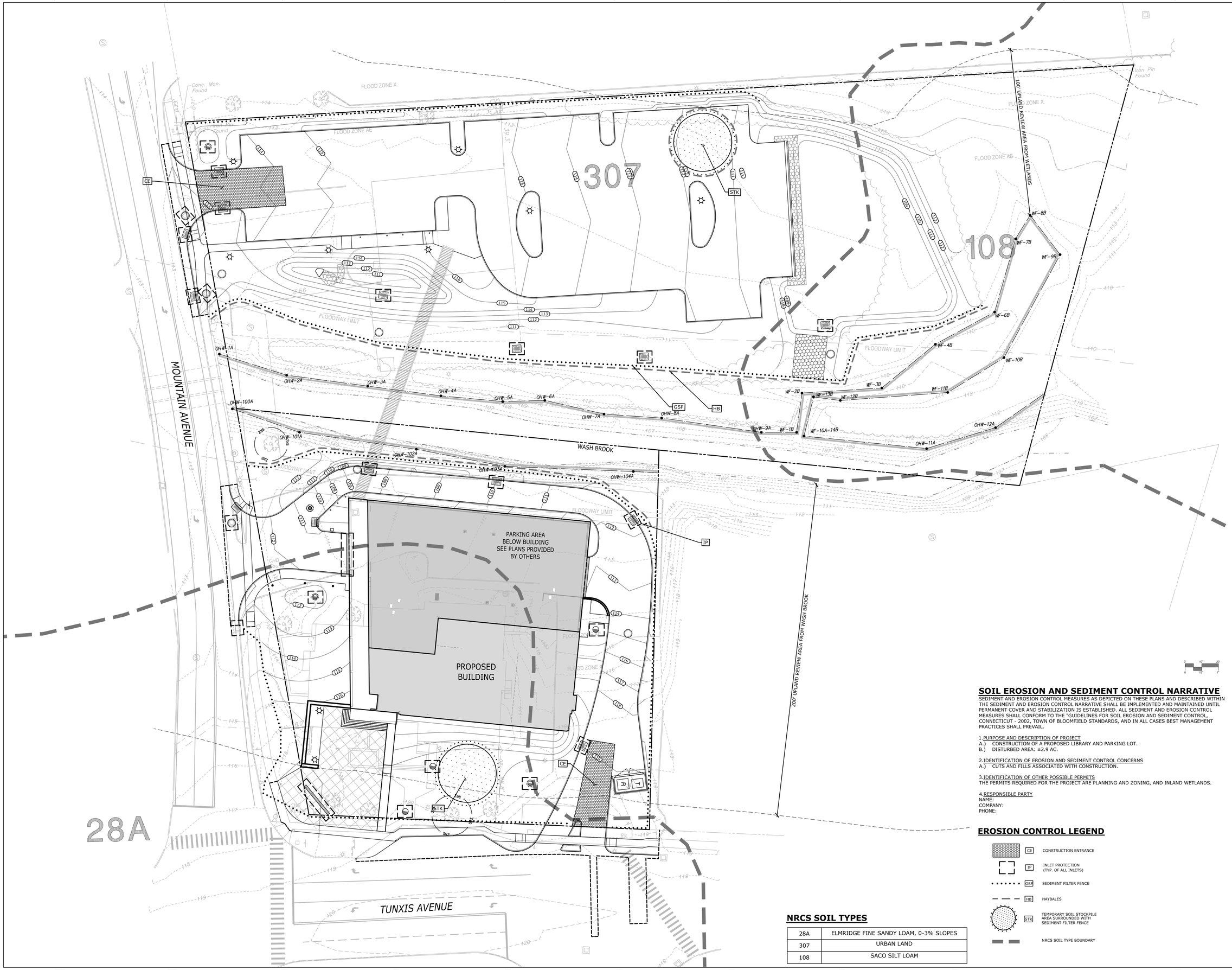
STATE PROJ NO.	
PROJECT NO.	200802
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C2.0

Plotted: 10/6/2022 7:01:09 PM By: RYE
Project: N:\200802\01 DESIGN DEVELOPMENT\200802_SHEET.RVT
Model: Default Scale: 1" = 1'-0"



SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF BLOOMFIELD STANDARDS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1.PURPOSE AND DESCRIPTION OF PROJECT
A.) CONSTRUCTION OF A PROPOSED LIBRARY AND PARKING LOT.
B.) DISTURBED AREA: ±2.9 AC.

2.IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.

3.IDENTIFICATION OF OTHER POSSIBLE PERMITS
THE PERMITS REQUIRED FOR THE PROJECT ARE PLANNING AND ZONING, AND INLAND WETLANDS.

4.RESPONSIBLE PARTY
NAME:
COMPANY:
PHONE:

EROSION CONTROL LEGEND

- CE — CONSTRUCTION ENTRANCE
- IP — INLET PROTECTION (TYP. OF ALL INLETS)
- GSF — SEDIMENT FILTER FENCE
- HB — HAYBALES
- STK — TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE
- NRCS SOIL TYPE BOUNDARY

NRCS SOIL TYPES

28A	ELMRIDGE FINE SANDY LOAM, 0-3% SLOPES
307	URBAN LAND
108	SACO SILT LOAM

0' 10' 20'
0 1/2" 1"

tskp.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
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99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

BLOOMFIELD PUBLIC LIBRARY
NEW PROSSER LIBRARY
1 TUNXIS AVENUE
BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

STATE PROJ NO.	
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C3.0

SEDIMENT AND EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
4. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 2 TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF LARGE STONES , LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF LESS THAN 400 PPM IS REQUIRED.
6. THE TOPSOIL SHALL BE WARRANTED BY SELLER TO BE FREE OF DETECTABLE RESIDUES OF CHEMICAL PESTICIDES, HERBICIDES, PETROLEUM PRODUCTS, OR OTHER UNSUITABLE TOXINS.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

GENERAL:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
4. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST INTO THE SOIL - APPLY IT EVENLY TO SOIL SURFACE AS A SEED BED.
5. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

SITE PREPARATION:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING)
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW AND ANCHOR TO SLOPES GREATER THAN 3%%% OR WHERE NEEDED.

PERMANENT VEGETATIVE COVER

GENERAL:

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
6. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST

VEGETATED COVER SELECTION AND MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 5 LBS./1,000 SQ.FT. (LOLIUM PERENNE)
DUTCH WHITE CLOVER (TRIFOLIUM REPENS) 1/4 LBS PER 1000 SF. OR 6LBS/AC.

* PERMANENT VEGETATIVE COVER:

DUTCH WHITE CLOVER 30%
BARON KENTUCKY BLUEGRASS 30%
JAMESTOWN II CHEWINGS FESCUE 20%
PALMER PERENNIAL RYEGRASS 20%

* LOFTS - "TRIPLEX GENERAL" MIX OR APPROVED EQUAL. RECOMMENDED RATE/TIME SEEDING.
SPRING SEEDING: 4/1 to 5/31
FALL SEEDING: 8/16 to 10/15

TEMPORARY MULCHING:

STRAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS) WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:
1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULAT ON ALL LEGUME SEEDLINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.

EROSION CHECKS

GENERAL:

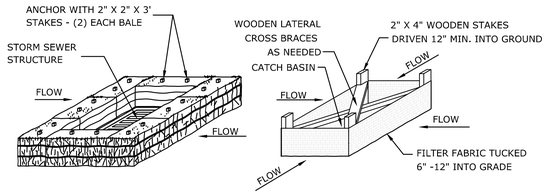
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

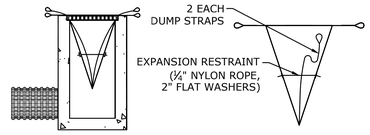


HAY BALE INSTALLATION AT CATCH BASIN

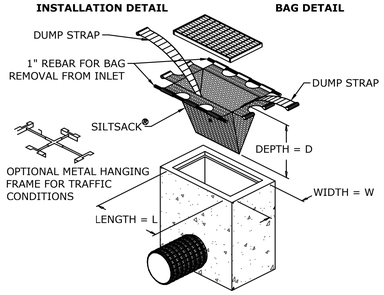
SEDIMENT FILER FENCE INSTALLATION AT CATCH BASIN

CATCH BASIN IN A DEPRESSION

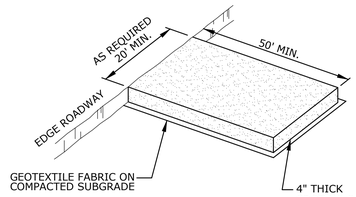
INLET PROTECTION
NOT TO SCALE



INSTALLATION DETAIL — BAG DETAIL

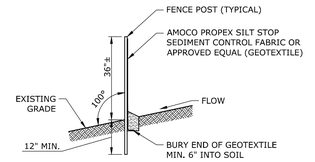


INLET PROTECTION
NOT TO SCALE

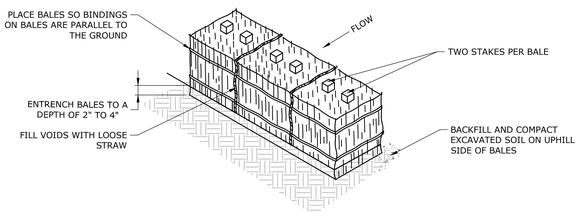


NOTE:
1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

CONSTRUCTION ENTRANCE PAD
NOT TO SCALE



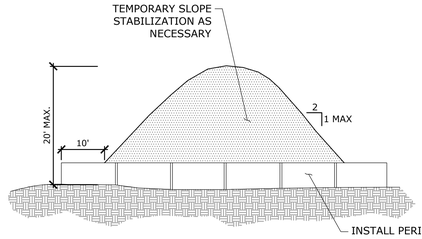
SEDIMENT FILTER FENCE
NOT TO SCALE



NOTES:

1. IDEALLY BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
2. BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
3. WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE THE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
4. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

HAY BALE BARRIER PROTECTION
NOT TO SCALE



NOTES:
1. INSTALL A GEOTEXTILE SILT FENCE AND/OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE PROPOSED TOE OF SLOPE.

2. SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 2:1. STOCKPILES THAT REMAIN INACTIVE FOR MORE THAN 30 DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION

3. DISTANCE FROM WETLANDS, WATERCOURSES, DRAINAGE WAYS AND STEEP SLOPES SHALL BE MAXIMIZED. RUNOFF SHALL BE DIVERTED AWAY FROM STOCKPILE AREA

TEMPORARY SOIL STOCKPILE
NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6 OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.

Plotted By: ROBERT DELUCA - 10/6/2022 2:55:47 PM
File Name: C:\Users\rdeluca\Desktop\200802_BLOOMFIELD_LIBRARY_C3.1.dwg

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TSKP STUDIO
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BLOOMFIELD PUBLIC LIBRARY
NEW PROSSER LIBRARY
1 TUNXIS AVENUE
BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

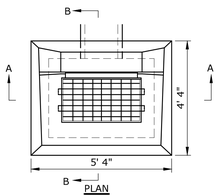
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SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS

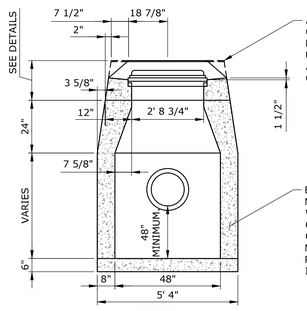
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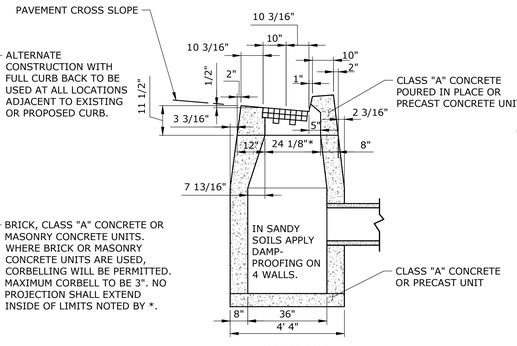
NO.	DATE	PURPOSE

C3.1





SECTION A-A



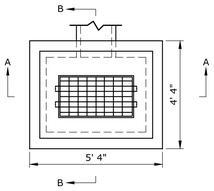
SECTION B-B

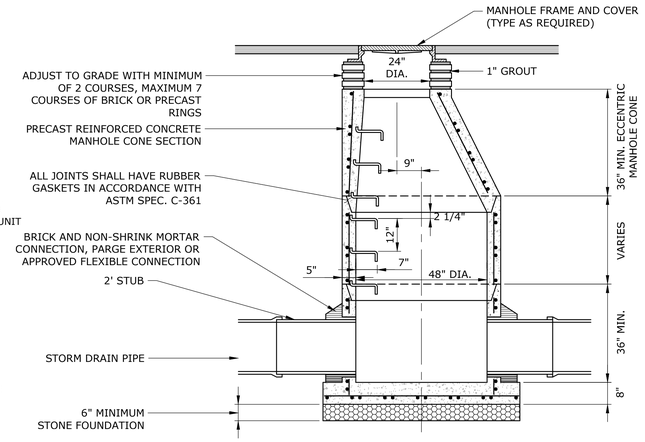
NOTES:

1. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT. THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.
2. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

TYPE "C" CATCH BASIN

NOT TO SCALE



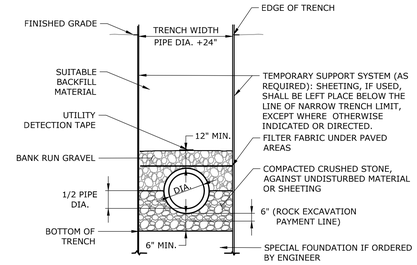


NOTES:

1. 5' OR 6' DIAMETER PRECAST BASES MAY BE REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" OF INSIDE DIAMETER.

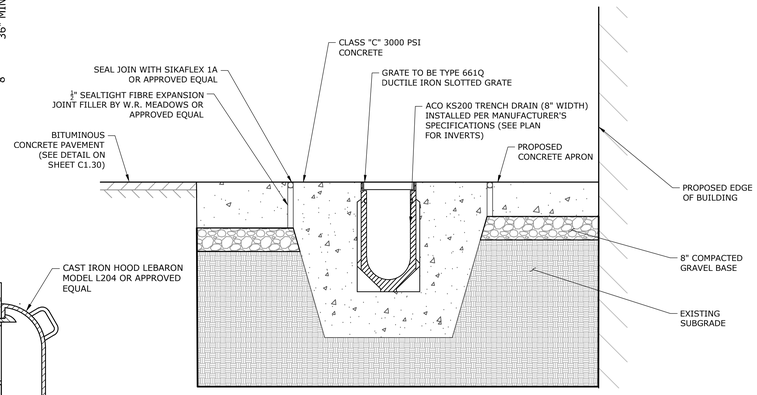
PRECAST CONCRETE STORM DRAINAGE MANHOLE

NOT TO SCALE



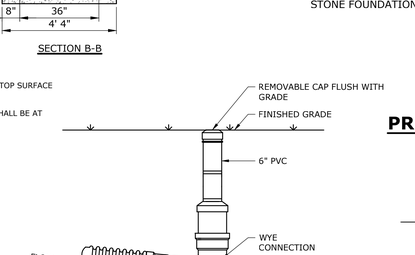
STORM DRAINAGE TRENCH

NOT TO SCALE



TRENCH DRAIN WITH CONCRETE APRON

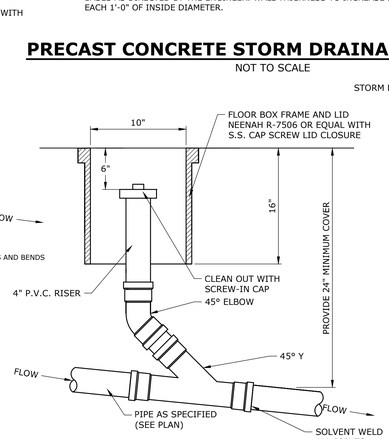
NOT TO SCALE



NOTE:
CLEANOUT TO BE INSTALLED OVER ROOF LEADER WYE CONNECTIONS AND BENDS

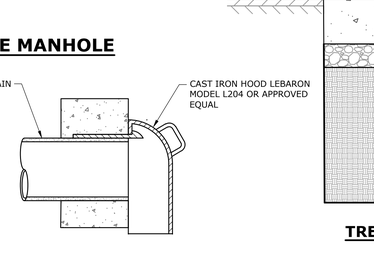
ROOF LEADER CLEAN OUT FOR UNPAVED SURFACES

NOT TO SCALE



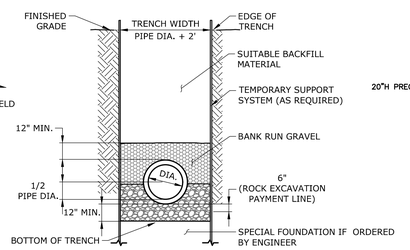
ROOF LEADER CLEAN OUT FOR PAVED SURFACES

NOT TO SCALE



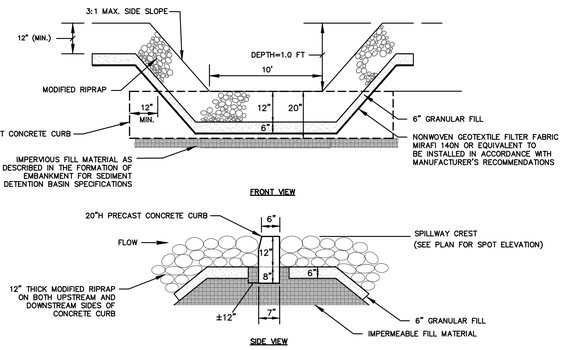
HOODED CATCH BASIN TRAP

NOT TO SCALE



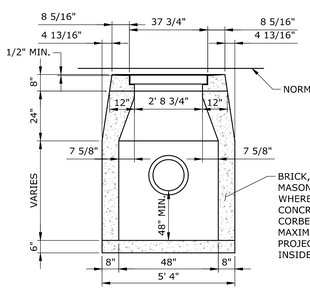
SANITARY SEWER TRENCH

NOT TO SCALE

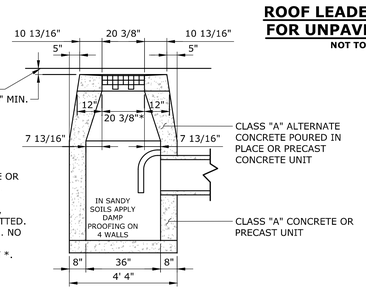


EMERGENCY RIPRAP SPILLWAY

NOT TO SCALE



SECTION A-A



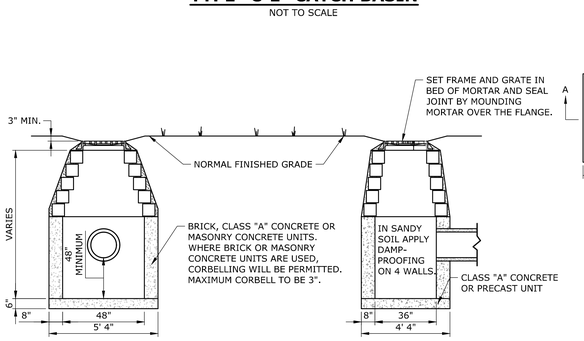
SECTION B-B

NOTES:

1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

TYPE "C-L" CATCH BASIN

NOT TO SCALE



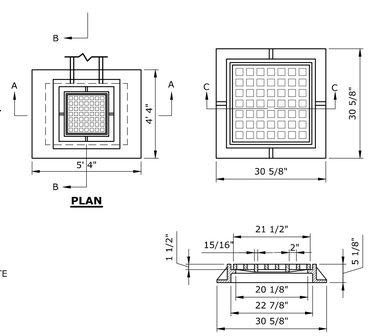
SECTION A-A SECTION B-B

NOTES:

1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

YARD DRAIN

NOT TO SCALE



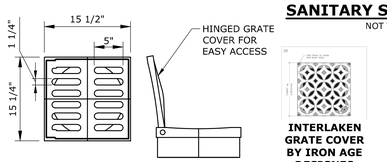
SECTION C-C

NOTES:

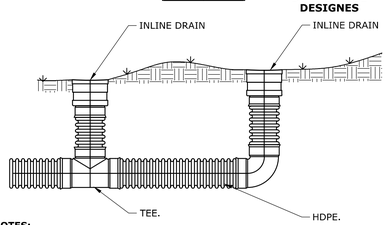
1. YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.

YARD DRAIN FRAME & GRATE

NOT TO SCALE



INTERLAKEN GRATE COVER BY IRON AGE DESIGNES

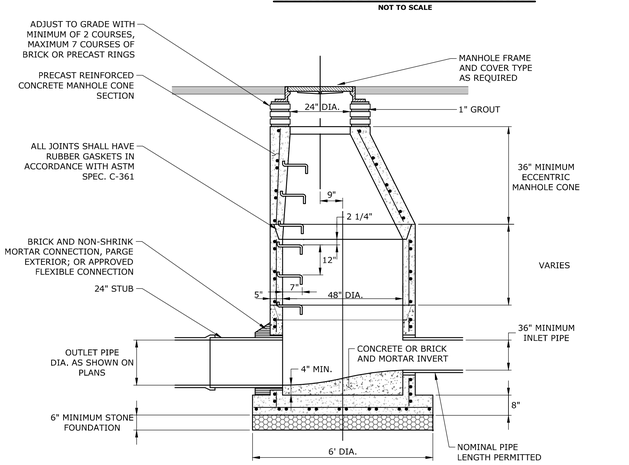


NOTES:

1. ALL AREA DRAIN GRATES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS.
   1.1. 15" CAST IRON GRATE DRAIN AREA = 92.5SQ. INCH GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING .
   1.2. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B.
   1.3. CASTINGS ARE FURNISHED WITH A BLACK PAINT.
   1.4. INLINE DRAIN TO BE NYLOPLAST INC OR APPROVED EQUAL.

AREA DRAIN AND GRATE

NOT TO SCALE



PRECAST CONCRETE SANITARY MANHOLE

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203.271.1773
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BLOOMFIELD, CT 06002

PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SITE DETAILS

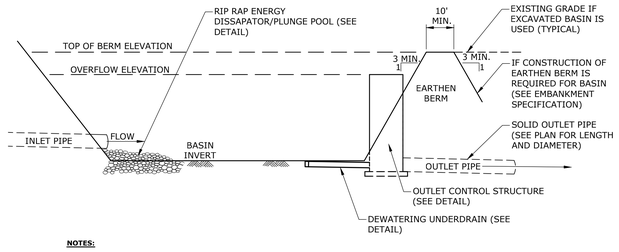
STATE PROJ NO.	
PROJECT NO.	200802
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C4.0

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NOTES:

1. WHERE LEDGE IS ENCOUNTERED, OVER EXCAVATE BY 2 FEET AND REPLACE WITH 18" OF SOIL AND 6" OF TOPSOIL. TOPSOIL IN THE BOTTOM OF ALL BASINS IS TO BE 6" DEEP AND 6% MINIMUM ORGANIC CONTENT.

TYPICAL DETENTION BASIN

NOT TO SCALE

FORMATION OF EMBANKMENTS FOR STORMWATER BASINS

1. MATERIALS

ALL FILL MATERIALS SHALL BE OBTAINED FROM REQUIRED EXCAVATIONS OR DESIGNATED BORROW AREAS. FILL MATERIAL SHALL CONTAIN NO FROZEN MATERIAL, SOD, BRUSH, ROOTS, OR OTHER ORGANIC MATERIAL. EARTH EMBANKMENTS SHALL CONTAIN NO STONES OR ROCK PARTICLES OVER THREE INCHES IN DIAMETER.

THE MATERIAL USED IN THE CENTER PORTION OF THE EMBANKMENT SHALL BE THE MOST IMPERVIOUS MATERIAL OBTAINED FROM THE BORROW AREAS IF REQUIRED. THE MORE PERVIOUS MATERIALS SHALL BE USED IN THE OUTER PORTION OF THE EMBANKMENT AS SHOWN ON THE PLANS.

A. IMPERVIOUS FILL MATERIALS

IMPERVIOUS FILL SHALL BE A GLACIAL TILL, AND TO BE PROVIDED FROM AN OFFSITE SOURCE IN THE QUANTITIES REQUIRED FOR COMPLETION. FILL TO BE APPROVED BY THE ENGINEER. GLACIAL TILL SHALL CONSIST OF HARD AND DURABLE PARTICLES OR FRAGMENTS AND SHALL BE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIALS. GLACIAL TILL SHALL GENERALLY CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
3 INCH	100
NO. 4	60-95
NO. 10	50-95
NO. 40	30-75
NO. 100	20-65
NO. 200	10-40

2. EMBANKMENT FOUNDATION PREPARATION

AREAS WHERE EMBANKMENTS ARE TO BE FORMED SHALL BE CLEARED AND GRUBBED OF ALL TOPSOIL AND OTHER ORGANIC MATERIALS TO A DEPTH OF AT LEAST 24 INCHES. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, FOUNDATION AREAS SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF FILL MATERIAL.

3. PLACEMENT

NO FILL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION AND EXCAVATIONS IN THE FOUNDATION HAVE BEEN COMPLETED. NO FILL SHALL BE PLACED ON A FROZEN SURFACE NOR SHALL FROZEN MATERIAL BE INCORPORATED.

A. EMBANKMENT

MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS. THE THICKNESS OF LAYERS SHALL BE SIX INCHES. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHALL HAVE A CROWN OR CROSS-SLOPE OF NOT LESS THAN TWO PERCENT. EACH LAYER OR LIFT SHALL EXTEND OVER THE ENTIRE AREA OF THE FILL.

THE FILL SHALL BE FREE FROM LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. THE MORE PERVIOUS MATERIAL SHALL BE PLACED IN THE OUTSIDE PORTION OF THE EMBANKMENT OR AS INDICATED ON THE DRAWINGS. THE FINISHED FILL SHALL BE SHAPED AND GRADED TO THE LINES AND GRADE SHOWN ON THE DRAWINGS.

B. BACKFILL AT THE PIPE OUTLET

BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED THREE INCHES IN THICKNESS AND SHALL BE BROUGHT UP UNIFORMLY AROUND THE OUTLET PIPE AND FLARED END SECTION

4. MOISTURE CONTROL

THE MOISTURE CONTENT OF MATERIALS IN THE EMBANKMENT SHALL BE CONTROLLED TO MEET THE REQUIREMENTS OF SECTION 5, "COMPACTION OF EMBANKMENT," WHEN NECESSARY, MOISTURE SHALL BE ADDED BY USE OF APPROVED SPRINKLING EQUIPMENT. WATER SHALL BE ADDED UNIFORMLY AND EACH LAYER SHALL BE THOROUGHLY DISKED OR HARROWED TO PROVIDE ROPER MIXING. ANY LAYER FOUND TOO WET FOR PROPER COMPACTION SHALL BE ALLOWED TO DRY BEFORE ROLLING. PLACING OR ROLLING OF MATERIAL ON EARTH FILLS WILL NOT BE PERMITTED DURING OR IMMEDIATELY AFTER RAINFALLS WHICH INCREASE THE MOISTURE CONTENT BEYOND THE LIMIT OF SATISFACTORY COMPACTION. THE EARTH FILL SHALL BE BROUGHT UP UNIFORMLY AND ITS TOP SHALL BE KEPT GRADED AND SLOPED SO THAT A MINIMUM OF RAINWATER WILL BE RETAINED THEREON. COMPACTED EARTH FILL DAMAGED BY WASHING SHALL BE ACCEPTABLY REPLACED BY THE CONTRACTOR.

5. COMPACTION

A. EMBANKMENT

EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AND BY THE COMPACTION EQUIPMENT SPECIFIED HEREIN. THE COMPACTION EQUIPMENT SHALL TRAVERSE THE ENTIRE SURFACE OF EACH LAYER OF FILL MATERIAL.

APPROVED TAMPING ROLLERS SHALL BE USED FOR COMPACTING ALL PARTS OF THE EMBANKMENTS WHICH THEY CAN EFFECTIVELY REACH. THE CONTRACTOR SHALL DEMONSTRATE THE EFFECTIVENESS OF THE ROLLER BY ACTUAL SOIL COMPACTION RESULTS OF THE SOIL TO BE USED IN THE EMBANKMENT WITH LABORATORY WORK PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.

B. BACKFILL AT OUTLET CONDUIT

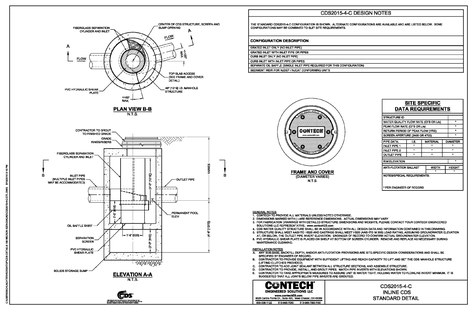
BACKFILL SHALL BE COMPACTED BY HAND TAMPING WITH MECHANICAL TAMPERS. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN TWO FEET OF ANY STRUCTURE. EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE OUTLET CONDUITS UNTIL THERE IS 24 INCHES OF FILL OVER THE PIPE CONDUITS.

6. FINISHING EMBANKMENTS

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS, LINES, GRADES AND CROSS-SECTIONS AS SHOWN ON THE DRAWINGS. THE EMBANKMENTS SHALL BE MAINTAINED IN A MANNER SATISFACTORY TO THE ENGINEER AND SURFACES SHALL BE COMPACT AND ACCURATELY GRADED BEFORE TOPSOIL IS PLACED ON THEM. THE CONTRACTOR SHALL CHECK THE EMBANKMENT SLOPES WITH STRING LINES TO INSURE THAT THEY CONFORM TO THE SLOPES GIVEN ON THE PLANS AND ARE UNIFORM FOR THE ENTIRE LENGTH OF THE SLOPE.

7. CONTROL OF WATER

THE PROJECT SITE IS SUBJECT TO HIGH WATER TABLE. THE CONTRACTOR SHALL USE TEMPORARY PIPES OR PUMPS TO ASSURE PLACEMENT OF SELECT FILL IN DRY CONDITIONS.



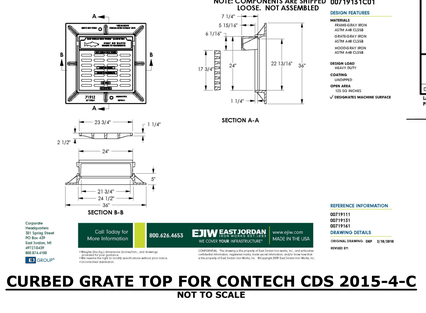
CONTECH CDS 2015-4-C

NOT TO SCALE

OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES 14	MODIFIED TYPE B	1.0	1.0	10.0	3.0	7.0	12

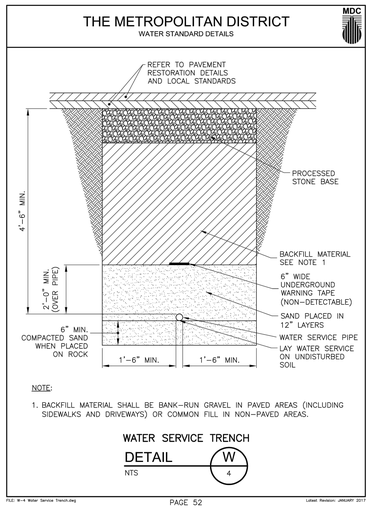
FLARED END WITH RIP RAP SPLASH PAD

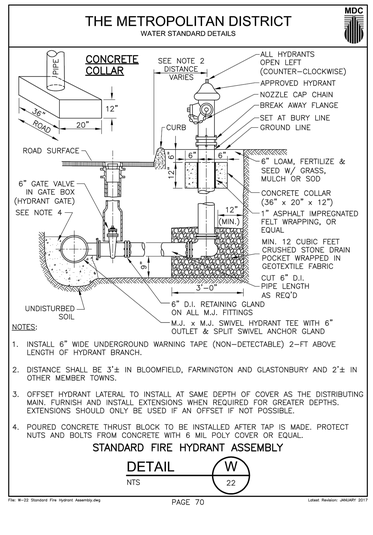
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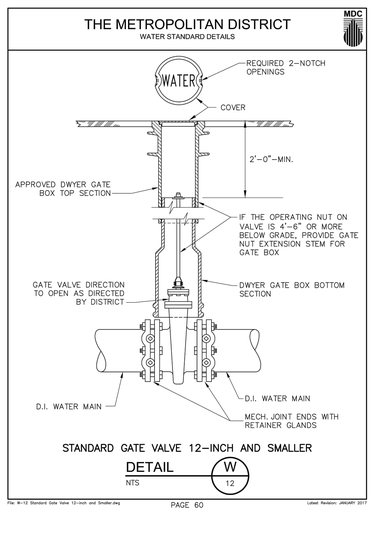


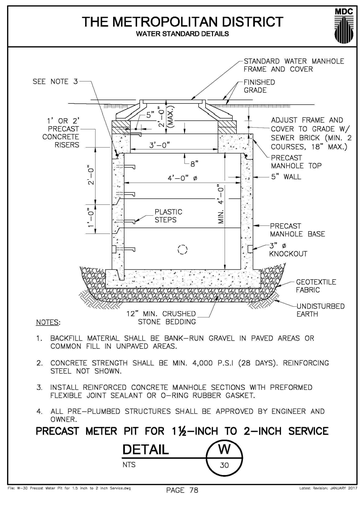
CURBED GRATE TOP FOR CONTECH CDS 2015-4-C

NOT TO SCALE









GENERAL NOTES:

1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:

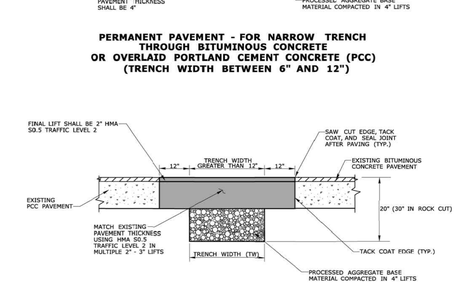
a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

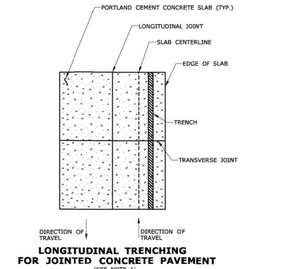
2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:

a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"





SIGNATURE/ BLOCK:	APPROVED BY:
OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
DESIGNER/DRAFTER: CHECKED BY:	PROJECT NUMBER: #### PROJECT DESCRIPTION: #### TOWN(S): #### DRAWING TITLE: PAVEMENT REPAIR
LAST SAVED BY: RichardH FILE NAME: I:\CT_CONNECT_DOT\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.cel PLOTTED DATE: 10/13/2021	DRAWING NO.: #### SHEET NO.:

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE DETAILS

STATE PROJ NO.	
PROJECT NO.	200802
SCALE	1"=20'
DATE:	10/06/2022
DRAWN BY:	RYE
CHECKED BY:	TD

ISSUE DATES

NO.	DATE	PURPOSE

C4.1

Plotted By: ALEXANDRA.CODY.HEBERT on 10/13/2021 - 10:19:27 AM
Plotted To: \\ctdot.net\dfs\Data\Projects\Bureau\Engineering And Construction\Local\Projects\Newington\Newington_Pavement Repair_Contract\Plans\Sheets\Newington_Pavement Repair_Contract_Sheet_Details.dgn



SITE ILLUSTRATIVE LEGEND

- CONCRETE WALK
- HEAVY DUTY CONCRETE PAVEMENT
- MAINTENANCE STRIP
- BITUMINOUS PAVEMENT
- LAWN
- WATER QUALITY BASIN
- EXISTING DECIDUOUS TREE TO REMAIN
- FLOWERING TREE
- MULTI-STEM BIRCH
- SHADE TREE
- PAVEMENT SAWCUT
- 10' FRONT YARD SETBACK
- EASEMENT
- FLOOD ZONE
- FLOOD WAY
- WETLAND LIMIT
- WATERCOURSE
- CRZ CRZ CRZ CRZ CRITICAL ROOT ZONE
- SRZ SRZ SRZ SRZ STRUCTURAL ROOT ZONE
- UPLAND REVIEW AREA
- PROPERTY LINE

0 15 30 60'

SCALE: 1" = 30' - 0"

DEVELOPMENT SUMMARY

PARCEL SIZE:	±3.78 Ac
ZONE:	BCD
PARKING:	93 TOTAL
STANDARD:	85
ACCESSIBLE:	6
ACCESSIBLE EV:	2

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LANDSCAPE ARCHITECT

Richter & Cegan Inc.

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P.O. BOX 567
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PHONE: 860-678-0669

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

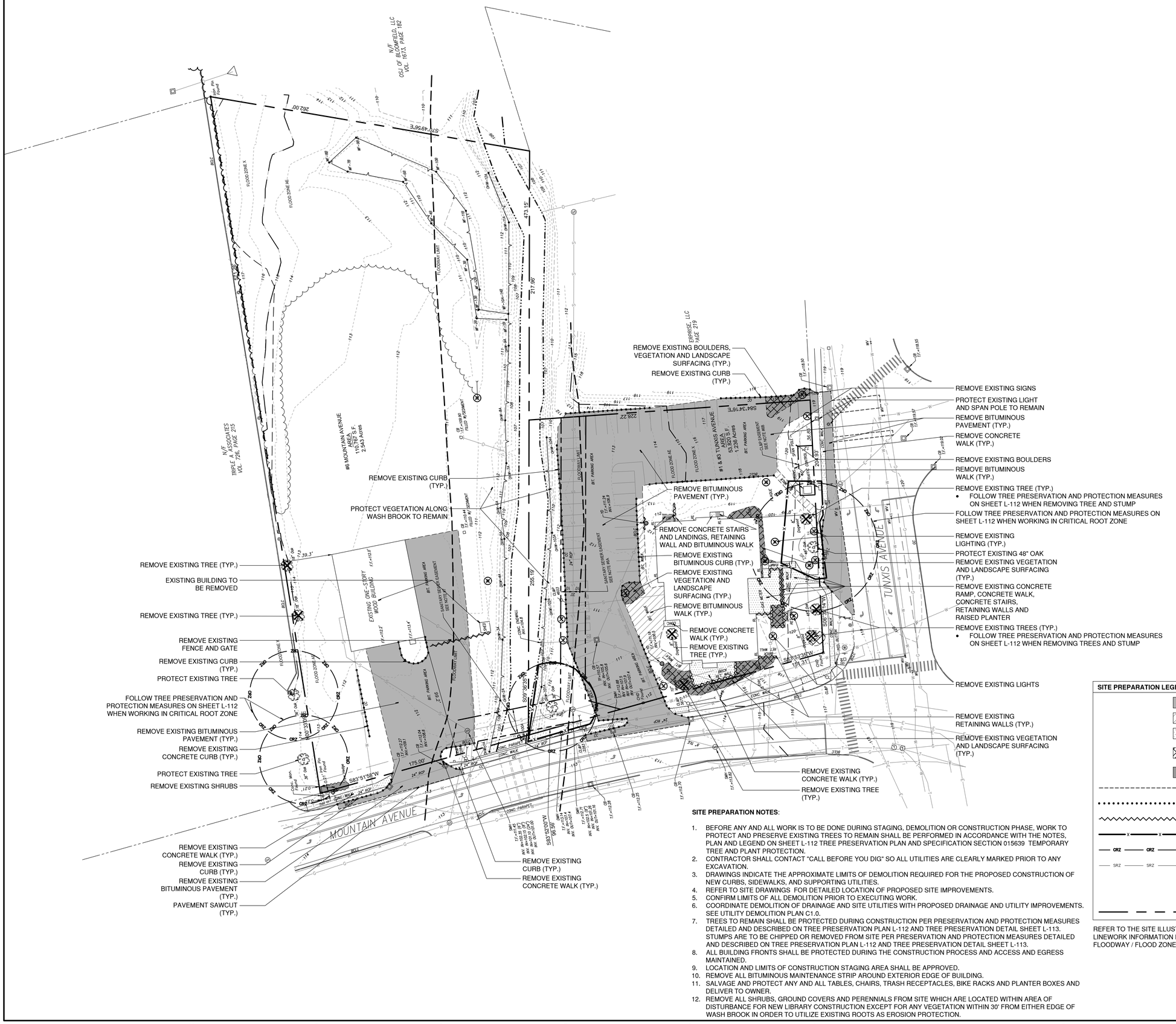
SITE ILLUSTRATIVE PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-100



SITE PREPARATION NOTES:

1. BEFORE ANY AND ALL WORK IS TO BE DONE DURING STAGING, DEMOLITION OR CONSTRUCTION PHASE, WORK TO PROTECT AND PRESERVE EXISTING TREES TO REMAIN SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES, PLAN AND LEGEND ON SHEET L-112 TREE PRESERVATION PLAN AND SPECIFICATION SECTION 015639 TEMPORARY TREE AND PLANT PROTECTION.
2. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" SO ALL UTILITIES ARE CLEARLY MARKED PRIOR TO ANY EXCAVATION.
3. DRAWINGS INDICATE THE APPROXIMATE LIMITS OF DEMOLITION REQUIRED FOR THE PROPOSED CONSTRUCTION OF NEW CURBS, SIDEWALKS, AND SUPPORTING UTILITIES.
4. REFER TO SITE DRAWINGS FOR DETAILED LOCATION OF PROPOSED SITE IMPROVEMENTS.
5. CONFIRM LIMITS OF ALL DEMOLITION PRIOR TO EXECUTING WORK.
6. COORDINATE DEMOLITION OF DRAINAGE AND SITE UTILITIES WITH PROPOSED DRAINAGE AND UTILITY IMPROVEMENTS. SEE UTILITY DEMOLITION PLAN C1.0.
7. TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION PER PRESERVATION AND PROTECTION MEASURES DETAILED AND DESCRIBED ON TREE PRESERVATION PLAN L-112 AND TREE PRESERVATION DETAIL SHEET L-113. STUMPS ARE TO BE CHIPPED OR REMOVED FROM SITE PER PRESERVATION AND PROTECTION MEASURES DETAILED AND DESCRIBED ON TREE PRESERVATION PLAN L-112 AND TREE PRESERVATION DETAIL SHEET L-113.
8. ALL BUILDING FRONTS SHALL BE PROTECTED DURING THE CONSTRUCTION PROCESS AND ACCESS AND EGRESS MAINTAINED.
9. LOCATION AND LIMITS OF CONSTRUCTION STAGING AREA SHALL BE APPROVED.
10. REMOVE ALL BITUMINOUS MAINTENANCE STRIP AROUND EXTERIOR EDGE OF BUILDING.
11. SALVAGE AND PROTECT ANY AND ALL TABLES, CHAIRS, TRASH RECEPTACLES, BIKE RACKS AND PLANTER BOXES AND DELIVER TO OWNER.
12. REMOVE ALL SHRUBS, GROUND COVERS AND PERENNIALS FROM SITE WHICH ARE LOCATED WITHIN AREA OF DISTURBANCE FOR NEW LIBRARY CONSTRUCTION EXCEPT FOR ANY VEGETATION WITHIN 30' FROM EITHER EDGE OF WASH BROOK IN ORDER TO UTILIZE EXISTING ROOTS AS EROSION PROTECTION.

SITE PREPARATION LEGEND

- BITUMINOUS CONCRETE PAVEMENT REMOVAL
- BITUMINOUS WALK REMOVAL
- CONCRETE WALK REMOVAL
- LANDSCAPE SURFACE REMOVAL (MULCH/GRAVEL)
- VEGETATION REMOVAL
- PAVEMENT SAWCUT
- CURB REMOVAL
- FENCE/WALL/STAIR REMOVAL
- TREE PROTECTION FENCE (1 / L-113)
- CRITICAL ROOT ZONE (CRZ)
- STRUCTURAL ROOT ZONE (SRZ)
- TREE AND STUMP REMOVAL
- SIGN/LIGHT REMOVAL
- PROPERTY LINE

REFER TO THE SITE ILLUSTRATIVE LEGEND ON SHEET L-100 FOR LINEWORK INFORMATION PERTAINING TO WATERCOURSE AND FLOODWAY / FLOOD ZONE INFORMATION.

0 15 30 60'

SCALE: 1" = 30' - 0"

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE PREPARATION PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-111

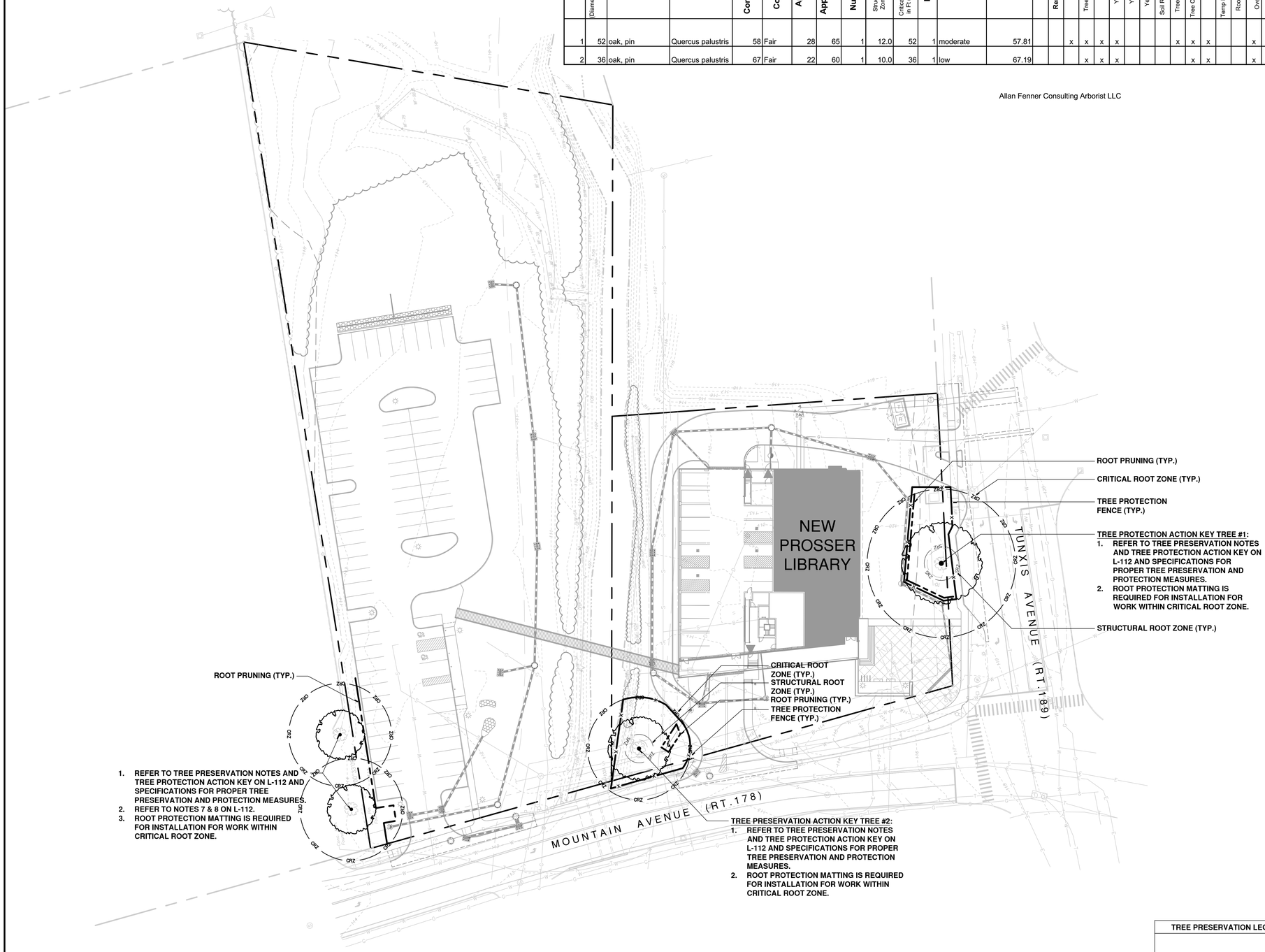
Date:9/28/2022

Tree Protection Action Key

Project: Prosser Library

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	Approx Canopy Radius (FT)	Approx Tree Height (FT)	Number of Stems	SCRZ: Structural Critical Root Zone (radius) in Feet	CRZ: Critical Root Zone Radius in Ft (1 ft radius/in DBH)	Priority (1-4)	Tree level of concern	Tree level of concern	Removal	Removal By Arborist	Recommended Preservation Measures: Root Prune	Tree Protection Fence	Mulch	Year 1 Soil Care	Year 2 Soil Care	Year 3-5 Soil Care	Soil Restoration/Aeration	Tree Growth Regulator	Tree Condition Inspections	Watering	Temp Root Protection Matt	Root Aeration Matting	Construction Oversight/Monitoring	Support Cable	Canopy Prune	Comments	Additional Notes	Condition Notes
1	52	oak, pin	Quercus palustris	58	Fair	28	65	1	12.0	52	1	moderate	57.81				x	x	x					x	x	x			x		x		Special measures required	Full Crown, Small DW (1-2"), Compacted Soils, Stressed, Mechanical Damage,
2	36	oak, pin	Quercus palustris	67	Fair	22	60	1	10.0	36	1	low	67.19				x	x	x						x	x			x		x		Special measures required	Full Crown, Small DW (1-2"), Compacted Soils, Stressed,

Allan Fenner Consulting Arborist LLC



TREE PRESERVATION NOTES:

1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY WORK AND MAINTAINED THROUGHOUT THE PROJECT. FENCE SHALL BE REMOVED ONLY WITH OWNER APPROVAL.
   1.1. CONTRACTOR TO COORDINATE TREE PROTECTION FENCE WITH CONSTRUCTION FENCING.
2. TREE TRUNK AND ROOT FLARE PROTECTION SHALL BE INSTALLED AS NOTED PRIOR TO ANY SITE ACTIVITY.
   2.1. TREE TRUNK PROTECTION WRAP SHALL BE INSTALLED WHERE NOTED ON PLANS PRIOR TO ANY SITE ACTIVITY. ADDITIONAL TREE PROTECTION WRAP WILL BE REQUIRED WHEN CONSTRUCTION ACTIVITIES ARE EXPECTED TO BE IN CLOSE PROXIMITY TO TREES. SAND BAGS TO BE PLACED OVER ROOT FLARE FOR PROTECTION.
3. SPECIAL "BY HAND" DEMOLITION PROCEDURES:
   3.1. DEMOLITION OF WALKS, WALLS AND OTHER IMPROVEMENTS WITHIN TREE PROTECTION ZONES SHALL BE PERFORMED BY CONTRACT ARBORIST OR DIRECTLY SUPERVISED BY A CERTIFIED ARBORIST.
   3.2. "BY HAND" WORK BY USING HAND TOOLS, WHEELBARROWS, ETC. AS MUCH AS PRACTICAL. IF MECHANIZED EQUIPMENT IS NECESSARY, IT SHALL BE THE SMALLEST FOOTPRINT POSSIBLE TO PERFORM THE TASK UNDER CERTIFIED CONDITIONS.
   3.3. MECHANIZED EQUIPMENT SHALL NOT ENTER THE TREE PROTECTION ZONES EXCEPT AS FOLLOWS:
      3.3.1. ALL EQUIPMENT ACCESS SHALL BE SUPERVISED BY CONTRACT ARBORIST.
      3.3.2. EQUIPMENT SHALL REMAIN ON EXISTING HARD SURFACES OR ON APPROVED ROOT PROTECTION MATERIAL, MATTING, ALTURNAMAT® OR EQUIVALENT.
      3.3.3. EQUIPMENT TRAVEL SHALL BE MINIMIZED IN TREE PROTECTION ZONES.
      3.3.4. STAGING OR MATERIAL STOCKPILING SHALL NOT OCCUR ON TREE PROTECTION ZONES, IF STAGING IS REQUIRED.
   3.4. BACKFILL OF VOIDS FROM DEMOLITION WITHIN THE TREE PROTECTION ZONES SHALL BE LOOSELY PLACED TOPSOIL. ONLY THE AMOUNT OF SOIL NECESSARY TO FILL THE VOID WITHOUT SPREADING OVER EXISTING ADJACENT GRADES SHALL BE ALLOWED.
4. COORDINATION OF ALL EROSION CONTROL MEASURES WITH ARBORIST TO MINIMIZE ROOT DISTURBANCE.
5. EXISTING WALK, WALLS, AND OTHER IMPROVEMENTS WITHIN THE TREE PROTECTION FENCE MUST BE REMOVED BY HAND AND WITHOUT EXCAVATION TO AVOID DAMAGE TO EXISTING ROOTS. ANY EQUIPMENT ACCESS NEEDED FOR DEMO SHALL REMAIN ON EXISTING HARDSCAPE OR TEMPORARY ROOT PROTECTION MATS APPROVED BY CONTRACT ARBORIST.
6. TRUNK PROTECTION REQUIRED FOR TREES WITHIN OR DIRECTLY ADJACENT TO DEMO WORK.
7. ROOTS ENCOUNTERED DURING DEMOLITION OR SITE PREPARATION SHALL BE REVIEWED ON A CASE-BY-CASE BASIS BY ARBORIST AND APPROPRIATE TREATMENT AND MEASURES APPLIED IN CONFORMANCE WITH CURRENT ANSI A300 STANDARDS.
8. PRUNING OF TREE CANOPY AND OVER HANGING BRANCHES TO BE DONE OR DIRECTLY SUPERVISED BY CONTRACT ARBORIST WHERE DEEMED NECESSARY BY CONTRACT ARBORIST.
9. REFER TO TREE PRESERVATION DETAILS AND THE TREE PROTECTION ACTION KEY FOR ADDITIONAL INFORMATION AND SPECIFIC TREE PROTECTION ACTIVITIES REQUIRED FOR EACH TREE (L-112 AND L-113).
10. REFER TO SPECIFICATION 015639 TEMPORARY TREE AND PLANT PROTECTION FOR ADDITIONAL INFORMATION.
11. REVIEW, COORDINATE AND INSTALL ADDITIONAL TREE PROTECTION MEASURES THAT MAY BE REQUIRED BY THE CONTRACT ARBORIST BASED ON FINAL SITE REVIEW.
12. FOLLOW MEASURES FOR ROOT ZONE, TRUNK, AND CANOPY PROTECTION PER THE TREE PROTECTION ACTION KEY, TREE PRESERVATION PLAN, AND TREE PROTECTION AND PRESERVATION SPECIFICATIONS.

TREE PRESERVATION LEGEND

- EXISTING DECIDUOUS TREE TO BE PROTECTED AND PRESERVED
- SRZ — STRUCTURAL ROOT ZONE
- CRZ — CRITICAL ROOT ZONE
- TREE PROTECTION FENCE (TREE PROTECTION AREA) (1 / L-113)
- ROOT PRUNING
- PROPERTY LINE

0 15 30 60'
SCALE: 1" = 30' - 0"

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

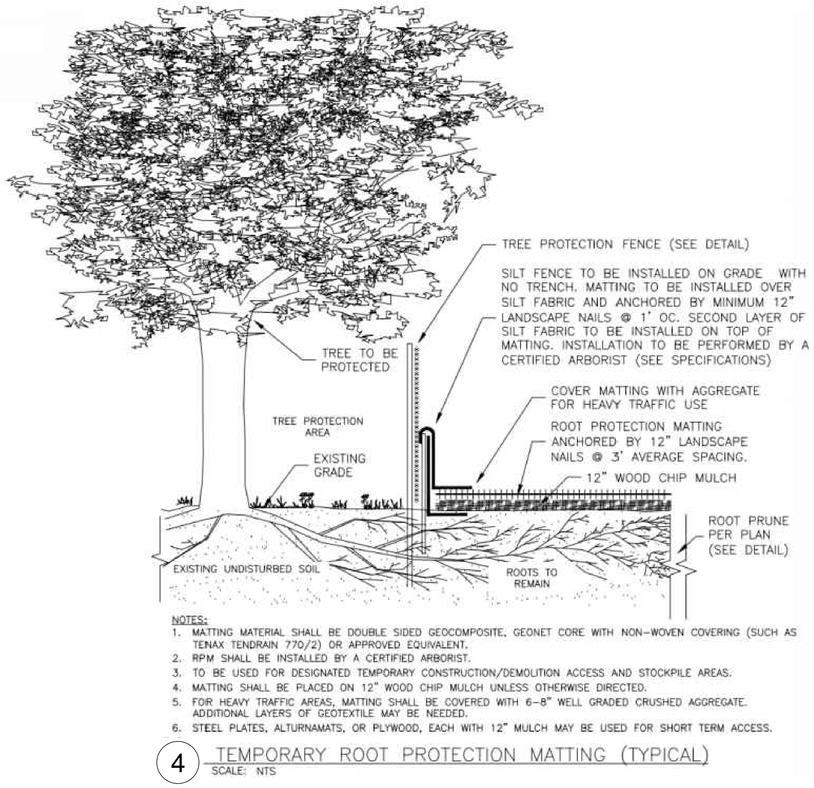
DRAWING TITLE
TREE PRESERVATION PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

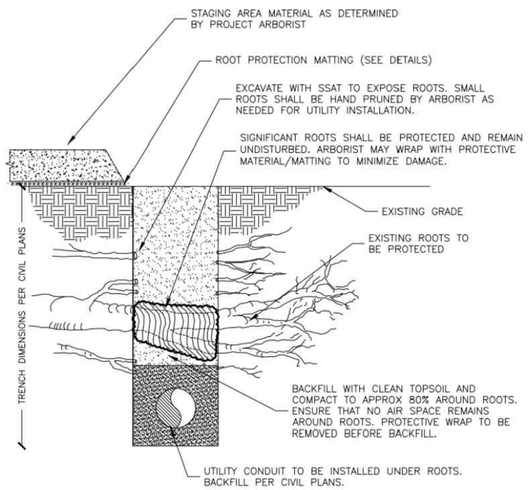
NO.	DATE	PURPOSE

L-112

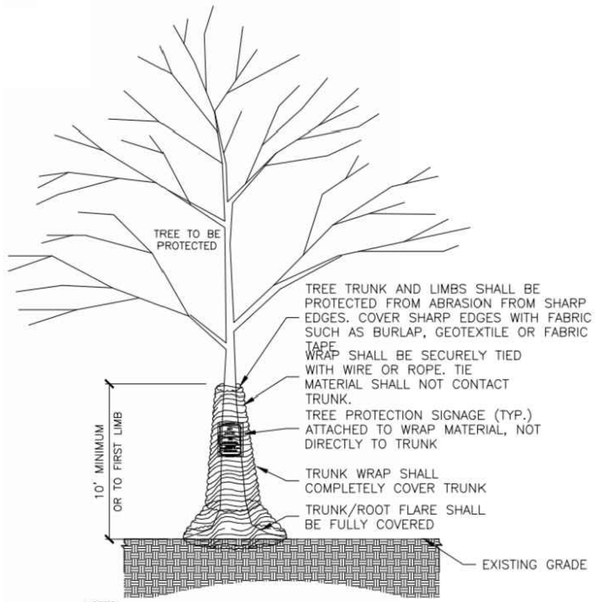


NOTES:
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION/DEMOLITION ACCESS AND STOCKPILE AREAS.
4. MATTING SHALL BE PLACED ON 12" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.
6. STEEL PLATES, ALTURNAMATS, OR PLYWOOD, EACH WITH 12" MULCH MAY BE USED FOR SHORT TERM ACCESS.

4 TEMPORARY ROOT PROTECTION MATTING (TYPICAL)
SCALE: NTS

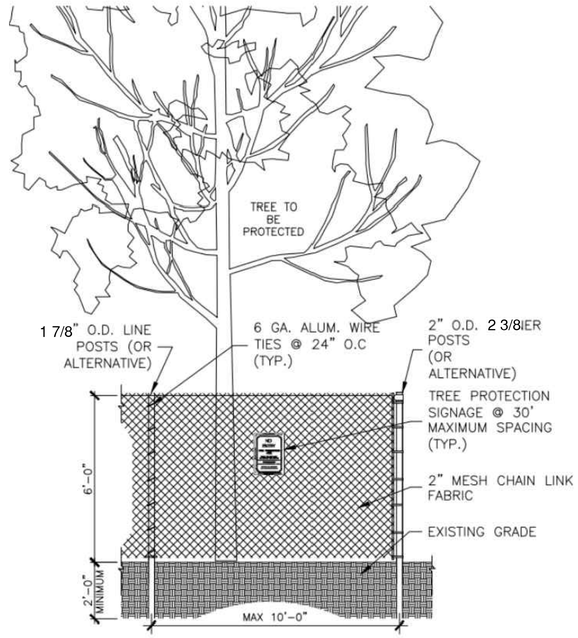


3 ROOT PROTECTION IN UTILITY TRENCH
SCALE: NTS



NOTES:
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR EQUIVALENT.
2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.
5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT ARBORIST.

2 TREE TRUNK & LIMB PROTECTION WRAP (TYP)
SCALE: NTS



NOTES:
1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
2. SUPER SILT FENCE MAY BE USED IN LIEU OF WELDED WIRE FOR TREE PROTECTION PROVIDED IT IS INSTALLED AND MAINTAINED AS A TREE PROTECTION MEASURE AND IS POSTED WITH TREE PROTECTION SIGNS.
3. TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE FENCE ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.

1 CHAIN LINK TREE PROTECTION FENCE (TYPICAL)
SCALE: NTS

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DESIGN DEVELOPMENT

KEY PLAN

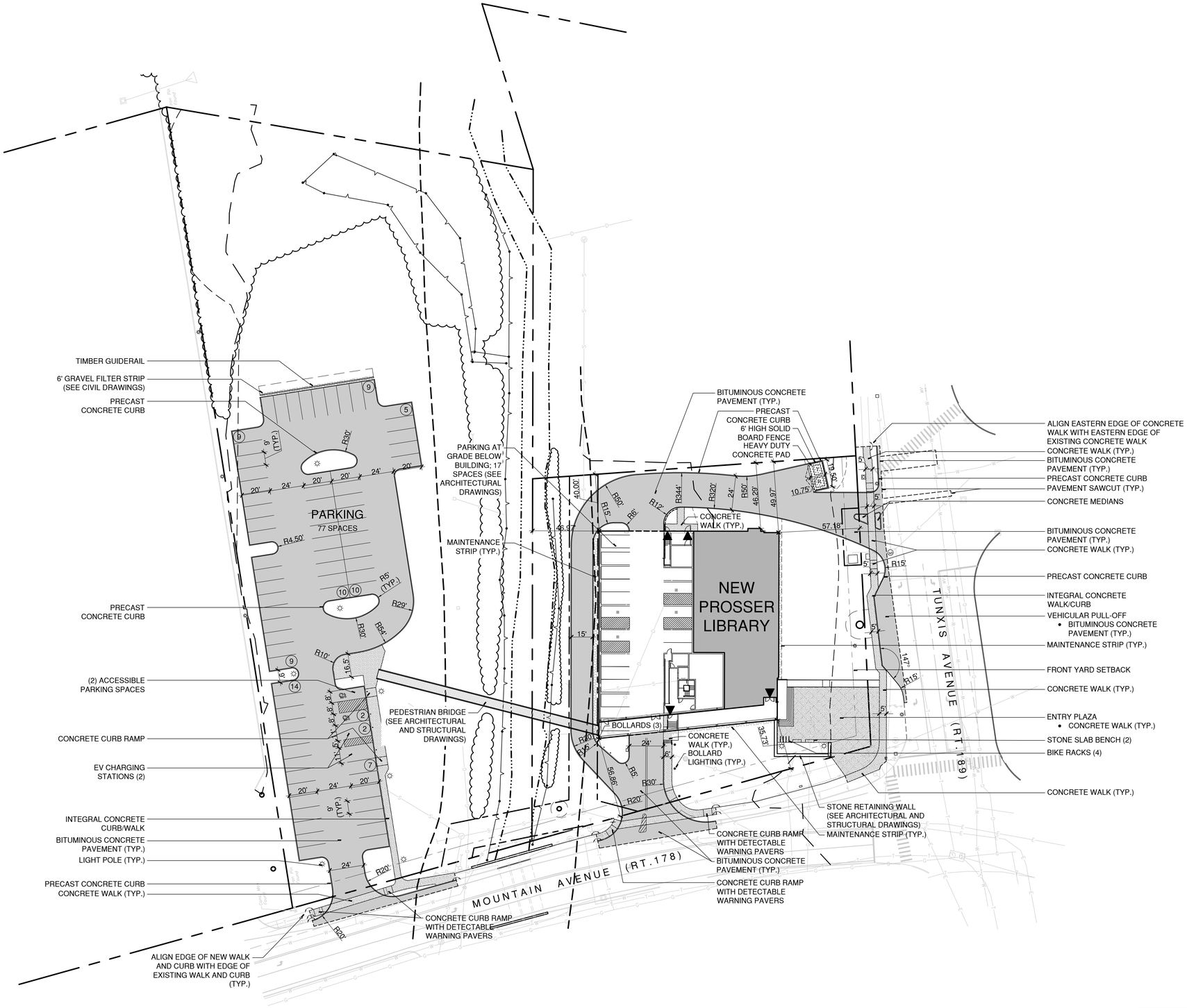
DRAWING TITLE
TREE PRESERVATION DETAILS

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-113



DEVELOPMENT SUMMARY

PARCEL SIZE:	±3.78 Ac
ZONE:	BCD
PARKING:	93 TOTAL
STANDARD:	85
ACCESSIBLE:	6
ACCESSIBLE EV:	2

SITE MATERIALS/LAYOUT NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IN THE FIELD ALL ELEVATIONS, UTILITY LOCATIONS AND SITE CONDITIONS. IF AN UNFORESEEN INTERFERENCE EXISTS BETWEEN AN EXISTING AND PROPOSED UTILITY OR STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT THE APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION.
2. ANY DRAINAGE STRUCTURES, ASPHALT CURBS, OR LAWN AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
3. ALL BASELINES AND DIMENSION LINES ARE PARALLEL OR PERPENDICULAR TO THE TIES FROM WHICH THEY ARE MEASURED UNLESS INDICATED OTHERWISE.
4. ALL BUILDING TIES ARE TO OUTSIDE FACE OF FOUNDATION WALL.
5. DIMENSIONS SHOWN ON DRAWINGS ARE TO FACE OF CURB.
6. ALL PARKING SPACES ARE 9' X 20' UNLESS OTHERWISE INDICATED.
7. ALL PARKING LOT LINES ARE 4" WIDE WHITE REFLECTORIZED PAINT.

SITE LAYOUT AND MATERIALS LEGEND

- BITUMINOUS CONCRETE PAVEMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STONE SURFACING
- VAN ACCESSIBLE PARKING SIGN
- PROPERTY LINE

REFER TO THE SITE ILLUSTRATIVE LEGEND ON SHEET L-100 FOR LINEWORK INFORMATION PERTAINING TO WATERCOURSE AND FLOODWAY / FLOOD ZONE INFORMATION.

0 15 30 60'
SCALE: 1" = 30' - 0"

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE LAYOUT AND MATERIALS PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-121



SITE GRADING NOTES:

1. SEE CIVIL DRAWING SERIES FOR STORMWATER MANAGEMENT SYSTEM INFORMATION.
2. SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOE AND TOP OF SLOPE.
3. MAINTAIN DRAINAGE PATTERNS TO EXISTING DRAINAGE SYSTEMS.
4. ALL WALKWAYS AND NON-ACCESSIBLE PARKING AREAS NOT TO EXCEED 5% MAXIMUM LONGITUDINAL SLOPE.
5. ALL ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
6. ALL RAMPS ON ACCESSIBLE ROUTES SHALL CONFORM TO ICC/ANSI A-117.1-2003 AND ADA REQUIREMENTS, WITH A MAXIMUM LONGITUDINAL SLOPE OF 1:12.
7. SIDEWALK PITCH SHALL BE 1% (1/8"/FT.) MINIMUM TO 2% (1/4"/FT.) MAXIMUM CROSS PITCH.
8. NOTE THAT THE INDICATED BOTTOM OF CURB ELEVATIONS FOR RELOCATED CURBS ARE BASED ON AVAILABLE SURVEY INFORMATION. NOTIFY THE LANDSCAPE ARCHITECT SHOULD EXISTING PAVEMENT ELEVATIONS DIFFER MATERIALLY FROM THE INDICATED ELEVATIONS.
9. ADJUST BOTTOM OF CURB GRADES IF NECESSARY TO MAINTAIN A POSITIVE GUTTER FLOW. THE CURB HEIGHT SHALL NOT BE LESS THAN 5" NOR GREATER THAN 7". NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF CURB, IF SITE CONDITIONS DO NOT MEET THIS CRITERIA.

SITE GRADING LEGEND

●—●		FLUSH
←W—		DIRECTION OF PITCH
	EX	EXISTING ELEVATION TO REMAIN
	BC	BOTTOM OF CURB
	BR	BOTTOM OF RAMP
	BS	BOTTOM OF STAIR
	BSS	BOTTOM OF SEAT STEP
	BW	BOTTOM OF WALL (FINISH GRADE)
	FFE	FINISH FLOOR ELEVATION
	GRND	GROUND
	HP	HIGH POINT
	LP	LOW POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	TR	TOP OF RAMP
	TSS	TOP OF SEAT STEP
	WLK	WALK
	TF	TOP OF FRAME
	TS	TOP OF STAIR
	V.I.F.	VERIFY IN FIELD
CRZ CRZ		CRITICAL ROOT ZONE
SRZ SRZ		STRUCTURAL ROOT ZONE
		PROPERTY LINE

REFER TO THE SITE ILLUSTRATIVE LEGEND ON SHEET L-100 FOR LINEWORK INFORMATION PERTAINING TO WATERCOURSE AND FLOODWAY / FLOOD ZONE INFORMATION.

0 15 30 60'

SCALE: 1" = 30' - 0"

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SITE GRADING PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-131

WATER QUALITY BASIN PLANT SCHEDULE						
CATEGORY	SYM	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
DECIDUOUS SHADE TREES	AR	ACER RUBRUM	RED MAPLE	19	2'-3' SAPLING	B&B OR CONTAINER
SHRUB, PERENNIAL, AND GROUNDCOVER MASSINGS	am	ACORUS AMERICANA	SWEETFLAG	54	2" PLUG	PLUG
	CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	55	18"-24"	CONTAINER
	em	EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED	204	2" PLUG	PLUG
	ep	EUPATORIUM PERFOLIATUM	BONESET	48	2" PLUG	PLUG
	iv	IRIS VERSICOLOR	BLUE FLAG IRIS	108	2" PLUG	PLUG
	SCE	SAMBUCUS CANADENSIS	COMMON ELDERBERRY	21	18"-24"	CONTAINER
	sc	SCIRPUS CYPERINUS	WOOLGRASS	31	2" PLUG	PLUG
	vh	VERBENA HASTATA	BLUE VERVAIN	28	2" PLUG	PLUG

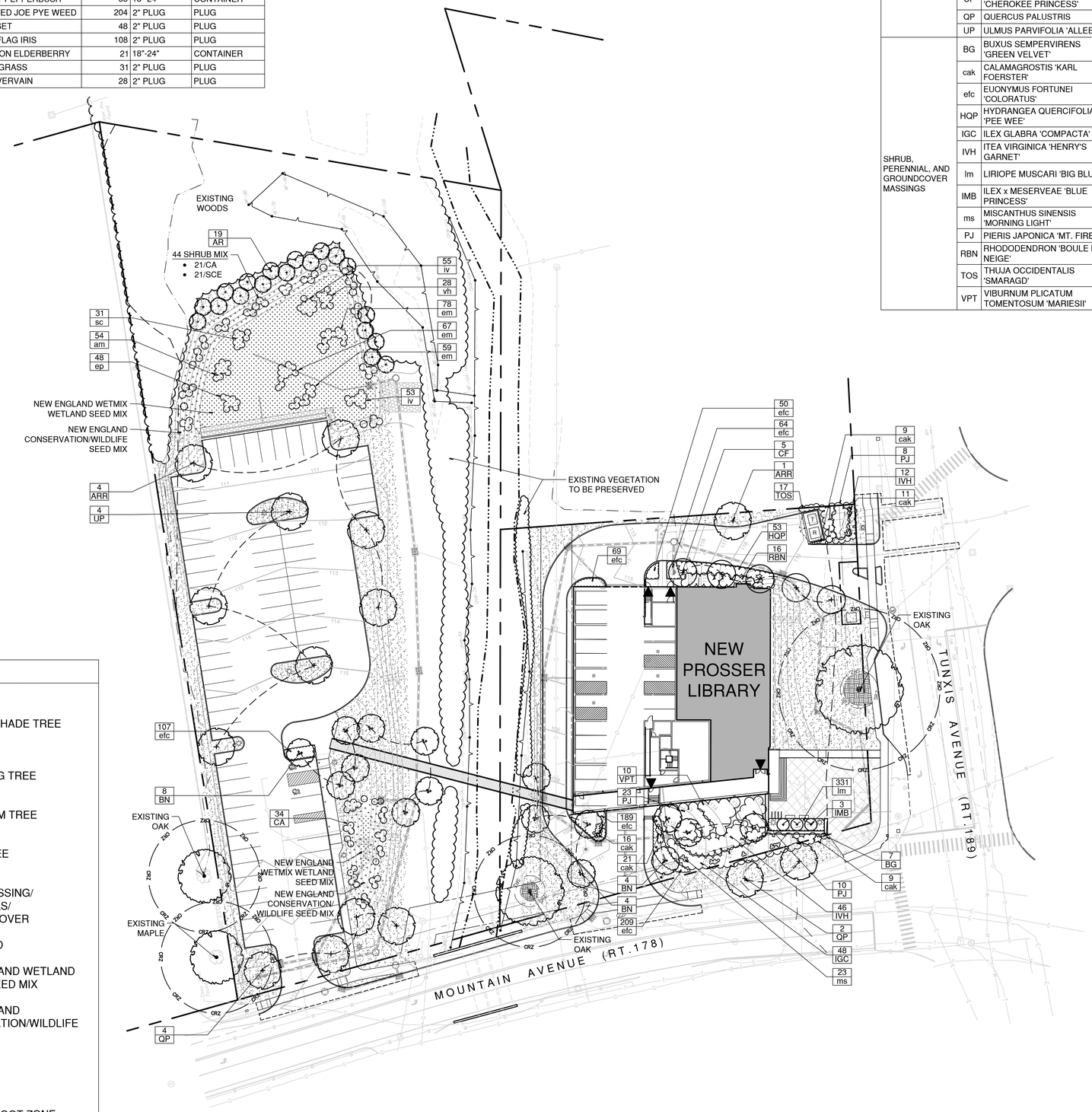
NEW ENGLAND WETMIX (WETLAND SEED MIX)	
BOTANICAL NAME	COMMON NAME
ASCLEPIAS INCARNATA	SWAMP MILKWEED
ASTER LATERIFLORUS (SYMPHYOTRICHUM LATERIFLORUM)	STARVED/CALICO ASTER
BIDENS FRONDOSA	BEGGAR TICKS
CAREX CRINITA	FRINGED SEDGE
CAREX LUPULINA	HOP SEDGE
CAREX LURIDA	LURID SEDGE
CAREX SCOPARIA	BLUNT BROOM SEDGE
CAREX VULPINOIDEA	FOX SEDGE
EUPATORIUM MACULATUM (EUTROCHIUM MACULATUM)	SPOTTED JOE PYE WEED
GLYCERIA GRANDIS	AMERICAN MANNAGRASS
IRIS VERSICOLOR	BLUE FLAG
JUNCUS EFFUSUS	SOFT RUSH
MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
POA PALUSTRIS	FOWL BLUEGRASS
SCIRPUS ATROVIRENS	GREEN BULRUSH
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED

NEW ENGLAND CONVERSATION/WILDLIFE MIX	
BOTANICAL NAME	COMMON NAME
ANDROPOGON GERERDII	BIG BLUESTEM
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED
ASTER PILOSUS (SYMPHYOTRICHUM PILOSUM)	HEATH (OR HAIRY) ASTER
BIDENS FRONDOSA	BEGGAR TICK
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
DESMODIUM CANADENSE	SHOWY TICK TREFOIL
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
EUPATORIUM PURPUREUM (EUTROCHIUM MACULATUM)	PURPLE JOE PYE WEED
FESTUCA RUBRA	RED FESCUE
PANICUM VIRGATUM	SWITCH GRASS
RUDBECKIA HIRTA	BLACK EYED SUSAN
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SOLIDAGO JUNCEA	EARLY GOLDENROD
SORGHASTRUM NUTANS	INDIAN GRASS

SITE PLANTING LEGEND

- EXISTING SHADE TREE
- FLOWERING TREE
- MULTI-STEM TREE
- SHADE TREE
- SHRUB MASSING/ PERENNIALS/ GROUND COVER
- LAWN SEED
- NEW ENGLAND WETLAND WETMIX SEED MIX
- NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- MULCH
- EASEMENT
- CRITICAL ROOT ZONE
- STRUCTURAL ROOT ZONE
- PROPERTY LINE

REFER TO THE SITE ILLUSTRATIVE LEGEND ON SHEET L-100 FOR LINEWORK INFORMATION PERTAINING TO WATERCOURSE AND FLOODWAY / FLOOD ZONE INFORMATION.



GENERAL PLANT SCHEDULE						
CATEGORY	SYM	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
TREES	ARR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	5	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
	BN	BETULA NIGRA 'DURA HEAT'	DURAHEAT RIVER BIRCH	16	12-14' HT.	B&B, MULTI-STEM
	CF	CORNUS FLORIDA 'CHEROKEE PRINCESS'	CHEROKEE PRINCESS FLOWERING DOGWOOD	5	3"-3 1/2" CAL.	B&B
	QP	QUERCUS PALUSTRIS	PIN OAK	6	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
	UP	ULMUS PARVIFOLIA 'ALLEE'	ALLEE CHINESE ELM	4	4"-4 1/2" CAL.	B&B, HIGH BRANCHING
SHRUB, PERENNIAL, AND GROUNDCOVER MASSINGS	BG	BUXUS SEMPERVIRENS 'GREEN VELVET'	GREEN VELVET BOXWOOD	7	24"-30" HT.	B&B OR CONTAINER @ 4' O.C.
	cak	CALAMAGROSTIS 'KARL FOERSTER'	KARL FOERSTER REED GRASS	66	#1 CONT.	CONTAINER @ 18" O.C.
	efc	EUONYMUS FORTUNEI 'COLORATUS'	WINTERCREEPER	688	#1 CONT.	CONTAINER @ 15" O.C.
	HQP	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	53	18"-24" HT.	CONTAINER
	IGC	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	48	24"-30" HT.	CONTAINER
	IVH	ITEA VIRGINICA 'HENRY'S GARNET'	VIRGINIA SWEETSPIRE	58	24"-30" HT.	CONTAINER
	lm	LIRIOPE MUSCARI 'BIG BLUE'	LILY TURF	331	#1 CONT.	CONTAINER @ 12" O.C.
	IMB	ILEX x MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS JAPANESE HOLLY	3	7'-8' HT.	B&B, HEAVY SPECIMEN, MATCHING
	ms	MISCANTHUS SINENSIS 'MORNING LIGHT'	CHINESE SILVER GRASS	23	#1 CONT.	CONTAINER @ 30" O.C.
	PJ	PIERIS JAPONICA 'MT. FIRE'	MT. FIRE PIERIS	41	30"-36" HT.	CONTAINER
	RBN	RHODODENDRON 'BOULE DE NEIGE'	BOULE DE NEIGE RHODODENDRON	16	24"-30" HT.	CONTAINER
	TOS	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITEA	17	8'-9' HT.	CONTAINER
	VPT	VIBURNUM PLICATUM TOMENTOSUM 'MARIESII'	DOUBLEFILE VIBURNUM	10	3-3 1/2" HT.	B&B, HEAVY, OR #10 CONTAINER

SITE PLANTING NOTES:

1. SEE DRAWING L-141 FOR PLANT SCHEDULE AND DRAWING L-503 PLANTING DETAILS.
2. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 6" AND SEEDED.
3. ALL PLANT BEDS TO BE TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 18".
4. MULCH ALL NEW PLANT BEDS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT) FOR TREES AND SHRUBS, AND A 2" DEPTH (AFTER SETTLEMENT) FOR PERENNIAL AND GROUNDCOVER BEDS. MULCH FOR SAUCERS AND PLANTING AREAS TO BE DOUBLE SHREDDED BARK MULCH.
5. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED.

0 15 30 60'
SCALE: 1" = 30' - 0"

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PROJECT
DESIGN DEVELOPMENT

KEY PLAN

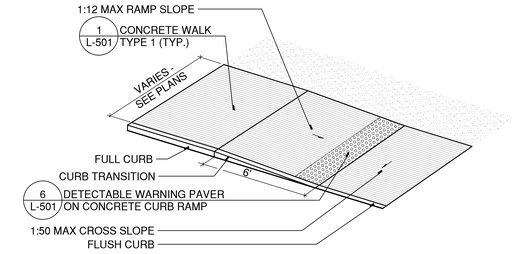
DRAWING TITLE
SITE PLANTING PLAN

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	1"=30'
DATE:	10/06/2022
DRAWN BY:	JP
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

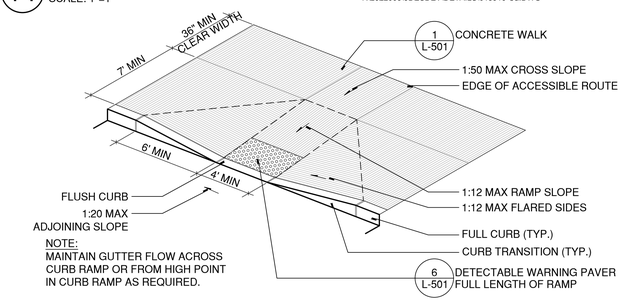
L-141



14 FULL WIDTH CURB RAMP

SCALE: 1"=1'

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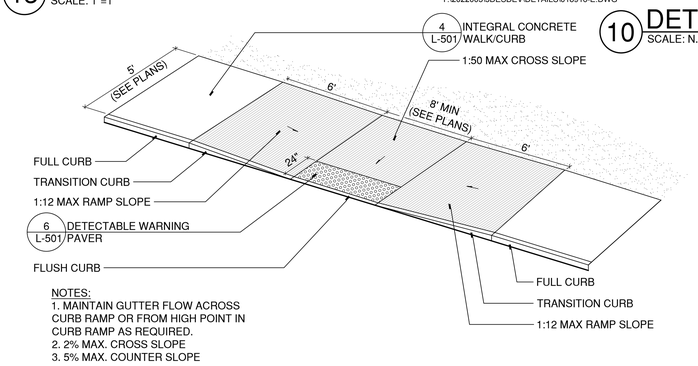


NOTE:
MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.

13 FLARED CONCRETE RAMP

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\018916-E.DWG

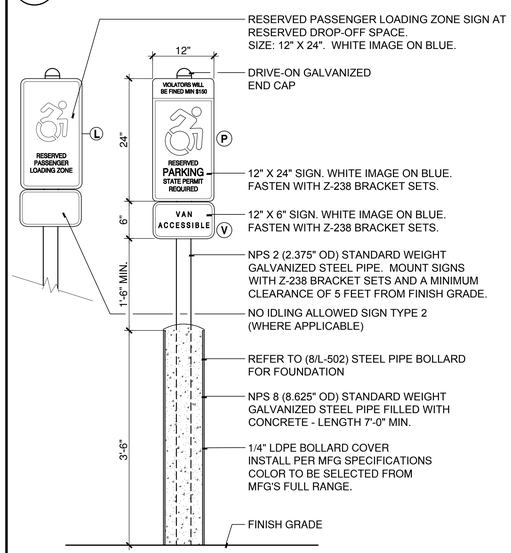


NOTES:
1. MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.
2. 2% MAX. CROSS SLOPE
3. 5% MAX. COUNTER SLOPE

12 RAMPED SIDEWALK CURB RAMP

SCALE: N.T.S.

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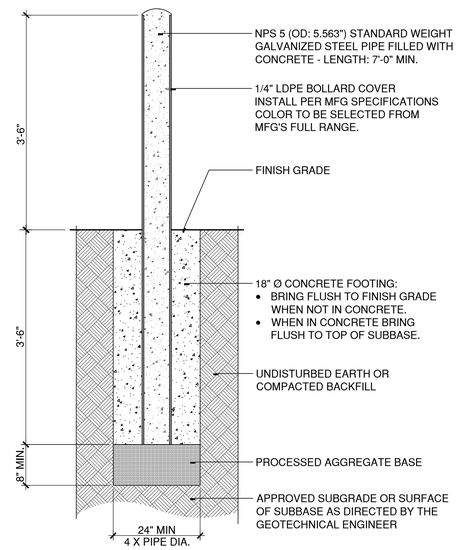


NOTES:
1. ALL STEEL PIPE TO HAVE GALVANIZED FINISH.
2. BOLLARD TO BE FITTED WITH 1/4" LDPE COVER INSTALLED AS PER MFG SPECIFICATIONS.
3. COLOR TO BE SELECTED FROM MFG'S FULL RANGE.

11 ACCESSIBLE PARKING SIGNAGE

SCALE: N.T.S.

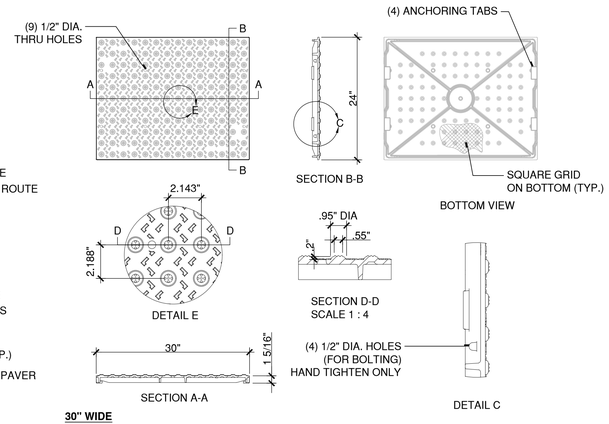
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9 STEEL PIPE BOLLARD

SCALE: 1"=1'

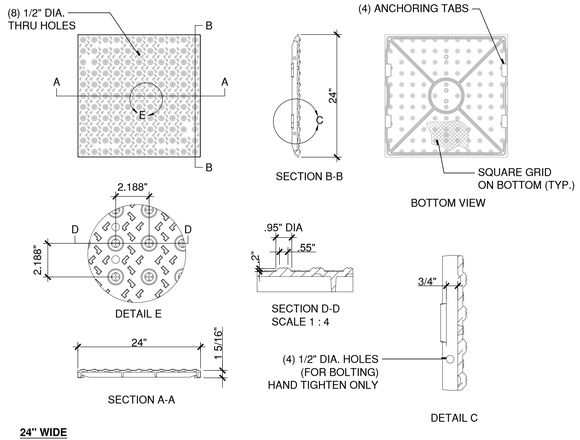
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30" WIDE

10 DETECTABLE WARNING PAVER

SCALE: N.T.S.



24" WIDE

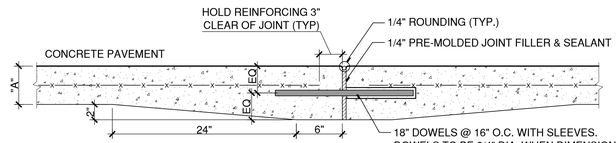
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

Y:\2022003\3DESDEV\DETAILS\DETECTABLE WARNING PAVER.DWG

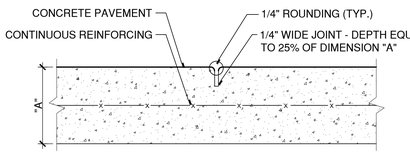
8 TYPICAL JOINT PLACEMENT IN CONCRETE

SCALE: 1/8"=1'

Y:\2022003\4CONDOC\DETAILS\321313-C.DWG



A EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



B TOOLED JOINT
Scale: 3" = 1'-0"

NOTES:
1. INSTALL TOOLED JOINTS AT SPACING EQUAL TO THE WALK WIDTH, UP TO A MAXIMUM OF 6 FEET, UNLESS DIMENSIONED OTHERWISE.
2. INSTALL EXPANSION JOINTS WITHIN THE TOOLED JOINT SPACING MODULE UP TO A MAXIMUM SPACING OF 20 FEET.
3. TYPICAL SPACING :

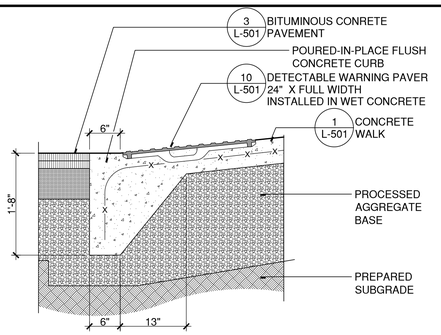
WALK WIDTH	EXPANSION JOINT SPACING
4'	20' (5 PANELS @ 4')
5'	20' (4 PANELS @ 5')
6'	18' (3 PANELS @ 6')

4. INSTALL FULL DEPTH 1/2" PREMOLDED JOINT FILLER AND SEALANT WHEREVER PAVEMENT ABUTS FIXED OBJECTS.
5. SEE TYPICAL JOINT PLACEMENT DETAIL 8 L-501

7 CONCRETE JOINT DETAILS

SCALE: 1"=1'

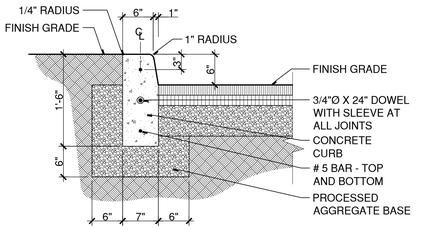
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6 DETECTABLE WARNING PAVER AT CONCRETE CURB RAMP

SCALE: 1"=1'

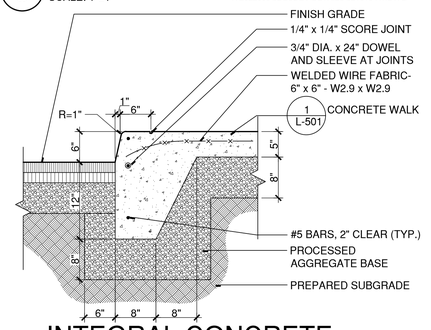
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5 PRECAST CONCRETE CURB

SCALE: 1"=1'

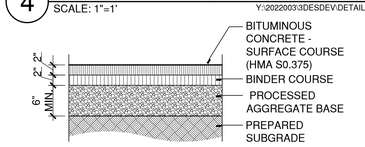
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4 INTEGRAL CONCRETE WALK / CURB

SCALE: 1"=1'

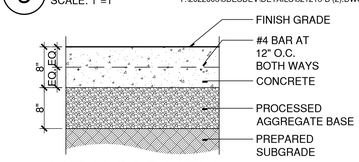
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3 BITUMINOUS CONCRETE PAVEMENT

SCALE: 1"=1'

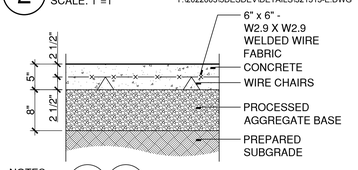
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2 HEAVY DUTY CONCRETE PAVEMENT

SCALE: 1"=1'

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NOTES:
1. SEE 7 L-501 8 L-501 FOR JOINT DETAILS AND LOCATIONS.

1 CONCRETE WALK

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\321313-A.DWG

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

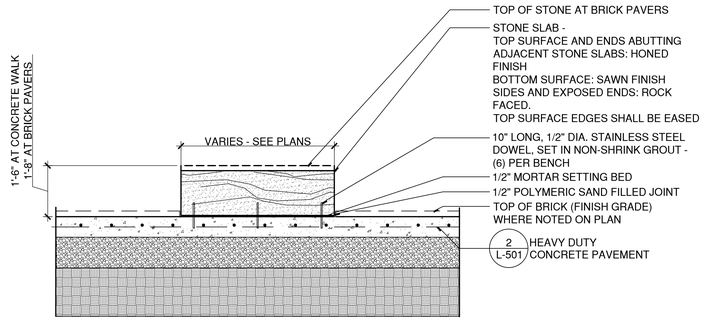
SITE DETAILS

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

L-501

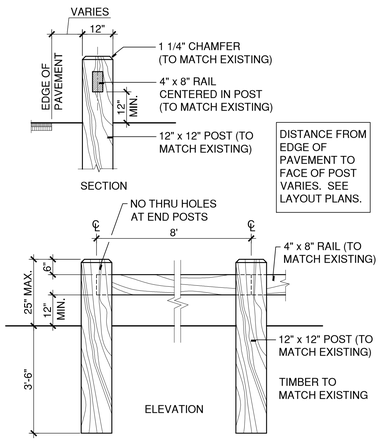


NOTES:
1. PROVIDE RADIUS STONE SLABS WHERE NOTED ON PLANS.
2. PROVIDE 1/4" PER FOOT SLOPE TO PATH SIDE.

6 STONE SLAB BENCH

SCALE: 1/2"=1'

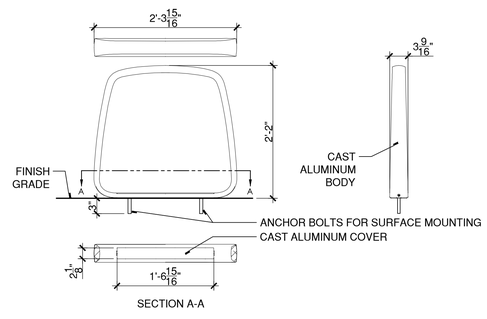
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5 TIMBER GUIDE RAIL

SCALE: 1/2"=1'

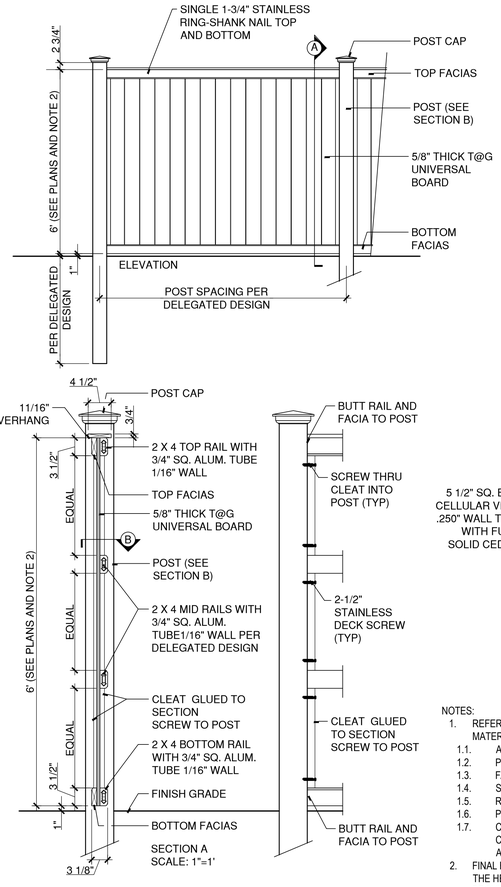
Y:\2022003\3DESDEV\DETAILS\323240-A.DWG



3 BICYCLE RACK

SCALE: N.T.S.

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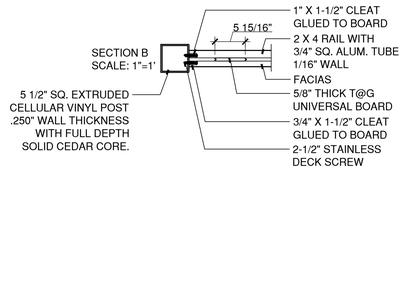


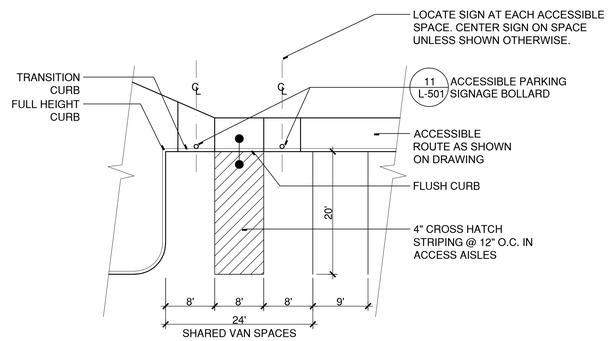
NOTES:
1. REFER TO SPECIFICATIONS FOR SOLID CELLULAR PVC FENCE AND GATE MATERIAL, FINISH AND COLOR REQUIREMENTS.
   1.1. ALL FASTENERS TO BE STAINLESS STEEL OR COMPOSITE TYPE.
   1.2. PICKETS/BOARDS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   1.3. FACIAS - SMOOTH FINISH, SQUARE EDGE MATERIAL.
   1.4. SECTION CAP - SMOOTH FINISH MOLDED TO THE DIMENSIONS SHOWN.
   1.5. RAILS - SMOOTH FINISH, MOLDED TO THE DIMENSIONS SHOWN.
   1.6. POSTS - SMOOTH FINISH.
   1.7. COLOR - CUSTOM COLOR TO BE SELECTED BY ARCHITECT FROM COATING MANUFACTURER'S FULL RANGE OF COLORS TO MATCH ARCHITECT'S SAMPLE PANEL.
2. FINAL HEIGHT OF DUMPSTER ENCLOSURE SHALL BE COORDINATED WITH THE HEIGHT OF OWNER PROVIDED COMPACTOR AND DUMPSTER TO PROVIDE FULL SCREENING.

2 SOLID BOARD FENCE

SCALE: N.T.S.

Y:\2022003\3DESDEV\DETAILS\AZEK FENCE.DWG



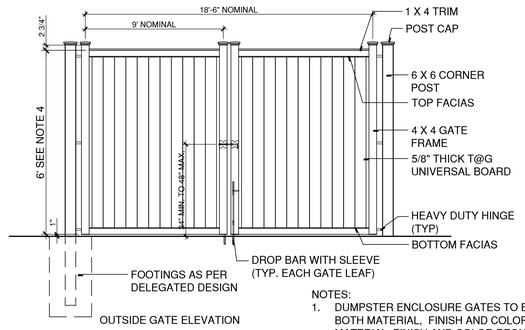


NOTES:
1. PITCH PAVEMENT NO MORE THAN A 2% SLOPE IN ANY DIRECTION.
2. COLOR OF STRIPING SHALL BE WHITE.

4 ACCESSIBLE PARKING SPACES

SCALE: 1"=10'

Y:\2022003\3DESDEV\DETAILS\321723-B-van.DWG



NOTES:
1. DUMPSTER ENCLOSURE GATES TO BE INTERNALLY-REINFORCED SOLID CELLULAR PVC LUMBER TO MATCH ADJACENT SOLID BOARD FENCE IN BOTH MATERIAL, FINISH AND COLOR. REFER TO DETAIL 2/L5.07 FOR FENCE DESIGN AND MATERIALS. REFER TO SPECIFICATIONS FOR MATERIAL, FINISH AND COLOR REQUIREMENTS.
2. GATE TO BE DELEGATED DESIGN. SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. LATCH SHALL COMPLY WITH ADA REQUIREMENTS AND SHALL HAVE A SHAPE EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. PROVIDE PROVISIONS FOR PADLOCK.
4. FINAL HEIGHT OF ENCLOSURE GATE SHALL MATCH ADJACENT SOLID BOARD FENCE HEIGHT AT DUMPSTER ENCLOSURE.

1 ENCLOSURE GATE

SCALE: N.T.S.

Y:\2022003\3DESDEV\DETAILS\DUMPSTER ENCLOSURE.DWG

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

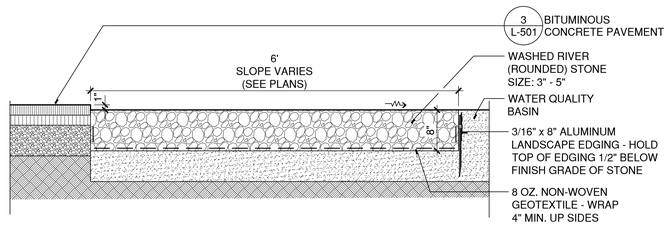
SITE DETAILS

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

NO.	DATE	PURPOSE

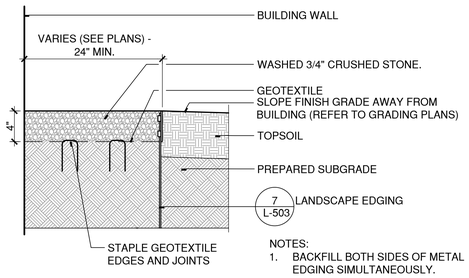
L-502



9 STONE FILTER STRIP

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\Stone Filter Strip.DWG

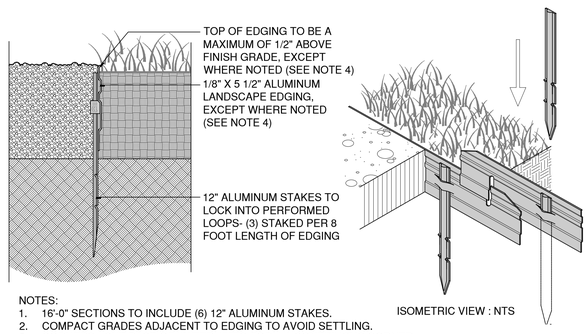


NOTES:
1. BACKFILL BOTH SIDES OF METAL EDGING SIMULTANEOUSLY.

8 MAINTENANCE STRIP

SCALE: N.T.S.

Y:\2022003\3DESDEV\DETAILS\321500-C.DWG

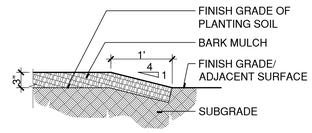


NOTES:
1. 16'-0" SECTIONS TO INCLUDE (6) 12" ALUMINUM STAKES.
2. COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING.
3. CORNERS - CUT BASE OF MATERIAL TO FORM A CONTINUOUS CORNER.

7 LANDSCAPE EDGING

SCALE: 3"=1'

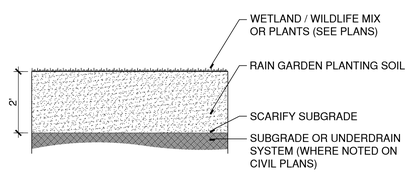
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6 BARK MULCH SURFACING

SCALE: 1"=1'

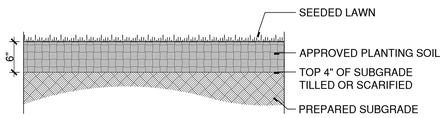
Y:\2022003\3DESDEV\DETAILS\329400-A.DWG



5 WATER QUALITY BASIN

SCALE: 1/2"=1'

Y:\2022003\3DESDEV\DETAILS\Rain Garden Section.DWG

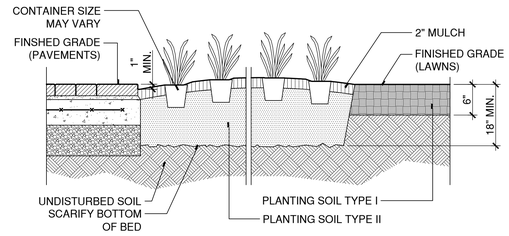


4 SEEDED LAWN

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\329200-C.DWG

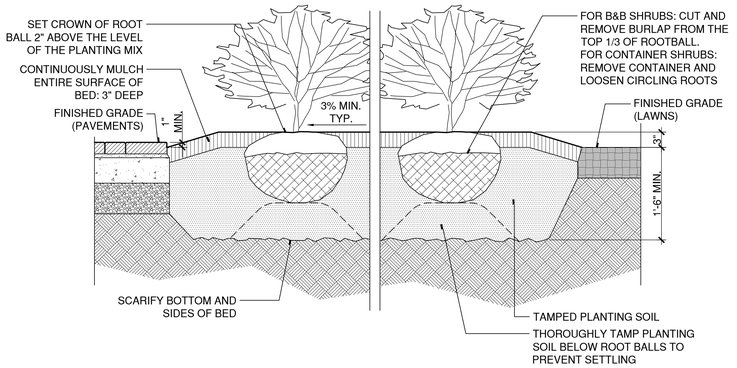
NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH FINISH GRADE.
2. MAINTAIN MINIMUM OF 4" PLANTING SOIL BELOW EACH INDIVIDUAL PLANT.
3. MULCH ENTIRE AREA OF GROUNDCOVER, PERENNIALS OR ANNUALS.
4. MULCH CAREFULLY AROUND EACH PLANT. DO NOT COVER CROWNS OF PLANTS WITH MULCH.



GROUNDCOVERS / PERENNIALS CONTINUOUS PLANTING BED

SCALE: 1"=1'

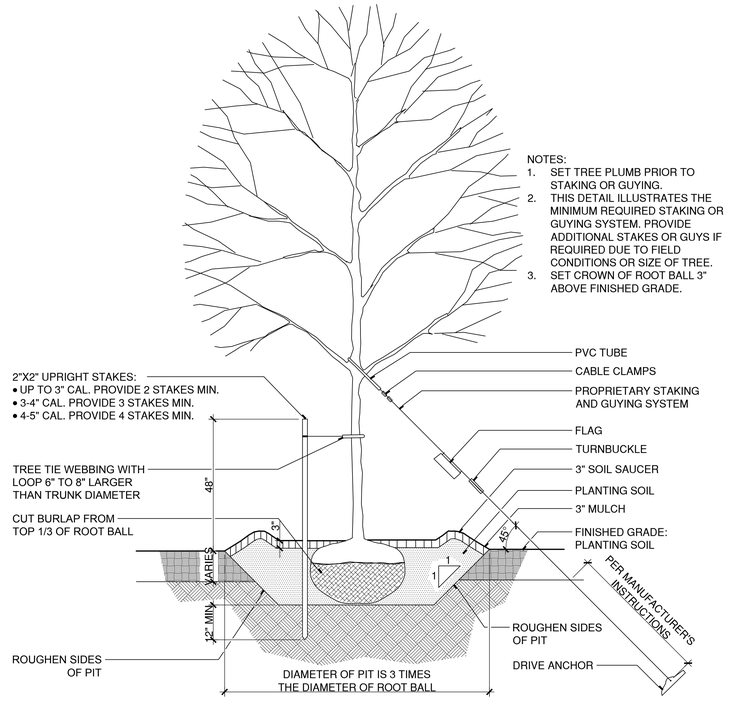
Y:\2022003\3DESDEV\DETAILS\329300-C.DWG



2 CONTINUOUS PLANTING BED FOR SHRUBS

SCALE: 1"=1'

Y:\2022003\3DESDEV\DETAILS\329300-B.DWG



UPRIGHT STAKING AND TYING DETAIL
FOR TREES UP TO 5" CALIPER

STAKING AND GUYING DETAIL
FOR TREES GREATER THAN 5" CALIPER

1 TREE PLANTING WITH TRUNK STABILIZATION

SCALE: 1/2"=1'

Y:\2022003\3DESDEV\DETAILS\329300-A.DWG

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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

DRAWING TITLE

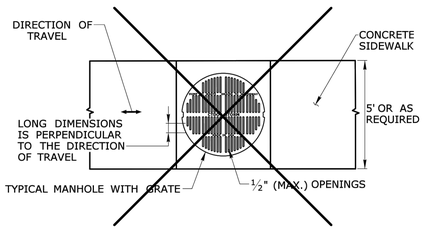
SITE DETAILS

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

ISSUE DATES

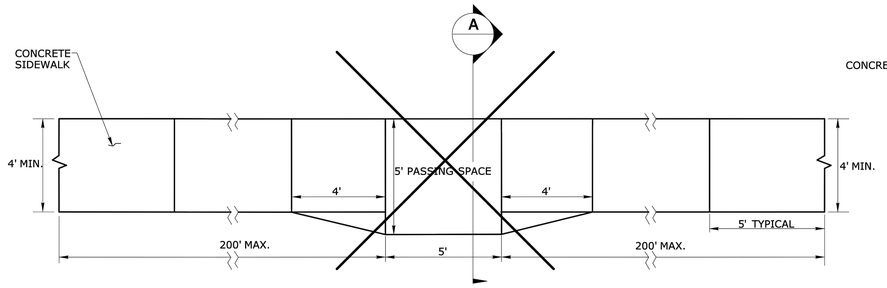
NO.	DATE	PURPOSE

L-503



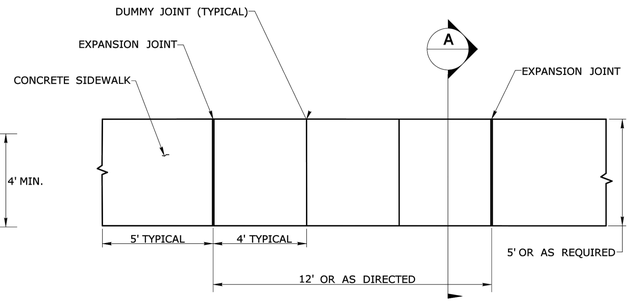
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

1. HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN ½ INCH
2. ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL



5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

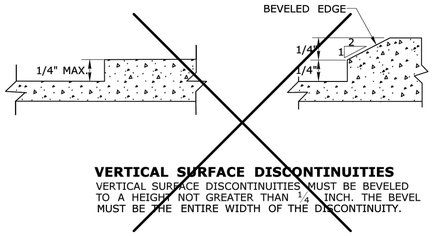
PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH



5' WIDE SIDEWALK PLAN

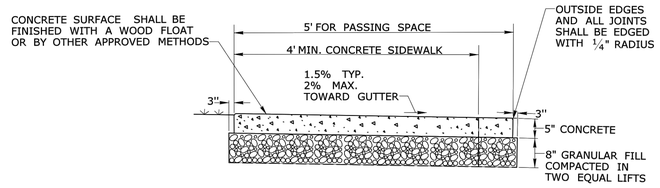
GENERAL NOTES:

1. SEE CONCRETE SIDEWALK RAMPS GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
2. ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN ¼ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY.



5' PASSING SPACE FOR 4' WIDE SIDEWALK

SECTION A

NOTE:

1. CONNDOT DETAILS INCLUDED FOR WORK TO BE DONE WITHIN STATE RIGHT OF WAY.
2. REFER TO MOST RECENT CTDOT STANDARD DETAILS AT TIME OF CONSTRUCTION.

DESIGNER/DRAFTER:	CHECKED BY:	SIGNATURE/ BLOCK:	APPROVED BY:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: ####
PROJECT DESCRIPTION: ####
TOWN(S): ####
DRAWING TITLE: CONCRETE SIDEWALKS AND RAMPS

DRAWING NO.: ####
SHEET NO.

LASTED SAVED BY: RichardEH **FILE NAME:** W:\CT_CONNECT_DDE\CT_Configuration\Organization\Cell\CTDOT_Borders_Contract.cel
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PROJECT

DESIGN DEVELOPMENT

KEY PLAN

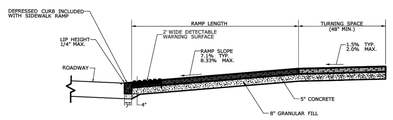
DRAWING TITLE
CONNDOT DETAILS

STATE PROJ NO.	011P-SC-21
PROJECT NO.	200802
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
CHECKED BY:	MC

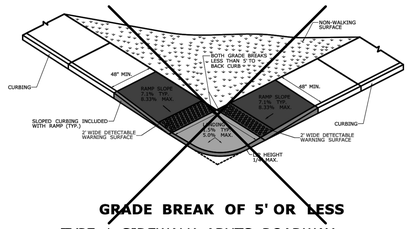
ISSUE DATES

NO.	DATE	PURPOSE

L-504



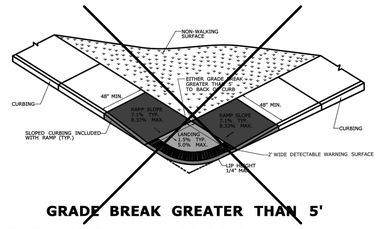
BASIC RAMP ATTRIBUTES
- Plan view of Ramp Components
- Section View of Typical Ramp
- Wheelchair Cross-slope Criteria
- Ramp Warping Detail



GRADE BREAK OF 5' OR LESS

TYPE 1 SIDEWALK ABUTS ROADWAY

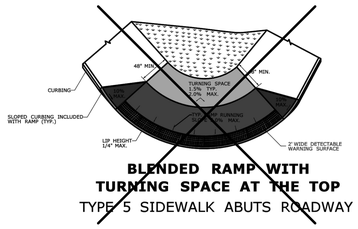
TYPE 3 SIDEWALK SEPARATED FROM ROADWAY WITH NONWALK AREA



GRADE BREAK GREATER THAN 5'

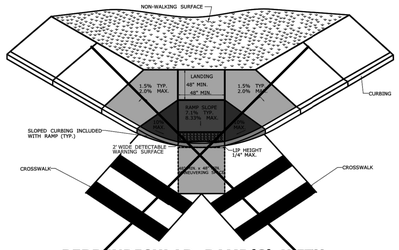
TYPE 2 SIDEWALK ABUTS ROADWAY

TYPE 4 SIDEWALK SEPARATED FROM ROADWAY WITH NONWALK AREA



BLENDED RAMP WITH TURNING SPACE AT THE TOP

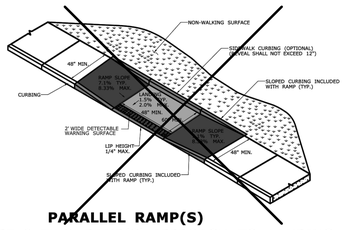
TYPE 5 SIDEWALK ABUTS ROADWAY



PERPENDICULAR RAMP(S) WITH STREET MANEUVERING SPACE

TYPE 6 LANDING OBSTRUCTION PRESENT

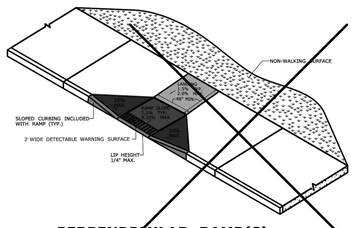
TYPE 7 NO LANDING OBSTRUCTION



PARALLEL RAMP(S)

TYPE 9 TWO RAMP(S) APPROACH TO LANDING

TYPE 10 SINGLE RAMP TO LANDING



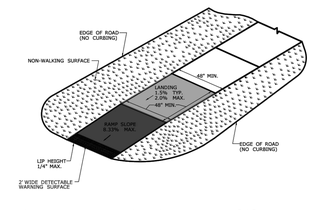
PERPENDICULAR RAMP(S)

TYPE 8 LANDING BYPASS WITH WALKABLE SURFACE

TYPE 13 LANDING WITH NON-WALKABLE SURFACE

TYPE 12 60" X 48" LANDING WITH NON-WALKABLE SURFACE

TYPE 11 60" X 60" LANDING WITH NON-WALKABLE SURFACE



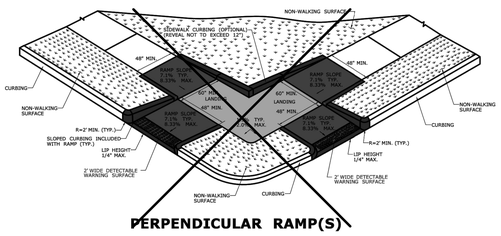
SINGLE DIRECTION RAMP(S)

TYPE 15 LANDING'S GRADE BREAK LESS THAN 5 FT

TYPE 14 LANDING'S GRADE BREAK GREATER 5 FT

TYPE 16 RAMP WITH RETURN CURBING

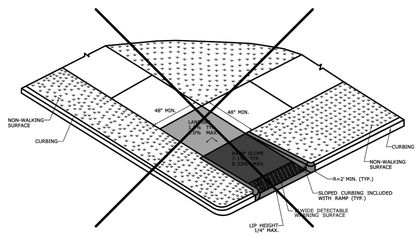
TYPE 17 RAMP WITH NO RETURN CURBING



PERPENDICULAR RAMP(S)

TYPE 18 EXAMPLE OF RAMP FLARE/CURB APPLICATIONS

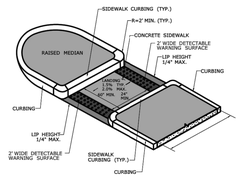
TYPE 19 COMBINATION SIDEWALK RAMPS



RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP(S)

TYPE 20 SINGLE RAMP FROM LANDING

TYPE 21 TWO RAMP(S) TO LANDING



PEDESTRIAN REFUGE ISLAND(S)

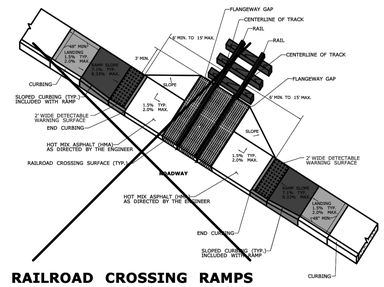
TYPE 22 ISLAND WIDTH 6 FT OR MORE

TYPE 23 ISLAND LESS THAN 6 FT WIDE

TYPE 24 REFUGE ISLAND WITH ELEVATED LANDING

TYPE 25 RIGHT TURN SLIP-LANE REFUGE ISLAND

TYPE 26 REFUGE ISLAND WITH OFFSET ACCESS



RAILROAD CROSSING RAMPS

TYPE 27 RAILROAD CROSSING WITHOUT GATE

TYPE 28 RAILROAD CROSSING WITH GATE

NOTE:

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2. REFER TO MOST RECENT CTDOT STANDARD DETAILS AT TIME OF CONSTRUCTION.

DESIGNER/DRAFTER: CHECKED BY:

SIGNATURE/ BLOCK:

APPROVED BY:

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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: ####
PROJECT DESCRIPTION: ####
TOWN(S): ####
DRAWING TITLE: CONCRETE SIDEWALK RAMP INDEX SHEET

DRAWING NO. ####
SHEET NO.

LASTED SAVED BY: RichardEH **FILE NAME:** W:\CT_CONNECT_DDE\CT_Configuration\Organization\Cell\CTDOT_Borden_Contract.cel
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KEY PLAN

DRAWING TITLE

CONNDOT DETAILS

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PROJECT NO.	200802
SCALE	VARIES
DATE:	10/06/2022
DRAWN BY:	JP/RM
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ISSUE DATES

NO.	DATE	PURPOSE

L-505

ANNOTATION LEGEND

SECTION NUMBER
SIM
1
A101
BUILDING SECTION CUT
SHEET NUMBER TO WHERE REFERENCED

DETAIL NUMBER
SIM
1
A101
DETAILS
SHEET NUMBER TO WHERE REFERENCED

A
D A601 B
C
INDIVIDUAL ELEVATION NUMBER
INTERIOR ELEVATION
SHEET NUMBER TO WHERE REFERENCED

A
A601
INDIVIDUAL ELEVATION NUMBER
EXTERIOR ELEVATION
SHEET NUMBER TO WHERE REFERENCED

101
DOOR NUMBER

Room name
101
150 SF
ROOM TITLE & NUMBER

1
REVISION NUMBER

W-X
WINDOW TYPE

ST-X
STOREFRONT TYPE

CW-X
CURTAIN WALL TYPE

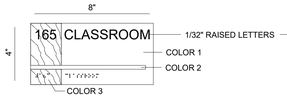
M88
PARTITION TYPE

Name
Elevation
ELEVATION

0
0
COLUMN GRID CENTERLINE

1i
EQUIPMENT DESIGNATION

TYPICAL SIGNALS



TYPICAL IDENTIFICATION SIGN
SCALE: 1" = 3'-0"

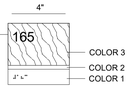
THE SIGN DWG. ABOVE IS GENERIC IN NATURE. FOR DESCRIPTION PURPOSES ONLY. A NUMBERING SYSTEM WILL BE ESTABLISHED BY THE OWNER. THE ROOM NAMES ARE INDICATED ON DOOR SCHEDULE DWGS.
SIGNS SHALL BE SURFACE MOUNTED AND SHALL BE MOUNTED SUCH THAT THE BOTTOM OF SIGN IS 48" A.F.F.

NOTES:

1. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MIN. AND 110 PERCENT MAX. OF THE HEIGH OF THE UPPERCASE LETTER "I". AND STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAX. OF THE HEIGHT
2. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" HIGH BUT NO GREATER THAN 2".

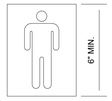
3. FONT STYLE SHALL BE HELVETICA MEDIUM AND ALL UPPER CASE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.

4. SIGNS SHALL BE INSTALLED ADJACENT TO THE LATCH SIDE OF THE DOOR. AT DOUBLE LEAF DOORS, SIGNS SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.



INTERNATIONAL SYMBCT ACCESS SYMBOL

NOTE:
ACCESSIBLE FACILITIES AND EXITS SHALL BE IDENTIFIED USING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY



PICTOGRAM SYMBOLS

5. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH EACH OTHER. LIGHT ON DARK OR DARK ON LIGHT.

6. BACKER PLATE FOR ROOM SIGNAGE @ GLASS MOUNTED LOCATION

7. SEE DOOR SCHEDULE FOR NUMBERING AND NAME IDENTIFICATION OF SIGN.

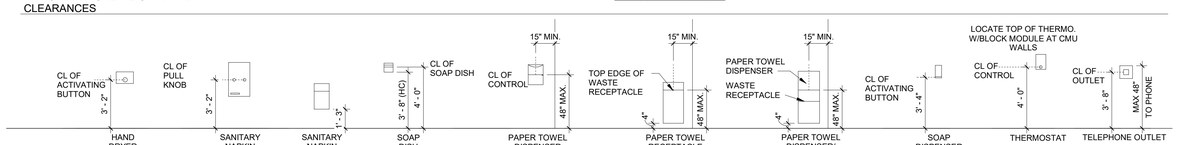
8. COORDINATE ROOM NUMBER WITH OWNER AS PART OF SIGNAGE SUBMITTAL PROCESS.

MATERIAL LEGEND

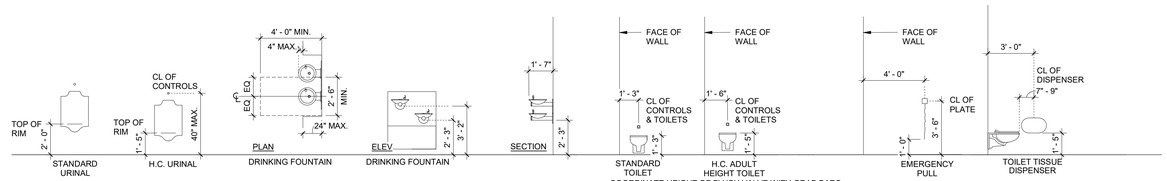
UNDISTURBED SOIL
COMPACTED GRAVEL
CONCRETE
CRUSHED STONE
BRICK
STONE
CONCRETE MASONRY UNIT
THIN SET TILE
FINISH WOOD
ROUGH WOOD CONTINUOUS
ROUGH WOOD NON-CONTINUOUS
NEW BRICK ELEVATION
NEW BRICK ELEVATION
RIGID INSULATION
GLASS FIBER INSULATON
GLASS - PLAN
METAL FERROUS
METAL NONFERROUS
GROUT / MORTAR
SPLIT FACED CONCRETE MASONRY
GYPSUM BOARD
PLYWOOD
PLYWOOD

FUTHER GRAPHIC REFERENCES:
1. GRAPHIC STANDARDS
2. TIME SAVER STANDARDS

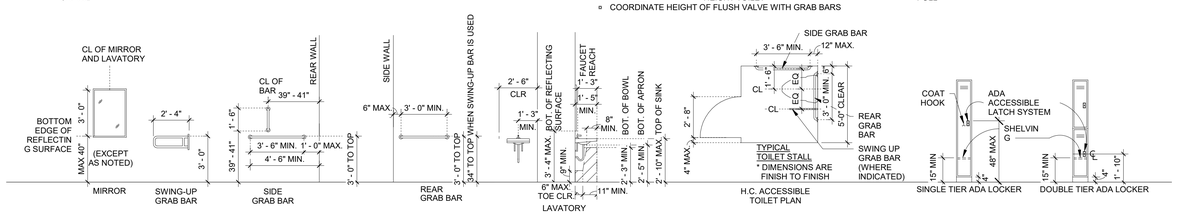
TYPICAL FIXTURE HEIGHTS AND CLEARANCES

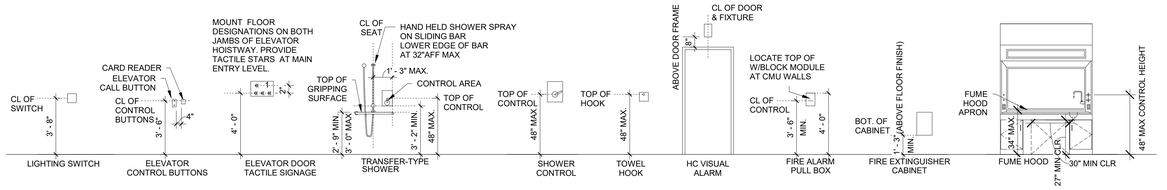


NOTE:ALL MOUNTING HEIGHTS SHOWN ON INTERIOR ELEVATIONS SHOULD SUPERSEDE HEIGHTS SHOWN ON THESE DRAWINGS AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.



○ COORDINATE HEIGHT OF FLUSH VALVE WITH GRAB BARS





ABBREVIATIONS

@	- AT	F.A.	- FIRE ALARM	N	- NORTH	T&B	- TOP AND BOTTOM
&	- AND	F.A.I	- FRESH AIR INTAKE	N.A	- NOT APPLICABLE	T&G	- TONGUE AND GROOVE
AC.	- ACOUSTIC, ACOUSTICAL	F.D.	- FLOOR DRAIN	N.I.C	- NOT IN CONTRACT	T	- TREAD
ACT.	- ACOUSTIC TILE	FND.	- FOUNDATION	NO., #	- NUMBER	TAN.	- TANGENT
A.D.	- ACCESS DOOR, AREA DRAIN	F.E.	- FIRE EXTINGUISHER	NOM	- NOMINAL	T.B	- TACK BOARD
ADD	- ADDENDUM	FEC	- FIRE EXTINGUISHER CABINET	NRC	- NOISE REDUCTION COEFFICIENT	TEC.	- TECTUM
ADH	- ADHASIVE	FEC-R	- FIRE EXTINGUISHER CABINET - RECESSED	N.T.S.	- NOT TO SCALE	TEL	- TELEPHONE OR TELECOM
ADJ	- ADJUSTABLE	FEC-SR	- FIRE EXTINGUISHER CABINET - SEMI RECESSED			TEMP.	- TEMPORARY
AFF	- ABOVE FINISHED FLOOR	FEC-S	- FIRE EXTINGUISHER CABINET - SURFACE MOUNTED	O.A.	- OVERALL	TER.	- TERRAZZO
ALT	- ALTERNATE		- FINISH FLOOR	O.C	- ON CENTER	THK	- THICKNESS
ALUM	- ALUMINUM	FF	- FURNITURE, FINISHES & EQUIPMENT	O.D	- OUTSIDE DIAMETER / DIMENSION	THRES	- THRESHOLD
APPROX	- APPROXIMATE	FF&E	- FIRE HOSE CABINET	OHD	- OVER HEAD	THRU	- THROUGH
ARCH	- ARCHITECTURAL	FHC	- FINISH(ED)	O.H.	- OPPOSITE HAND	TMPD	- TEMPERED
AWP	- ACOUSTICAL WALL PANEL	FIN.	- FIXTURE	OPNG	- OPENING	T.O.	- TOP OF (SEE OTHER WORD)
AUTO	- AUTOMATIC	FIXT.	- FLOOR	OPP	- OPPOSITE	TV	- TELEVISION
AV	- AUDIO VISUAL	FL	- FLASHING	O.R.D.	- OVERFLOW ROOF DRAIN	TYP.	- TYPICAL
		FLG	- FLUORESCENT	ORIG.	- ORIGINAL		
BD	- BOARD	FLUOR.	- FIRE RETARDANT TREATED WOOD	OVHD	- OVERHEAD	UNFIN.	- UNFINISHED
BLDG	- BUILDING	FRTW	- FIRE STAND PIPE			U.O.N	- UNLESS OTHERWISE NOTED
BLK(G)	- BLOCK(ING)	F.S.P	- FEET, FOOT	PART.	- PARTIAL	UR	- URINAL
BM	- BEAM	FT	- FOOTING	PERP	- PERPENDICULAR	U.P.T	- UNGLAZED PORCELAIN TILE
BOT.	- BOTTOM	FTG	- FURNITURE	PL. LAM.	- PLASTIC LAMINATE	UTIL.	- UTILITY
B.O	- BOTTOM OF	FURN	- FURRED, FURRING	PLYWD.	- PLYWOOD		
BRK.	- BRICK	FURR.	- FUTURE	PRF	- POURED RESILIENT FLOORING	VAR.	- VARIES
BSMT	- BASEMENT	FUT	- FIRE VALVE CABINET	PRL.	- PARALLEL	VAC	- VENTILATION AND AIR CONDITIONING
BTWN.	- BETWEEN	F.V.C				VCT	- VINYL COMPOSITION TILE
				PREFAB	- PREFABRICATED	VERT.	- VERTICAL
C	- CHANNEL, COURSE	GA	- GAUGE / GAGE	PROJ	- PROJECT	VEST.	- VESTIBULE
CAB.	- CABINET	GALV.	- GALVANIZED	P.T	- PRESSURE TREATED	V.I.F	- VERIFY IN FIELD
CB	- CATCH BASIN	G.B.	- GLAZED BLOCK	PTD	- PAINTED	VT	- VINYL TILE
CCTV	- CLOSED CIRCUIT TV	G.C.	- GENERAL CONTRACT(OR)	PVG.	- PAVING	VWC	- VINYL WALL COVERING
CER	- CERAMIC	GEN	- GENERATOR	PVMT.	- PAVEMENT		
C.G.	- CORNER GUARD	G.F.C	- GROUND FACE CONC. BLOCK			W	- WEST
CHAM.	- CHAMFER	GL.	- GLASS, GLAZING	Q.T.	- QUARRY TILE	W/	- WITH
CHCK	- CHECK	GL.BLK.	- GLASS BLOCK	QTY	- QUANTITY	W.C	- WATER CLOSET
CIRC.	- CIRCUMFERENCE	GRD	- GROUND			WD.	- WOOD
CJ	- CONTROL JOINT	GWB	- GYPSUM WALL BOARD	R	- RADIUS OR RISER	WDW	- WINDOW
CL	- CENTER LINE	GYP. BD.	- GYPSUM BOARD	R.A.	- RETURN AIR	W/O	- WITHOUT
CLO	- CLOSET			RAD.	- RADIUS	WTPFG	- WATERPROOFING
CLG.	- CEILING	H.C.	- HANDICAP(PED)	RCP	- REFLECTED CEILING PLAN	WWF	- WELD WIRE FABRIC
CLK(G)	- CAULK(ING)	HDWR.	- HARDWARE	R.D.	- ROOF DRAIN	WT	- WEIGHT
CLR	- CLEAR	HEX	- HEXAGON	RECOM	- RECOMMENDED		
C.M.U	- CONCRETE MASONRY UNIT	H.M.	- HOLLOW METAL	RECPT.	- RECEPTACLE		
COL.	- COLUMN	HORZ.	- HORIZONTAL	REC.	- RECESSED		
COMP.	- COMPRESSIBLE	HR	- HOUR	REF.	- REFERENCE		
CONC.	- CONCRETE	HT	- HEIGHT	REFL.	- REFLECTED / REFLECTIVE / REFLECT		
CONF.	- CONFERENCE	HTG.	- HEATING	REFR.	- REFRIGERATOR		
CONST.	- CONSTRUCTION	H.V.A.C.	- HEATING, VENTILATION & AIR CON.	REG.	- REGISTER		
CONT	- CONTINUATION,CONTINUOUS			REINF.	- REINFORCED / REINFORCING		
COORD	- COORDINATE	I.D.	- INSIDE DIAMETER	REQ.	- REQUIRE / REQUIRED		
CORR	- CORRIDOR	IN	- INCH(ES)	RESIL.	- RESILIENT		
CPT.	- CARPET	INCL.	- INCLUDED, INCLUDING	REV.	- REVISION, REVISED		
C.S.	- CAST STONE	INFO	- INFORMATION	RET.	- RETURN		
CT	- CERAMIC TILE	INSUL.	- INSULATION	R.H.	- RIGHT HAND		
CUH	- CABINET UNIT HEATER	INTR.	- INTERIOR	RM.	- ROOM		
CUH-S	- CABINET UNIT HEATER - SURFACE MOUNTED	INTERM	- INTERMEDIATE	R.O.	- ROUGH OPENING		
		INV.	- INVERT	RTD	- RATED		
CUH-R	- CABINET UNIT HEATER - RECESSED	ISO	- ISOLATION	RTG	- RATING		
				R.W.L	- RAIN WATER LEADER		
CUH-SR	- CABINET UNIT HEATER - RECESSED	JAN	- JANITOR				
SEMI-		J.C.	- JANITOR'S CLOSET	S	- SOUTH		
		JT.	- JOINT	SAN.	- SANITARY		
DEMO	- DEMOLISH, DEMOLITION	KD	- KNOCK DOWN	SBB	- SANDBLASTED BLOCK		
DET.	- DETAIL	KG	- KILOGRAM	S.C.	- SOLID CORE		
DF	- DRINKING FOUNTAIN	KITC.	- KITCHEN	SCHE.	- SCHEDULE		
DIA	- DIAMETER			S.D.	- STORM DRAIN		
DIAG.	- DIAGONAL	LAM.	- LAMINATE(D)	SECT.	- SECTION		
DIFF	- DIFFUSER	LAV.	- LAVATORY	SEW.	- SEWER		
DIM.	- DIMENSION	LCC	- LEAD COATED COPPER	SF	- SQUARE FEET/FOOT		
DISP	- DISPOSAL	LOC	- LOCATION	SHT.	- SHEET		
DIV.	- DIVISION	L.F.	- LINEAR FOOT	SHWR	- SHOWER		
DMPR	- DAMPER	LG	- LONG	SIM.	- SIMILAR		
DN	- DOWN	LGTH.	- LENGTH	S.O.G	- SLAB ON GRADE		
D.O.	- DOOR OPENING	LH	- LEFT HAND	SPEC.	- SPECIFICATION		
DPFG	- DAMPPROOFING	LIN	- LINEAR	SPKLR	- SPRINKLER		
DPTN	- DEMOUNTABLE PARTITION	LL	- LIVE LOAD	SPKR	- SPEAKER		
DR	- DOOR	LLH	- LONG LEG HORIZONTAL	SQ.	- SQUARE		
DRN	- DRAIN	LLV	- LONG LEG VERTICAL	S/S	- SANITARY SINK		
DW	- DISHWASHER	LN	- LINE	S.S	- STAINLESS STEEL		
DWG(S)	- DRAWING(S)	LT	- LIGHTING	S.STL	- STAINLESS STELLA		
DWR	- DRAWER	LTG.	- LIGHTINGING	ST	- STREET		
		LT. WT.	- LIGHTING WEIGHT	STA.	- STATION		
E	- EAST			STC	- SOUND TRANSMISSION CLASS		
EA.	- EACH	MACH	- MACHINE	STD	- STANDARD		
E.F.	- EXHAUST FAN	MAN	- MANUAL	STL	- STEEL		
E.J.	- EXPANSION JOINT	M.A.T	- MINERAL ACOUSTIC TILE	STOR.	- STORAGE		
EL.	- ELEVATION	MAX	- MAXIMUM	STRG	- STRINGER		
ELEC.	- ELECTRICAL	M.B.	- MARKER BOARD	STRL	- STRUCTURAL		
ELEV.	- ELEVATOR	MECH	- MECHANICAL	STRUCT.	- STRUCTURAL		
EMERG.	- EMERGENCY	MED.	- MEDIUM	SUBCTG	- SUBCATEGORY		
ENCL.	- ENCLOSURE	MEMB	- MEMBRANE	SUSP.	- SUSPENDED		
EQ	- EQUAL	MEZZ	- MEZZANINE	SYS	- SYSTEM		
EQUIP	- EQUIPMENT	MFR	- MANUFACTURER				
ESCAL	- ESCALATOR	MH	- MANHOLE				
E.W.C.	- ELECTRICAL WATER COOLER	MIN	- MINIMUM				
EXH.	- EXHAUST	MISC	- MISCELLANEOUS				
EXP.	- EXPANSION	M.O.	- MASONRY OPENING				
EXIST.	- EXISTING	MTD	- MOUNTED				
EXTR.	- EXTERIOR	MTG	- MOUNTING				
		MTL.	- METAL				
		MULL	- MULLION				

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.

2. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF DISCREPANCIES IN THE DRAWINGS.

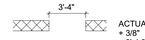
3. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS ONLY.

4. ALL DIMENSIONS ARE ROUGH FRAMING DIMENSIONS. DIMENSIONS ARE FROM FACE OF METAL STUD WALL, TO FACE OF CONCRETE BLOCK, TO CENTER LINE OF STRUCTURAL GRID. SEE WALL TYPES FOR ADDITIONAL INFORMATION.

5. GENERAL REQUIREMENTS FOR MASONRY WALLS WHERE NOT SPECIFICALLY DETAILED OTHERWISE.

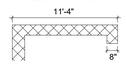
A. ALL MASONRY DIMENSIONS ARE SHOWN AS MODULAR DIMENSIONS UNLESS OTHERWISE NOTED.
B. MASONRY DIMENSIONS:
UNLESS OTHERWISE INDICATED ALL MASONRY PLAN DIMENSIONS ARE NOMINAL, WITH 'NOMINAL' DEFINED TO MEAN ACTUAL DIMENSION SHOWN OR DIMENSION SHOWN +- 3/8".

MASONRY DIMENSIONS ARE DEFINED TO BE 3/8" LARGER THAN DIMENSIONS SHOWN EXAMPLE:



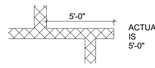
ACTUAL DIMENSION IS 3'-4" + 3/8" = 3'-4 3/8"

OVERALL DIMENSIONS OF MASONRY WALL LENGTH OR THICKNESS ARE DEFINED TO BE 3/8" SMALLER THAN DIMENSIONS SHOWN EXAMPLE:



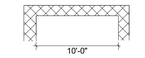
ACTUAL DIMENSIONS ARE
11'-4" - 3/8"
= 11'-3 5/8"
AND
8" - 3/8" = 7 5/8"

DIMENSIONS FROM INSIDE TO OUTSIDE CORNERS ARE ACTUAL EXAMPLE:



ACTUAL DIMENSION IS 5'-0"

INSIDE DIMENSIONS OF MASONRY WALL ARE DEFINED TO BE 3/8" LARGER THAN DIMENSIONS SHOWN EXAMPLE:



ACTUAL DIMENSION IS
10'-0" + 3/8"
= 10'-0 3/8"

6. THE TERM "TYPICAL" IS USED TO DEFINE A GENERAL CONDITION THAT WILL APPLY TO ALL SUCH CONDITIONS EXCEPT AS OTHERWISE NOTED.

7. ALL INTERIOR WALL SHALL TERMINATE AT BOTTOM OF METAL DECK OR BOTTOM OF STRUCTURAL STEEL.

8. ALL SMOKE WALLS OR FIRE RATED PARTITIONS WHICH TERMINATE AT UNDERSIDE OF METAL DECK SHALL HAVE FLUTES AT METAL DECK FILLED SOLID WITH FIRE SAFING INSULATION.

9. STAIR ENCLOSURES SHALL HAVE NO PENETRATIONS OR OPENINGS FOR WIRING, PIPING, DUCTS, ETC.. EXCEPT FOR THOSE REQUIRED TO SERVE THE STAIR.

10. ALL PIPES, CONDUITS, CABLES, WIRES, DUCTS, ETC.. THAT PASS THROUGH FLOOR, SMOKE BARRIERS, FIRE RATED PARTITIONS AND FIRE WALLS SHALL HAVE THE SPACE BETWEEN THE PENETRATING ITEM AND THE WALL FILLED WITH EITHER FIRE RESISTANT JOINT SEALER OR FIRE SAFING INSULATION.

11. FIRESTOPPING SHALL BE PROVIDED IN CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL SPACES SUCH AS SOFFITS, DROPPED CEILINGS AND COVE CEILINGS. FIRESTOPPING SHALL CONSIST OF APPROVED NON-COMBUSTIBLE MATERIALS, SECURELY FASTENED IN PLACE AND SHALL BE CONTINUOUSLY MAINTAINED. FIRESTOPPING SHALL NOT BE CONCEALED FROM VIEW UNTIL INSPECTED AND APPROVED.

12. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR B. INTERIOR FINISHES IN STAIRS, CORRIDORS, LOBBIES AND EXITS SHALL BE CLASS A. FLOOR COVERINGS WITHIN STAIRS, CORRIDORS OR EXITS SHALL BE CLASS I OR II.

13. COORDINATE LOCATION OF ELECTRICAL DEVICES; I.E.: LIGHTINGS, SWITCHES, OUTLETS, FIRE ALARM DEVICES, SPEAKERS, ETC..; WITH ELECTRICAL DRAWINGS AND LOCATIONS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS. IF CONFLICT ARISES BETWEEN ELECTRICAL DRAWINGS AND, ARCHITECTURAL DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO INSTALLATION OF DEVICE.

14. PATH ALL OPENINGS IN WALLS, CEILINGS AND FLOORS TO MATCH CONSTRCUTION ASSEMBLIES WHERE ELECTRICAL, PLUMBING AND MECHANICAL CONDUITS, PIPES, ETC. HAVE BEEN REMOVED.

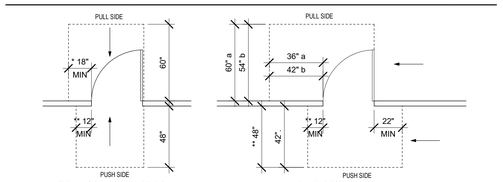
15. HARDWARE NOTES;

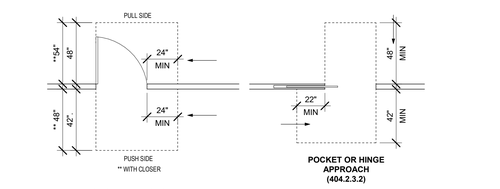
A. ALL RATED DOORS SHALL HAVE CLOSERS AND POSITIVE LATCHING LOCKSETS OR LATCHSETS.
B. ALL DOORS EXITING 50 OR MORE PEOPLE SHALL HAVE PANIC EXIT DEVICES.
C. ALL DOORS LEADING TO HAZARDOUS SPACES SHALL HAVE TACTILE WARNING. HAZARDOUS AREAS INCLUDE: CUSTODIAL SPACES, BOILER ROOM, MECHANICAL ROOMS AND ELECTRICAL CLOSETS.
D. ACCESSIBLE DOOR HARDWARE FOR PEOPLE WITH DISABILITIES SHALL BE PROVIDED TO COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.

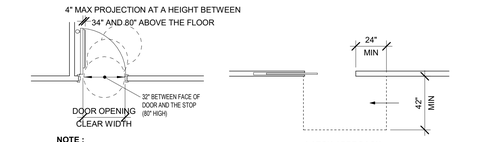
16. ACCESSIBILITY NOTES:

A. ALL PROGRAMS ARE ACCESSIBLE TO PERSONS WITH DISABILITIES.
B. ALL ROOMS USED BY PERSONS WITH DISABILITIES HAVE ACCESSIBLE WORK STATIONS.
C. ALL ACCESSIBLE ELEMENTS ARE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND THE ACCESSIBLE ROUTE HAS 36 INCH MINIMUM CLEARANCE THROUGHOUT (32 INCH CLEARANCE FOR DOORWAYS).
D. ALL ITEMS SHALL COMPLY WITH SECTION 504, REHABILITATION ACT 1973.
E. ALL LABS & SHOPS USED BY PERSON W/ DISABILITIES HAVE ACCESSIBLE EMERGENCY EYEWASH & BODY WASH STATION

MANEUVERING CLEARANCES FOR ALL ACCESSIBLE DOORS





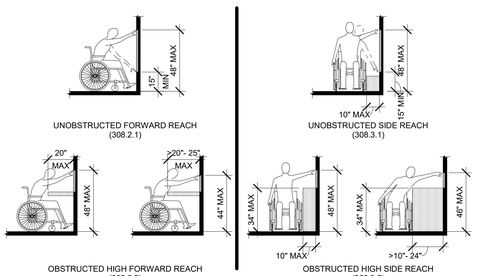


NOTE :
ALL ACCESSIBLE DOOR OPENINGS TO BE ABLE TO PASS A 32"Ø x60"H CYLINDER.

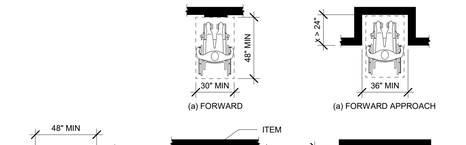
DOOR OPENING CLEARANCE
CT (1008.1.1)

REACH RANGES AND CLEAR FLOOR SPACE

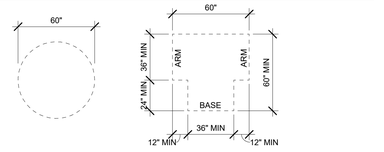
ALL REQUIREMENTS ARE BASED ON ICC/ANSI A117.1 /2009 W/CT STATE AMENDMENTS



REACH RANGES



CLEAR FLOOR SPACE



WHEELCHAIR TURNING SPACE

tskpstudio.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

BLOOMFIELD PUBLIC LIBRARY
PROSSER LIBRARY
1 TUNXIS AVENUE
BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
GENERAL INFORMATION

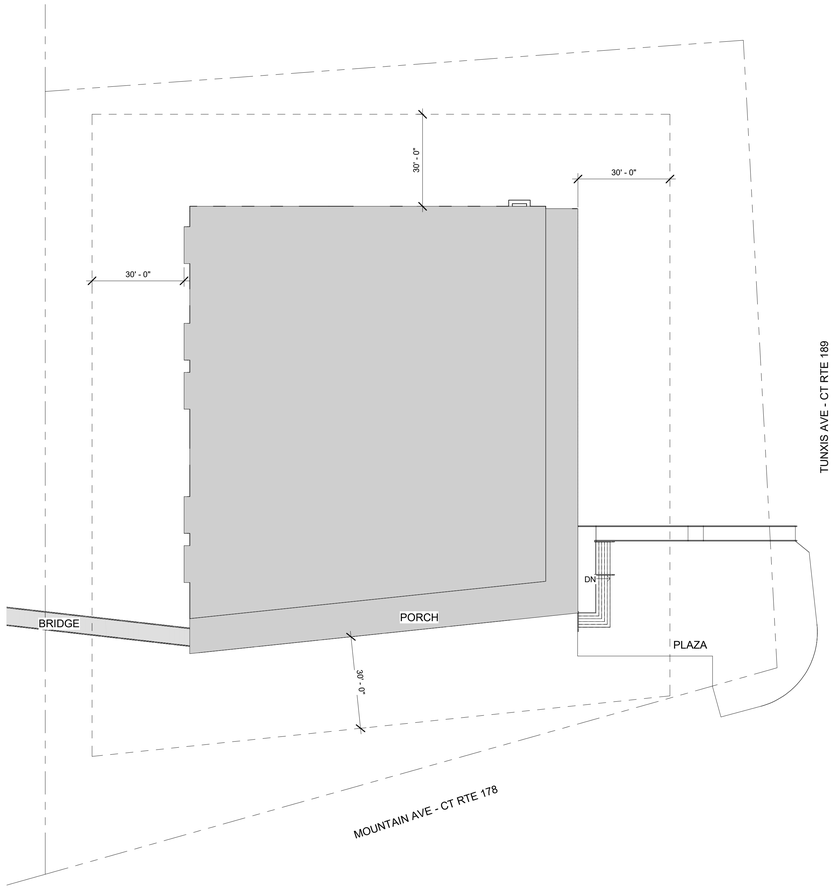
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A0.01

10/9/2022 4:41:59 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



4 OPEN PERIMETER CALC
1" = 20'-0"

1. **USE GROUP CLASSIFICATION (IBC CHAPTER 3)**

PRIMARY	A-3 (ASSEMBLY) S-2 (OPEN PARKING GARAGE)

2. **CONSTRUCTION TYPE (IBC CHAPTER 6)**

MINIMUM TYPE REQUIRED	TYPE IIIB (FULLY SPRINKLERED)
ACTUAL TYPE PROVIDED	MIXED CONSTRUCTION TYPE IIB (FULLY SPRINKLERED) @ OPEN PARKING GARAGE TYPE IIIB (FULLY SPRINKLERED) ENTIRE BUILDING, EXCEPT ABOVE

3. **BUILDING HEIGHT (IBC CHAPTER 5)**

(E) ALLOWABLE HEIGHT (STORY/FEET)	3 STORIES / 75 FEET (FULLY SPRINKLERED)
ACTUAL HEIGHT (STORY/FEET)	3 STORIES / 30' - 8"
STORIES ABOVE GRADE	3 STORIES

4. **BUILDING AREA (IBC CHAPTER 5)**

BUILDING AREA (EACH FLOOR INSIDE FACE OF WALL & OVERHANGS)

LOWER LEVEL	9,730 SF
FIRST FLOOR:	15,613 SF (15,117 + 496 OVERHANGS)
SECOND FLOOR:	15,081 SF (11,074 + 4,007 OPEN AREA)
TOTAL:	38,029 SF

5. **AREA MODIFICATIONS TO TABLE 503**

	NORTH	EAST	WEST	SOUTH
TOTAL PERIMETER =	XX LF	XX LF	XX LF	XX LF
OPEN PERIMETER =	XX LF	XX LF	XX LF	XX LF

TOTAL PERIMETER (P) = XXX LF

TOTAL OPEN PERIMETER ≥ 30' = XXX LF
(BUILDING PERIMETER WHICH FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING 30' OPEN MIN. WIDTH)

WIDTH OF OPEN SPACE (W) = 30.0
LF = [(F/P) - 0.25] * (W/30)

FRONTAGE INCREASE (LF) = (XXX/XXX) - 0.25] * (30/30) = **0.75**

6. **CASE 2 - MIXED OCCUPANCY SEPARATED USES (508.4.2) (ALLOWABLE AREA 506.2.4)**

Aa = [At + (NS x Lf)]

Allowable Area (Aa) = [Tabular Area (Sprinklered) + (Tabular Area for Nonsprinklered Building x Area for Frontage Increase)]

	A3(ASSEMBLY)	S2(STORAGE)
TABULAR AREA (NS), NS (TYPE IIIB) =	9,500 sf	26,000 sf
TABULAR AREA (At), SM (TYPE IIIB) =	28,500 sf	78,000 sf
a) ALLOWABLE AREA per floor	[28,500+(9,500 x 0.75)] = 35,625 sf	[78,000+(26,000 x 0.75)] = 97,500 sf

b) ACTUAL / ALLOWABLE AREA

LOWER LEVEL: **0.08 < 1 OK**

STORAGE (S2) = 7,335 sf / 97,500 sf = 0.08

FIRST FLOOR LEVEL: **0.44 < 1 OK**

ASSEMBLY (A3) = 15,613 sf / 35,625 sf = 0.44

SECOND FLOOR LEVEL: **0.42 < 1 OK**

ASSEMBLY (A3) = 15,081 sf / 35,625 sf = 0.42

c) PER TABLE 508.4, NO SEPARATION IS REQUIRED BETWEEN ASSEMBLY (A3) AND STORAGE (S2) OCCUPANCY.

8. **FIRE RESISTANT RATINGS OF STRUCTURAL ELEMENTS (IBC TABLE 601)**

	REQUIRED	PROVIDED
STRUCTURAL FRAME: INCLUDING COLUMNS, GIRDERS, TRUSSES	0	0
BEARING WALLS - EXTERIOR	0	NA
BEARING WALLS - INTERIOR	0	NA
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION <5'	1	1
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION ≥5' < TO 10'	1	1
NONBEARING WALLS AND PARTITIONS (EXT.) SEPARATION ≥10' <TO 30'	0	0
NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	0
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0
FIRE WALLS	NA	NA
EXIT ENCLOSURES (LESS THAN 4 STORIES)	1	2 (*)
SHAFT ENCLOSURES (LESS THAN 4 STORIES)	1	1
MIXED USE SEPARATION	0	0
FIRE SEPARATIONS, SMOKE BARRIERS	NA	NA

(*) 2 HOURS REQUIRED PER SECTION 510.7.

9. **OCCUPANCY LOAD**

DESIGN LOAD FOR EACH FLOOR:

LOWER LEVEL	41 +/-
FIRST FLOOR	421 +/-
SECOND FLOOR	178 +/-

TOTAL EXIT CAPACITY FOR EACH FLOOR:
LOWER LEVEL
FIRST FLOOR
SECOND FLOOR

DESIGN TOTAL FOR BUILDING: 640 +/-
TOTAL EXIT CAPACITY FOR BUILDING:

10. **MODIFICATIONS**
NO

11. **ACCESSIBLE BUILDING**
DESIGNATED

12. **MINIMUM PLUMBING FIXTURE COUNT**

	ASSEMBLY (A-3)	STORAGE (S-2)	TOTAL REQUIRED	TOTAL PROVIDED
WC FEMALE	: 294/65 = 4.5		= 5	= 5
WC MALE	: 294/125 = 2.5	48/100 = 0.5	= 3	= 3
LAVS	: 587/200 = 3	48/100 = 0.5	= 4	= 5
DRINKING F.	: 587/500 = 2	48/1000 = 0	= 2	= 2
SERVICE SINK	: 1	1	= 1	= 1

DESIGN TOTAL:

A3 : TOTAL OCCUPANCY = 587
S2: TOTAL OCCUPANCY = 48

12. **MINIMUM PLUMBING FIXTURE COUNT - AFTER HOURS SCENARIO**

	ASSEMBLY(A3)	TOTAL REQUIRED	TOTAL PROVIDED
WC FEMALE	: 102/65 = 1.5	= 2	= 3
WC MALE	: 102/125 = 1	= 1	= 3
LAVS	: 203/200 = 1	= 1	= 3
DRINKING F.	: 203/500 = 1	= 1	= 2
SERVICE SINK	: 1	= 1	= 1

DESIGN TOTAL:

A3 : TOTAL OCCUPANCY = 203
S2: TOTAL OCCUPANCY = NA

13. **SPRINKLER PROTECTION**
FULLY SPRINKLERED

14. **CODES TO WHICH THIS PROJECT WAS DESIGNED**

A. 2018 CONNECTICUT STATE BUILDING CODE [CSBC]
B. 2018 CONNECTICUT FIRE SAFETY CODE [CFSC]
C. 2018 CONNECTICUT FIRE PREVENTION CODE [CSFPC]
D. INTERNATIONAL PLUMBING CODE - 2015 w/2018 CT SUPPLEMENT [IEBC]
E. INTERNATIONAL MECHANICAL CODE - 2015 w/2018 CT SUPPLEMENT [IMC]
F. INTERNATIONAL ENERGY CONSERVATION CODE - 2015 w/2018 CT SUPPLEMENT [IECC]
G. NATIONAL ELECTRICAL CODE - 2017 w/2018 CT AMENDMENTS [NEC]
H. ACCESSIBLE AND USABLE BUILDING FACILITIES - 2009 W/2018 CT SUPPLEMENTS [ICC A117.1]
I. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN [ADA]

15. **THRESHOLD BUILDING CONDITION**
NO

DRAWING LEGEND

- XXX — ROOM NUMBER
- 875 / 20 ←433P — ROOM OCCUPANCY LOAD (AREA IN SQUARE FEET / OCCUPANCY LOAD FACTOR = ROOM OCCUPANCY LOAD)
- 191 — MAX.. ALLOWABLE EGRESS OCCUPANCY OF STAIR
- 440 — MAX.. ALLOWABLE OCCUPANCY OF CORRIDOR
- X / 165 — EXIT CAPACITY (ACTUAL EGRESS OCCUPANCY OF DOOR OR STAIR / MAX.. ALLOWABLE EGRESS OCCUPANCY OF DOOR OR STAIR)
- ACCESSIBLE AREA OR EXIT
- ACCESSIBLE AT GRADE (FLUSH CONDITION)
- R — REQUIRED EXTERIOR EXIT
- AOR — AREA OF REFUGE
- SMOKE RESISTANT CONSTRUCTION (TIGHT TO DECK ABOVE SEAL ALL PENETRATIONS TO RESIST PASSAGE OF SMOKE)
- 3 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- 2 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- 1 HOUR FIRE RATED WALL (TIGHT TO DECK ABOVE)
- -1 HR RATED CEILING (HORIZONTAL SHAFT WALL) -1HR RATED ROOF STRUCTURE UL DESIGN NO P734 (FINISH RATING) -1 HR RATED FLOOR UL DESIGN NO D759 (FINISH RATING)
- -2 HR RATED CEILING (HORIZONTAL SHAFT WALL) -2 HR RATED FLOOR UL DESIGN NO D759 (FINISH RATING)
- LINE OF LUMINESCENT WALL BASE

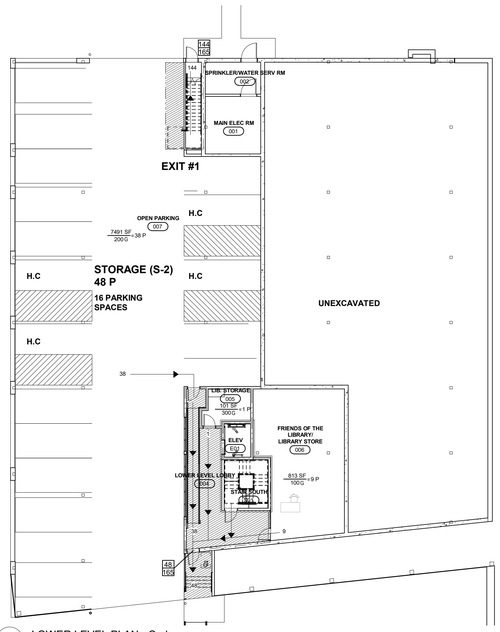
DOOR CLEAR EGRESS WIDTHS

GENERAL SPACES:
.2 FACTOR

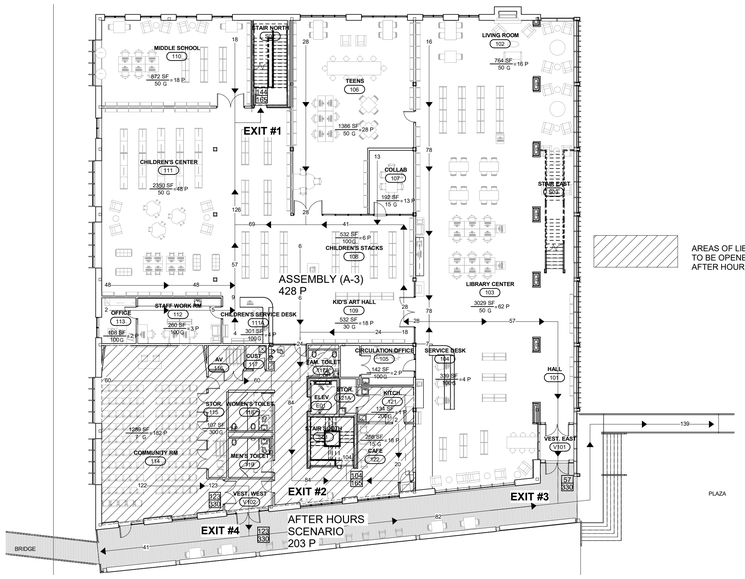
X / 145	2'-8" DOOR (29" CLR.)
X / 155	2'-10" DOOR (31" CLR.)
X / 165	3'-0" DOOR (33" CLR.)
X / 175	3'-2" DOOR (35" CLR.)
X / 190	3'-5" DOOR (38" CLR.)
X / 225	4'-0" DOOR (45" CLR.)
X / 330	6'-0" DOOR (66" CLR.)
X / 350	6'-4" DOOR (70" CLR.)
X / 355	6'-5" DOOR (71" CLR.)
X / 360	6'-6" DOOR (72" CLR.)
X / 370	6'-8" DOOR (74" CLR.)
X / 390	7'-0" DOOR (78" CLR.)
X / 395	7'-1" DOOR (79" CLR.)
X / 400	7'-2" DOOR (80" CLR.)
X / 405	7'-3" DOOR (81" CLR.)

TABLE 1004.1.2
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

ASSEMBLY UNCONCENTRATED	=	15 NET
CLASSROOM	=	20 NET
SHOPS AND OTHER VOCATIONAL AREAS	=	50 NET
LOCKER ROOMS	=	50 GROSS
EXERCISE ROOMS	=	50 GROSS
OFFICE	=	100 GROSS
ACCESSORY STORAGE AREAS AND MECH... EQUIP. RM...	=	300 GROSS

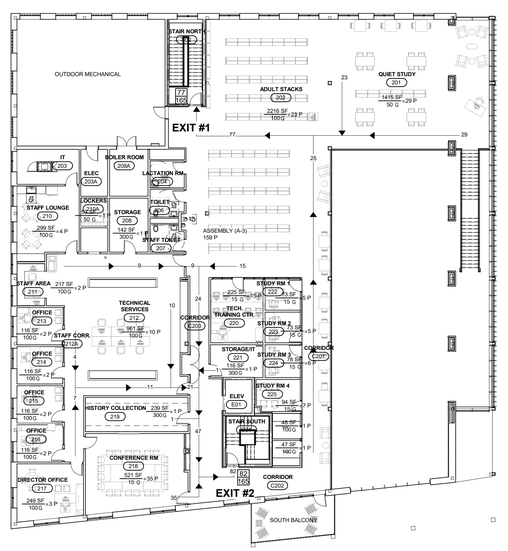


1 LOWER LEVEL PLAN - Code
1/16" = 1'-0"



AREAS OF LIBRARY TO BE OPENED AFTER HOURS

2 FIRST FLOOR PLAN - Code
1/16" = 1'-0"



3 SECOND FLOOR PLAN - Code
1/16" = 1'-0"

tskpstudio.com
TSKP STUDIO
One Hartford Square West
146 Wyllys Street, Bldg 1-203
Hartford, CT 06106
860.547.1970
ARCHITECTURE | PLANNING | INTERIORS

BLOOMFIELD PUBLIC LIBRARY
PROSSER LIBRARY
1 TUNXIS AVENUE
BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

CODE PLAN

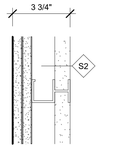
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

A0.02

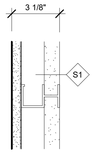
10/8/2022 4:42:08 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



2 HOUR RATING SHAFT WALL

STC NA

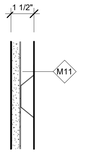
2 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSUM LINER PANEL



1 HOUR RATING SHAFT WALL

STC NA

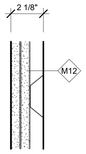
1 LAYER 5/8" GYP BD
2 1/2" CH STUDS @ 24" OC
1" GYPSUM LINER PANEL



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

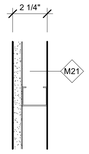
1 LAYER 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1 HOUR FINISH RATING
UL DES U301

STC NA

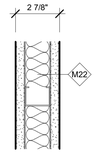
2 LAYERS 5/8" GYP BD
7/8" MET FURRING
@ 16" OC



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

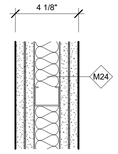
1 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC



1 HOUR RATING
OSU T-3296

STC 39

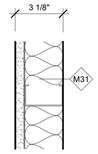
2 LAYER 5/8" GYP BD
1-5/8" MET STUD
@ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

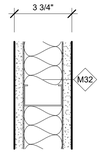
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 1-5/8"
MET STUD @ 16" OC
1-1/2" MINERAL FIBER
INSULATION



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

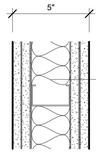
1 LAYER 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

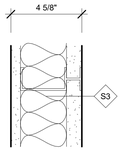
2 LAYERS 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 50

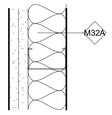
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2-1/2"
MET STUD @ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING SHAFT WALL

STC 51

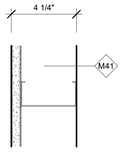
1 LAYER 3/4" GYP BD
4" CH STUDS @ 24" OC
3" MINERAL WOOL INSULATION
1" GYPSUM LINER PANEL



1/3 HOUR RATING

STC NA

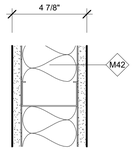
2 LAYERS 5/8" GYP BD
2-1/2" MET STUD
@ 16" OC
2-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

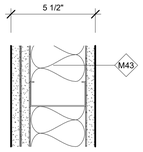
1 LAYER 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC



1 HOUR RATING
UL DES U419

STC 45

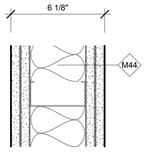
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 50

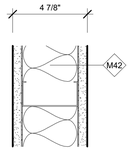
3 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
UL DES U419

STC 55

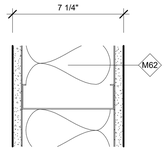
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 3-5/8"
MET STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 45

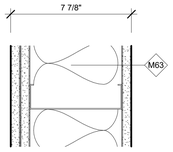
2 LAYERS 5/8" GYP BD
3-5/8" MET STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 49 (EST)

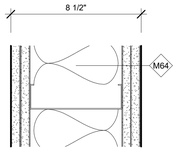
2 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

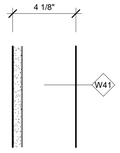
3 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U419

STC 54 (EST)

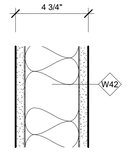
4 LAYERS 5/8" GYP BD
6" MET STUD
@ 16" OC
5-1/2" SOUND
ATTENUATION BATTS



1/3 HOUR RATING
IBC TABLE 721.2.1.4(2)

STC NA

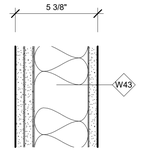
1 LAYER 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC



1 HOUR RATING
UL DES U305

STC 37 (EST)

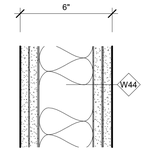
2 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 HOUR RATING
UL DES U305

STC 42 (EST)

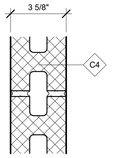
3 LAYERS 5/8" GYP BD
2 x 4 WD STUD
@ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



2 HOUR RATING
SWRI 01-5920-614

STC 44

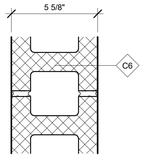
2 LAYERS 5/8" GYP BD
BOTH SIDES ON 2 x 4
WD STUD @ 16" OC
3-1/2" SOUND
ATTENUATION BATTS



1 TO 2 HR RATING
IBC TABLE 721.3.2

STC 44

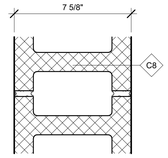
4" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 46

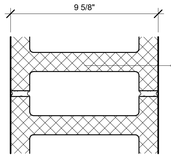
6" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 48

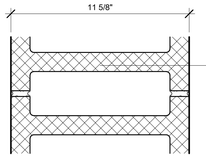
8" CONC MASONRY



1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 50

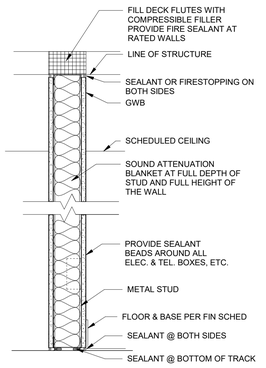
10" CONC MASONRY



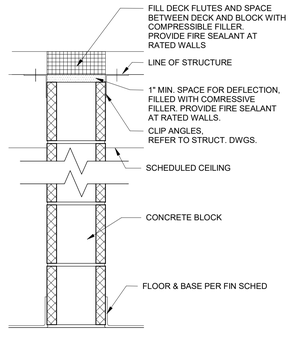
1 TO 4 HR RATING
IBC TABLE 721.3.2

STC 52

12" CONC MASONRY



NOTE
SEE CODE PLANS FOR LOCATIONS OF SMOKE RESISTANT AND FIRE RATES PARTITIONS
FOR 1 OR 2 HR RATED PARTITIONS COMPLY WITH UL# U419



NOTE
SEE CODE PLANS FOR LOCATIONS OF SMOKE RESISTANT AND FIRE RATED PARTITIONS
FOR 1 OR 2 HR RATED PARTITIONS COMPLY WITH UL# U906

GENERAL PARTITION NOTES:

1. ALL PARTITIONS SHALL BE PARTITION TYPE M42 UNLESS OTHERWISE NOTED.

2. ALL PARTITIONS SHALL RUN TO THE UNDERSIDE OF DECK OR BEAM ABOVE.
   A. WHERE THERE IS AN OBSTRUCTION, SUCH AS BEAM RUNNING PERPENDICULAR TO THE PARTITION, BOX AROUND THE OBSTRUCTION.COMPLETELY FILL ALL VOIDS WITH CONSTRUCTION EQUAL TO THAT OF THE PARTITION.

   B. WHERE A NON- FIRE RATED PARTITION RUNS PARALLEL TO AND TERMINATES AT AN OPEN WEB JOIST OR TRUSS, PROVIDE METAL FRAMING AND ONE LAYER OF GWB, WITH SOUND BATTS, FROM THE BOTTOM OF THE JOIST OR TRUSS TO THE UNDERSIDE OF DECK, FOR A CONTINUOUS ACOUSTICAL SEPARATION.

   C. WHERE A FIRE RATED PARTITION RUNS PARALLEL TO AND TERMINATES AT AN OPEN WEB JOIST OR TRUSS, PROVIDE FIRE RATED CONSTRUCTION TO THE UNDERSIDE OF DECK, WITH RATING EQUAL TO THAT OF THE WALL.

3. PROVIDE MINERAL WOOL BATTS WITH 60% OVERCUT AROUND ALL PENETRATIONS, PIPING, CONDUITS, DUCTS, CABLES, WIRES AND ALL STAIR AND HAZARDOUS AREA WALLS TO ALLOW FOR COMPLETE SMOKE TIGHT CONSTRUCTION IN ACCORDANCE WITH THE CT. STATE FIRE SAFETY CODE.

4. TOILET ROOM PARTITIONS:
   ALL GWB PARTITIONS AT TOILET ROOMS ARE REUIRED TO HAVE MOISTURE RESISTANT GWB ON TOILET ROOM SIDE OF PARTITION. CERAMIC TILE WHERE INDICATED BY ROOM FINISH SCHEDULE.

5. CMU PARTITION TYPES:
   REFER TO SPECIFICATIONS FOR TYPE OF CMU. REFER TO STRUCTURAL DRAWINGS FOR SPECIFICATIONS FOR REINFORCMENT.

6. FIRE AND SOMKE RATED PARTITION TYPES:
   FIRE STOP PERIMETER ANS ALL PENETRATIONS WITH FIRESAFING AND FIRESTOP SEALANT IN ACCORDANCE WITH A SPECIFIED UL APPROVED SYSTEM.

7. STAIR ENCLOSURES:
   FIRE STOP PERIMETER AND ALL PENETRATIONS WITH FIRESAFING AND FIRESTOP SEALANT IN ACCORDANCE WITH A SPECIFIED UL APPROVED SYSTEM. PENETRATIONS INTO AND OPENINGS THROUGH AN EXIT ENCLOSURE ASSEMBLY ARE PROHIBITED EXCEPT FOR REQUIRED EXIT DOORS, SPRINKLER PIPING, STANDPIPES AND ELECTRICAL CONDUIT SERVING THE STAIRWAY AND TERMINATING AT A STEEL BOX NOT TO EXCEED 16 SQ. INCHES IN TOTAL AREA.

8. GYPSUM WALL BOARD TYPES:
   REFER TO SPECS FOR ABUSE RESISTANT TYPE LOCATIONS.

9. ALL GYPSUM BOARD AT PLUMBING CHASES SHALL BE MOISTURE RESISTANT.

10. ALL GWB IN FIRE RATED PARTITIONS SHALL BE TYPE "X".

11. PROVIDE BLOCKING WITHIN PARTITIONS FOR INSTALLATION OF WAINSCOTS, BUMPERS, CORNER GUARDS, SHELVING, MILWORK, EQUIPMENT AND FIXTURES.

12. REFERENCE PLAN DETAILS AND WALL SECTIONS FOR ADDITIONAL INFORMATION INVOLVING PARTITION CONFIGURATION.

13. REFER TO CODE SHEET A0.02 FOR LOCATION OF FIRE RATED WALL ASSEMBLIES INDICATED ON THIS DRAWING.

14. WALL TYPES M11 TO M82 ARE ACOUSTICAL PARTITIONS (TYPICAL). PROVIDE 1 OR 2 HOURS RATING ONLY WHERE INDICATED IN SHEET A0.02.

ACOUSTIC NOTES

1. THE SOLE PLATE FOR THE PARTITION SHALL LIE FLUSH WITH SUB-FLOOR, WITH BOTTOM OF PLATE CAULKED WITH TWO BEADS OF NON-HARDENING RESILIENT ACOUSTIC SEALANT (CAULK) PER ASTM C919.

2. PARTITIONS WITH DOUBLE STUD CONSTRUCTION SHOULD HAVE NO RIGID CONTACT WITH EACH OTHER. IF BRACING IS REQUIRED FOR STABILITY, STUDS SHOULD BE BRACED LATERALLY, AS PER UL DESIGN #493

3. JOINTS OF GYPSUM BOARD LAYERS FOR DOUBLE LAYER PARTITIONS SHALL BE STAGGERED, OR ALTERNATIVELY, JOINTS OF ONE LAYER SHALL RUN VERTICALLY WITH THE OTHER LAYER JOINT RUNNING HORIZONTALLY TO MINIMIZE GAPS.

4. WALL GYPSUM BOARD PANELS SHALL EXTEND FROM THE FLOOR TO WITHIN ½ INCH OF THE DECK ABOVE. THE GYPSUM SHALL NOT CONTACT THE DECK ABOVE. THE GAP BETWEEN THE WALL GYPSUM BOARD AND THE DECK SHALL BE FILLED WITH A BEAD OF NON-HARDENING RESILIENT ACOUSTIC SEALANT PER ASTM C919. WALL GYPSUM BOARD LAYERS SHALL NOT CONTACT THE FLOOR BELOW, OR THE OTHER WALLS IN THE ROOM. TEMPORARY ¼ INCH FLOOR AND WALL SPACERS MAY BE USED TO SET THE WALL BOARD. THE FLOOR/WALL, CEILING/WALL AND WALL/WALL GAPS FOR EACH GYPSUM BOARD LAYER IN EACH PARTITION SHALL BE COMPLETELY SEALED AIR TIGHT USING SAME SEALANT.

5. ANY PENETRATIONS FOR ELECTRICAL AND LOW-VOLTAGE (TELEPHONE/CABLE) SERVICE BOXES SHALL BE STAGGERED SO THAT NO PENETRATION PASSES THROUGH THE TWO WALL PARTITIONS IN THE SAME LOCATION. SERVICE BOX PENETRATIONS SHALL BE STAGGERED AND SHALL NOT BE DIRECTLY ACROSS FROM EACH OTHER, BACK TO BACK.

6. ALL ELECTRICAL CONNECTIONS TO LIGHTING FIXTURES INSTALLED ON THE WALL SHALL BE VIBRATION ISOLATED, BY USING COILED WIRE WITH ADEQUATE SLACK OR OTHER MEANS TO AVOID RIGID CONDUIT ATTACHMENTS.

7. ALL LIGHTING FIXTURES, ELECTRICAL SWITCH BOXES, AND ELECTRICAL AND LOW-VOLTAGE (TELEPHONE/CABLE) OUTLET BOXES SHALL BE COMPLETELY BACK-PLASTERED WITH NON-HARDENING FIRESTOP PUTTY TO PREVENT SOUND TRANSMISSION THROUGH THE PENETRATION.

8. ALL MECHANICAL SERVICE PENETRATIONS IN THE WALLS SHALL HAVE ½ INCH OF CLEAR SPACE BETWEEN THE DUCT OR PIPE AND THE WALL STRUCTURE. THAT SPACE SHALL BE SEALED BY PACKING WITH A LAYER OF GLASS FIBER INSULATION FOR THE FULL DEPTH OF THE PENETRATION. BOTH SIDES OF THE PENETRATION SHALL BE SEALED AIR TIGHT USING NON-HARDENING RESILIENT ACOUSTIC SEALANT PER ASTM C919. AN ANNULAR METAL SLEEVE, ATTACHED USING NON-HARDENING RESILIENT SEALANT, SHALL BE USED FOR PENETRATION GAPS OVER 1 INCH.

9. PROVIDE SOUND ATTENUATION BATTS & ACOUSTIC SEALANT AT BOTH SIDES OF STRUCTURAL BRACING LOCATIONS AND VERTICAL RETRACTING PARTITIONS (STC 53).

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1 TUNXIS AVENUE
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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

WALL TYPES

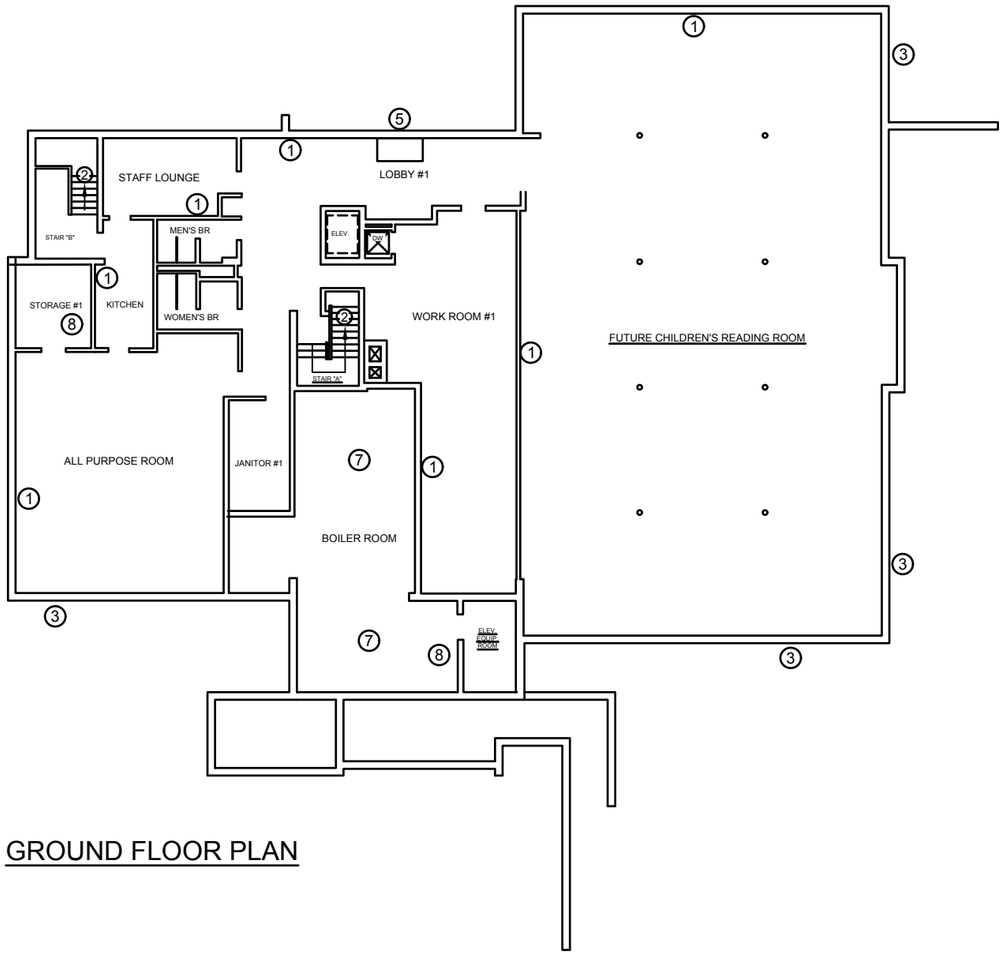
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PROJ. NO.	200802
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DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

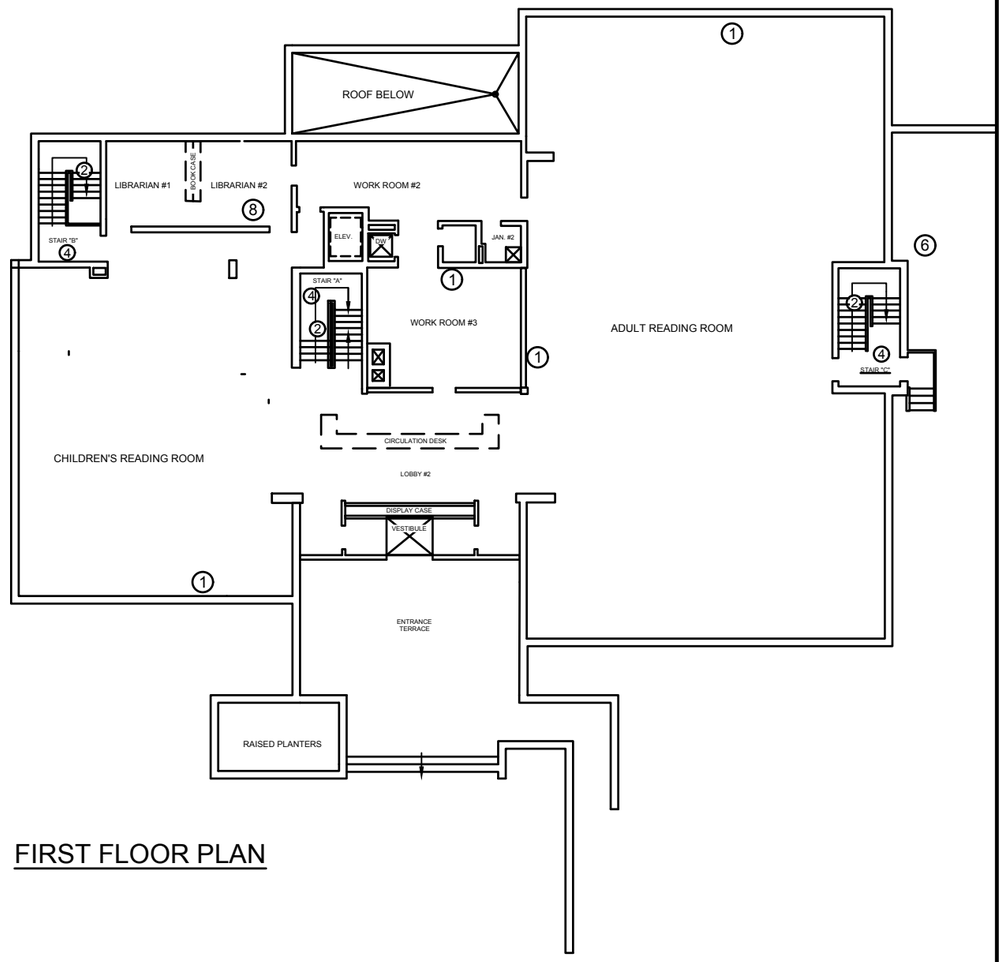
NO.	DATE	PURPOSE

A0.03

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GROUND FLOOR PLAN



FIRST FLOOR PLAN

LEGEND:

Plan #	Material Description	Location
①	Residual Brown Adhesive	Cove Base (Ground and 1st Floors)
②	Dark Brown Adhesive	Stair treads in Stairwells
③	Black Mastic	Exterior Foundation
④	9" grey with white streaks floor tile & Black mastic	South stairwell ground/1st landings, central stairwell 1st-2nd landings, north stairwell 1st-2nd landings
⑤	Grey pliable door/window caulk	Exterior, Ground floor rear entry/vestibule doors and two (2) adjacent windows
⑥	Light grey hard exterior vent caulk	Exterior, 1st floor – surrounding Northeast vent
⑦	White cloth flex connector	Ground floor – 2 mechanical rooms, 2nd floor- mechanical 312 and book storage 310
⑧	Mudded fitting associated with fiberglass pipe insulation	Exposed (readily accessible) – Ground floor – storage adjacent to kitchen and mechanical room, 2nd floor – mechanical 312 and book storage 310 Confirmed and hidden above ceiling tiles – Ground floor – Workroom 105 and lounge (above ceiling tiles) Presumed – Throughout ground floor rooms/areas and throughout all 1st floor rooms/areas (above ceiling tiles), behind toilet/sink fixtures in all bathrooms on all floors

NOTES:

- WHITE CLOTH FLEX CONNECTIONOR (⑦) ASSOCIATED WITH SECOND FLOOR HVAC UNITS.
- MUDDED PIPE FITTINGS (⑧) THROUGHOUT.
- TRC CONSULTANTS SURVEY DETERMINATIONS MAY ALSO EXIST AND MAY NOT BE NOTED ON THIS PLAN IF NOT FOUND DURING SLR'S SURVEY WORK.

0' 10' 20'
0 1/2" 1"

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2 COMMERCE DRIVE, SUITE 110
BEDFORD, NH 03110
603.488.1554
SLRCONSULTING.COM

REVISIONS

SAMPLING LOCATION PLAN

BLOOMFIELD PUBLIC LIBRARY - PROSSER
HAZARDOUS MATERIALS SURVEY

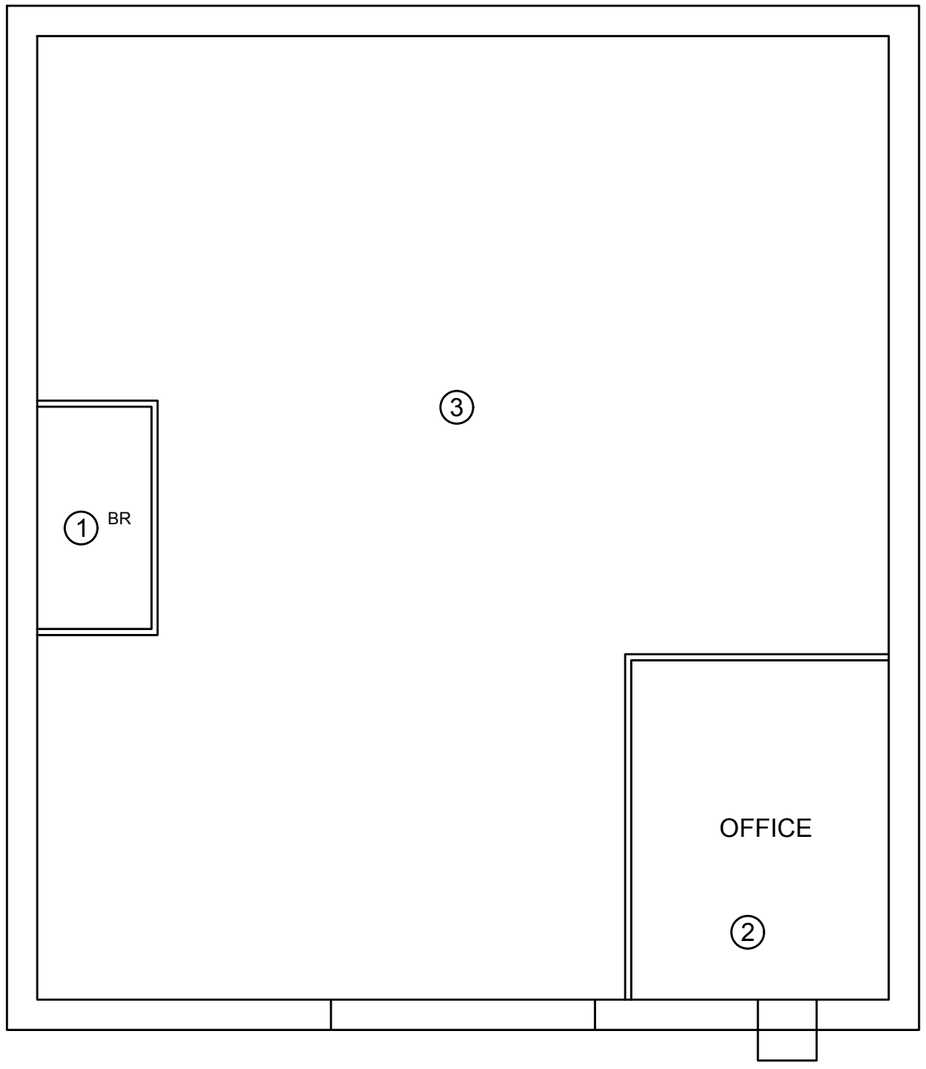
1 TUNXIS AVENUE
BLOOMFIELD, CONNECTICUT

--	JRC	RR
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'±
DATE: APRIL 15, 2022
PROJECT NO.: 144.12571.00015
SHEET NO.: 1

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Drawing: C:\USERS\JCARRIER\APPDATA\LOCAL\TEMP\ACPUBLISH_20336\PROSSER_LIBRARY.DWG Layout: Tab:1
Plotted by: JCARRIER On this date: Mon, 2022 April 18 - 3:07pm



LEGEND:

Plan #	Material Description	Location
①	12" White Mottle Floor Tile	Bath Floors
②	9" Green & 9" Gray Floor Tile and Black Adhesive	Front Office Floor
③	Black Cement and Black Sheathing	Storage Building - Under Roof Panels
④	Silver Asphalt Shingle	Deteriorated Building (Back Lot) - Roof

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SAMPLING LOCATION PLAN

RILEY LUMBER COMPANY
HAZARDOUS MATERIALS SURVEY

6 MOUNTAIN AVENUE
BLOOMFIELD, CONNECTICUT

--	JRC	RR
DESIGNED	DRAWN	CHECKED

SCALE: NOT TO SCALE

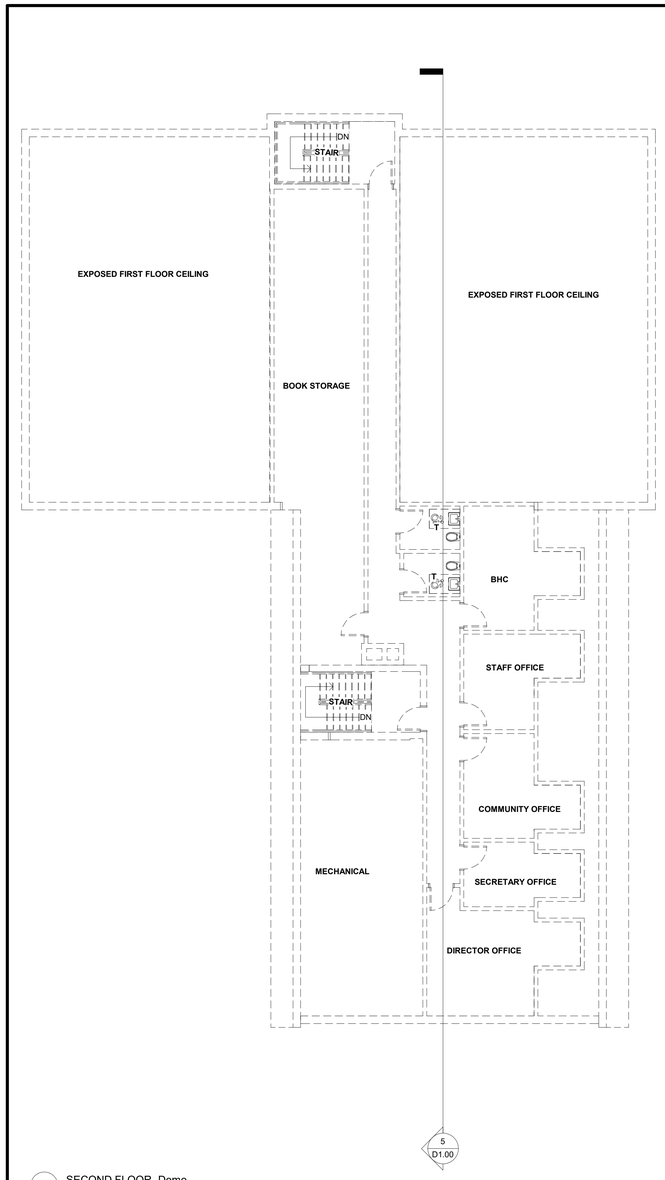
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PROJECT NO.: 144.12571.00015

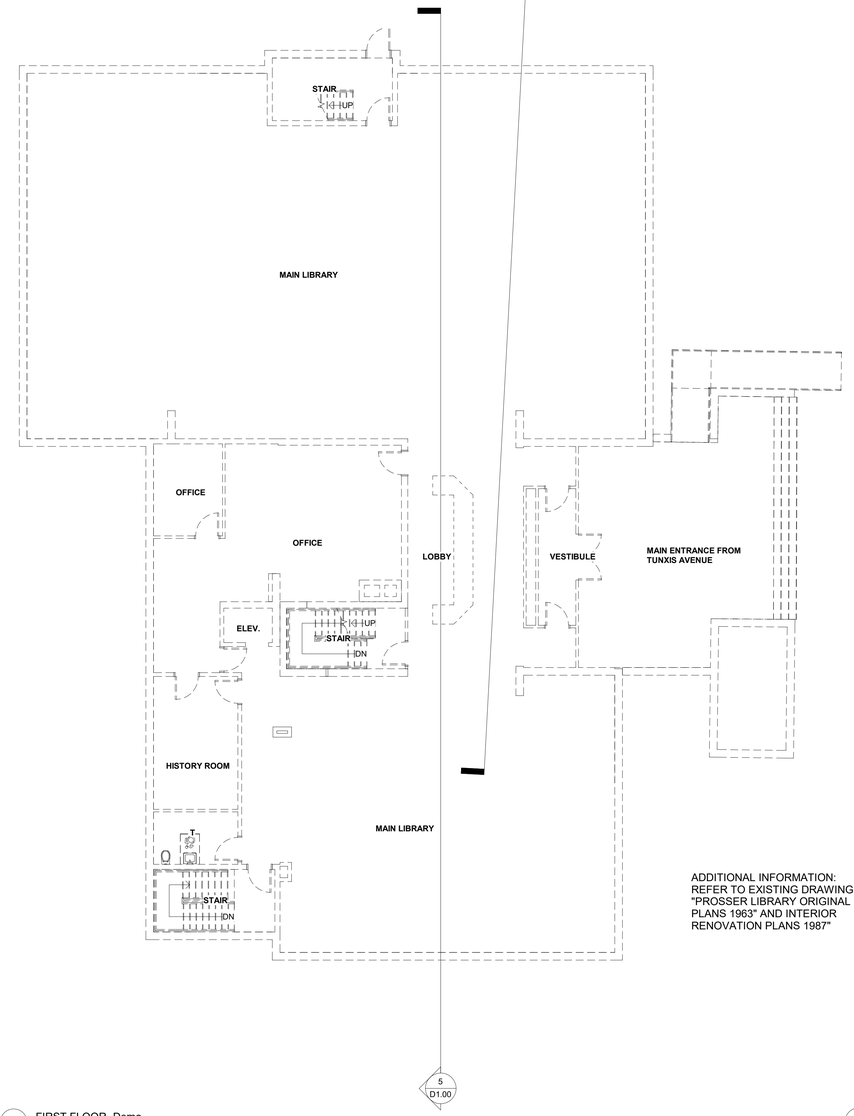
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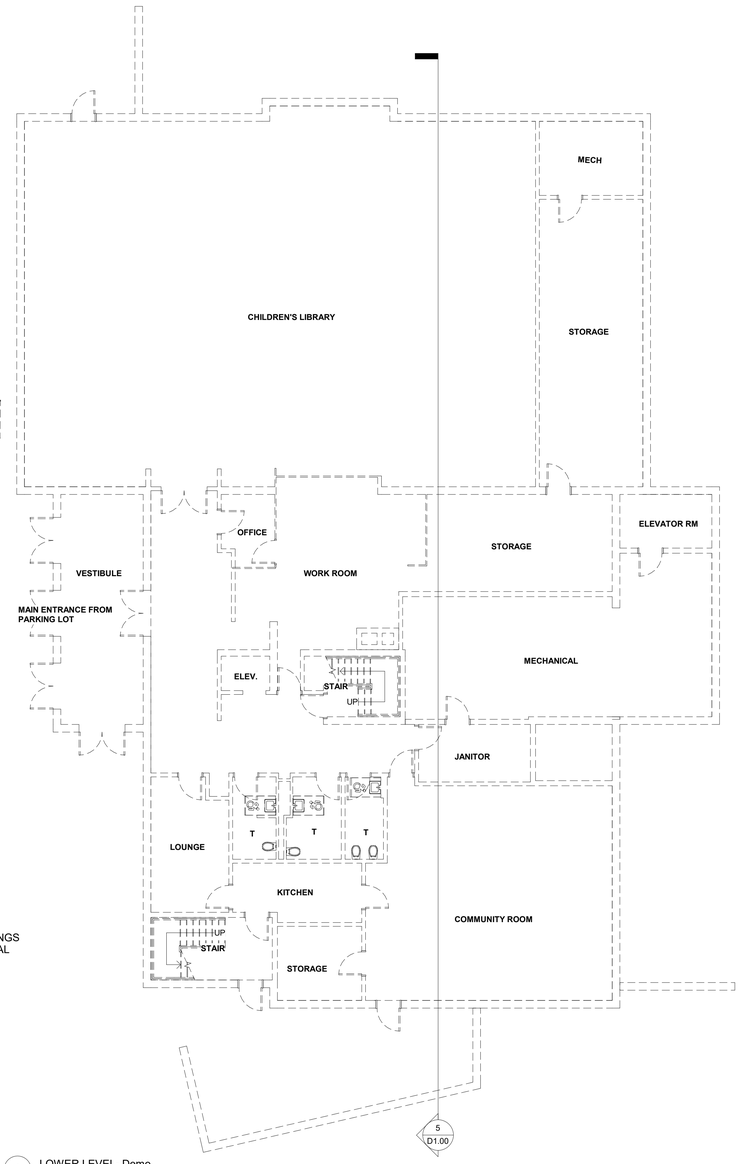
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Plotted by: JCARRIER On: this date: Mon, 2022 April 18 – 3:08pm



3 SECOND FLOOR- Demo
1/8" = 1'-0"

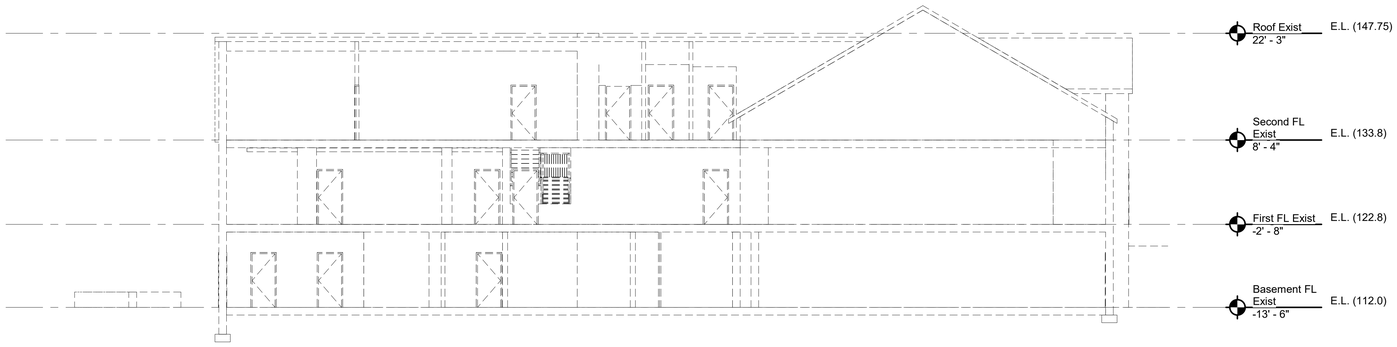


2 FIRST FLOOR- Demo
1/8" = 1'-0"

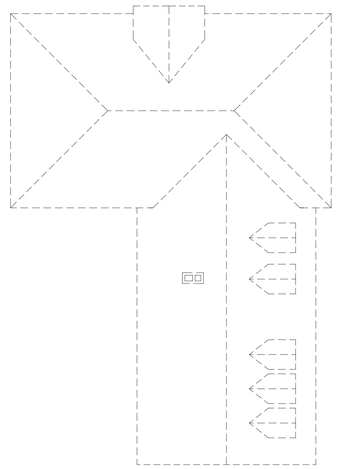


1 LOWER LEVEL- Demo
1/8" = 1'-0"

ADDITIONAL INFORMATION:
REFER TO EXISTING DRAWINGS
"PROSSER LIBRARY ORIGINAL
PLANS 1963" AND INTERIOR
RENOVATION PLANS 1987"



5 SECTION - DEMO
1/8" = 1'-0"



4 ROOF- Demo
1/16" = 1'-0"

DEMOLITION KEYNOTES

1 REMOVE STRUCTURE IN ITS ENTIRETY INCLUDING REMOVAL OF FOOTINGS AND FOUNDATIONS

DEMOLITION PLAN LEGEND

1 KEYED DEMOLITION NOTE SYMBOL

EXISTING CONSTRUCTION TO BE REMOVED

EXISTING CONSTRUCTION TO REMAIN

EXISTING AREAS WHERE DEMOLITION WORK TO BE DONE

GENERAL DEMO NOTES

1. SEE MECH. / ELEC. / PLUMBING / ABATEMENT DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION, TRENCHING, AND CUTTING RELATED TO NEW M.E.P SYSTEMS.

2. ALL INFORMATION ON DEMOLITION PLANS HAVE BEEN COMPLETED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE DEMOLOTION WITH WITH ALL NEW CONSTRUCTION AND WITH ALL TRADES. NO ATTEMPT HAS BEEN MADE TO ILLUSTRATE ALL REQUIRED DEMOLITION. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL DEMOLITION NECESSARY TO COMPLETE THE WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH & REPAIR ALL EXISTING WORK DISTURBED BY DEMOLITION ACTIVITIES IN A MANNER THAT RESULT IN A COMPLETE AND FINISHED PRODUCT. THIS PATCH & REPAIR INCLUDES ALL FINISHES NEEDED TO MATCH ADJACENT SURFACES.

54 IF A WALL OR SURFACE HAS BEEN WORKED ON, THAT WALL OR SURFACE SHALL BE PATCHED & REPAIRED WITH A COMPLETE FINISH, TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR SMOOTH & CLEAN TRANSITION FROM NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACE; i.e., THE INTENT IS TO ELIMINATE THE APPERANCE OF A PATCHED CONDITION.

5. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLOTION WORK. MECHANICAL, ELECTRICAL, AND OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT.

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

DEMO PLANS & SECTION

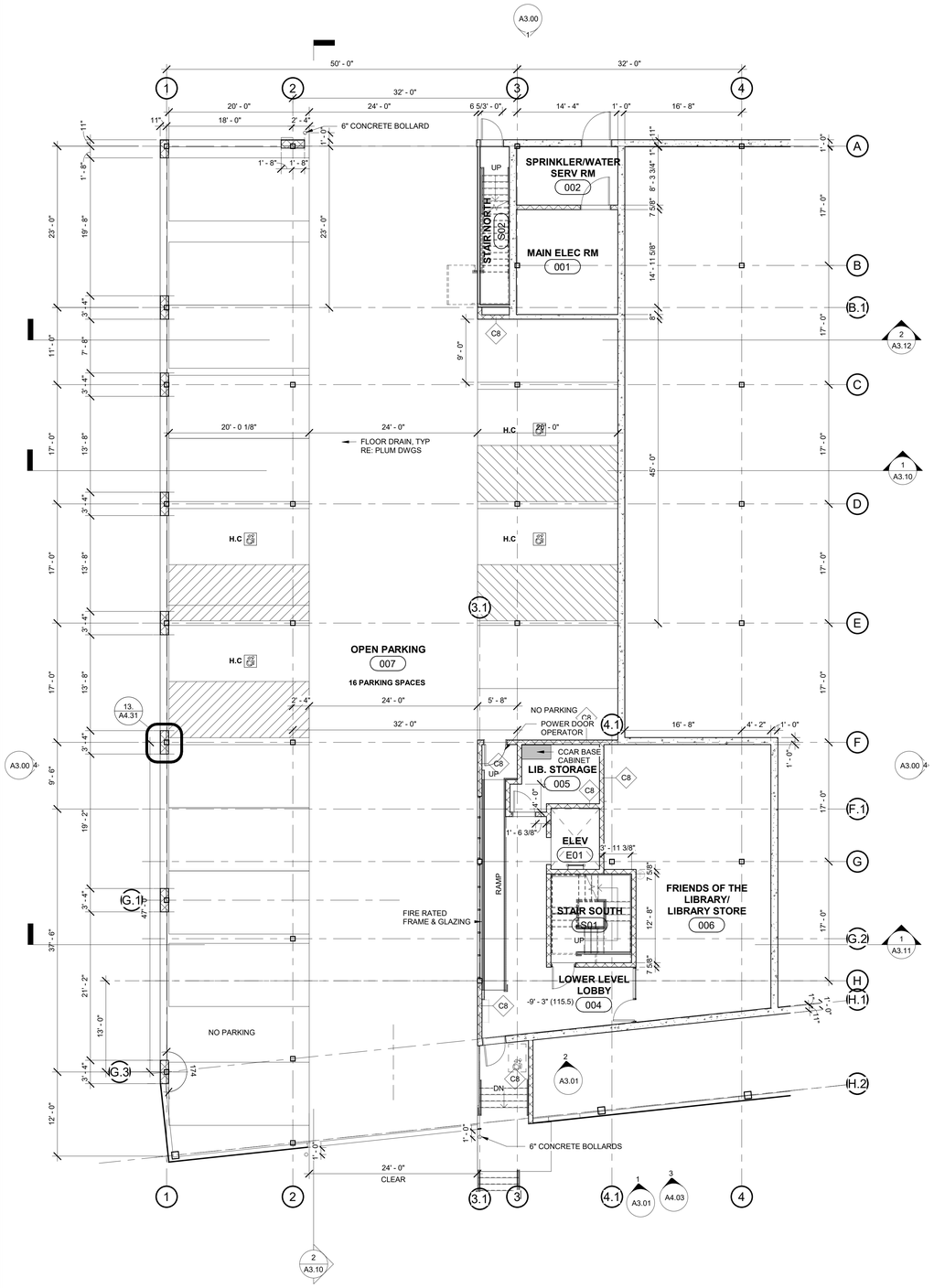
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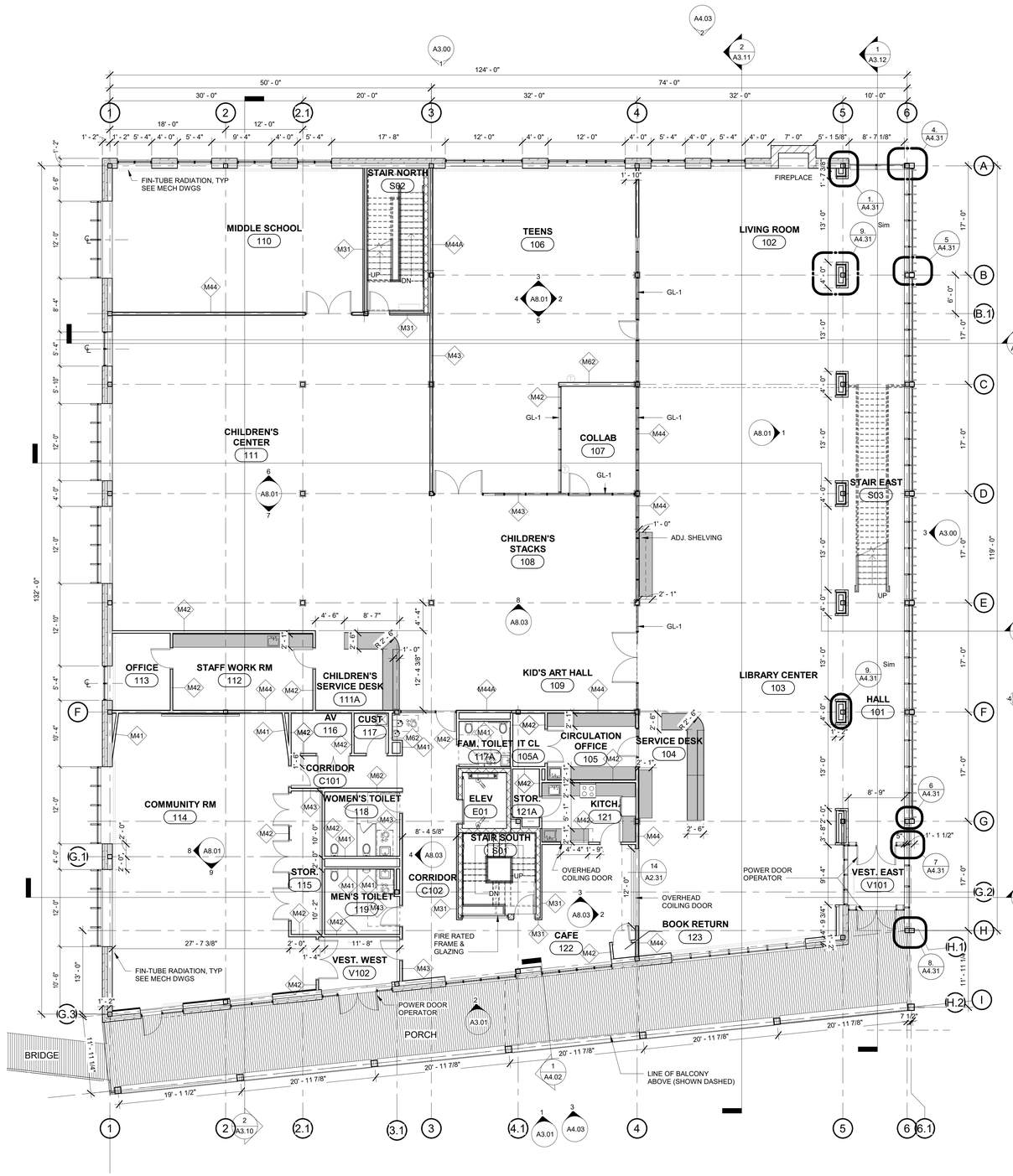
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1 LOWER LEVEL PLAN
1/8" = 1'-0"



2 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. ALL PARTITIONS SHALL BE TYPE M42 UNLESS OTHERWISE NOTED. M42 CONSISTS OF 2 LAYERS 5/8" GYP BD, 3-5/8" MET STUD @ 16" OC & 3-1/2" SOUND ATTENUATION BATTS.

2. ALL PARTITIONS SHALL RUN TO THE UNDERSIDE OF DECK OR BEAM ABOVE.

3. AREAS IN SHADED GREY ARE MILLWORK.

GLAZING NOTES:

1. ALL INTERIOR GLAZING TO BE TEMPERED GLASS UNLESS OTHERWISE NOTED.
2. INTERIOR GLAZING AT OFFICES SHALL HAVE 1/2" LAMINATED GLASS.
3. **GL-1** = 1/4" LAMINATED GLASS (BOTH SIDES) +1/2" AIR SPACE

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KEY PLAN

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LOWER LEVEL & FIRST FLOOR PLAN

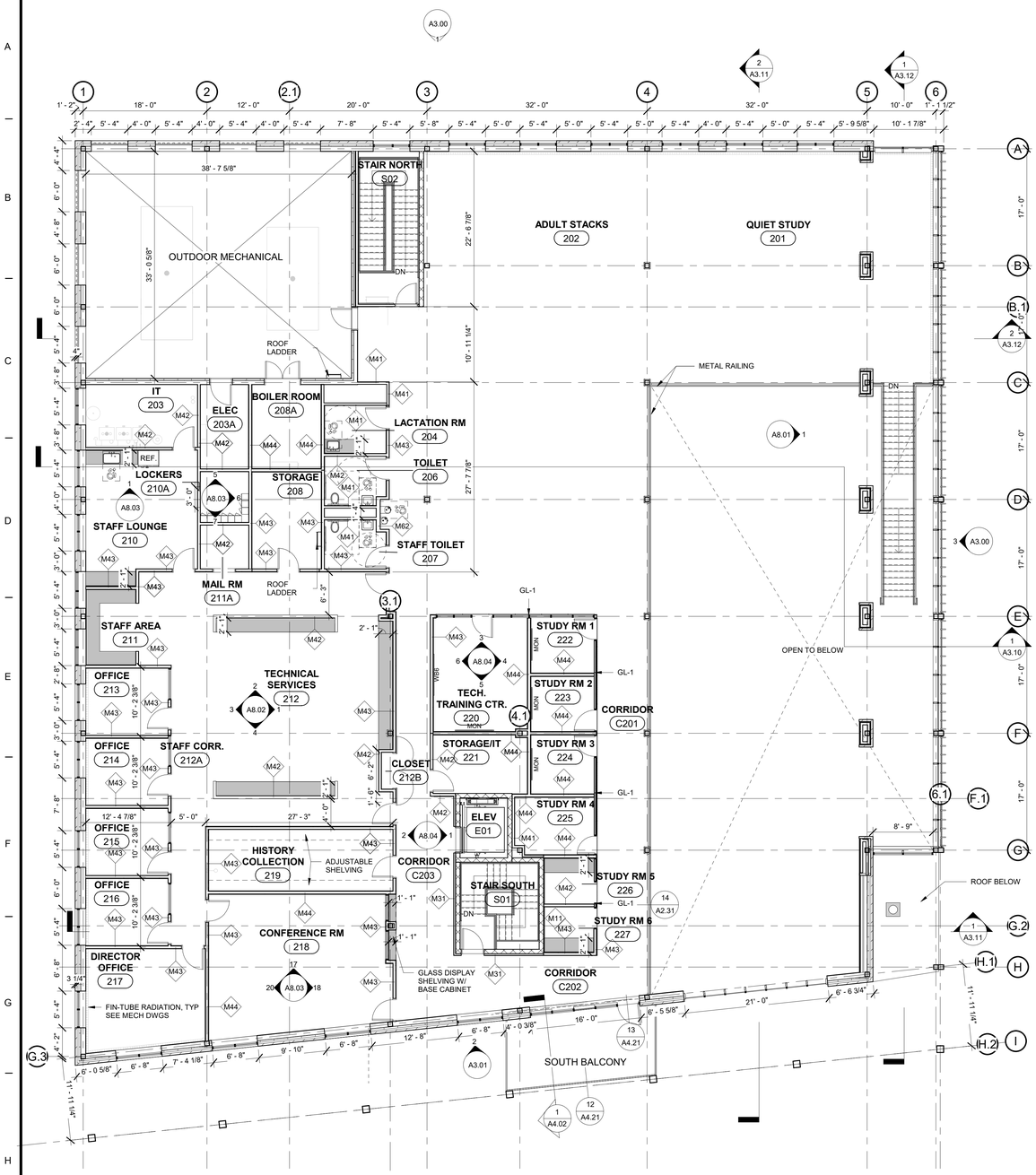
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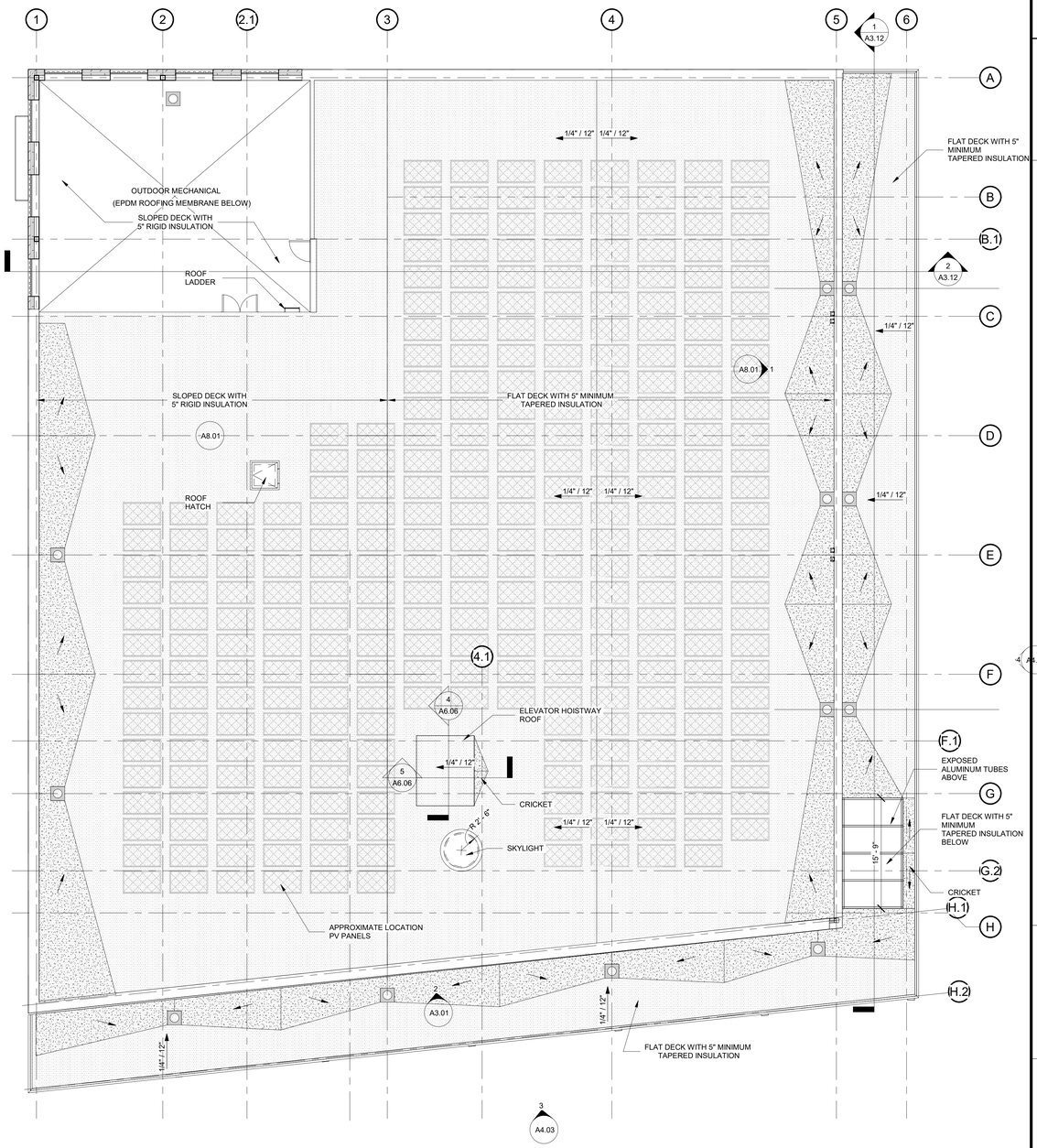
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A1.00

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1 SECOND FLOOR PLAN
1/8" = 1'-0"



2 ROOF PLAN
1/8" = 1'-0"

ROOF LEGEND

- EPDM ROOFING ON RIGID INSULATION
- EPDM ROOFING ON TAPERED INSULATION (5" MIN.)
- EPDM ROOFING ON ROOF CRICKET OR SADDLE
- ROOF DRAIN - SEE PLUMBING DWGS FOR TYPES
- LINE OF WALKWAY PAD

ROOF NOTES

1. LOCATION OF ALL ROOF DRAINS (EXISTING OR NEW) SHALL BE FIELD VERIFIED.
2. PROVIDE CONT. WOOD BLOCKING AT ROOF DECK FLUTES AND ON ROOF DECK TO SUPPORT INSULATION, ROOF PARAPET FRAMING, MECHANICAL UNIT CURBS WHERE REQUIRED. (VIF)

GENERAL NOTES:

1. ALL PARTITIONS SHALL BE TYPE M42 UNLESS OTHERWISE NOTED. M42 CONSISTS OF 2 LAYERS 5/8" GYP BD, 3-5/8" MET STUD @ 16" OC & 3-1/2" SOUND ATTENUATION BATTS.

2. ALL PARTITIONS SHALL RUN TO THE UNDERSIDE OF DECK OR BEAM ABOVE.

3. AREAS IN SHADED GREY ARE MILLWORK.

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SECOND FLOOR & ROOF PLAN

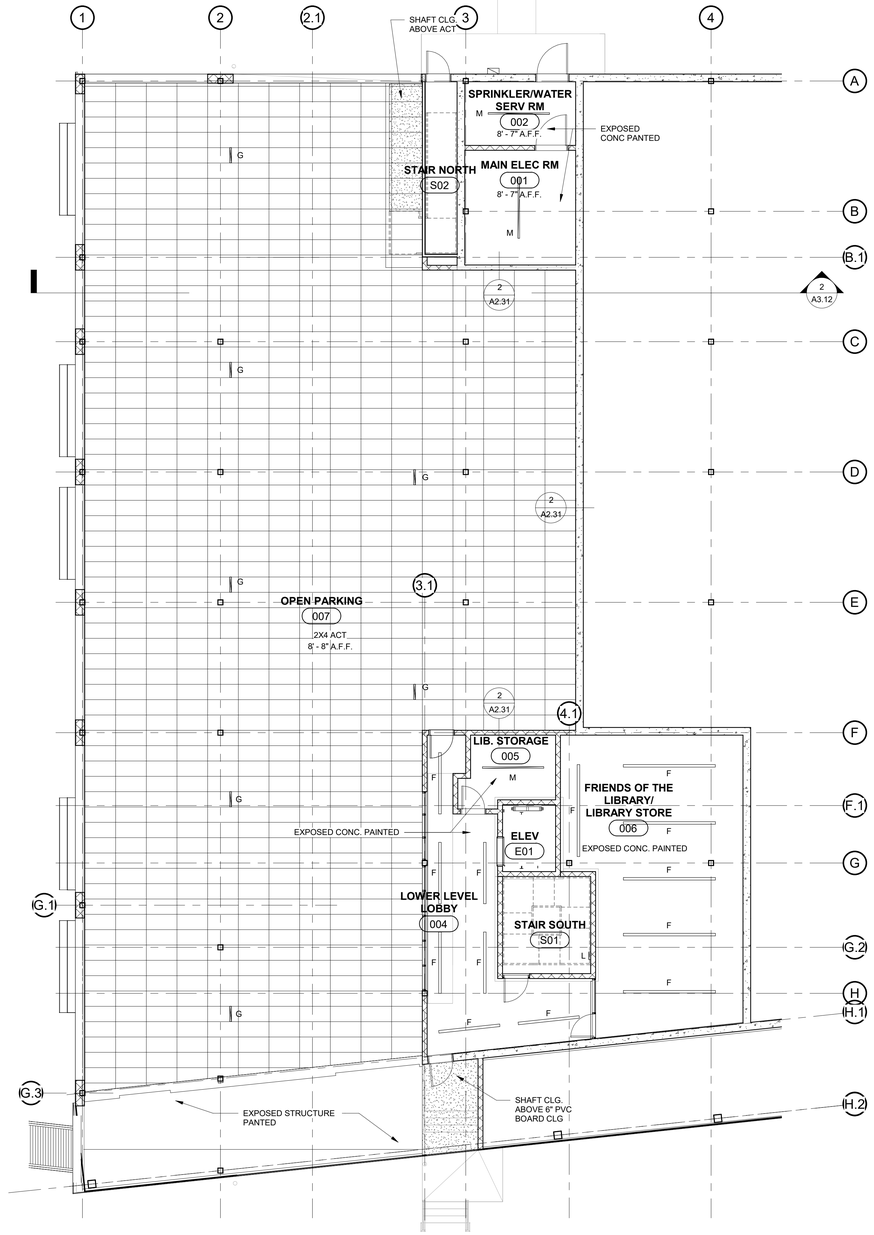
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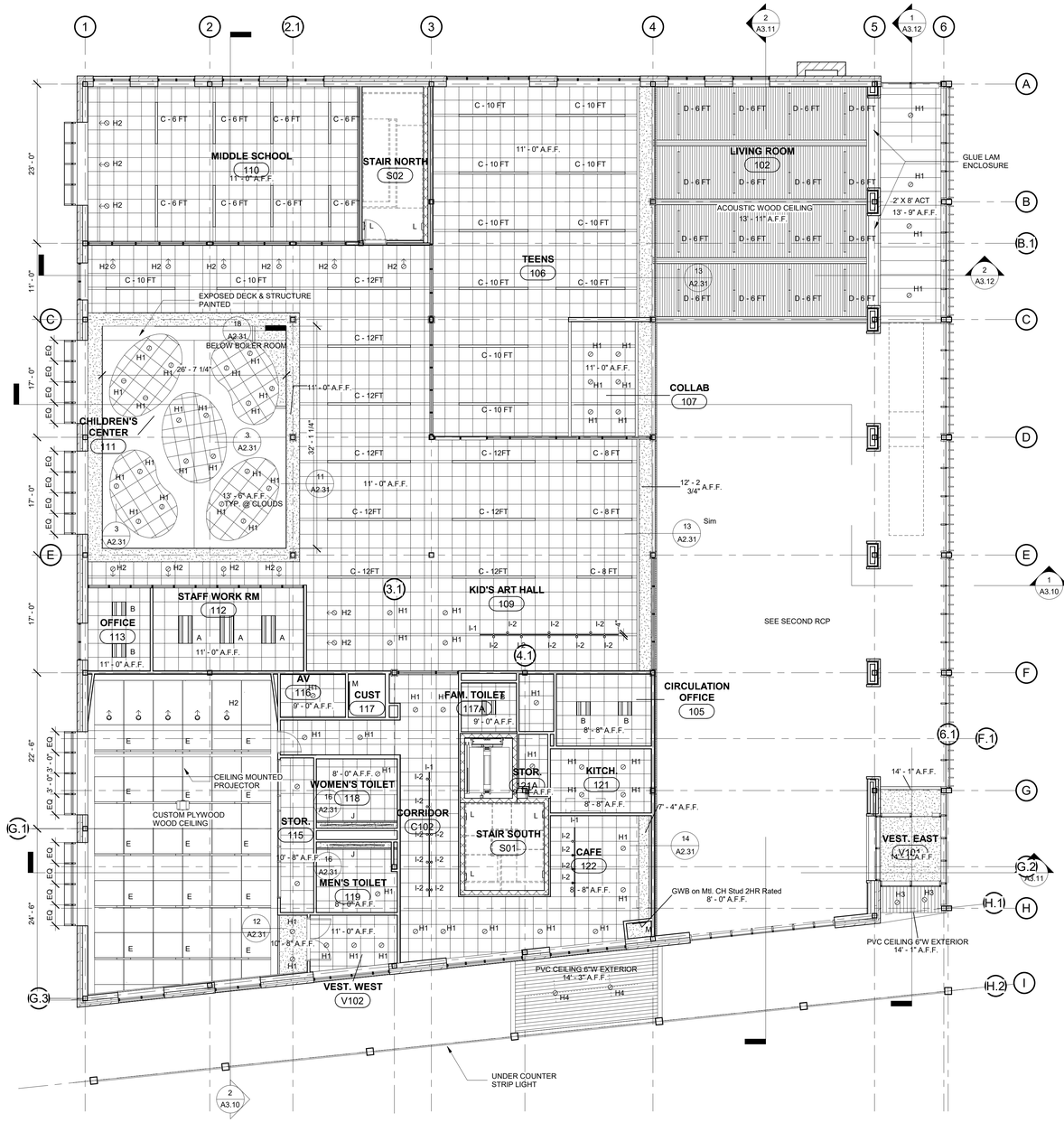
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A1.01

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1 LOWER LEVEL RCP
1/8" = 1'-0"



2 FIRST FLOOR RCP
1/8" = 1'-0"

CEILING LEGEND

- 2X2 ACT
- GWB
- EXPOSED CONC PANTED
- CEMENT BOARD WITH STUCCO FINISH
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- RADIANT PANEL
- SPRINKLER
- CEILING MOUNTED CAMERA
- CIRCLE CEILING MOUNTED SPEAKER
- SQUARE CEILING MOUNTED SPEAKER

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KEY PLAN

DRAWING TITLE

LOWER LEVEL & FIRST FLOOR REFLECTED CEILING PLAN

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A2.00

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1 SECOND FLOOR RCP
1/8" = 1'-0"

CEILING LEGEND

- 2X2 ACT
- GWB
- EXPOSED CONC PANTED
- CEMENT BOARD WITH STUCCO FINISH
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- RADIANT PANEL
- SPRINKLER
- CEILING MOUNTED CAMERA
- CIRCLE CEILING MOUNTED SPEAKER
- SQUARE CEILING MOUNTED SPEAKER

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PROJECT NORTH

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SECOND FLOOR REFLECTED CEILING PLAN

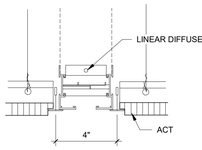
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
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ISSUE DATES

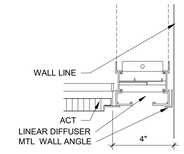
NO.	DATE	PURPOSE

A2.01

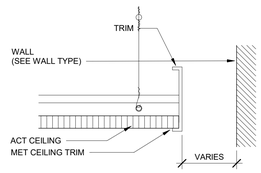
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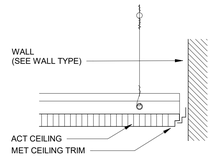
5 DIFFUSER @ ACT/ACT
3" = 1'-0"



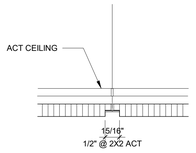
4 DIFFUSER @ ACT / WALL
3" = 1'-0"



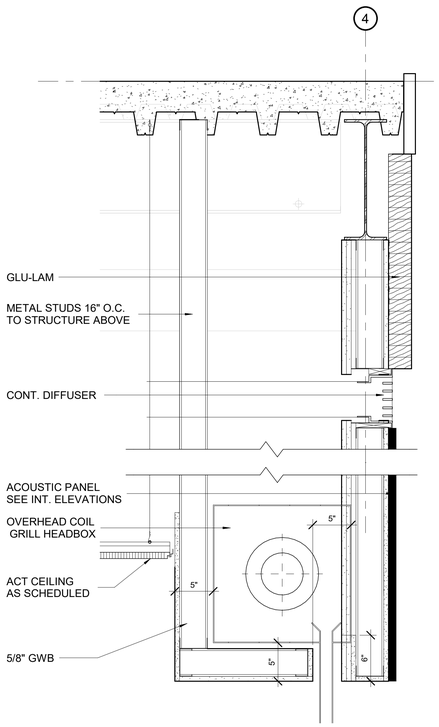
3 ACT CEILING TRIM
3" = 1'-0"



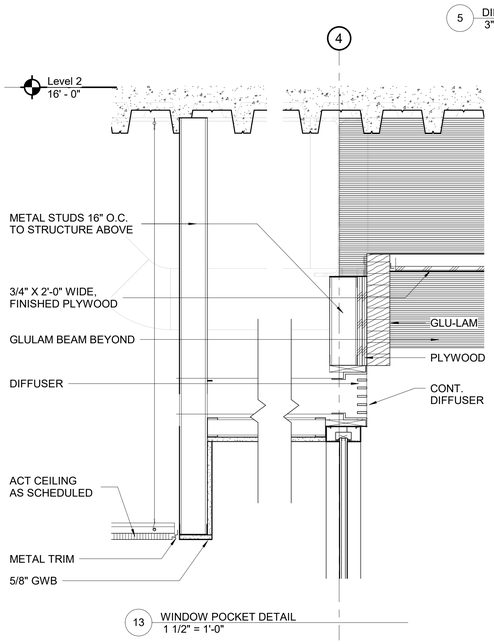
2 ACT CEILING AT WALL (TYP.)
3" = 1'-0"



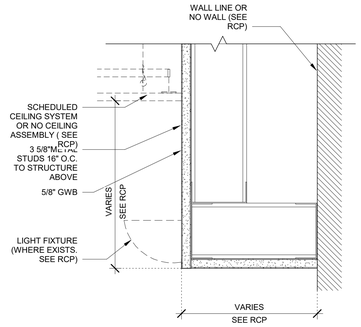
1 ACT CEILING (TYP.)
3" = 1'-0"



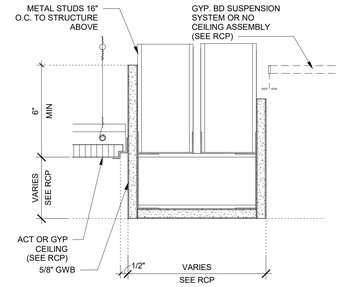
14 OVERHEAD COIL BOX HEAD DETAIL
1 1/2" = 1'-0"



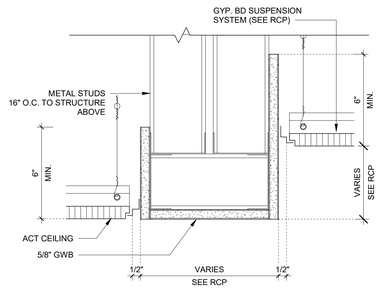
13 WINDOW POCKET DETAIL
1 1/2" = 1'-0"



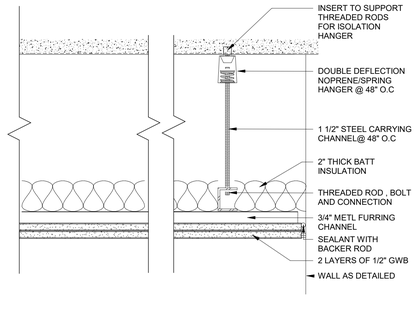
12 GWB SOFFIT - GWB / WALL
3" = 1'-0"



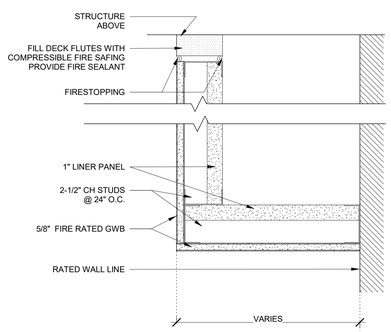
11 GWB SOFFIT - ACT/GWB
3" = 1'-0"



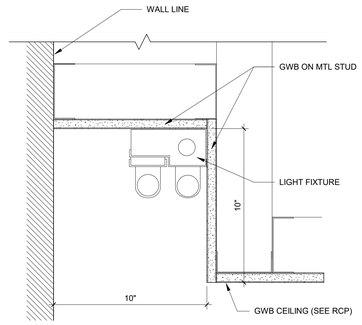
10 GWB SOFFIT - ACT/ACT
3" = 1'-0"



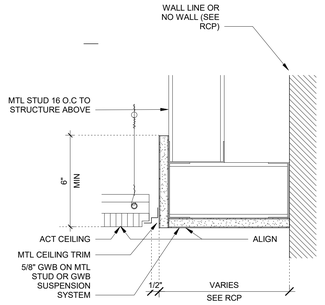
18 ACOUSTICAL CEILING
3" = 1'-0"



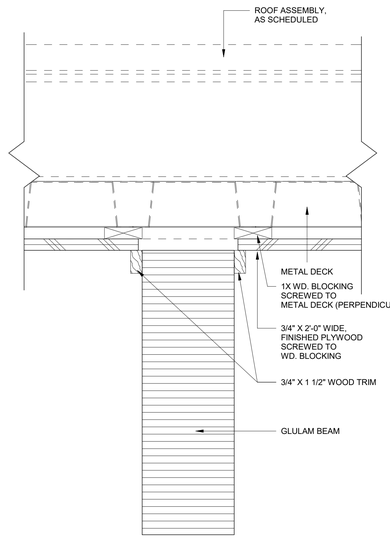
17 1 HR RATED CEILING DETAIL
3" = 1'-0"



16 LIGHT POCKET AT TOILET
3" = 1'-0"



15 GWB/ACT INTERSECTION
3" = 1'-0"



9 WOOD CEILING
3" = 1'-0"

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BLOOMFIELD, CT 06002

PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

CEILING DETAILS

STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	As indicated
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ISSUE DATES

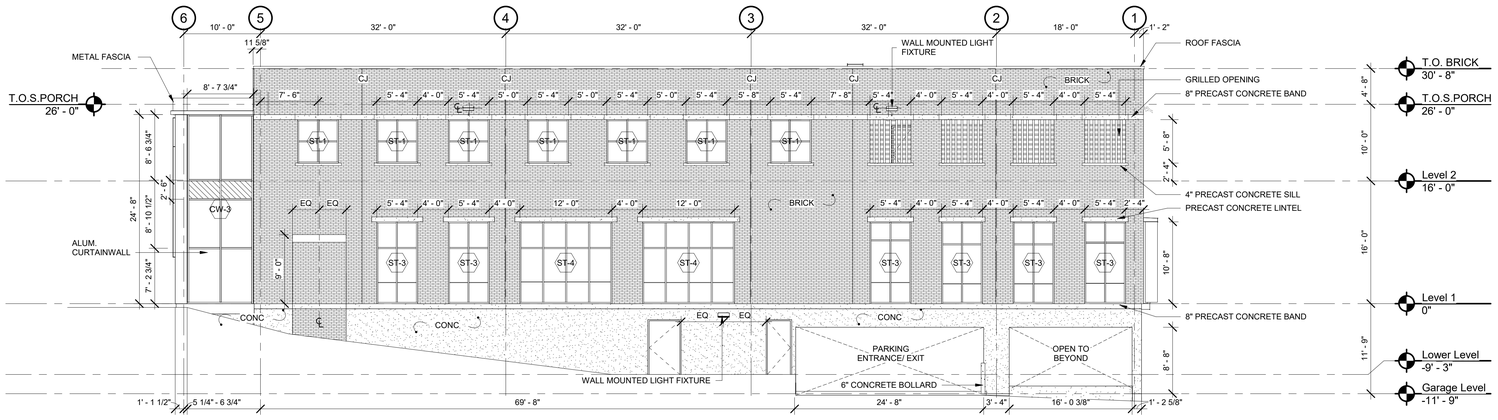
NO.	DATE	PURPOSE

A2.31

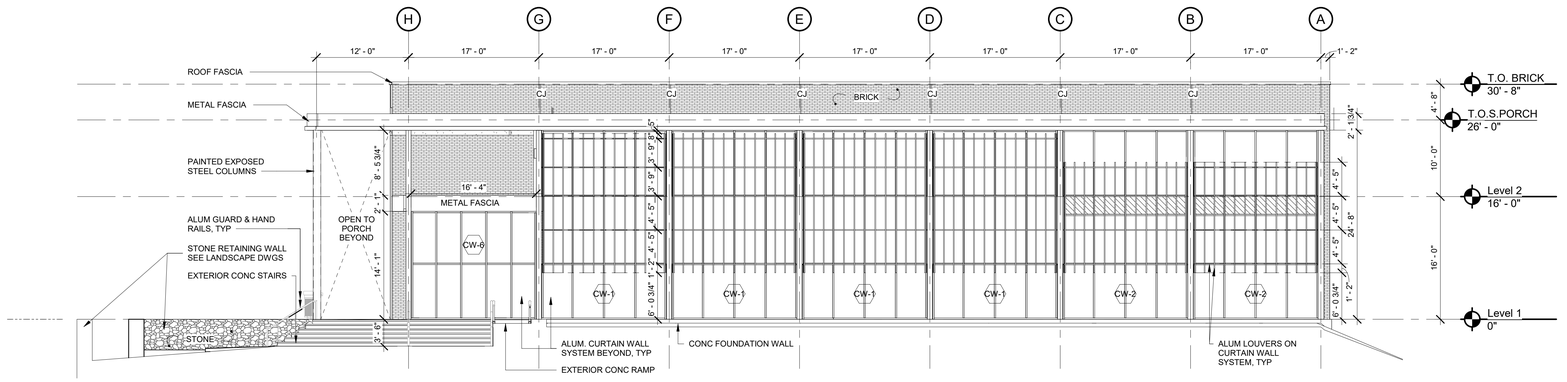
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EXTERIOR ELEVATION NOTES:

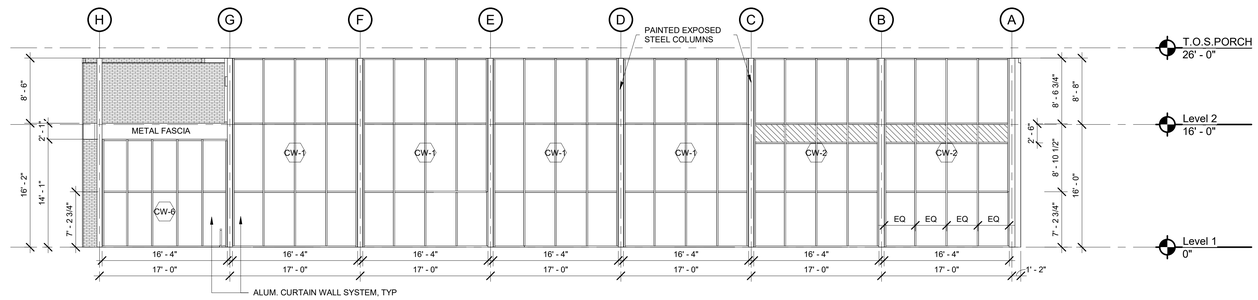
1. ALL EXTERIOR WINDOWS ARE STOREFRONT (ST) UNLESS OTHERWISE NOTED. REFER TO A0.01 FOR MORE INFORMATION.



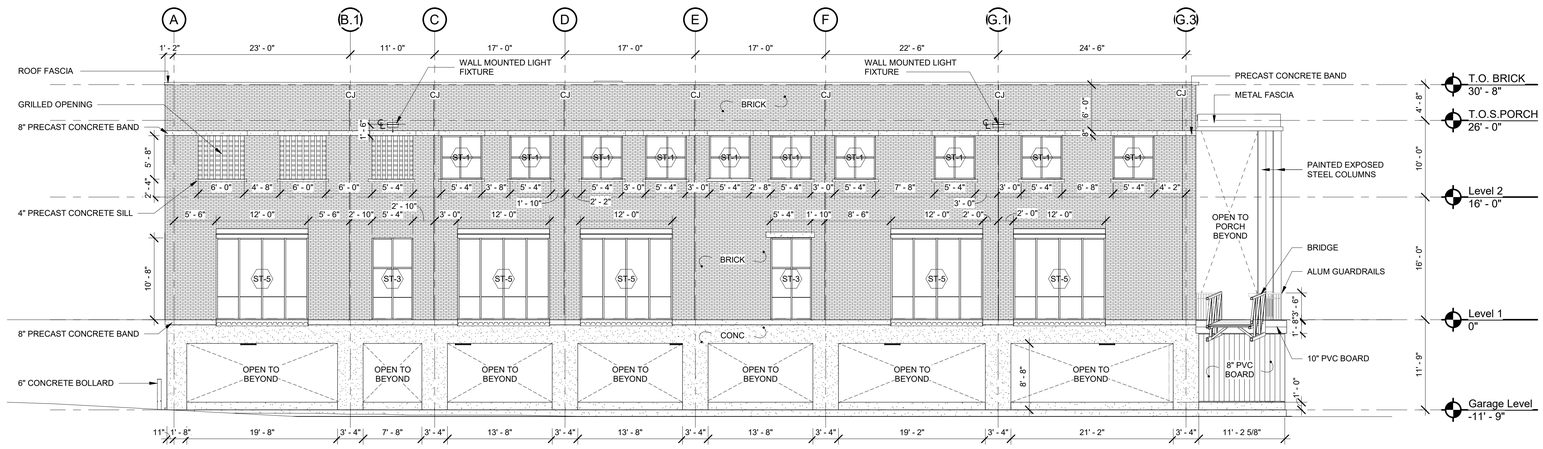
1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 EAST ELEVATION 2
1/8" = 1'-0"



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

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EXTERIOR ELEVATIONS

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SCALE	As indicated
DATE	10/07/22
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ISSUE DATES

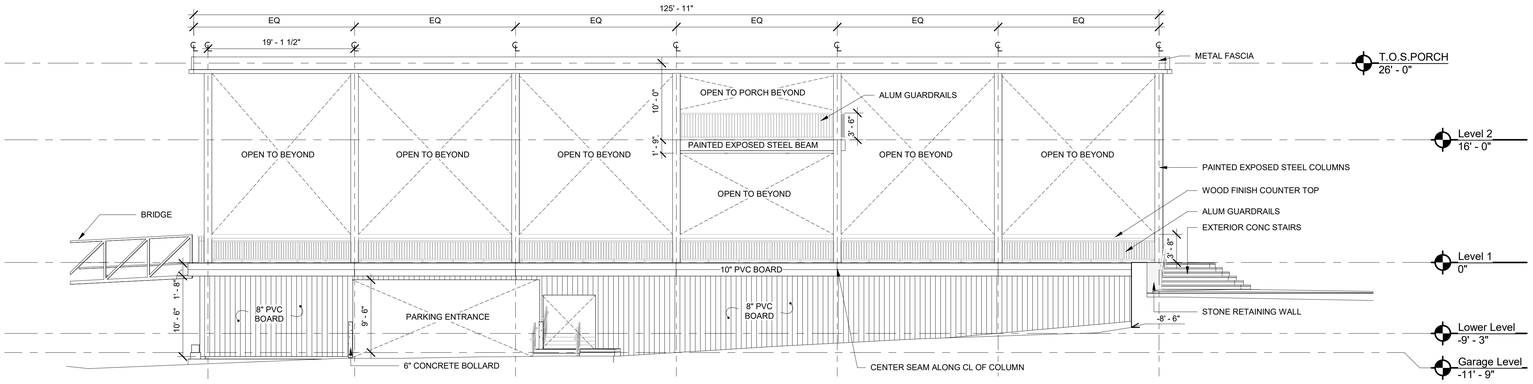
NO.	DATE	PURPOSE

A3.00

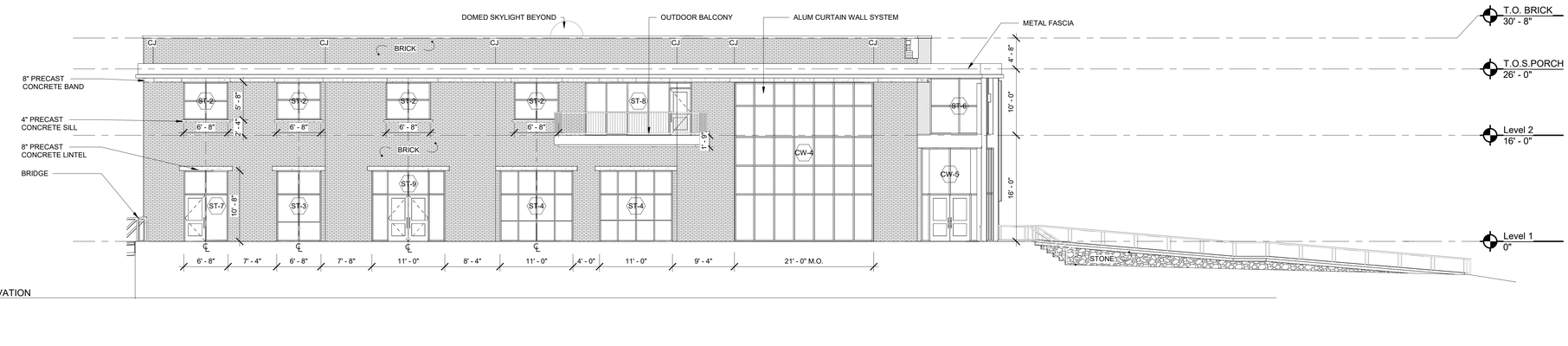
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EXTERIOR ELEVATION NOTES:

1. ALL EXTERIOR WINDOWS ARE STOREFRONT (ST) UNLESS OTHERWISE NOTED. REFER TO A0.01 FOR MORE INFORMATION.



1 SOUTH ELEVATION - PORCH
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

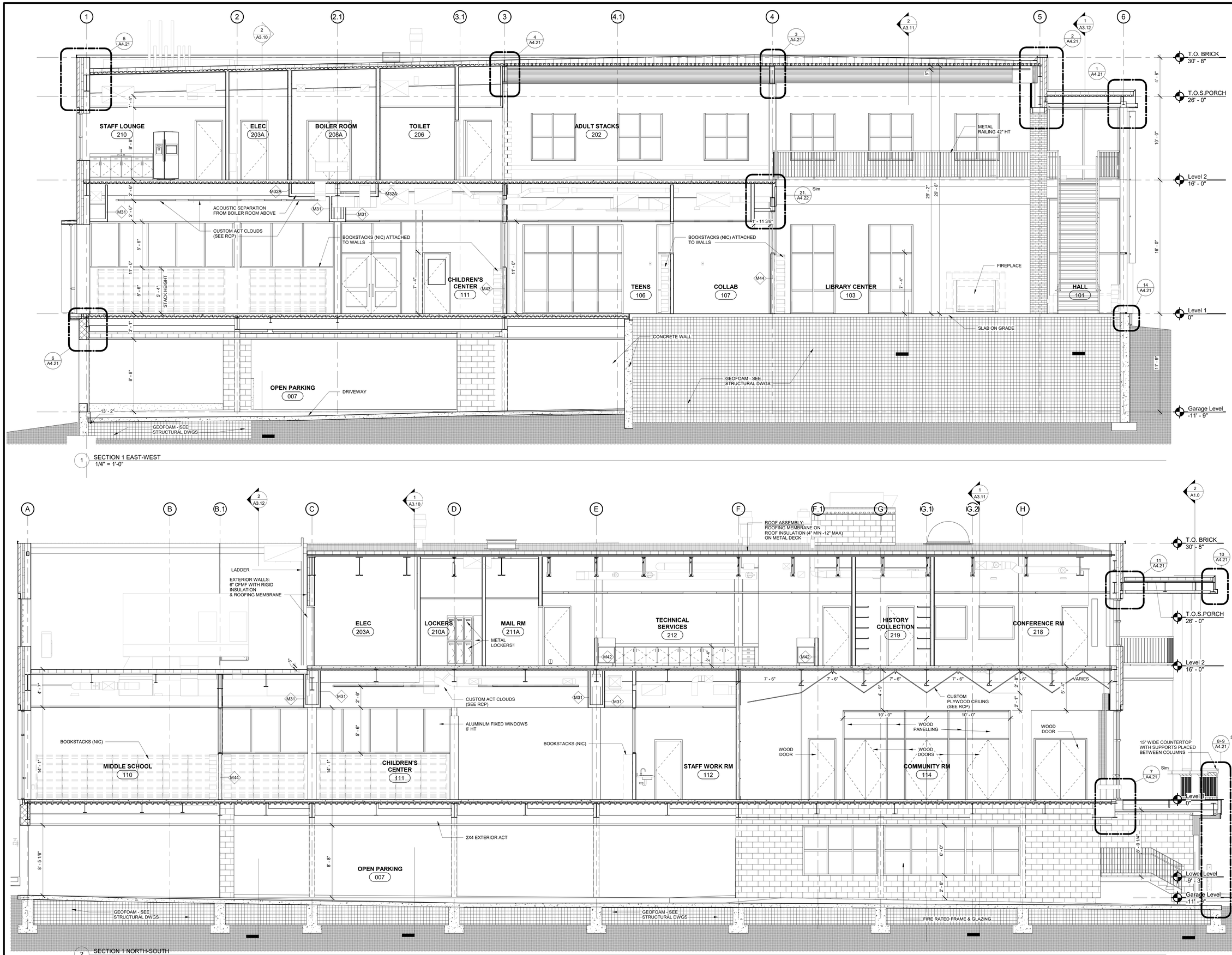
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
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ISSUE DATES

NO.	DATE	PURPOSE

A3.01

10/9/2022 4:42:42 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



1 SECTION 1 EAST-WEST
1/4" = 1'-0"

2 SECTION 1 NORTH-SOUTH
1/4" = 1'-0"

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KEY PLAN

DRAWING TITLE

BUILDING SECTIONS

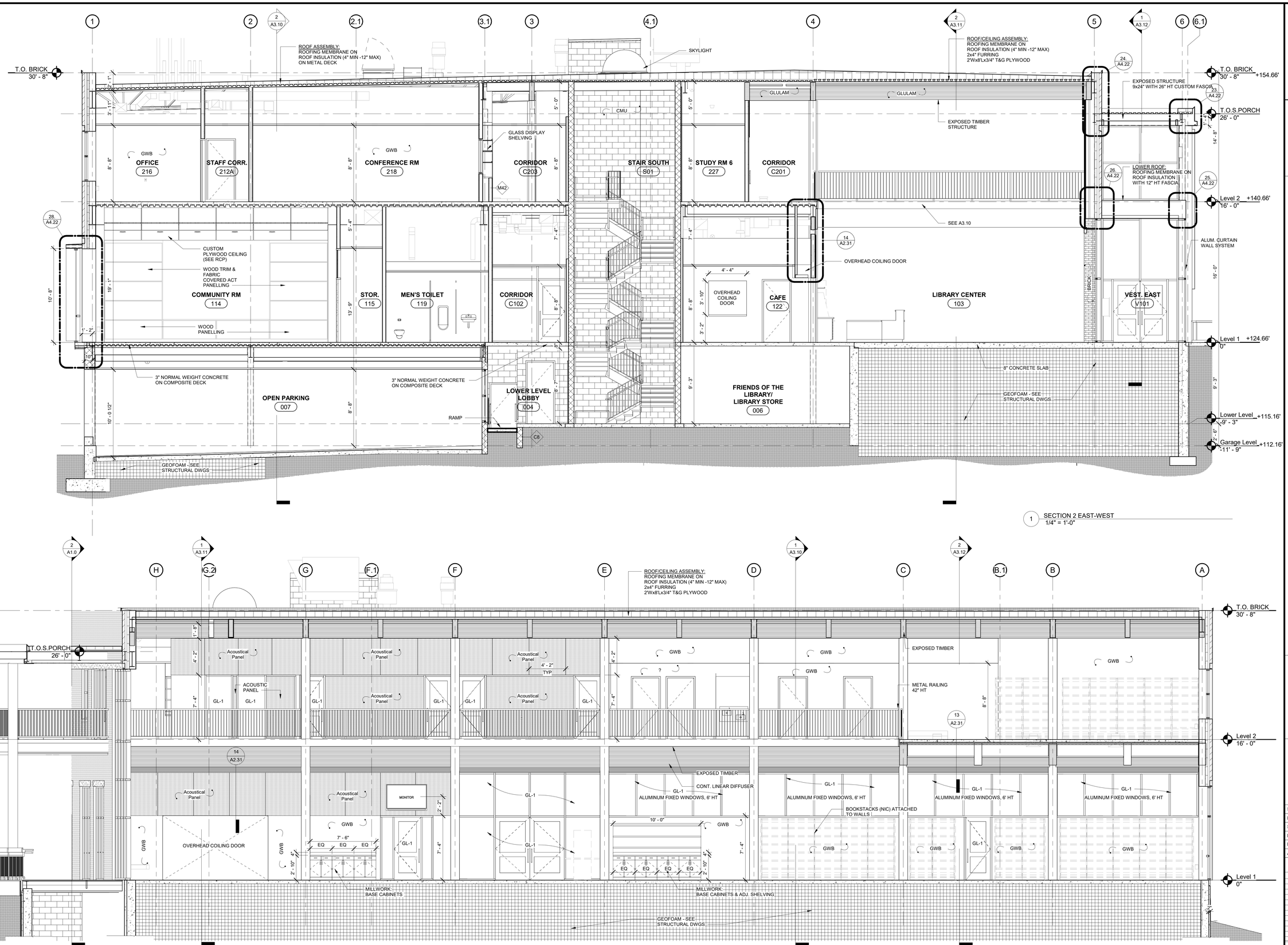
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
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ISSUE DATES

NO.	DATE	PURPOSE

A3.10

10/9/2022 4:42:03 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



1 SECTION 2 EAST-WEST
1/4" = 1'-0"

2 SECTION 2 LOBBY / ADULT
1/4" = 1'-0"

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DRAWING TITLE

BUILDING SECTIONS

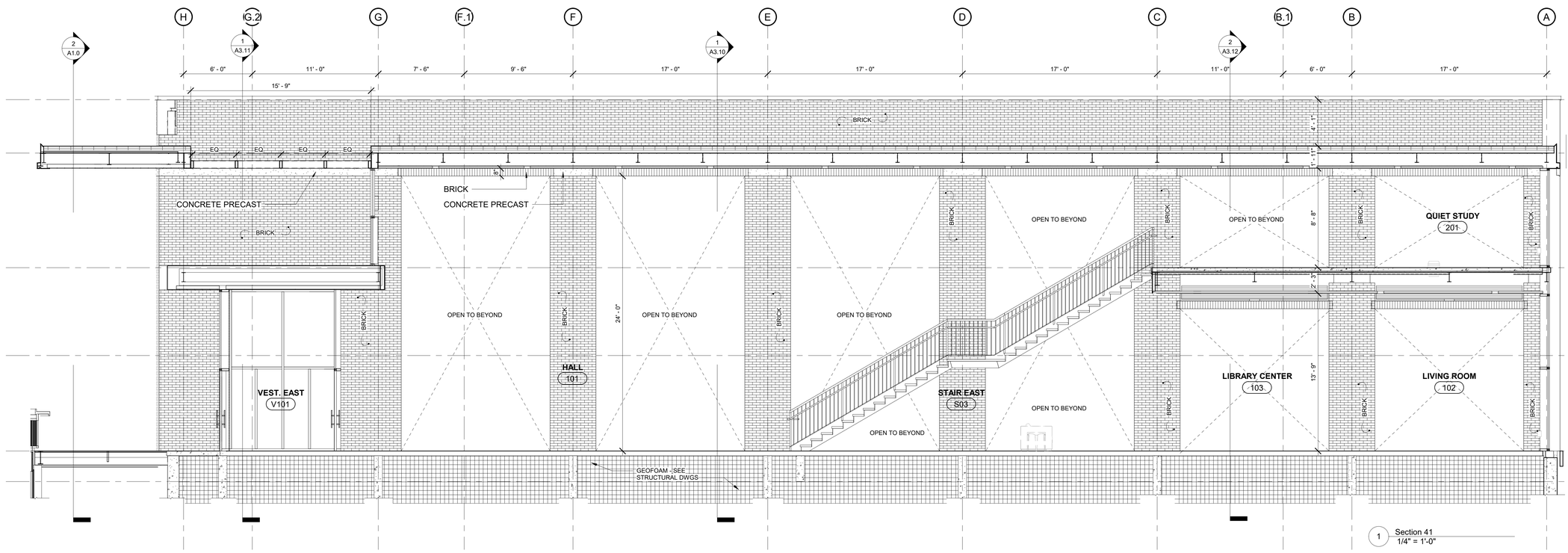
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
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ISSUE DATES

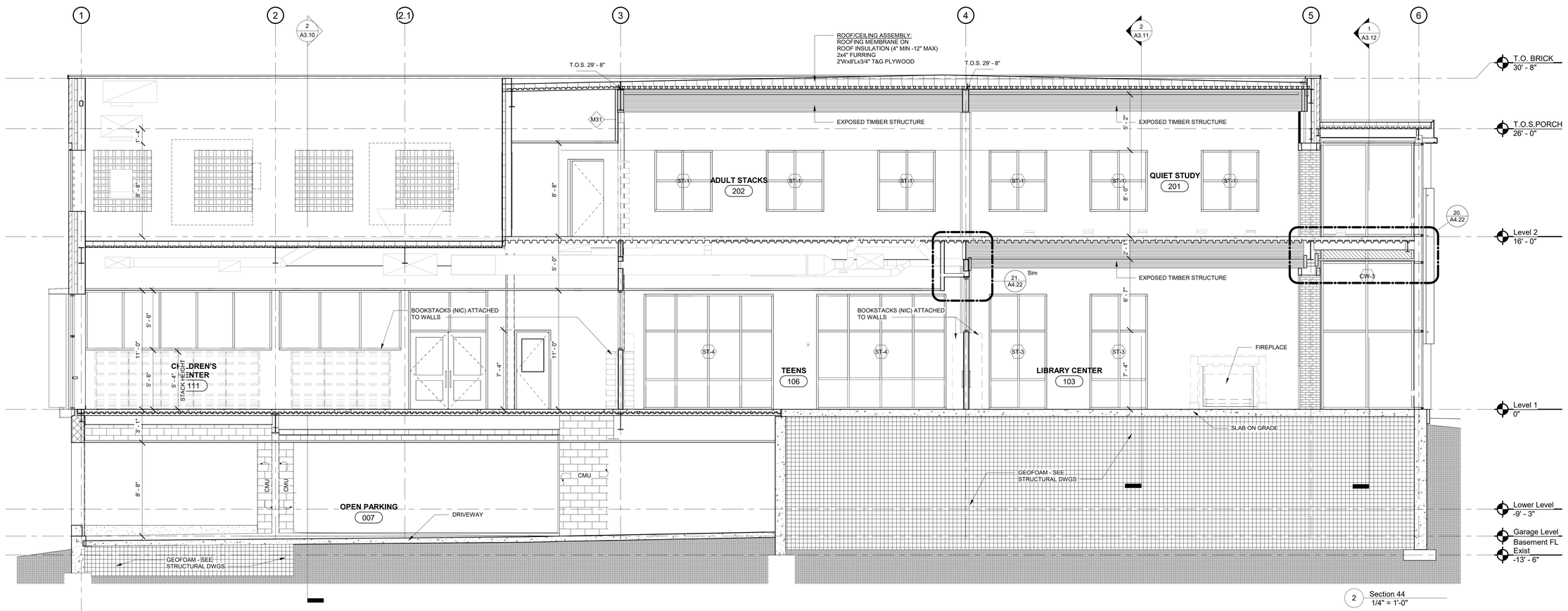
NO.	DATE	PURPOSE

A3.11

10/9/2022 4:43:02 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



1 Section 41
1/4" = 1'-0"



2 Section 44
1/4" = 1'-0"

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BUILDING SECTIONS

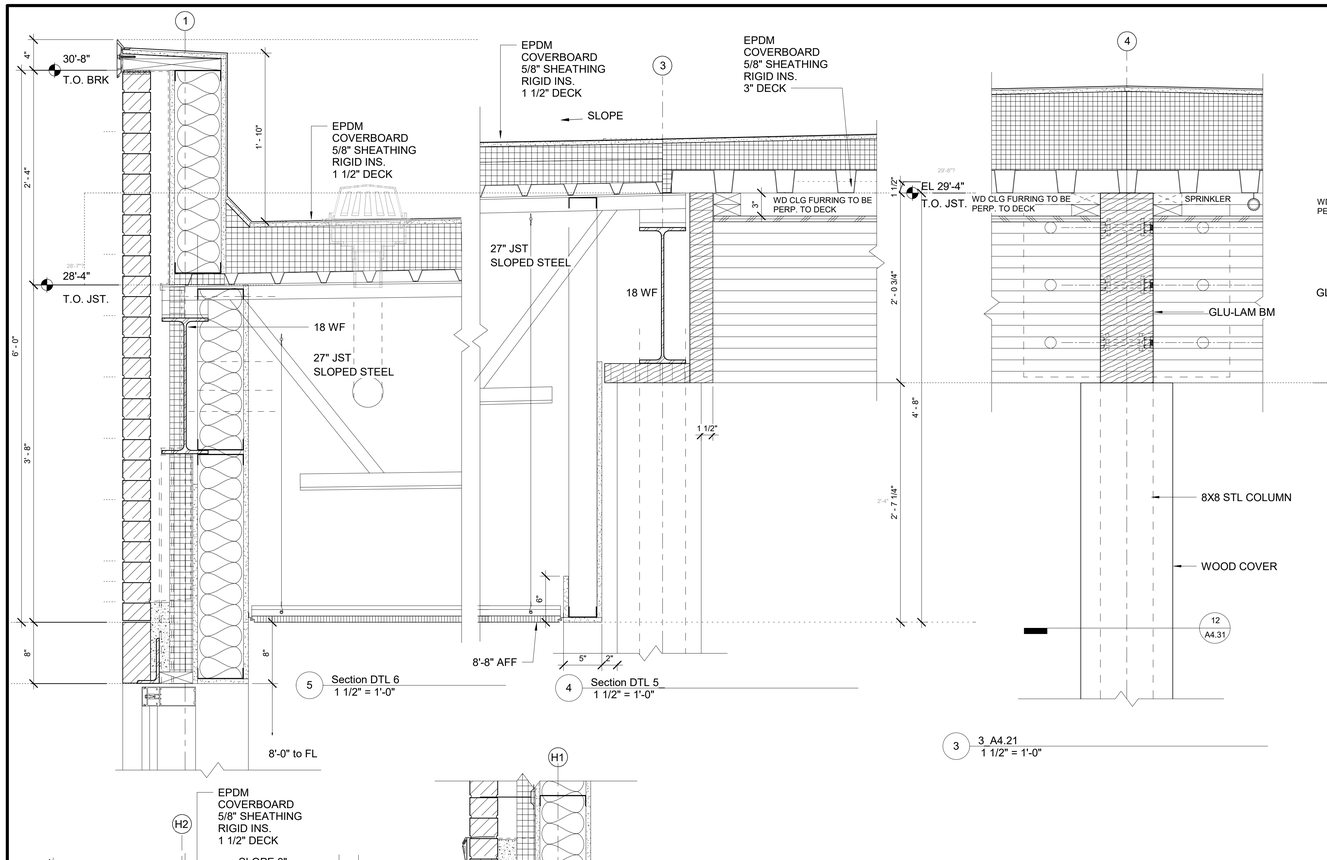
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
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ISSUE DATES

NO.	DATE	PURPOSE

A3.12

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SECTION DETAILS

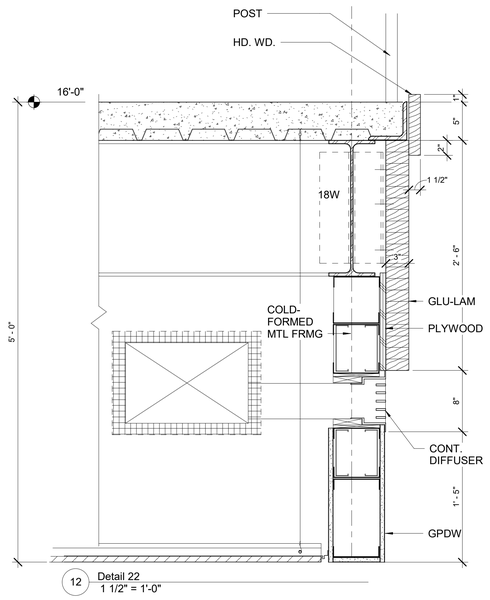
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	1 1/2" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

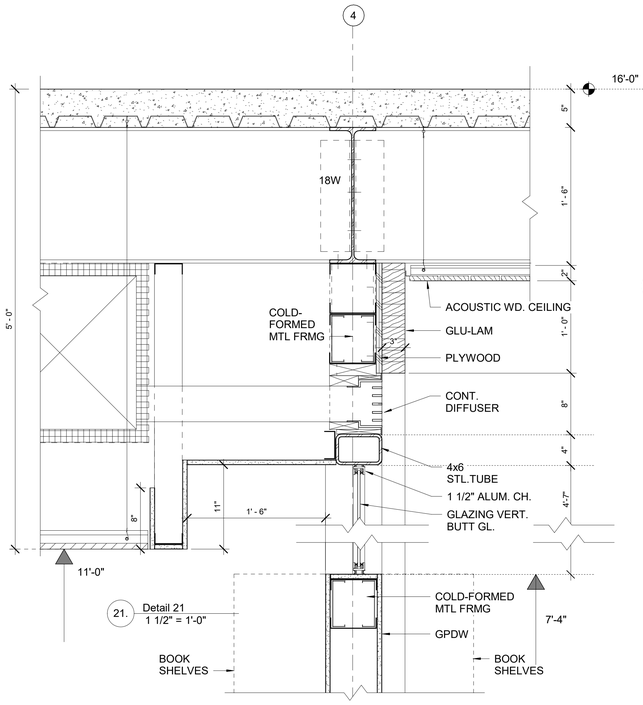
NO.	DATE	PURPOSE

A4.21

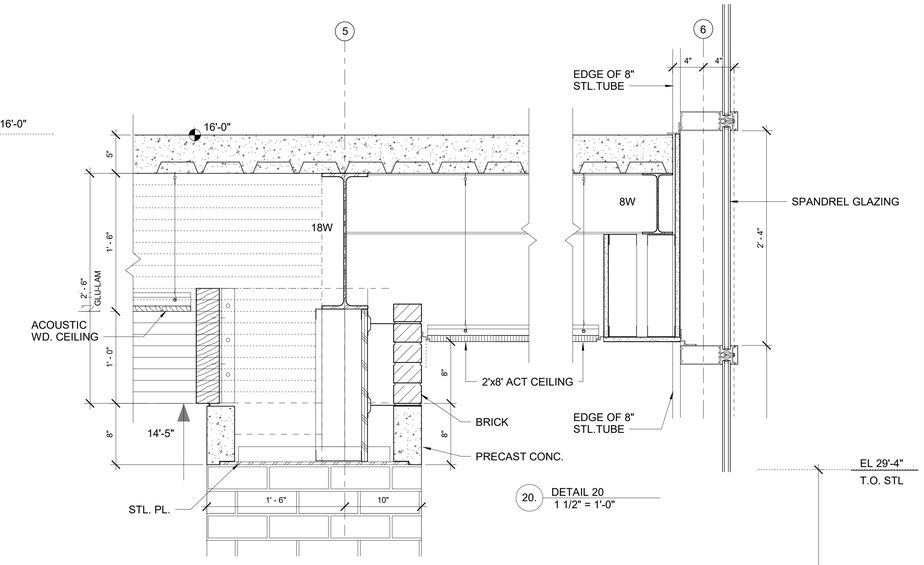
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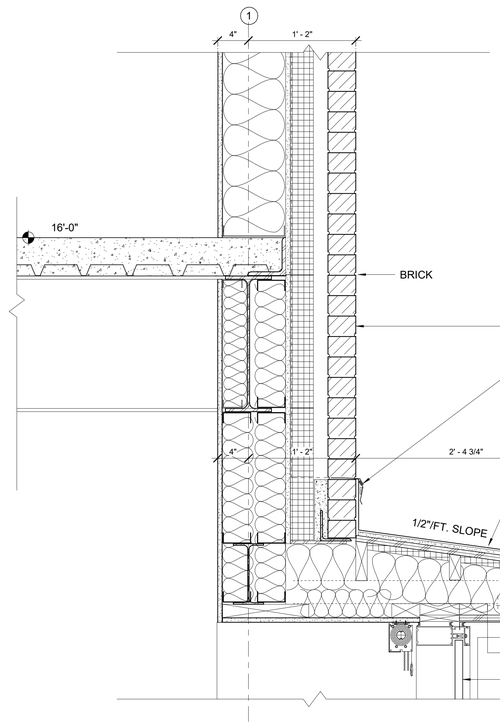
12 Detail 22
1 1/2" = 1'-0"

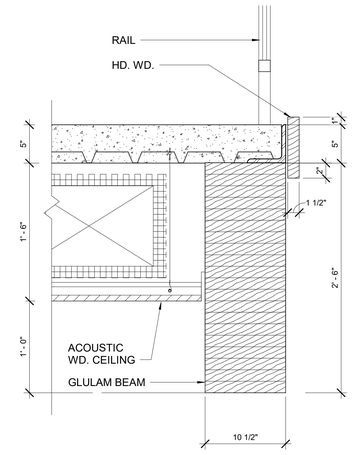


21. Detail 21
1 1/2" = 1'-0"

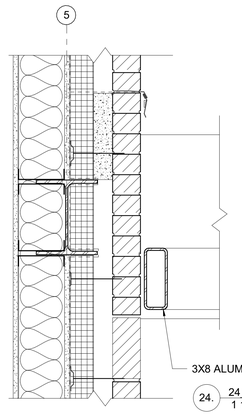


20. DETAIL 20
1 1/2" = 1'-0"

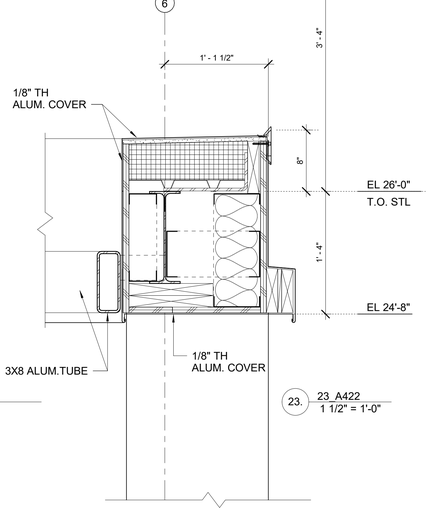




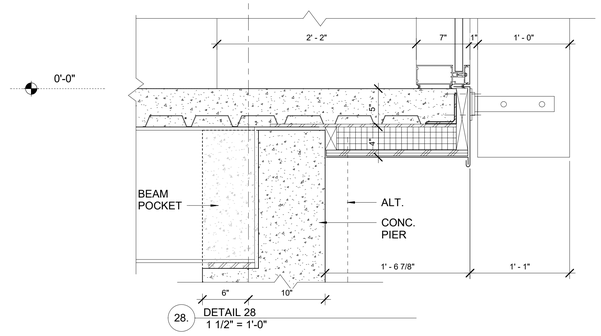
27. DETAIL 27
1 1/2" = 1'-0"



24. 24_A422
1 1/2" = 1'-0"

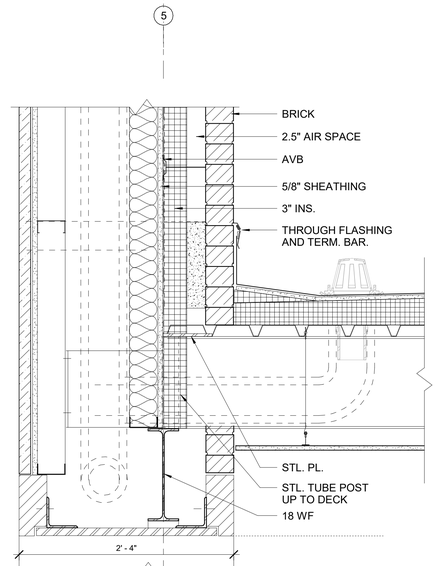


23. 23_A422
1 1/2" = 1'-0"

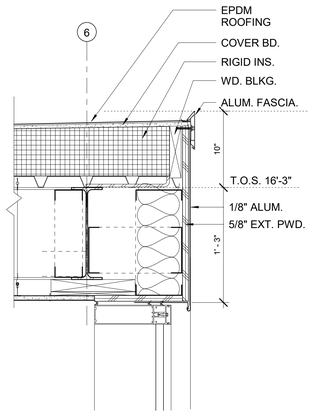


28. DETAIL 28
1 1/2" = 1'-0"

WATERPROOFING
6" BELOW GRADE.
DRAINAGE BOARD
& RIGID INS.- TYP.



26. 26_A422
1 1/2" = 1'-0"



25. 25_A422
1 1/2" = 1'-0"

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SECTION DETAILS

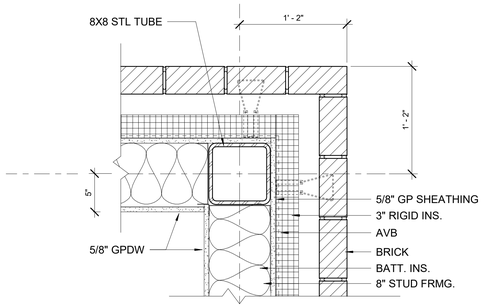
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PROJ. NO.	200802
SCALE	1 1/2" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

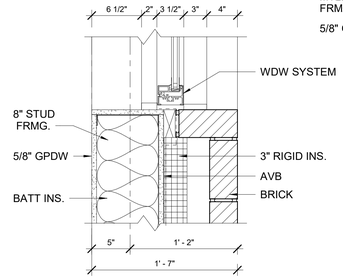
NO.	DATE	PURPOSE

A4.22

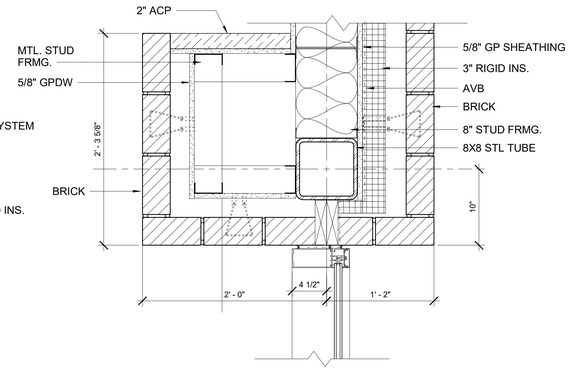
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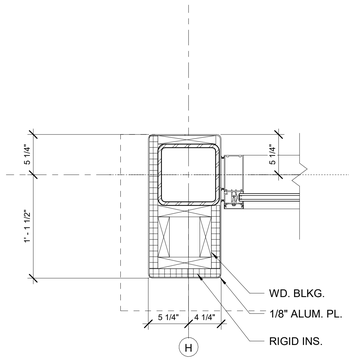
3. 3_A4_31
1 1/2" = 1'-0"



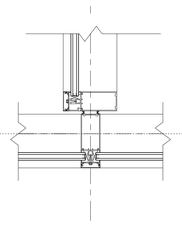
2. 2_A4_31
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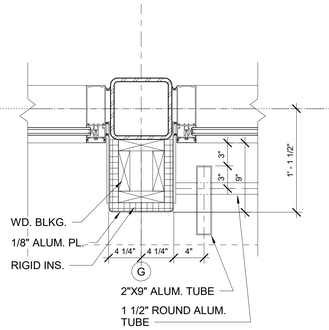
1. 1_A4_31
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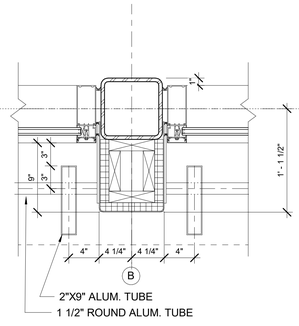
8. 8_A4_31
1 1/2" = 1'-0"



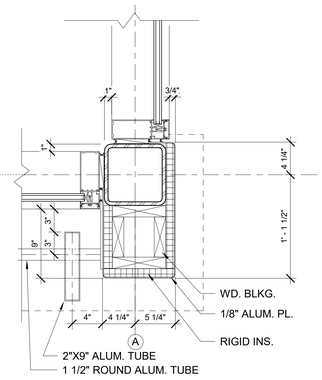
7 7_A4_31
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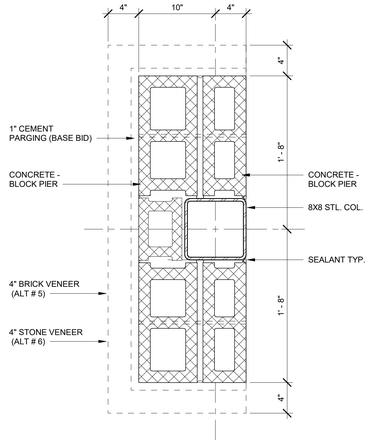
6 6_A4_31
1 1/2" = 1'-0"



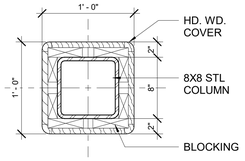
5 5_A4_31
1 1/2" = 1'-0"



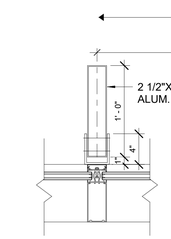
4. 4_A4_31
1 1/2" = 1'-0"



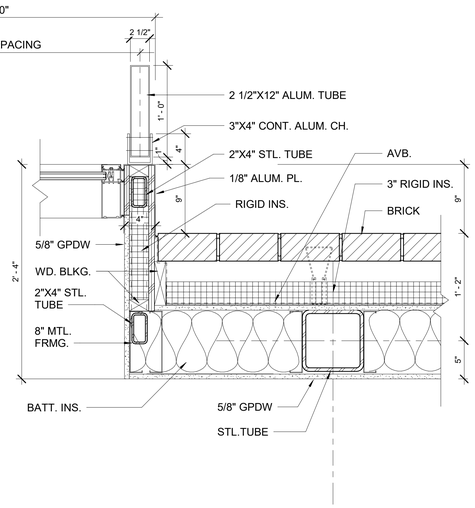
13. 13_A431
1 1/2" = 1'-0"



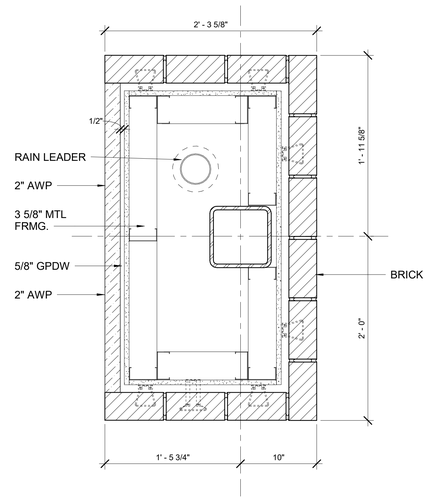
12 COLUMN DTL
1 1/2" = 1'-0"



11. 11_A4_31
1 1/2" = 1'-0"



10. 10_A4_31
1 1/2" = 1'-0"



9. 9_A4_31
1 1/2" = 1'-0"

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

PLAN DETAILS

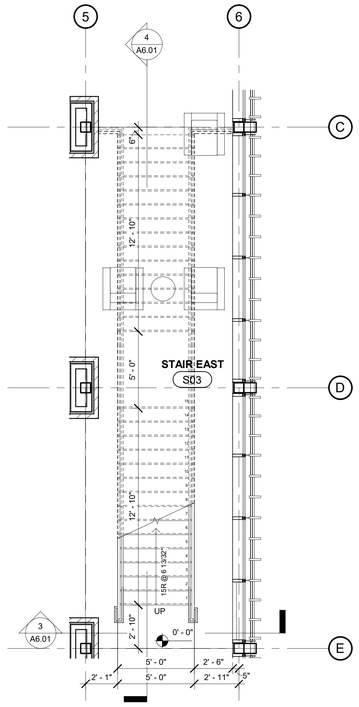
STATE PROJ. NO.	011P-SC-21
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SCALE	1 1/2" = 1'-0"
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ISSUE DATES

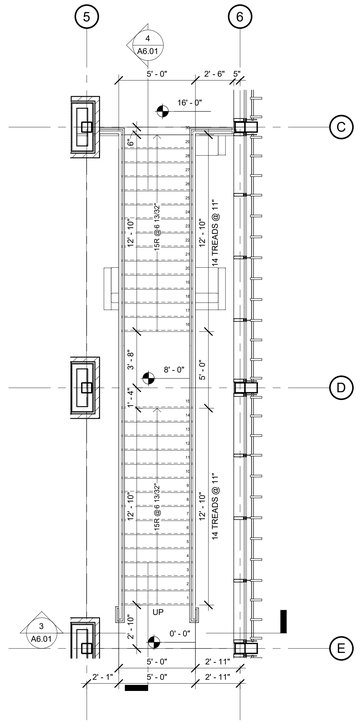
NO.	DATE	PURPOSE

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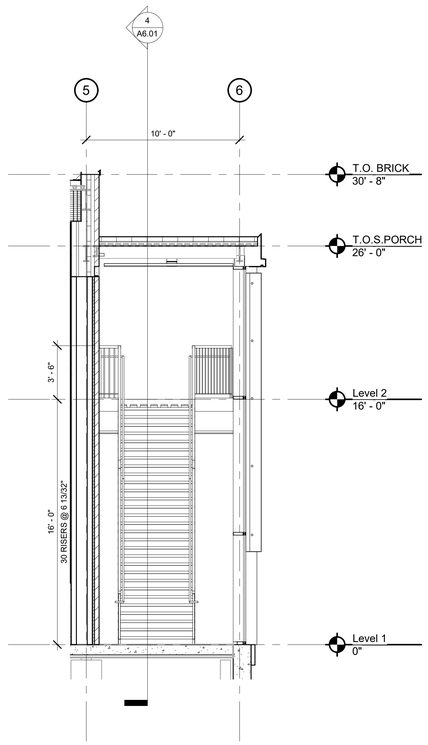
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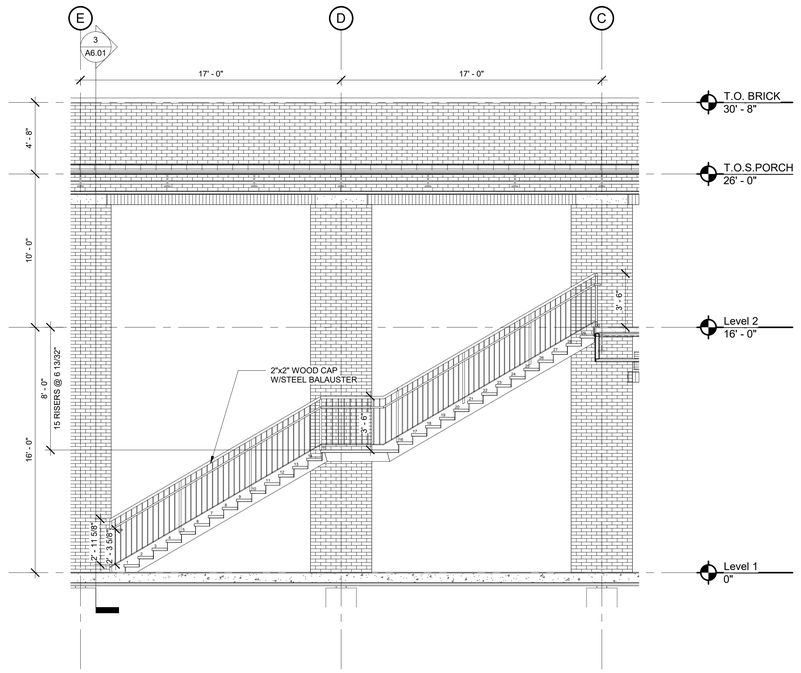
1 STAIR EAST FIRST FLOOR PLAN
1/4" = 1'-0"



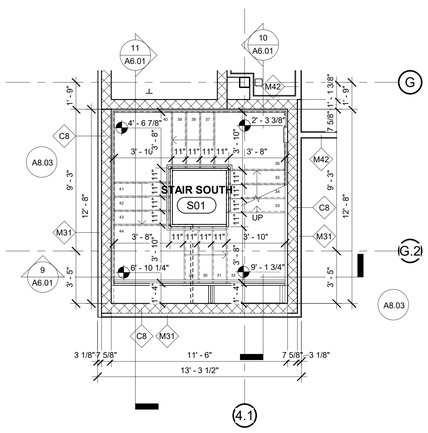
2 STAIR EAST SECOND FLOOR PLAN
1/4" = 1'-0"



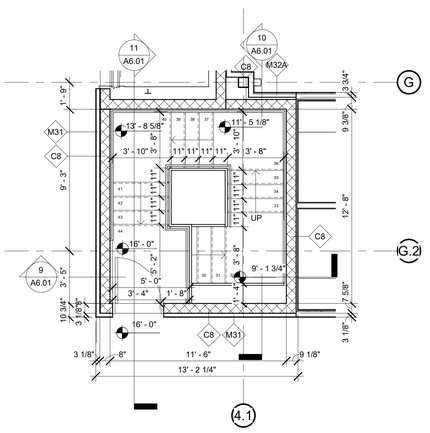
3 STAIR EAST SECTION 1
1/4" = 1'-0"



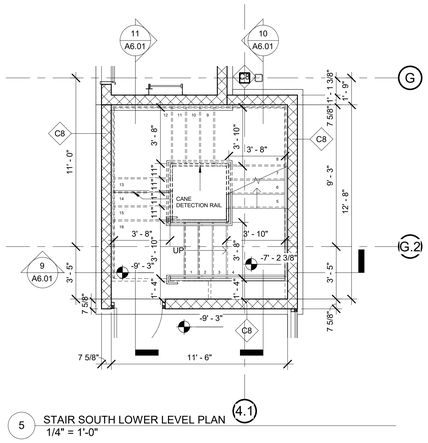
4 STAIR EAST SECTION 2
1/4" = 1'-0"



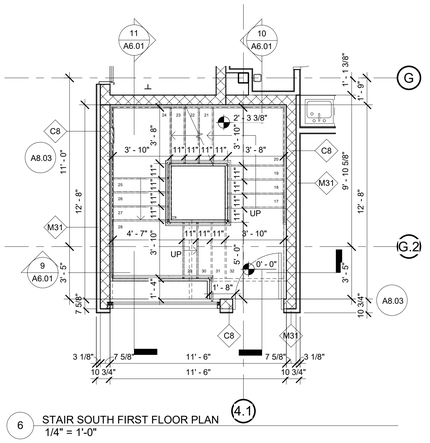
7 STAIR SOUTH INTERMEDIATE PLAN
1/4" = 1'-0"



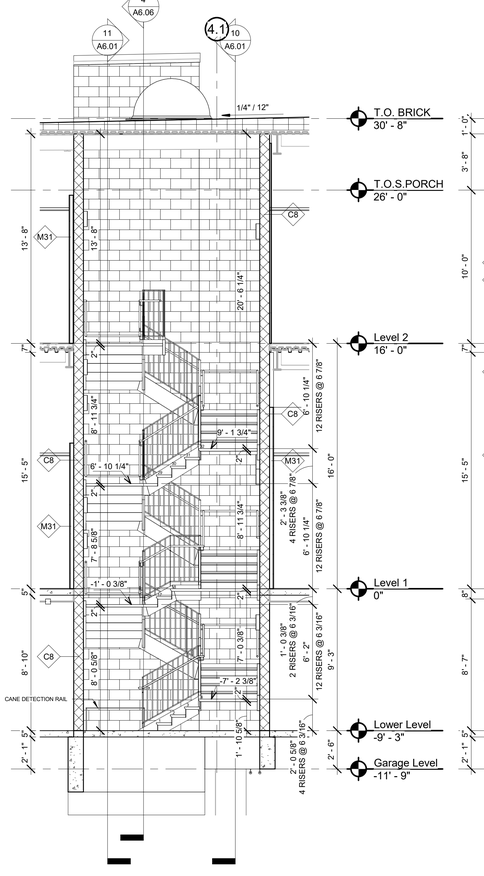
8 STAIR SOUTH SECOND FLOOR PLAN
1/4" = 1'-0"



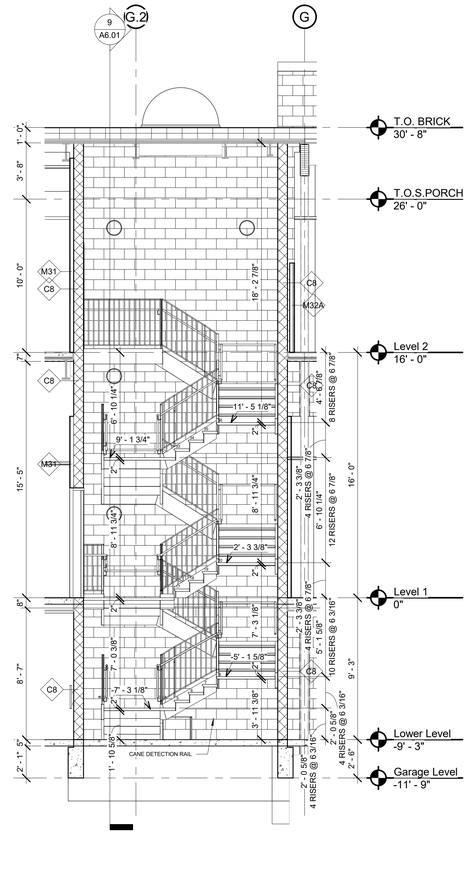
5 STAIR SOUTH LOWER LEVEL PLAN
1/4" = 1'-0"



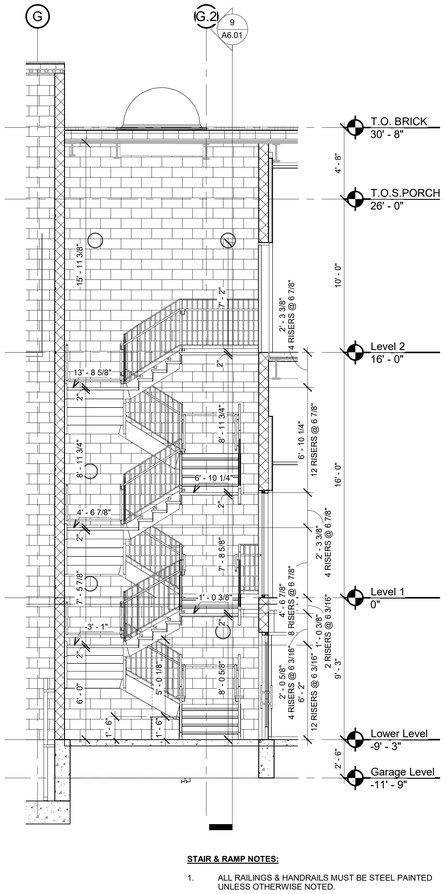
6 STAIR SOUTH FIRST FLOOR PLAN
1/4" = 1'-0"



9 STAIR SOUTH SECTION 1
1/4" = 1'-0"



10 STAIR SOUTH SECTION 2
1/4" = 1'-0"



11 STAIR SOUTH SECTION 3
1/4" = 1'-0"

STAIR & RAMP NOTES:

1. ALL RAILINGS & HANDRAILS MUST BE STEEL PAINTED UNLESS OTHERWISE NOTED.

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

STAIR PLANS AND SECTIONS

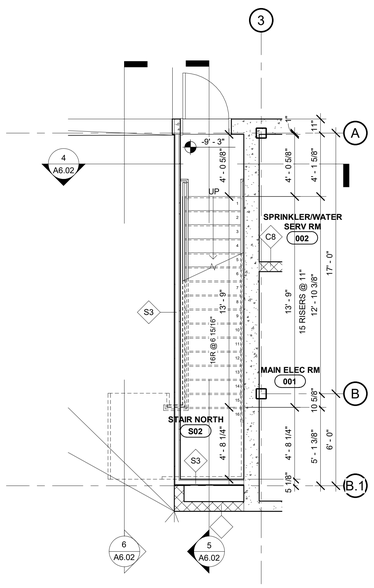
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PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

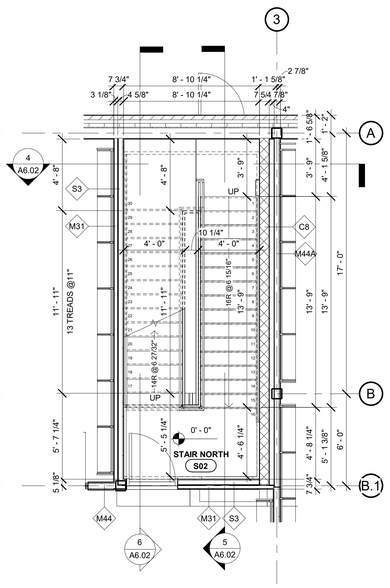
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A6.01

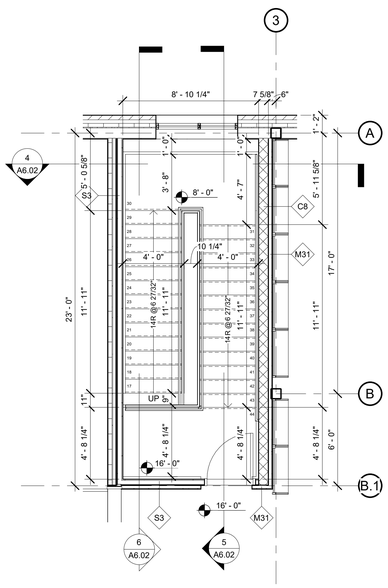
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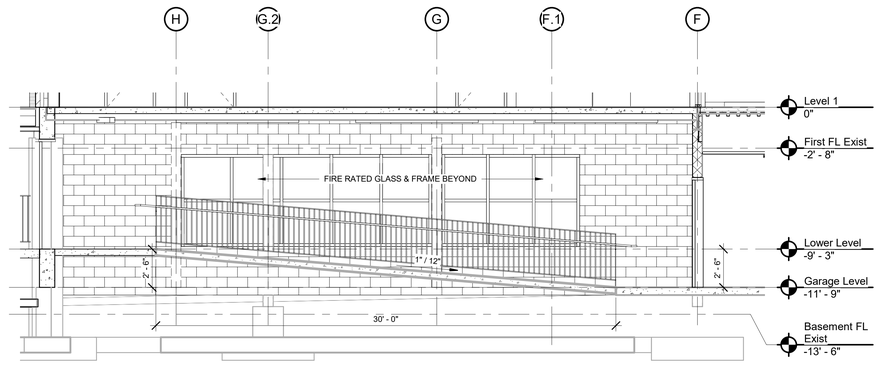
1 STAIR NORTH LOWER LEVEL PLAN
1/4" = 1'-0"



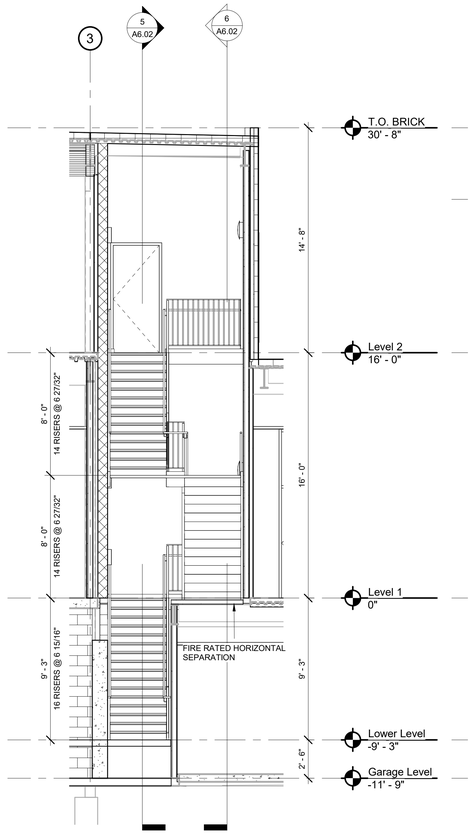
2 STAIR NORTH FIRST FLOOR PLAN
1/4" = 1'-0"



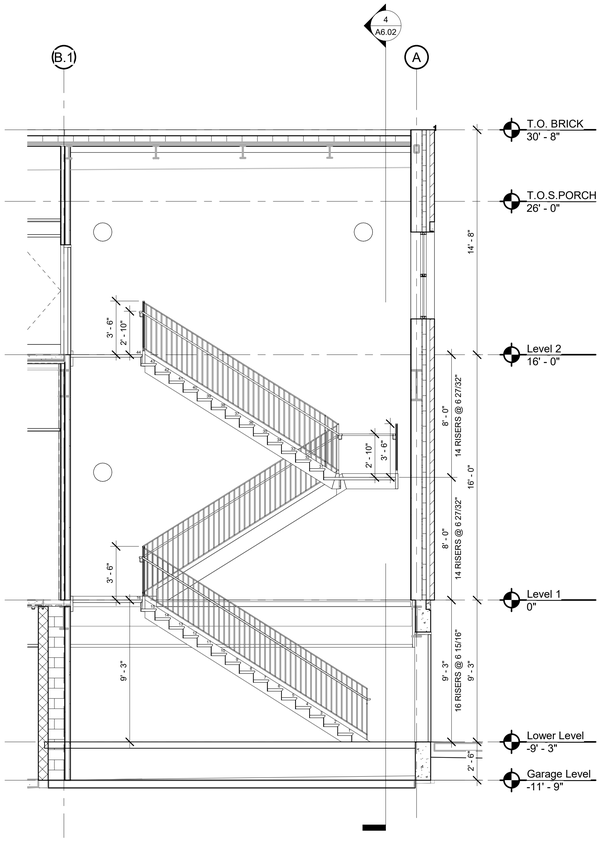
3 STAIR NORTH SECOND FLOOR PLAN
1/4" = 1'-0"



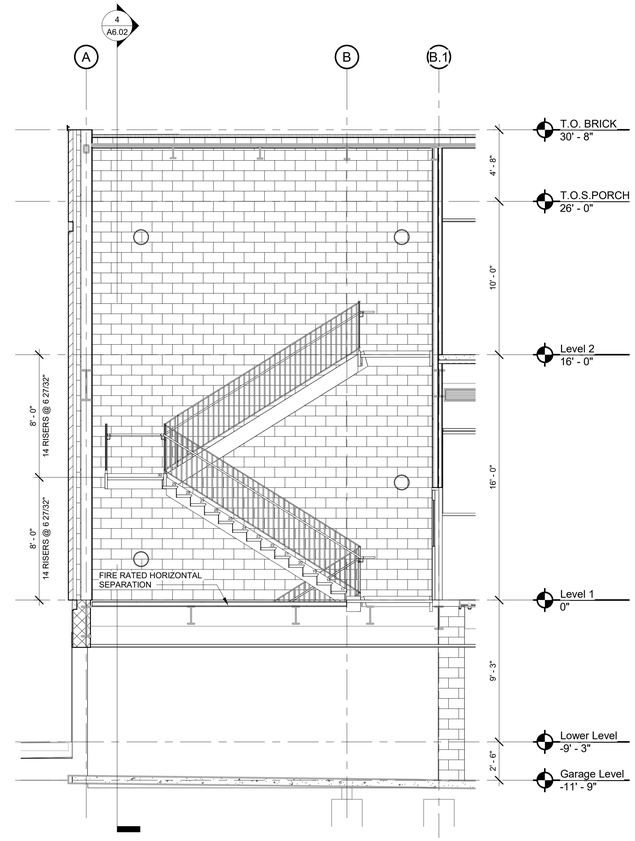
8 RAMP SECTION
1/4" = 1'-0"



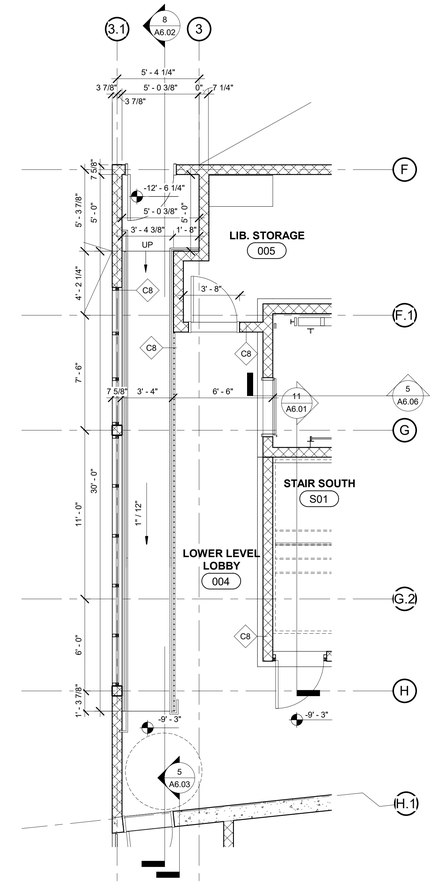
4 STAIR NORTH SECTION 1
1/4" = 1'-0"



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



6 STAIR NORTH SECTION 2
1/4" = 1'-0"



7 RAMP - LOWER LEVEL PLAN
1/4" = 1'-0"

STAIR & RAMP NOTES:

1. ALL RAILINGS & HANDRAILS MUST BE STEEL PAINTED UNLESS OTHERWISE NOTED.

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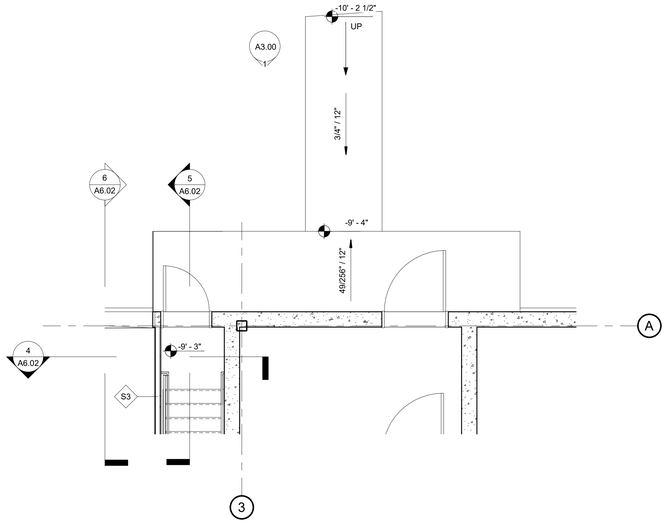
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SCALE	1/4" = 1'-0"
DATE	10/07/22
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APPROVED BY	Approver

ISSUE DATES

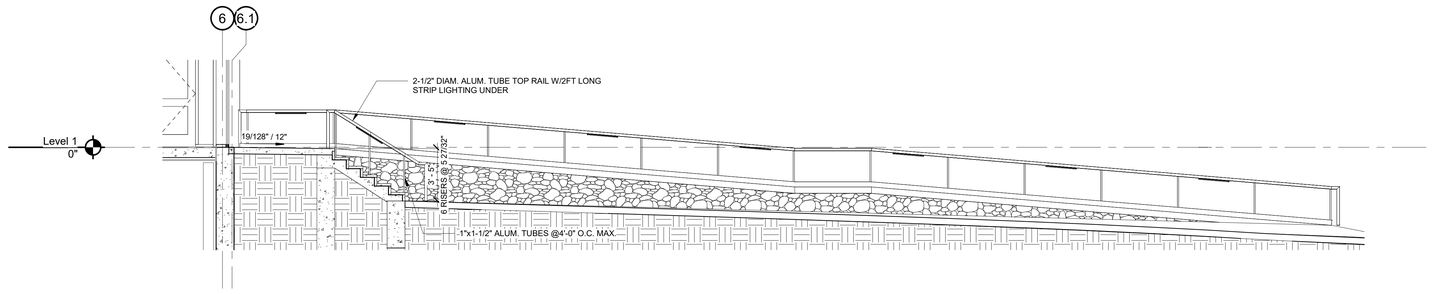
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A6.02

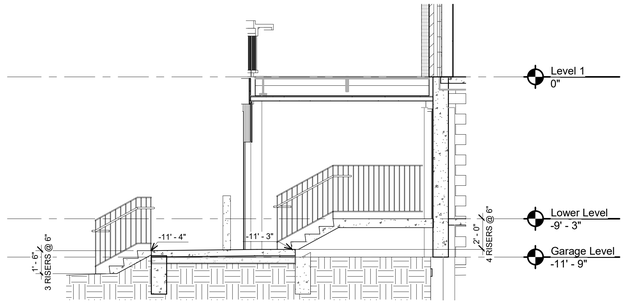
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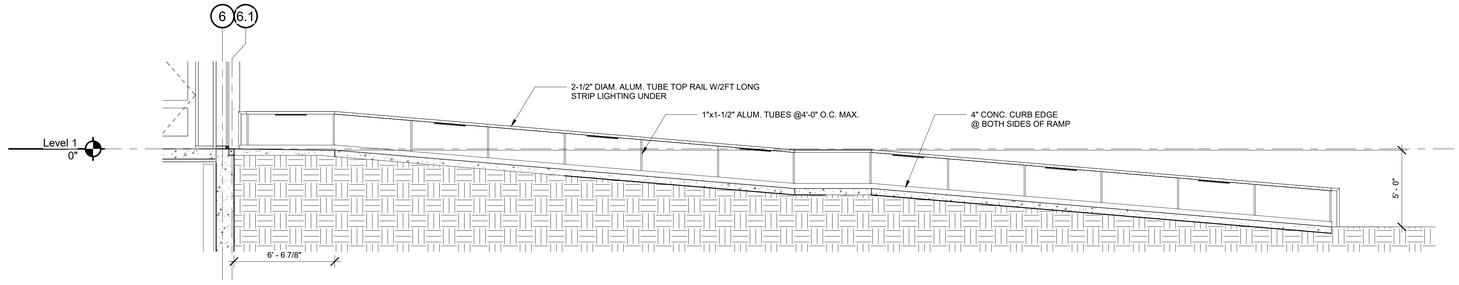
6 NORTH WALK PLAN
1/4" = 1'-0"



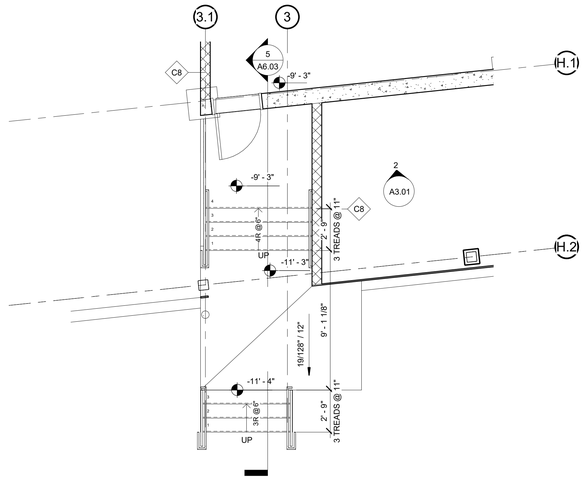
3 ENTRANCE STAIR SECTION
1/4" = 1'-0"



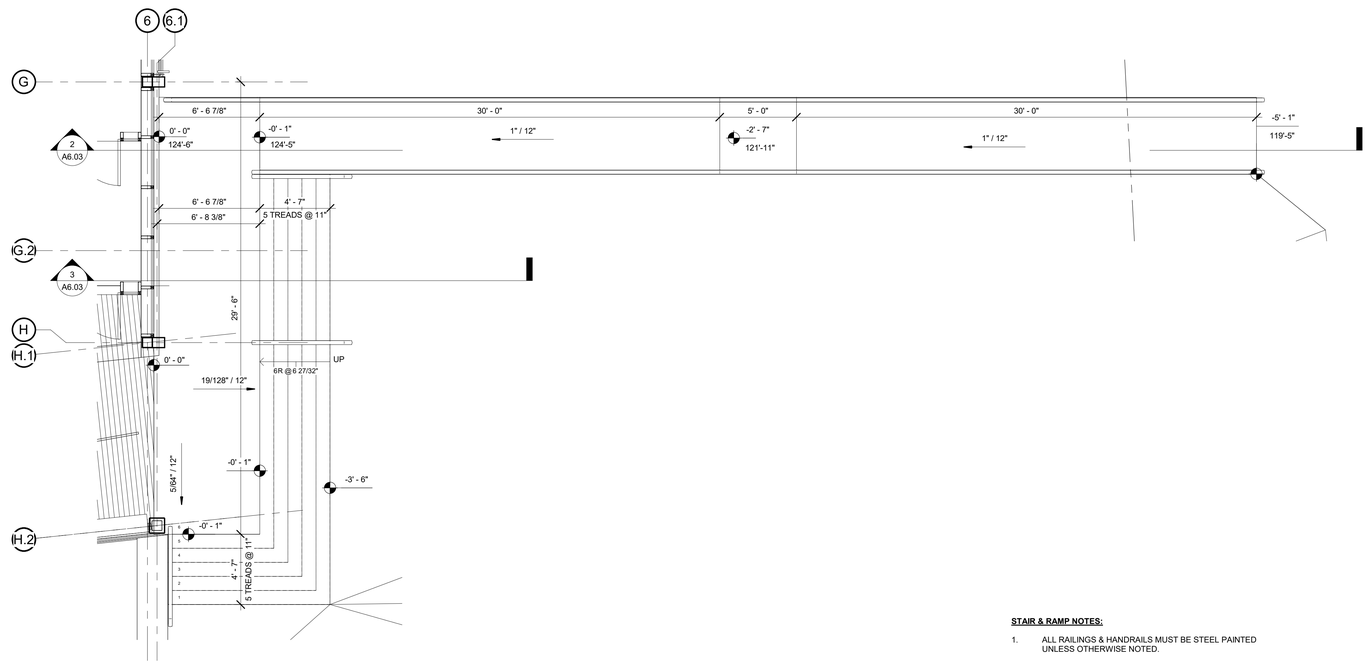
5 SOUTH RAMP & STAIRS SECTION
1/4" = 1'-0"



2 ENTRANCE RAMP SECTION
1/4" = 1'-0"



4 SOUTH RAMP AND STAIRS PLAN
1/4" = 1'-0"



1 ENTRANCE STAIRS & RAMP
1/4" = 1'-0"

STAIR & RAMP NOTES:

1. ALL RAILINGS & HANDRAILS MUST BE STEEL PAINTED UNLESS OTHERWISE NOTED.

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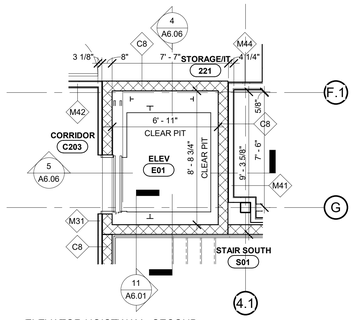
STATE PROJ. NO.	011P-SC-21
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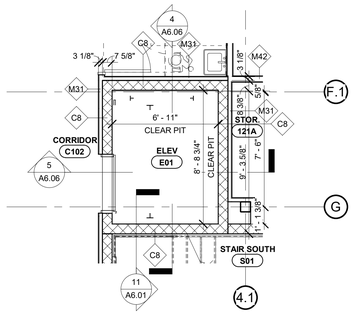
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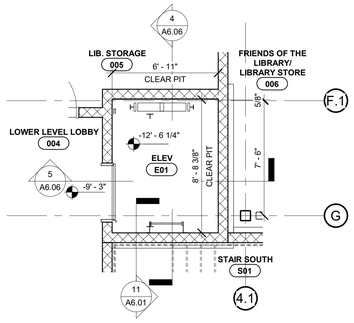
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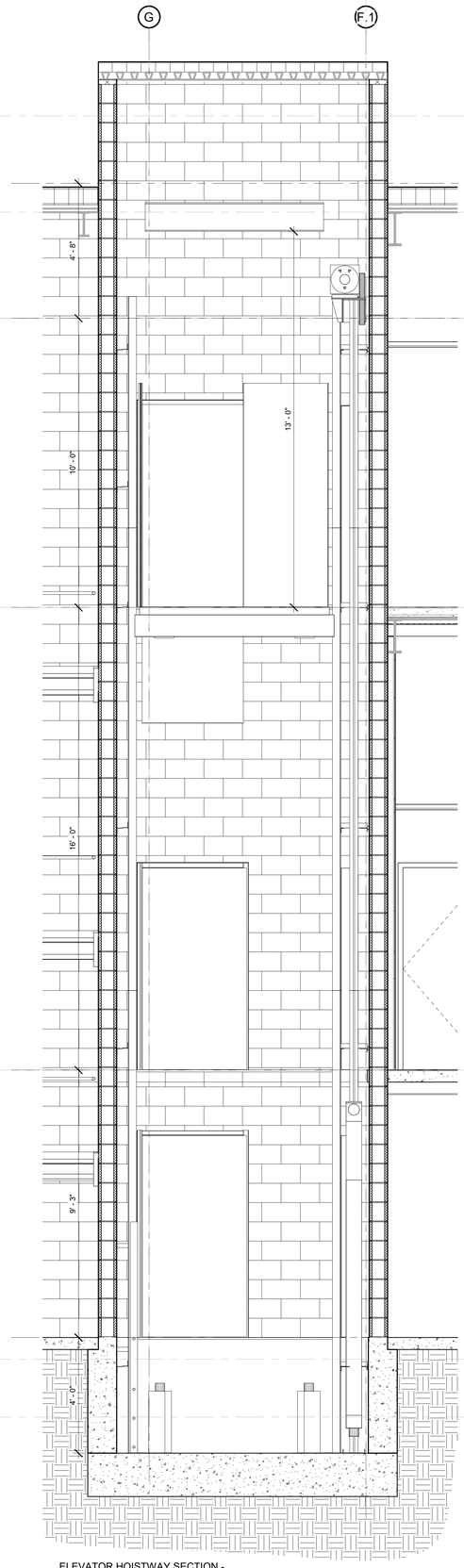
3 ELEVATOR HOISTWAY - SECOND FLOOR PLAN
1/4" = 1'-0"



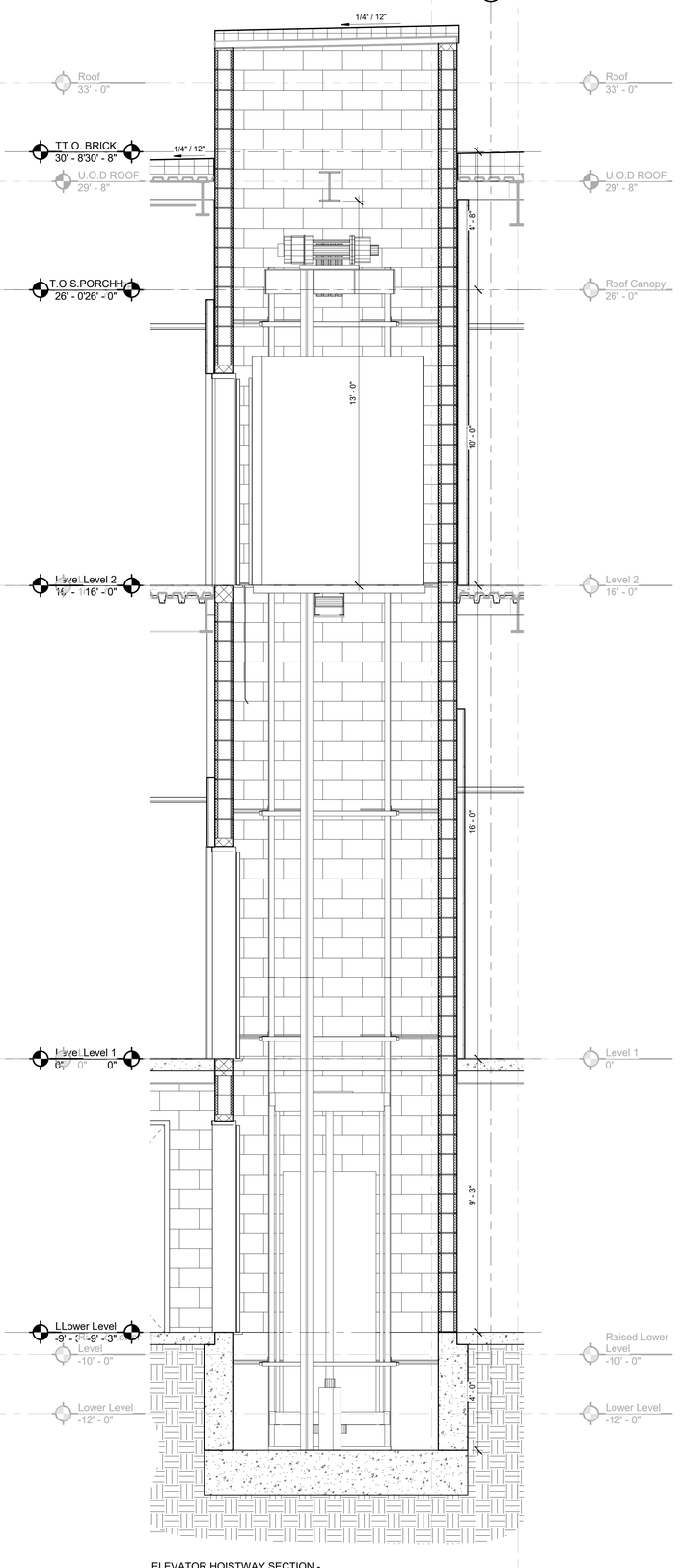
2 ELEVATOR HOISTWAY - FIRST FLOOR PLAN
1/4" = 1'-0"



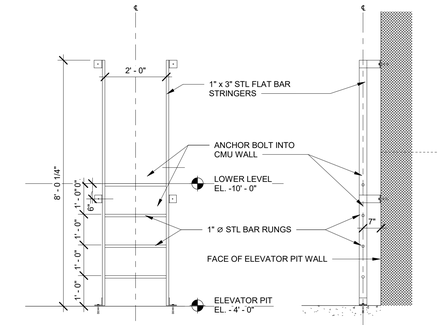
1 ELEVATOR HOISTWAY - LOWER LEVEL PLAN
1/4" = 1'-0"



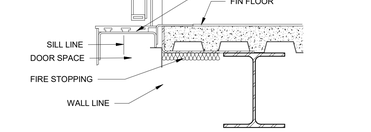
4 ELEVATOR HOISTWAY SECTION - LOOKING WEST
1/2" = 1'-0"



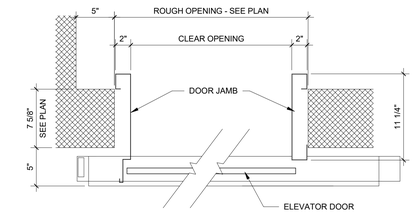
5 ELEVATOR HOISTWAY SECTION - LOOKING SOUTH
1/2" = 1'-0"



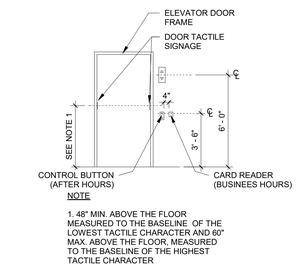
10 ELEVATOR PIT LADDER
1/2" = 1'-0"



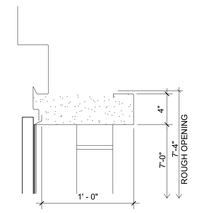
9 ELEVATOR DOOR SILL
1 1/2" = 1'-0"



8 ELEVATOR DOOR PLAN
1 1/2" = 1'-0"



6 ELEVATOR SIGNAGE AND TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



7 ELEVATOR DOOR HEAD
1 1/2" = 1'-0"

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ELEVATOR PLAN, SECTION AND DETAILS

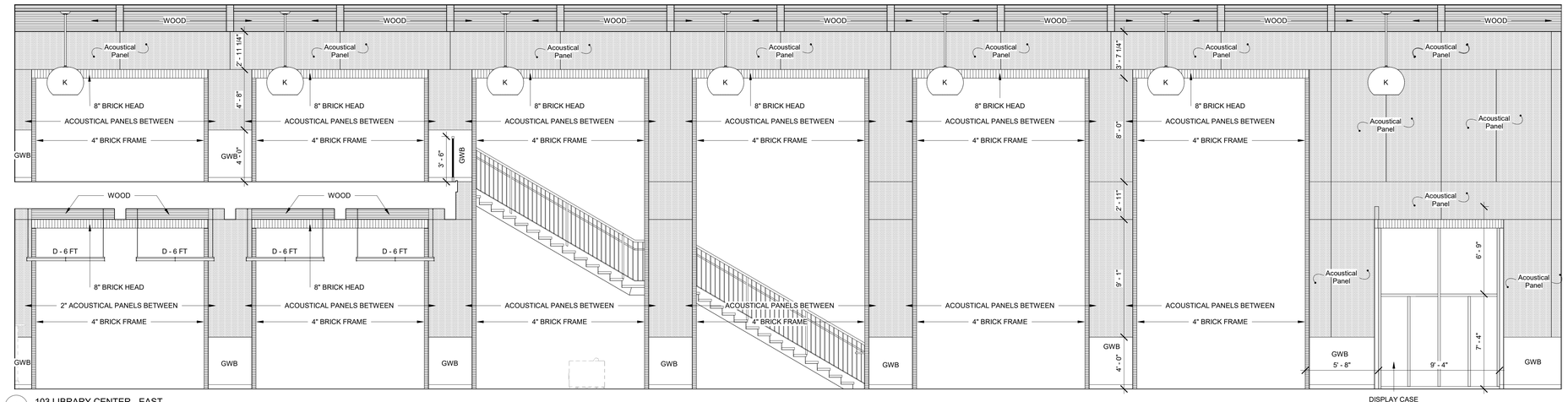
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PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

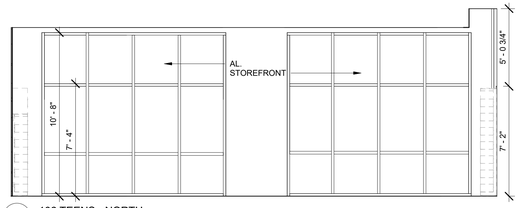
NO.	DATE	PURPOSE

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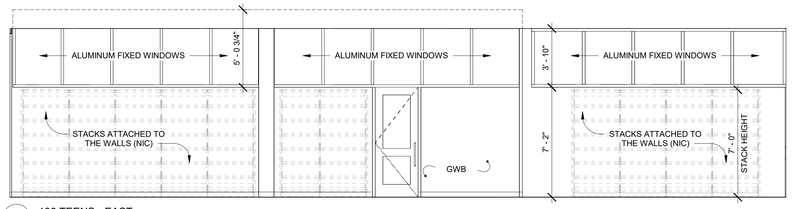
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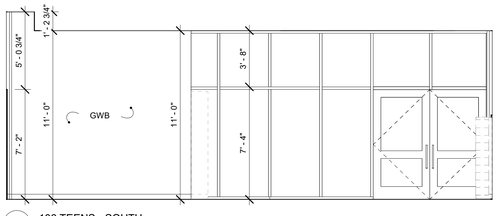
1 103 LIBRARY CENTER - EAST
1/4" = 1'-0"



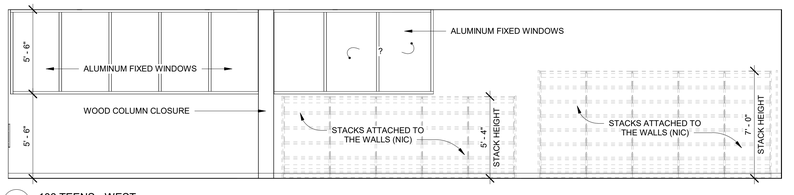
3 106 TEENS - NORTH
1/4" = 1'-0"



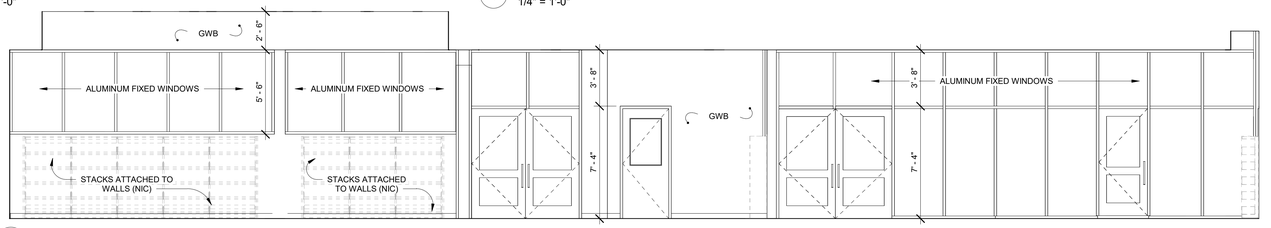
2 106 TEENS - EAST
1/4" = 1'-0"



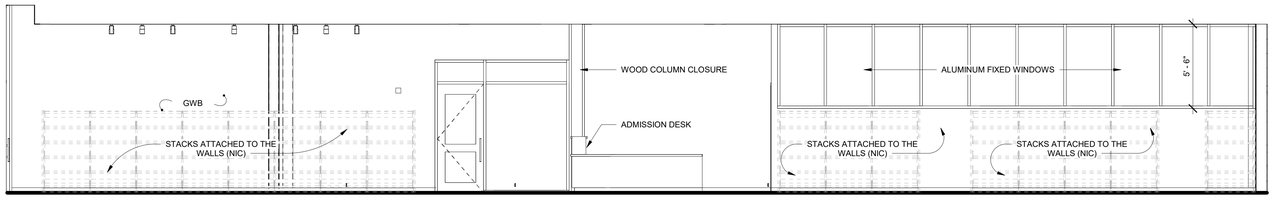
5 106 TEENS - SOUTH
1/4" = 1'-0"



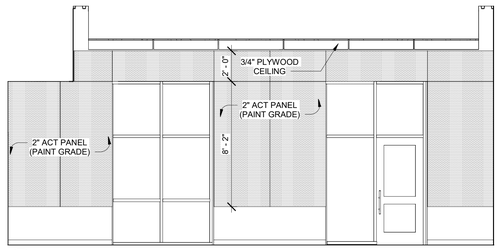
4 106 TEENS - WEST
1/4" = 1'-0"



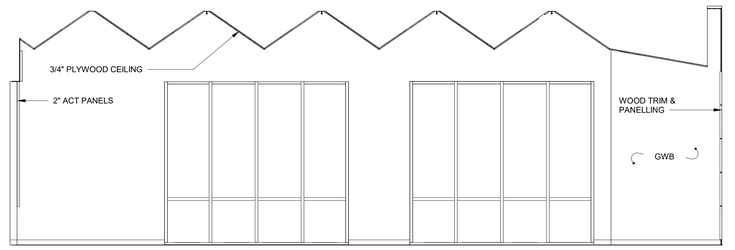
6 111 CHILDRENS CENTER - NORTH
1/4" = 1'-0"



7 111 CHILDRENS CENTER - SOUTH
1/4" = 1'-0"



9 114 COMMUNITY ROOM - SOUTH
1/4" = 1'-0"



8 114 COMMUNITY ROOM - WEST
1/4" = 1'-0"

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

INTERIOR ELEVATIONS

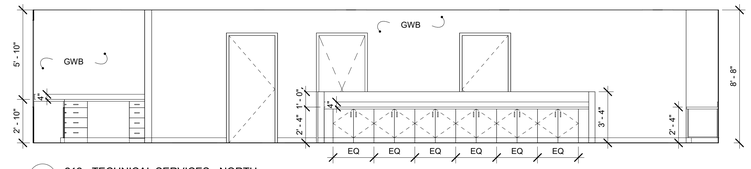
STATE PROJ. NO.	011P-SC-21
PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

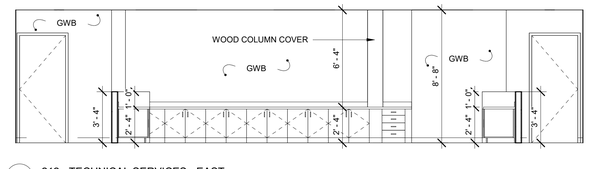
NO.	DATE	PURPOSE

A8.01

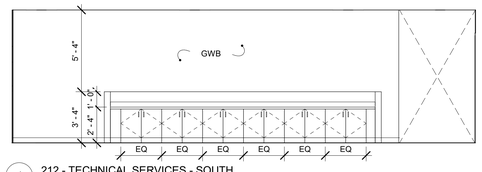
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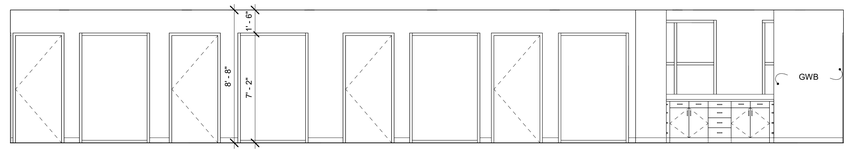
2 212 - TECHNICAL SERVICES - NORTH
1/4" = 1'-0"



1 212 - TECHNICAL SERVICES - EAST
1/4" = 1'-0"



4 212 - TECHNICAL SERVICES - SOUTH
1/4" = 1'-0"



3 212 -TECHNICAL SERVICES - WEST
1/4" = 1'-0"

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A8.02

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ROOM FINISH SCHEDULE

RM. NO	ROOM NAME	FLOOR	BASE				NORTH		EAST		SOUTH		WEST		CEILING			REMARKS
			NORTH	EAST	SOUTH	WEST	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	ACT TYPE	HGT	
001	MAIN ELEC RM	CONC	-	-	-	-	CMU	-	CMU	-	CMU	-	CMU	-				
002	SPRINKLER/ WATER SERV RM	CONC	-	-	-	-	CMU	-	CMU	-	CMU	-	CMU	-				
004	LOWER LEVEL LOBBY	CONC	-	-	-	-	CMU	-	CMU	-	CMU	-	CMU	-				
005	LIB. STORAGE	EPOXY	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
006	FRIENDS OF THE LIBRARY/ LIBRARY STORE	EPOXY	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
007	OPEN PARKING																	
101	HALL	PT	WD	WD	WD	WD	BRICK/GYP	P	GLASS	-	BRICK/GYP	P	BRICK/GYP	P		WD		SEE DETAIL
102	LIVING ROOM	CPT	RB	RB	RB	RB	GYP	P					GYP	P			13'-10 3/4"	
103	LIBRARY CENTER	CPT	RB	RB	RB	RB	GYP	P	GLASS	-	GYP	P	GYP	P				
104	SERVICE DESK	CPT	RB	RB	RB	RB												
105	CIRCULATION OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
105A	IT CL																	
106	TEENS	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GLASS	-	GYP	P				
107	COLLAB	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GLASS	-	GYP	P				
108	CHILDREN'S STACKS	CPT	RB	RB	-	-	GYP	P	GYP	P	-	-	-	-				
109	KID'S ART HALL	CPT	-	-	RB	-	-	-	GYP	P	GYP	P	-	-				
110	MIDDLE SCHOOL	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
111	CHILDREN'S CENTER	CPT	RB	RB	RB	RB	GYP		GYP		GYP		GYP					
111A	CHILDREN'S SERVICE DESK	CPT	-	-	RB	RB	-	-	-	-	GYP	P	GYP	P				
112	STAFF WORK RM	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
113	OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
114	COMMUNITY RM	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
115	STOR.	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
116	AV	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
117	CUST	CT	CT	CT	CT	CT	GYP	CT	GYP	CT/P	GYP	P	GYP	CT/P				
117A	FAM. TOILET	PT	PT	PT	PT	PT	GYP	CT	GYP	CT	GYP	CT	GYP	P				
118	WOMEN'S TOILET	PT	PT	PT	PT	PT	GYP	P	GYP	P	GYP	CT	GYP	P				
119	MEN'S TOILET	PT	PT	PT	PT	PT	GYP	CT	GYP	P	GYP	P	GYP	P				
121	KITCH.	CT	CT	CT	CT	CT	GYP	CT	GYP	P	GYP	P	GYP	P				
121A	STOR.	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
122	CAFE	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
123	BOOK RETURN	PT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
201	QUIET STUDY	CPT	RB	RB	RB	RB	GYP	P	-	-	-	-	-	-				
202	ADULT STACKS	CPT	RB	RB	RB	RB	GYP	P	-	-	-	-	GYP	P				
203	IT	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
203A	ELEC	CONC																
204	TOILET	PT	PT	PT	PT	PT	GYP	P	GYP	P	GYP	CT	GYP	P				
204	LACTATION RM	PT	PT	PT	PT	PT	GYP	P	GYP	P	GYP	P	GYP	CT				
206	TOILET	PT	PT	PT	PT	PT	GYP	CT	GYP	P	GYP	P	GYP	P				
207	STAFF TOILET	PT	PT	PT	PT	PT	GYP	CT	GYP	P	GYP	P	GYP	P				
208	STORAGE	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
208A	BOILER ROOM	CONC	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
209	COPY/ MAIL RM	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
210	STAFF LOUNGE	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
210A	LOCKERS	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
211	STAFF AREA	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
211A	MAIL RM	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
212	TECHNICAL SERVICES	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
212A	STAFF CORR.	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
212B	CLOSET																	
213	OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
214	OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
215	OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
216	OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
217	DIRECTOR OFFICE	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
218	CONFERENCE RM	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
219	HISTORY COLLECTION	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
220	TECH. TRAINING CTR.	CPT	-	RB	RB	RB	GLASS	-	GYP	P	GYP	P	GYP	P				
221	STORAGE/IT	SV	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
222	STUDY RM 1	CPT	-	RB	RB	RB	GLASS	-	GYP	P	GYP	P	GYP	P				
223	STUDY RM 2	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
224	STUDY RM 3	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
225	STUDY RM 4	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
226	STUDY RM 5	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
227	STUDY RM 6	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
C101	CORRIDOR	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
C102	CORRIDOR	CPT	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				
C201	CORRIDOR	CPT	RB	RB	RB	RB	-	-	-	-	-	-	GYP	P				
C202	CORRIDOR	CPT	RB	RB	RB	RB	GYP	P	-	-	GYP	P	-	-				
C203	CORRIDOR	CPT	RB	RB	RB	RB	-	-	GYP	P	-	-	GYP	P				
E01	ELEV																	
S01	STAIR SOUTH	RB	RB	RB	RB	RB	CMU	P	CMU	P	CMU	P	CMU	P				
S02	STAIR NORTH	RB	RB	RB	RB	RB	CMU	P	GYPCMU	P	CMU	P	CMU	P				
S03	STAIR EAST	RB	?															
V101	VEST. EAST	WOM	-	-	-	-	GLASS	-	GLASS	-	GLASS	-	GLASS	-				
V102	VEST. WEST	WOM	RB	RB	RB	RB	GYP	P	GYP	P	GYP	P	GYP	P				

FINISH SCHEDULE LEGEND

ACT - ACOUSTIC TILE
AWP - ACOUSTICAL WALL PANELS
CONC - CONCRETE
CMU - CONCRETE MASONRY UNIT
CPT - CARPET TILE
CT - CERAMIC TILE
EPOXY
EXTG - EXISTING
GFC - GROUND FACE CONCRETE
GL - GLASS
GWB - GYPSUM WALL BOARD
P - PAINTED
PT - PORCELAIN TILE
RB - RUBBER
SV - SOLID VINYL
WD - WOOD
WOM - WALK OFF MAT

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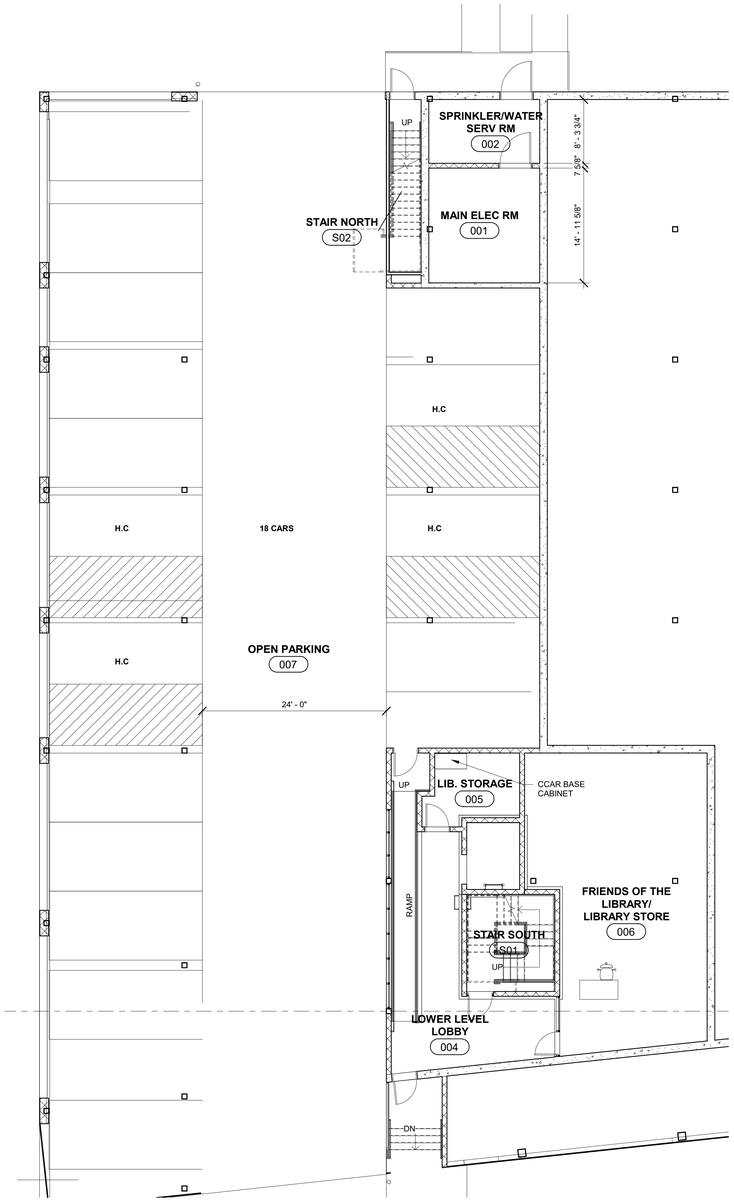
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PROJ. NO.	200802
SCALE	1/4" = 1'-0"
DATE	10/07/22
DRAWN BY	Author
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2 LOWER LEVEL FURNITURE PLAN
1/8" = 1'-0"



1 FIRST FLOOR FURNITURE PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE

FIRST FLOOR FURNITURE PLAN

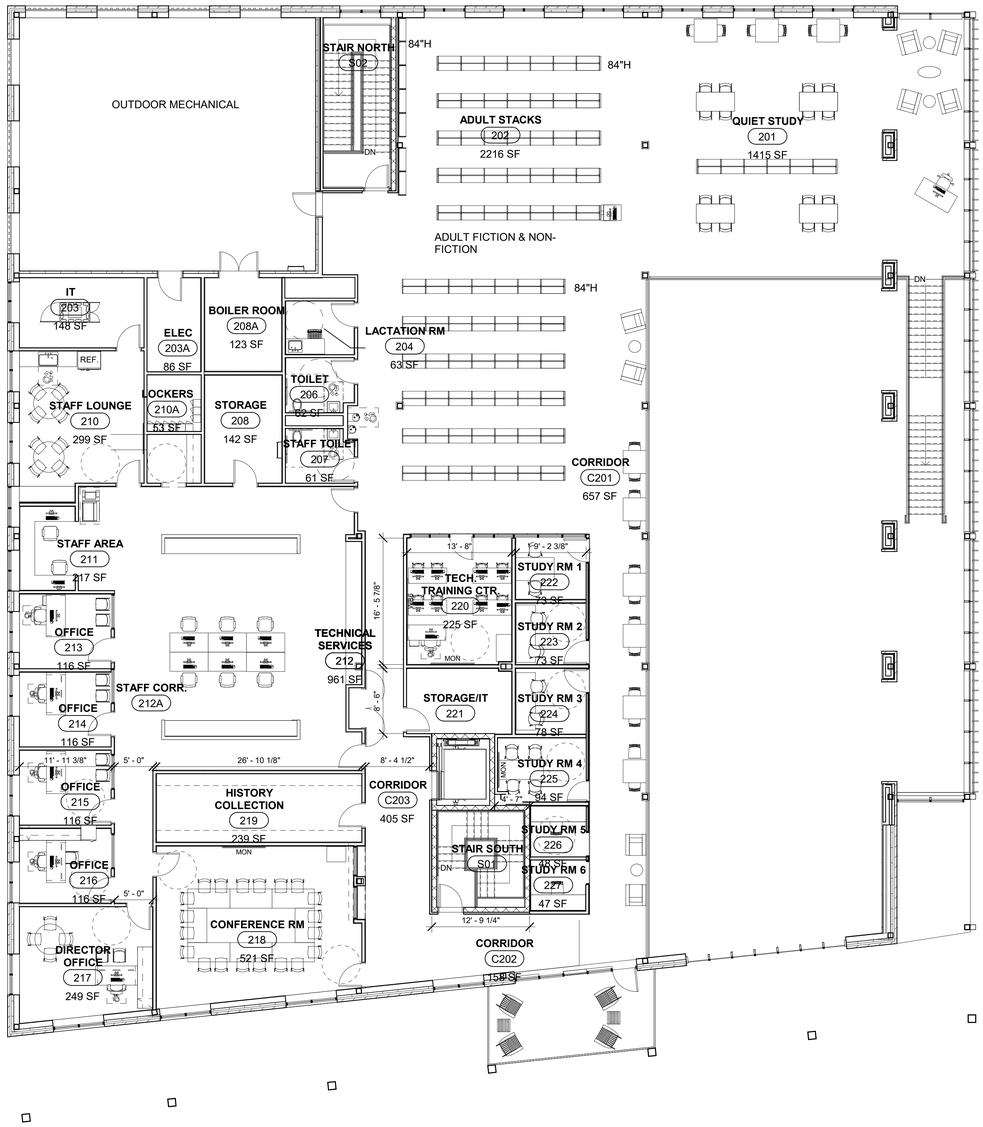
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DRAWN BY	Author
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F1.01

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1 SECOND FLOOR FURNITURE PLAN
1/8" = 1'-0"

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PROJECT

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KEY PLAN

DRAWING TITLE

SECOND FLOOR FURNITURE PLAN

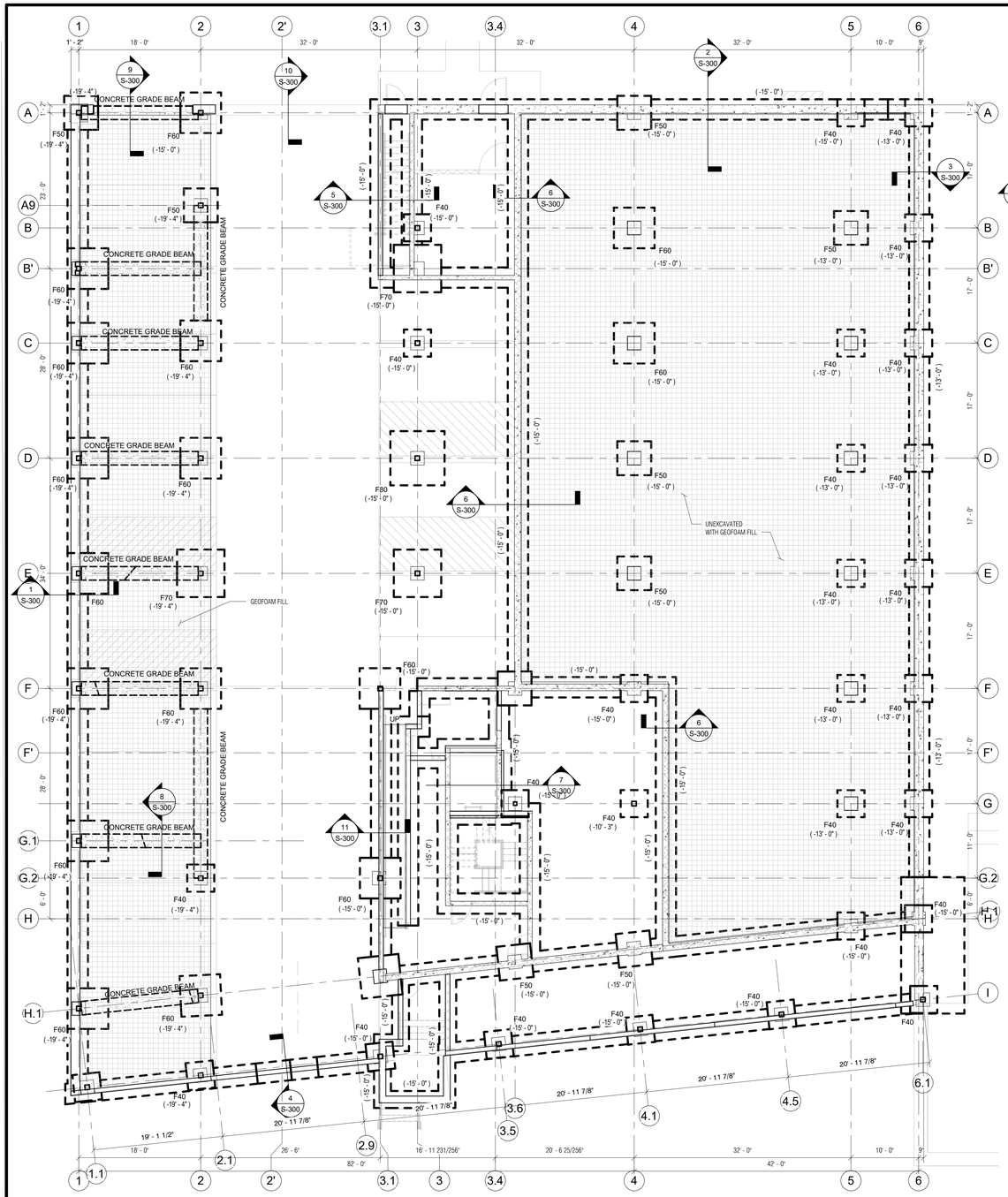
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PROJ. NO.	200802
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DATE	10/07/22
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

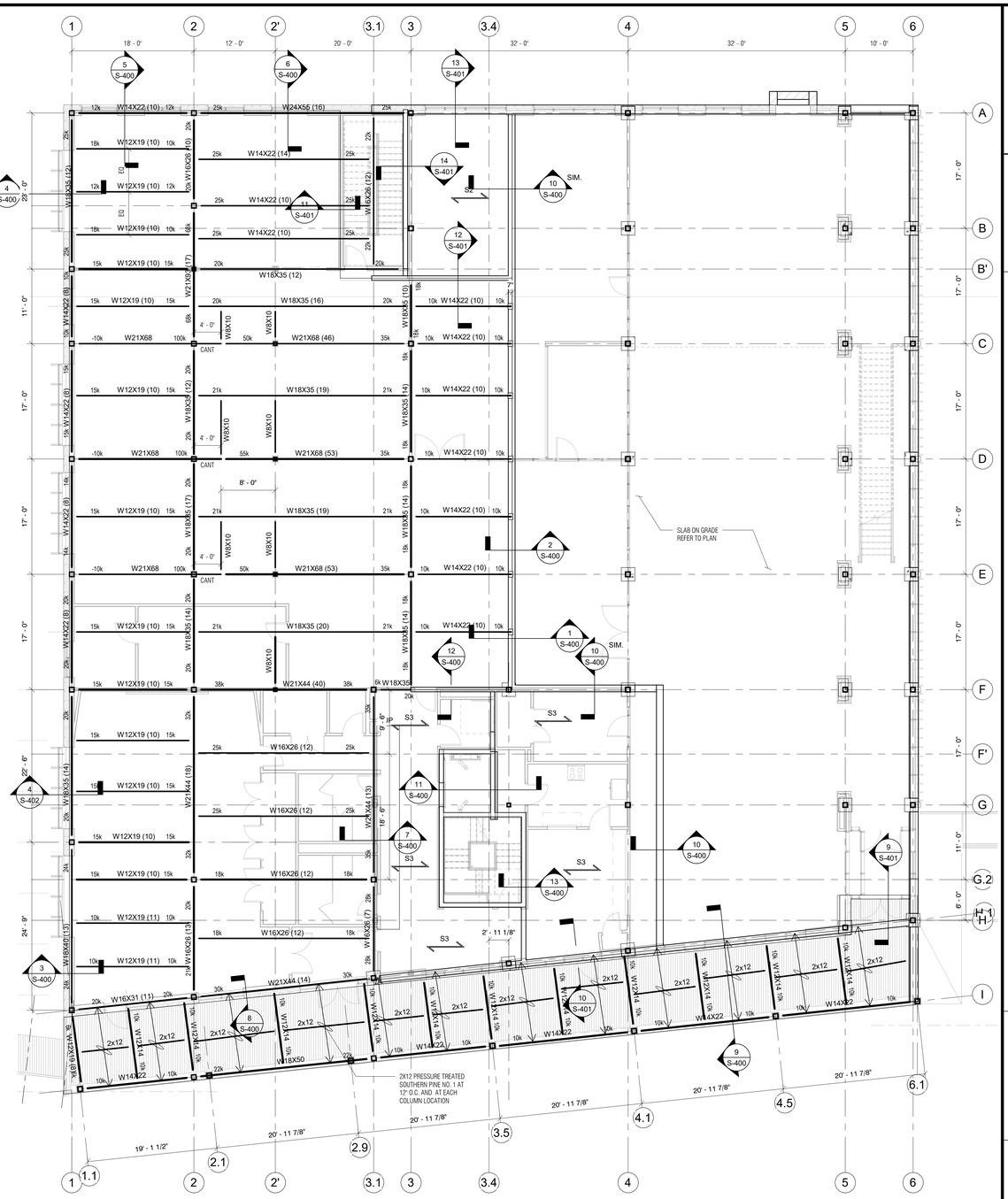
F1.02

10/8/2022 4:44:07 PM BIM 360://Bloomfield Library - Prosser Building/200802 - Prosser Library-Arch-BIM360-R21.rvt



1 FOUNDATION PLAN

1/8" = 1'-0"



2 FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. TOP OF CONCRETE SLAB ELEVATION= REFER TO PLAN
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE # 4 ON DRAWINGS S-700 , AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S-600
4. TOP OF FOOTING ELEVATION (F-X") GIVEN FROM MAIN LEVEL ELEVATION (0'-0").
5. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS.
6. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S-600 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS.
7. "C.J." INDICATES FOUNDATION WALL CONTROL JOINT. REFER TO TYPICAL DETAIL ON DRAWING S-600
8. R INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.

FOOTING SCHEDULE 2.0 TONS/SF

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	8	#4	
F50	5' - 0"	5' - 0"	1' - 3"	6	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#5	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	

FLOOR FRAMING NOTES

1. S1 FLOOR CONSTRUCTION: 3" NORMAL WEIGHT CONCRETE ON 2"-18ga LOK GALV. COMPOSITE FLOOR DECK (5" TOTAL THICKNESS)REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (CHAIRED).
   S2 FLOOR CONSTRUCTION: 8" NORMAL WEIGHT CONCRETE REINFORCED WITH #5 AT 12" O.C. EACH WAY TOP AND BOTTOM
   S3 FLOOR CONSTRUCTION: 10" NORMAL WEIGHT CONCRETE REINFORCED WITH #5 AT 12" O.C. EACH WAY TOP AND BOTTOM
   S4 FLOOR CONSTRUCTION: 4" LIGHTWEIGHT CONCRETE ON 2"-18GA LOK GALV. COMPOSITE FLOOR DECK (6" TOTAL THICKNESS) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (CHAIRED)
   D1.5 TYPICAL ROOF CONSTRUCTION: 1 1/2 "X20GA. GALVANIZED TYPE "B" METAL ROOF DECK, REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
2. TOP OF SLAB ELEVATION:
   AT MAIN LEVEL (+100'-0")
   AT UPPER FLOOR (+114'-8")
3. TOP OF STEEL ELEVATION (-5") FROM TOP OF SLAB, UNLESS NOTED OTHERWISE
4. (XX) INDICATES NUMBER OF 3/4"Ø x4" SHEAR STUDS WELDED TO THE TOP FLANGE OF STEEL BEAMS.
5. PROVIDE POURSTOP AT ALL EDGE OF SLAB CONDITIONS UNLESS OTHERWISE SHOWN ON DRAWINGS.
6. " " INDICATES MOMENT CONNECTION, REFER TO TYPICAL DETAILS ON DRAWING S-601
7. ALL BEAM FRAMING SHALL HAVE EQUAL SPACING BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FOUNDATION AND FIRST FLOOR PLAN

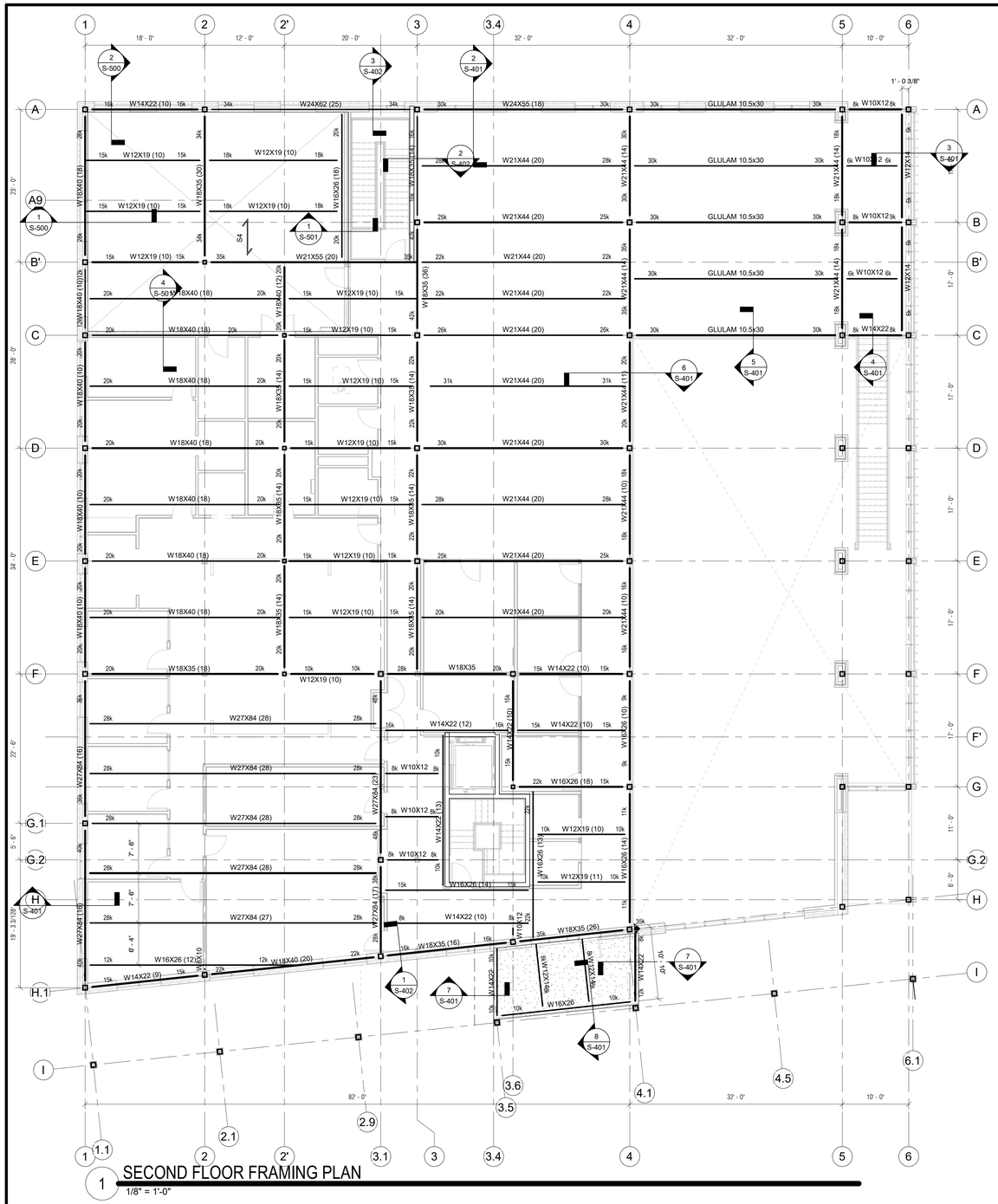
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PROJ. NO.	200802
SCALE	1/8" = 1'-0"
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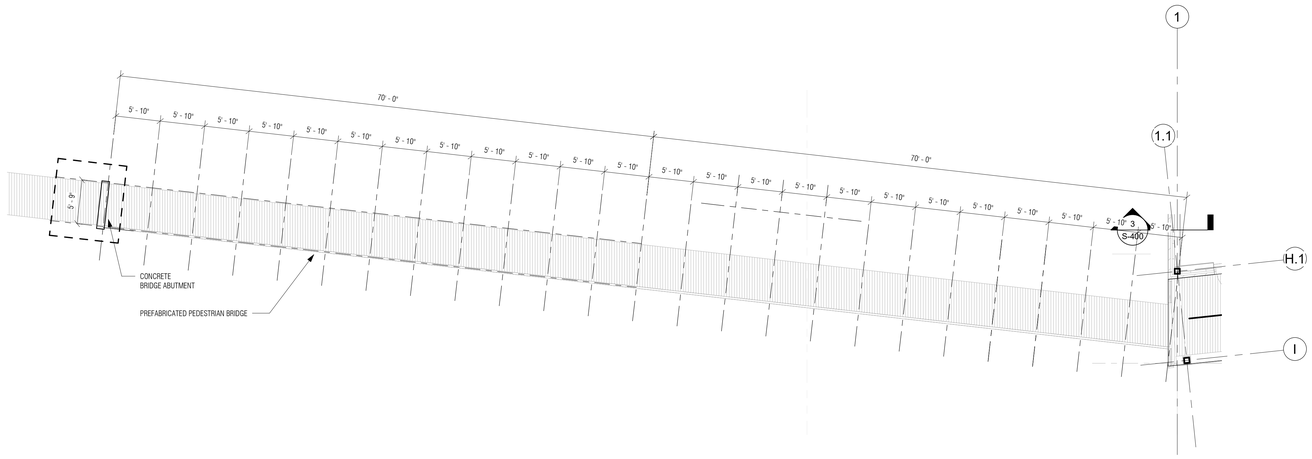
ISSUE DATES

NO.	DATE	PURPOSE

S1.00

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W14X22 (10)
W24X62 (25)
W24X55 (18)
GLULAM 10.5x30
W10X12
W12X14
W21X44 (20)
W21X55 (20)
W21X44 (14)
W18X40 (18)
W12X19 (10)
W18X35 (14)
W18X35 (30)
W18X40 (10)
W18X40 (12)
W18X35 (36)
W21X44 (11)
W18X35
W14X22
W27X84 (28)
W14X22 (12)
W16X26 (18)
W10X12
W14X22 (13)
W10X26 (13)
W12X19 (11)
W16X26 (14)
W27X84 (16)
W27X84 (27)
W27X84 (17)
W16X26 (12)
W18X40 (20)
W14X22 (9)
W18X35 (16)
W18X35 (26)
W14X22
W16X26
W18X35
W10X12
W14X22
W16X26
W18X35
W14X22
W16X26
W18X35
W14X22
W16X26
W18X35



1 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
BRIDGE FRAMING PLAN

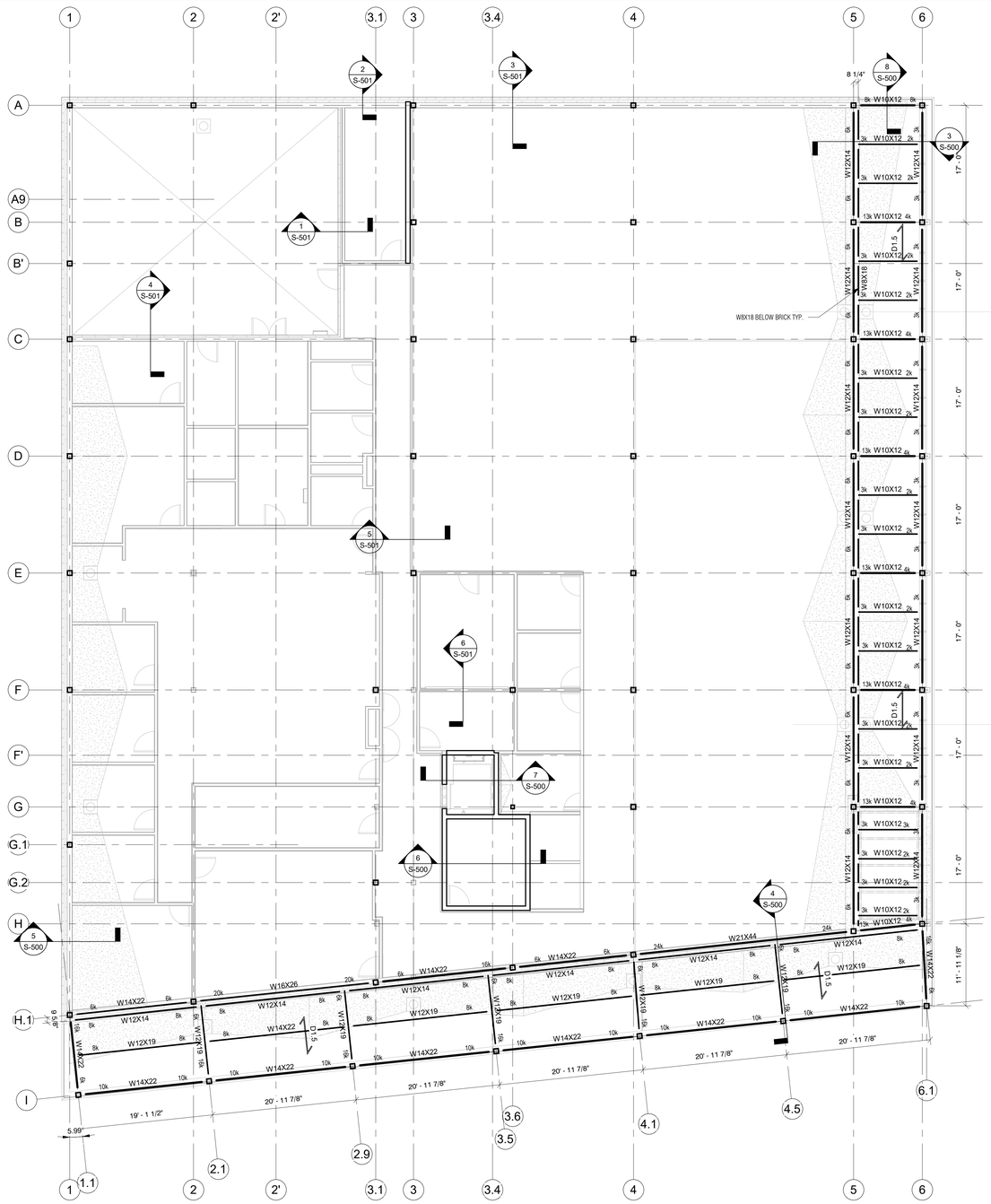
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PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/2022
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

S1.02

10/7/2022 4:33:03 PM BIM 360://Bloomfield Library - Prosser Building/21-241A - Prosser Library-STR_BIM360-R21.rvt



2 Roof Canopy

1/8" = 1'-0"

ROOF CONSTRUCTION NOTES:

1. D1.5 — TYPICAL ROOF CONSTRUCTION: 1 1/2 "X20GA. GALVANIZED TYPE "B" METAL ROOF DECK, REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
2. D3.0 — INDICATES: 3.0" - 20 GAUGE ACOUSTIC ROOF DECK. REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
3. INDICATES MOMENT CONNECTION, REFER TO TYPICAL DETAILS ON DRAWING S-601
4. ALL BEAM FRAMING SHALL HAVE EQUAL SPACING BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
5. REFER TO DRAWING S6.01 FOR ALL ROOF FRAMES AT OPENINGS. COORDINATE ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENING, DRAINS AND EQUIPMENT. PROVIDE FRAMES PER TYPICAL DETAILS
7. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING SIZES, SPACING AND LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS

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CANOPY ROOF FRAMING PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/2022
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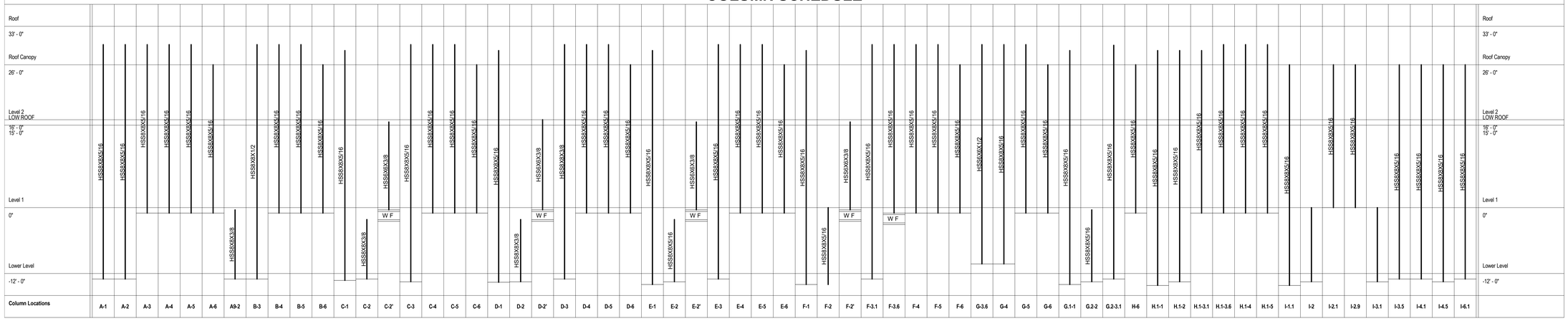
ISSUE DATES

NO.	DATE	PURPOSE

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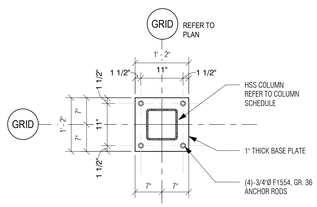
COLUMN SCHEDULE



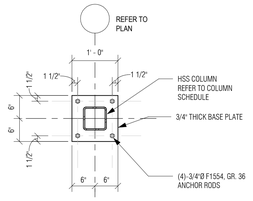
COLUMN PIER SCHEDULE

GRID	T/CONC	BASE PLATE	PIER
A9-2	-13' - 0"	BP-1	P1
A-1	-13' - 0"	BP-1	P1
A-2	-13' - 0"	BP-1	P1
A-4	-1' - 0"	BP-1	P1
A-5	-1' - 0"	BP-1	P1
A-6	-1' - 0"	BP-1	P1
B-1	-13' - 0"		P1
B-2	-5"	BP-3	N/A
B-3	-13' - 0"		P1
B-4	-1' - 0"	BP-1	P1
B-5	-1' - 0"	BP-1	P1
B-6	-1' - 0"	BP-1	P1
C-1	-13' - 3"	BP-1	P1
C-2	-5"	BP-3	N/A
C-3	-13' - 6"	BP-1	P1
C-4	-1' - 0"	BP-1	P1
C-5	-1' - 0"	BP-1	P1
C-6	-1' - 0"	BP-1	P1
D-1	-13' - 7"	BP-1	
D-2	-13' - 6"	BP-1	
D-4	-1' - 0"	BP-1	P1
D-5	-1' - 0"	BP-1	P1
D-6	-1' - 0"	BP-1	P1
E-1	-14' - 0"	BP-1	P1
E-2	-13' - 6"	BP-1	P1
E-2'	-5"	BP-3	N/A
E-3	-13' - 0"	BP-1	P1
E-4	-1' - 0"	BP-1	P1
E-5	-1' - 0"	BP-1	P1
E-6	-1' - 0"	BP-1	P1
F-1	-14' - 0"	BP-1	P1
F-2	-14' - 0"	BP-1	P1
F-2'	-5"	BP-3	N/A
F-3.1	-13' - 0"	BP-1	P1
F-3.6	-1' - 0"	BP-2	P1
F-4	-1' - 0"	BP-1	P1
F-5	-1' - 0"	BP-1	P1
F-6	-1' - 0"	BP-1	P1
G-3.6	-10' - 3"		P1
G-4	-10' - 3"	BP-1	N/A
G-5	-1' - 0"	BP-1	P1
G-6	-1' - 0"	BP-1	P1
G.1-1	-14' - 0"	BP-1	P1
G.2-2	-13' - 6"	BP-1	P1
G.2-3.1	-13' - 0"	BP-1	P1
H-6	-1' - 0"	BP-1	
H.1-1	-14' - 2"	BP-1	P1
H.1-3.1	-1' - 0"	BP-1	
H.1-3.6	-1' - 0"	BP-1	
H.1-4	-1' - 0"	BP-1	
H.1-5	-1' - 0"	BP-1	P1
I-1.1	-14' - 2"	BP-1	P1
I-2	-13' - 6"	BP-1	P1
I-2.1	0"	BP-1	P1
I-2.9	0"	BP-1	P1
I-3.1	-13' - 6"	BP-1	P1
I-3.5	-13' - 0"	BP-1	P1
I-4.1	-13' - 0"	BP-1	P1
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I-6.1	-13' - 0"	BP-1	P1

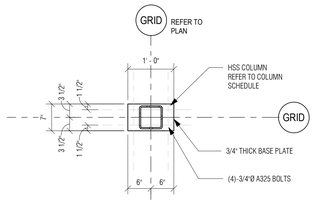
NOTE:
1. IF NO PIER DETAIL DESIGNATION IS GIVEN: COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
2. REFER TO DRAWING S200 FOR BASE PLATE DETAILS
3. TOP OF CONCRETE IS GIVEN FROM MAIN LEVEL FINISHED FLOOR ELEVATION (0'-0")



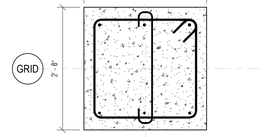
BASE PLATE BP-1



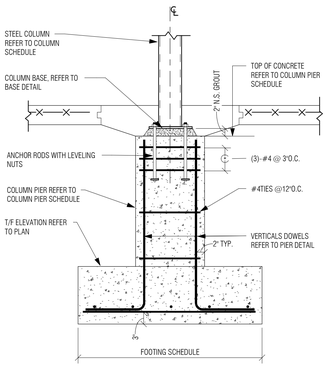
BASE PLATE BP-2



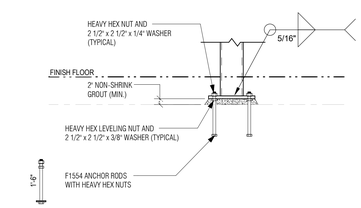
BASE PLATE BP-3



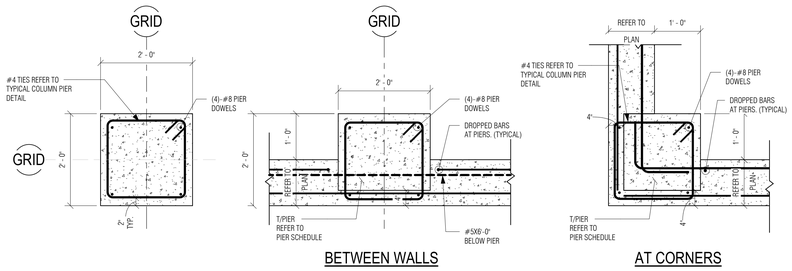
P2 PIER DETAIL P2
3/4" = 1'-0"



1 TYPICAL COLUMN PIER DETAIL
3/4" = 1'-0"



3 TYPICAL COLUMN BASE PLATE DETAIL
3/4" = 1'-0"



BETWEEN WALLS

AT CORNERS

P1 PIER DETAIL
3/4" = 1'-0"

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KEY PLAN

DRAWING TITLE
COLUMN SCHEDULE AND DETAILS

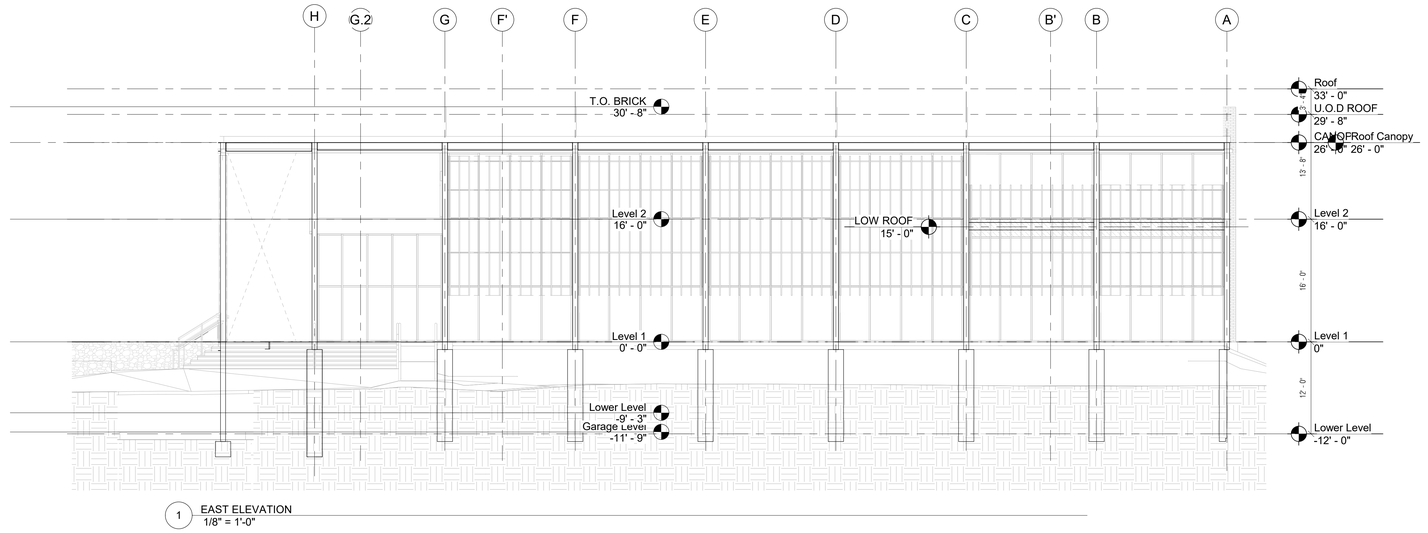
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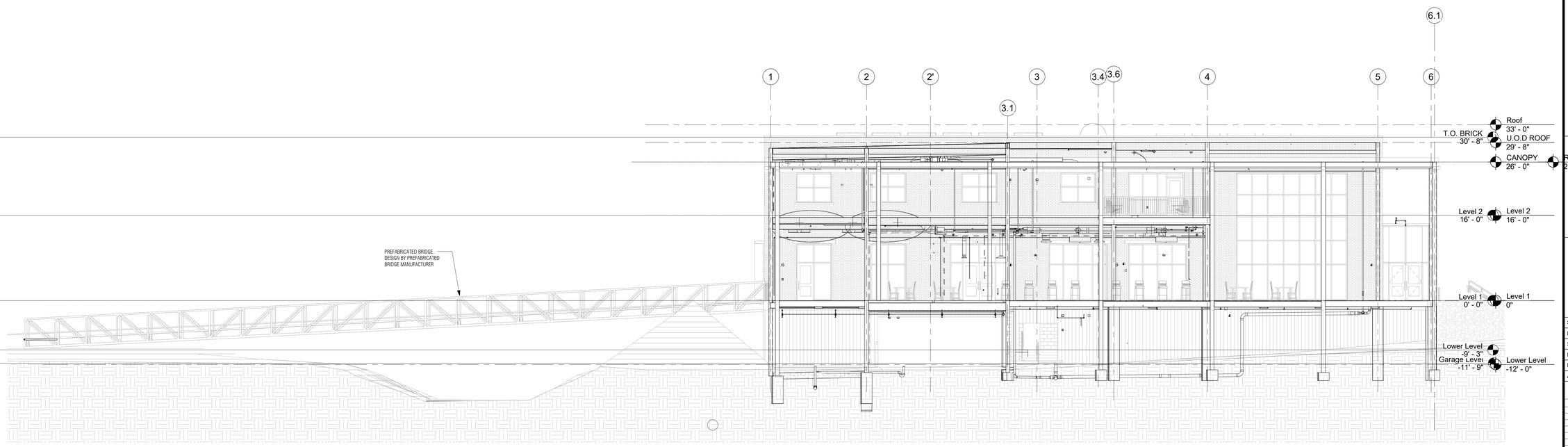
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S2.00

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1 EAST ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"

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PROJECT
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KEY PLAN

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BUILDING ELEVATIONS EXTERIOR

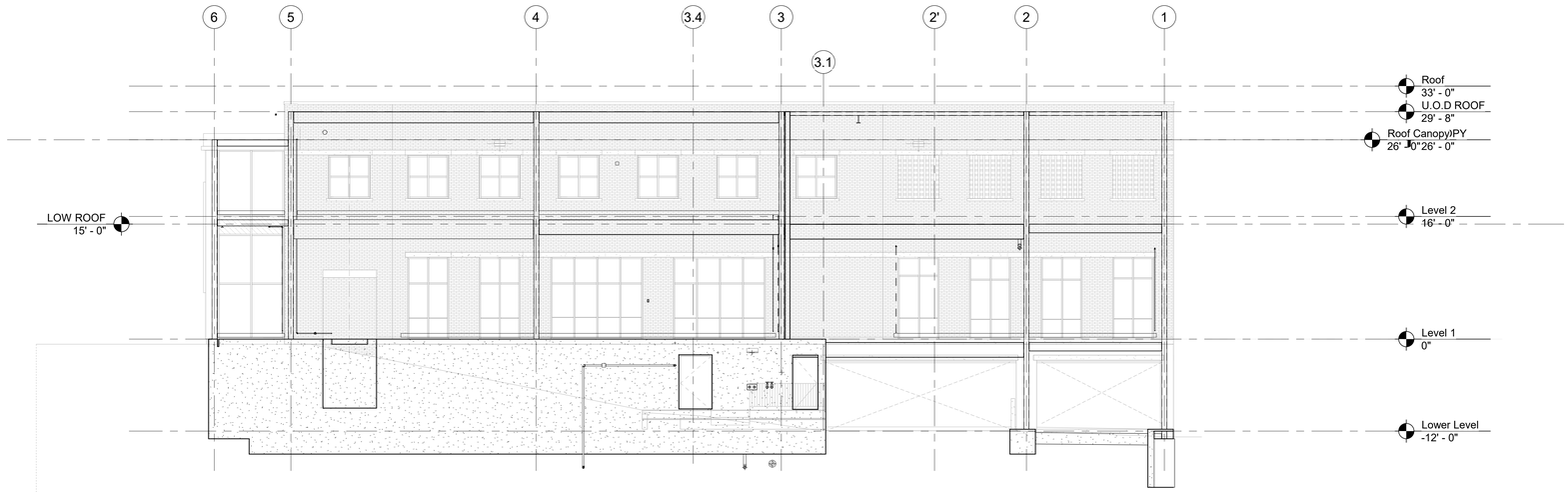
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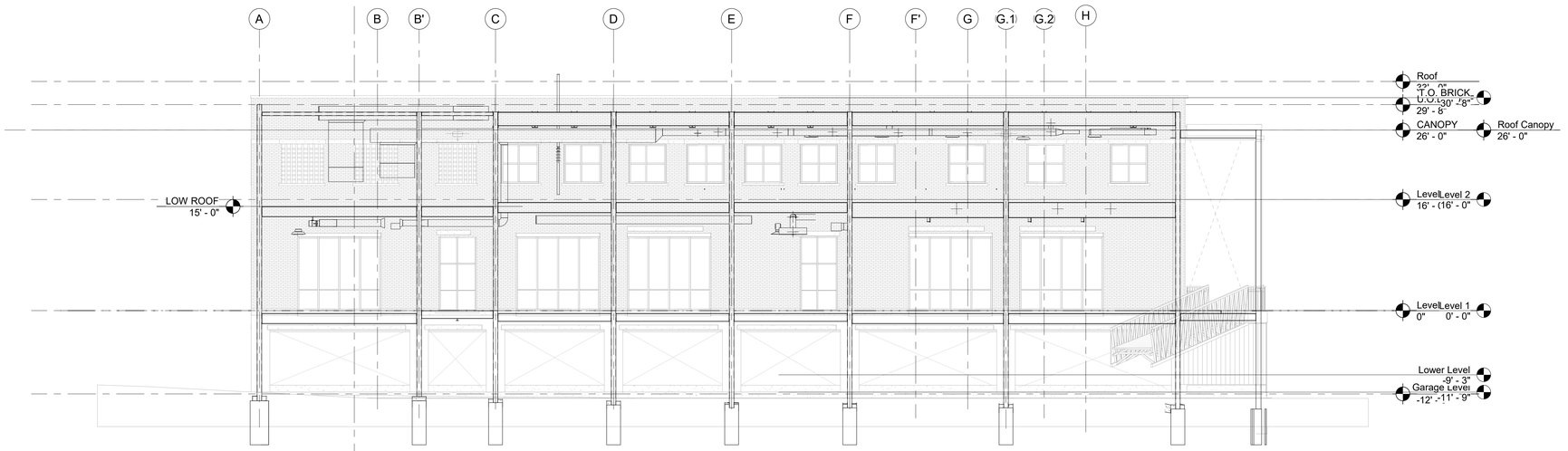
S2.01

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1 NORTH ELEVATION
1/8" = 1'-0"

A9



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

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EXTERIOR ELEVATIONS

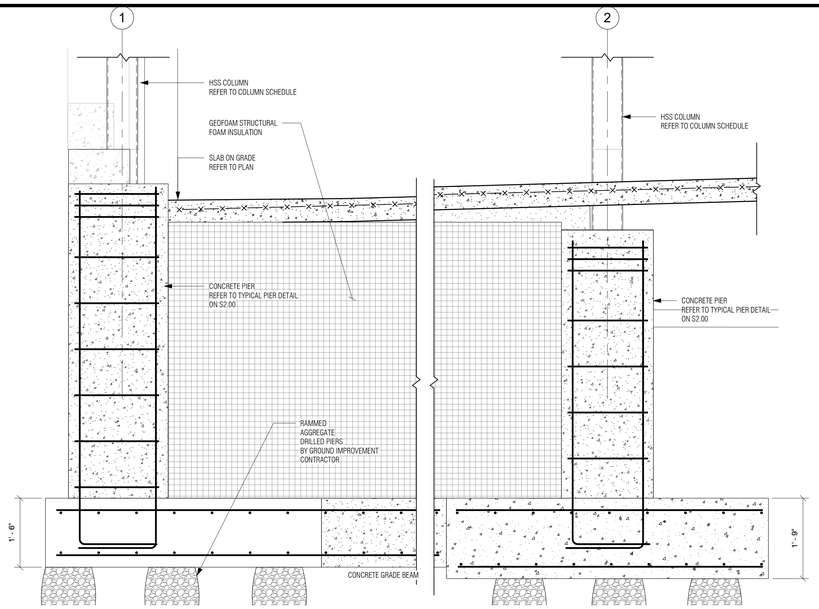
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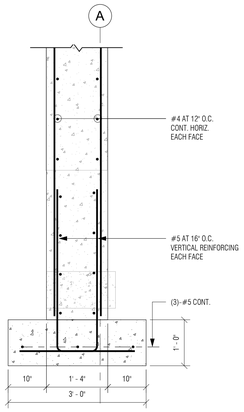
ISSUE DATES

NO.	DATE	PURPOSE

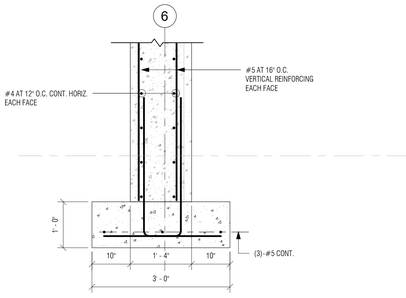
S2.02

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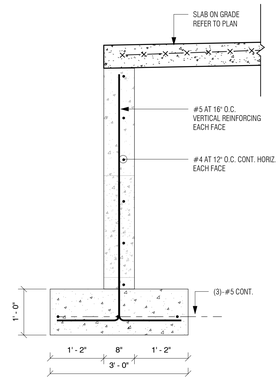




2 SECTION
3/4" = 1'-0"

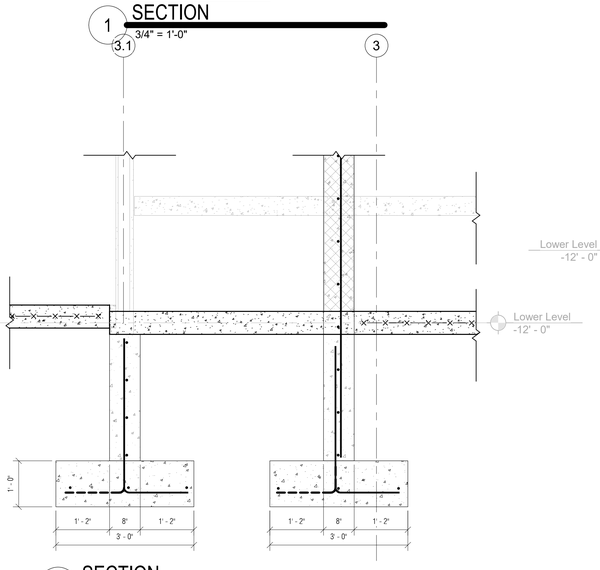


3 SECTION
3/4" = 1'-0"

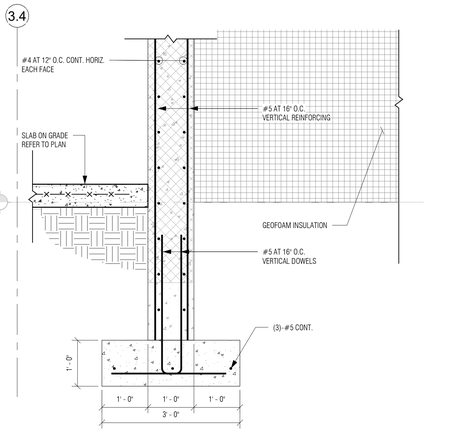


4 SECTION
3/4" = 1'-0"

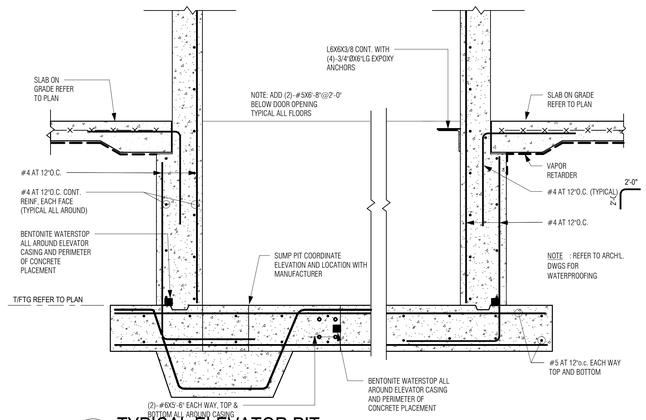
OPTION 2: EXCAVATION OPTION



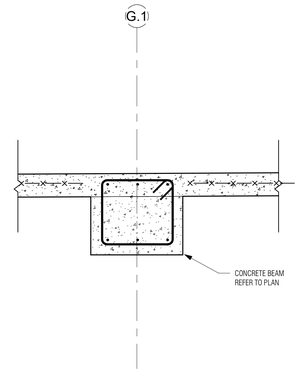
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3/4" = 1'-0"



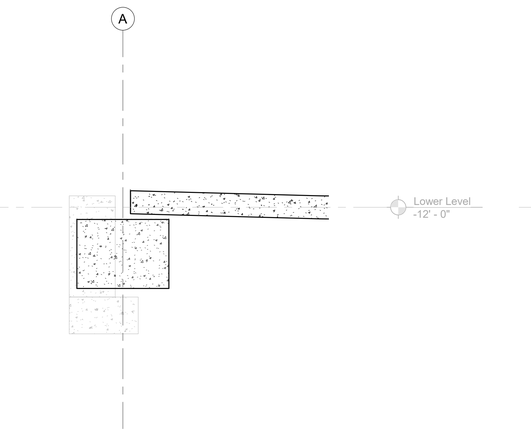
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3/4" = 1'-0"



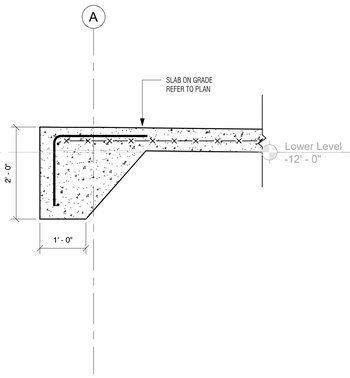
7 TYPICAL ELEVATOR PIT
3/4" = 1'-0"



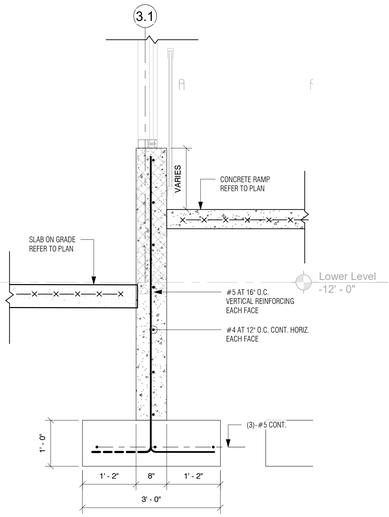
8 SECTION
3/4" = 1'-0"



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



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



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

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PROJECT

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

FOUNDATION SECTIONS

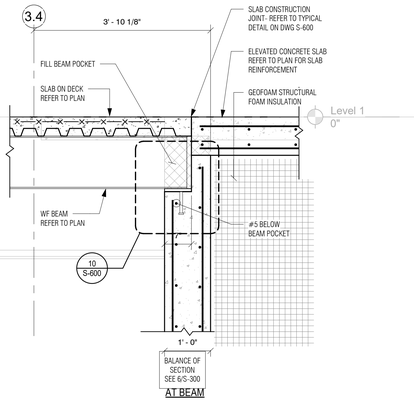
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

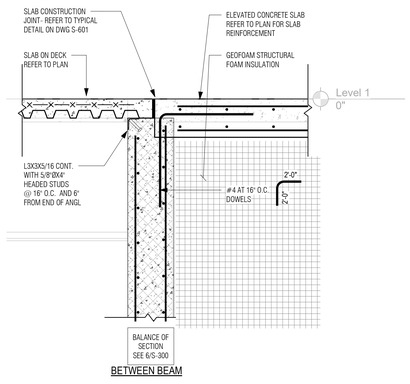
NO.	DATE	PURPOSE

S-300

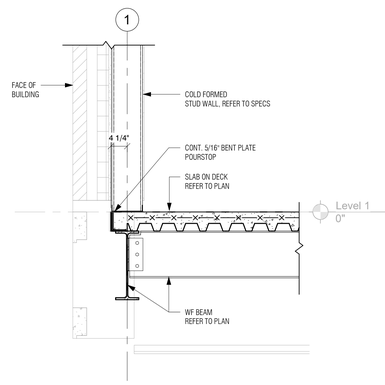
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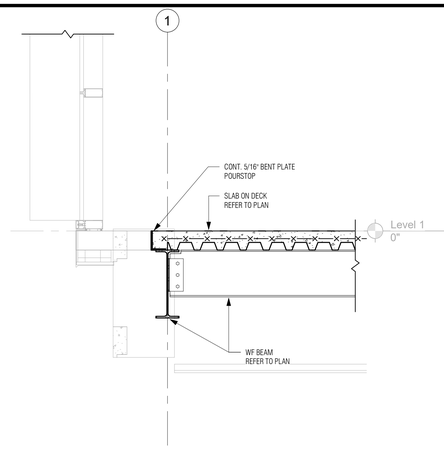
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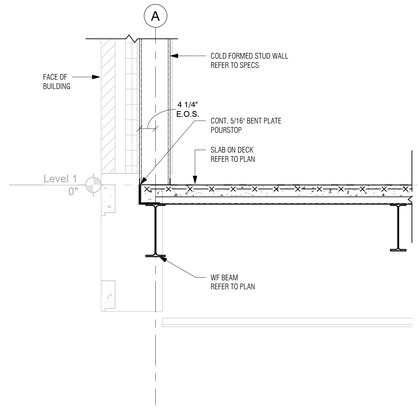
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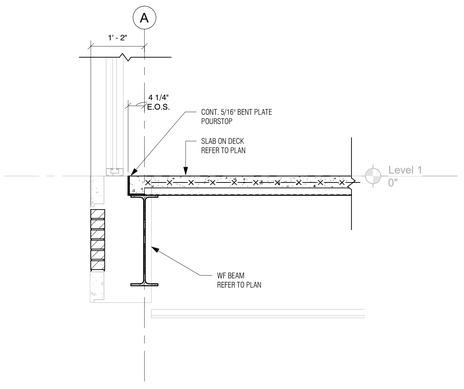
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3/4" = 1'-0"



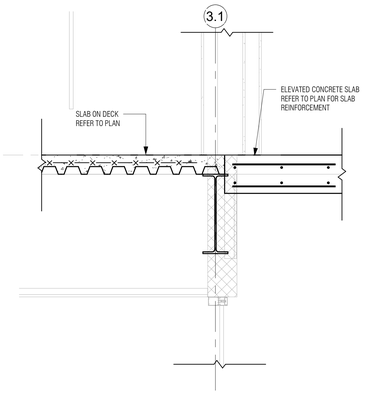
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3/4" = 1'-0"



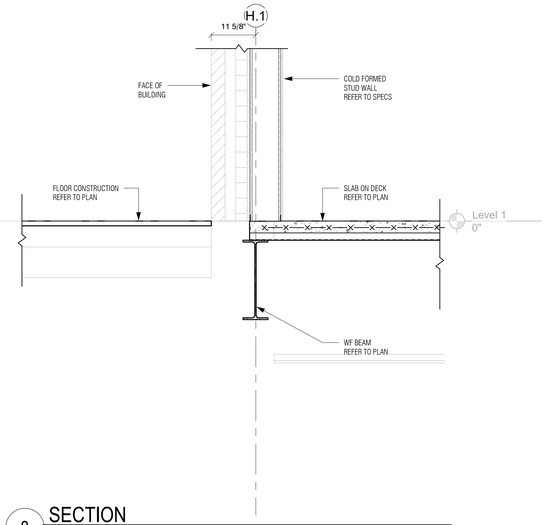
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3/4" = 1'-0"



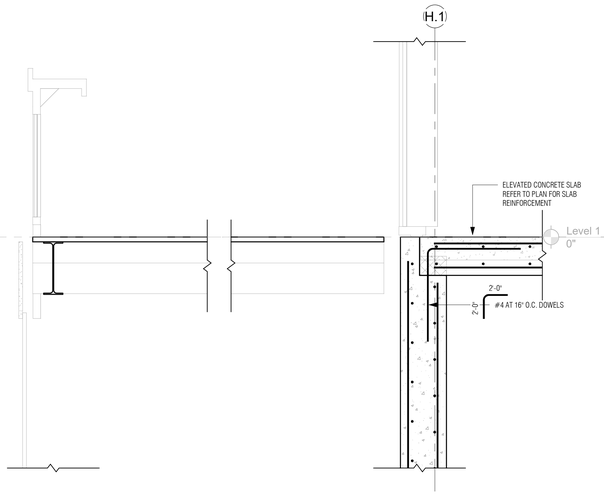
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3/4" = 1'-0"



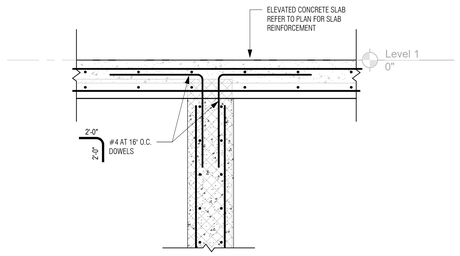
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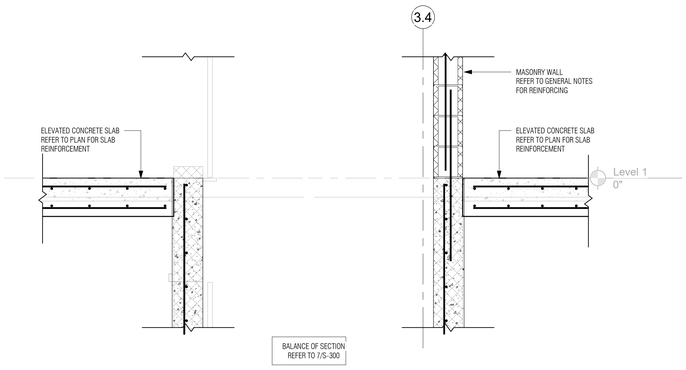
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3/4" = 1'-0"



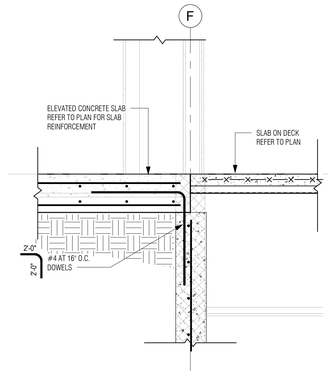
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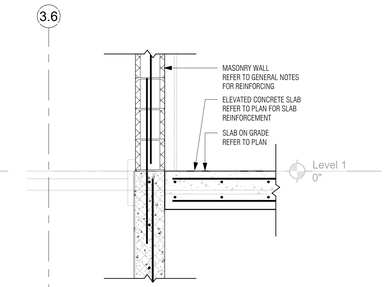
10 SECTION
3/4" = 1'-0"



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



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



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

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
FLOOR SECTIONS

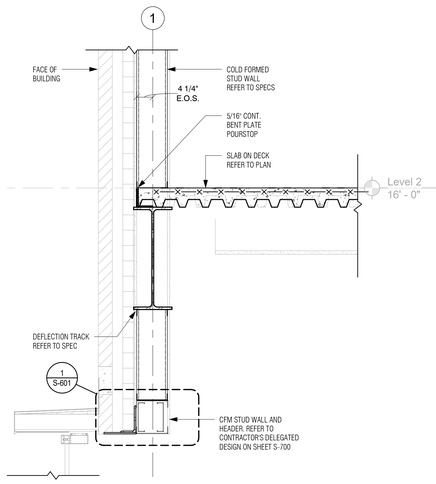
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

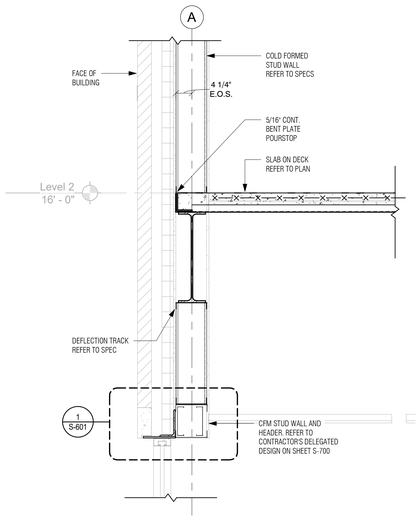
NO.	DATE	PURPOSE

S-400

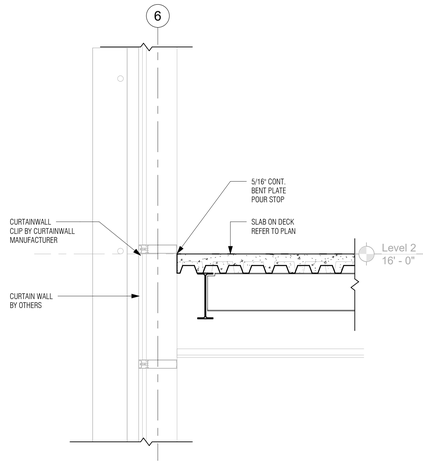
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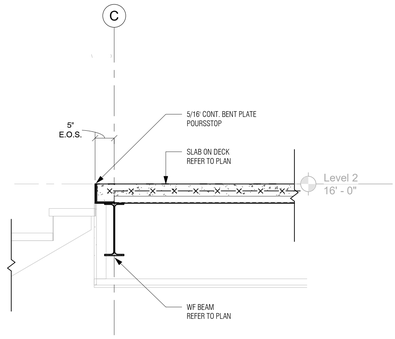
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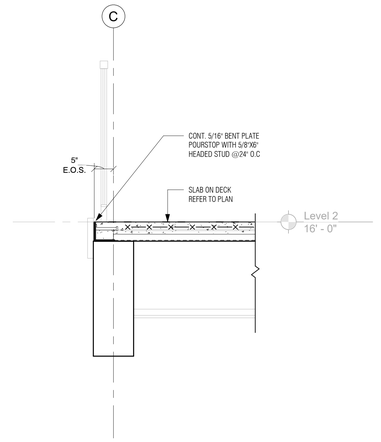
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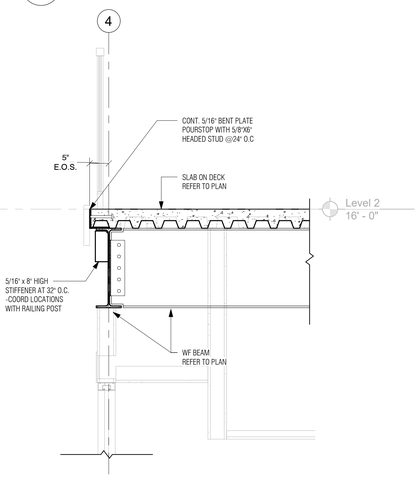
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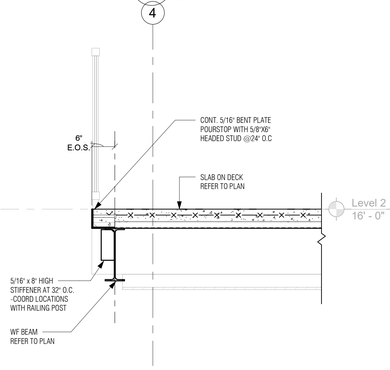
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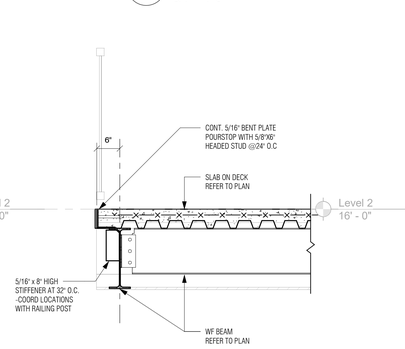
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3/4" = 1'-0"



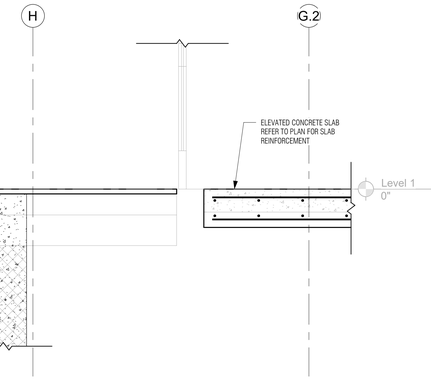
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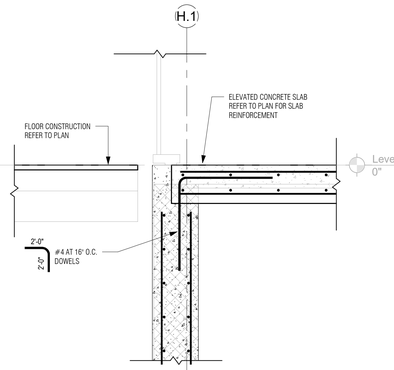
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3/4" = 1'-0"



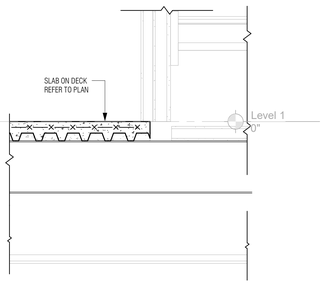
8 SECTION
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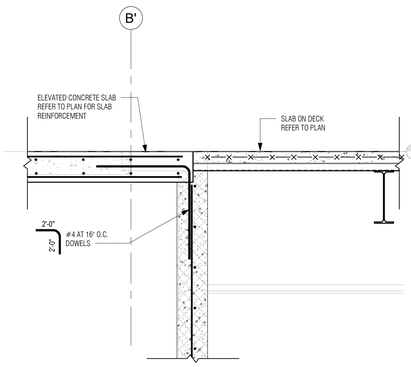
9 SECTION
3/4" = 1'-0"



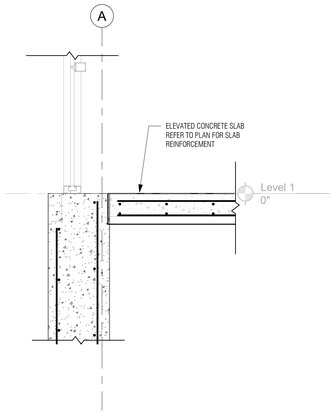
10 SECTION
3/4" = 1'-0"



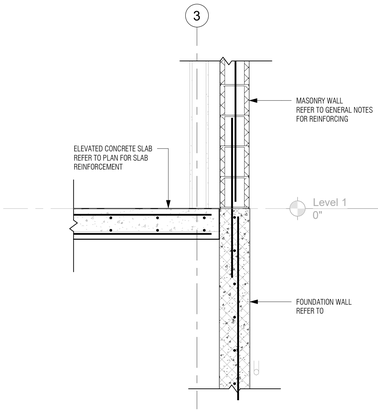
11 SECTION
3/4" = 1'-0"



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



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



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

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KEY PLAN

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FLOOR SECTIONS

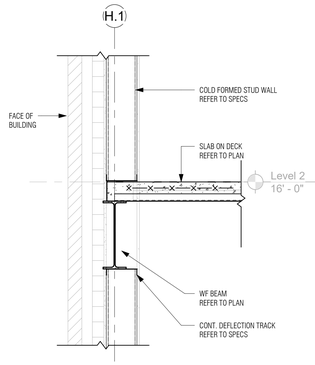
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

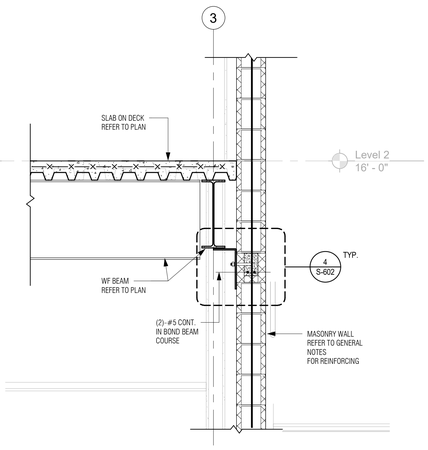
NO.	DATE	PURPOSE

S-401

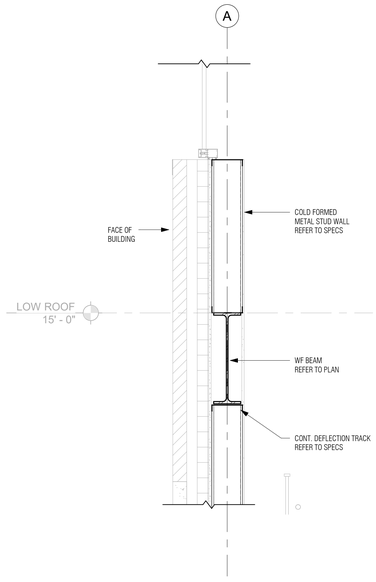
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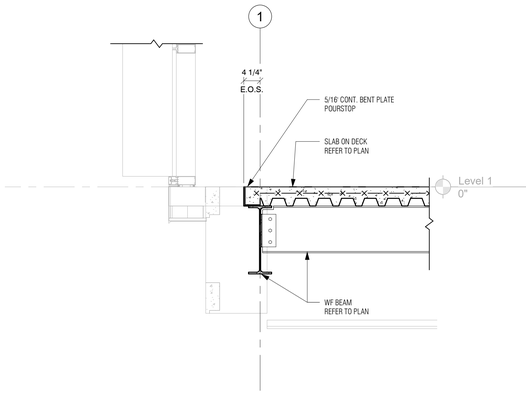
1 SECTION
3/4" = 1'-0"



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



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



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

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FLOOR SECTIONS

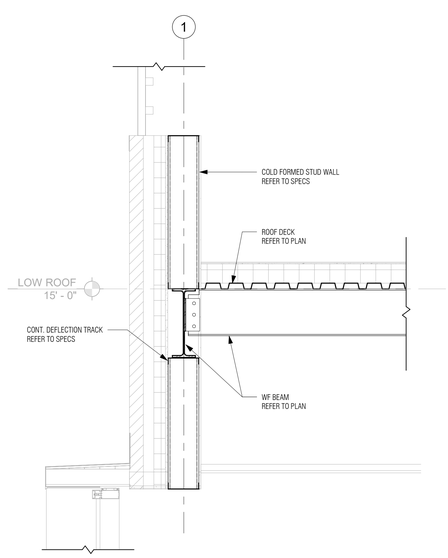
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

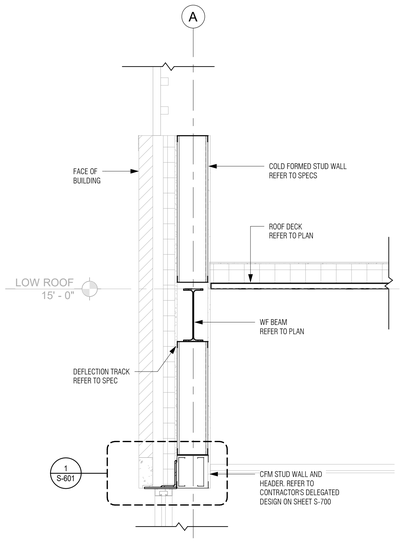
NO.	DATE	PURPOSE

S-402

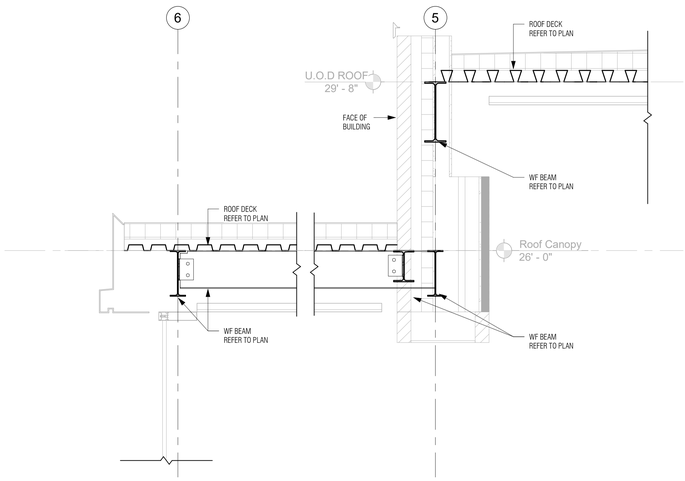
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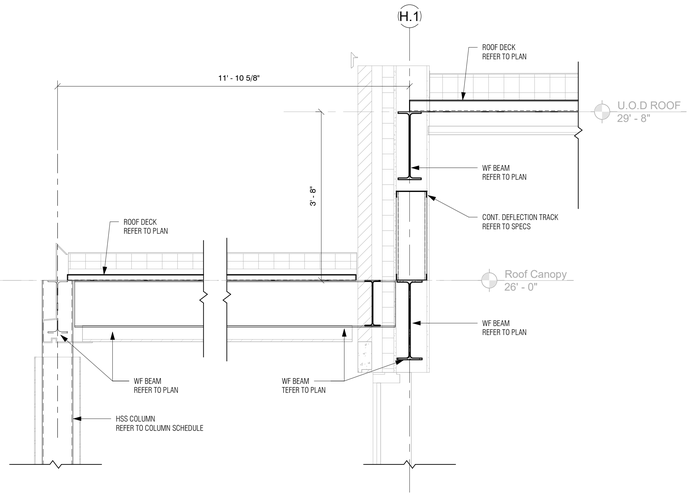
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3/4" = 1'-0"



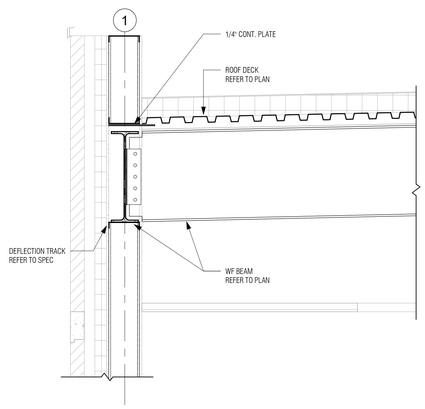
2 SECTION
3/4" = 1'-0"



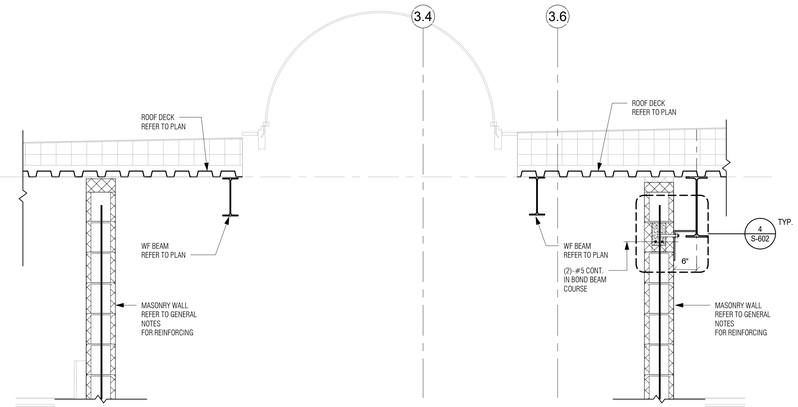
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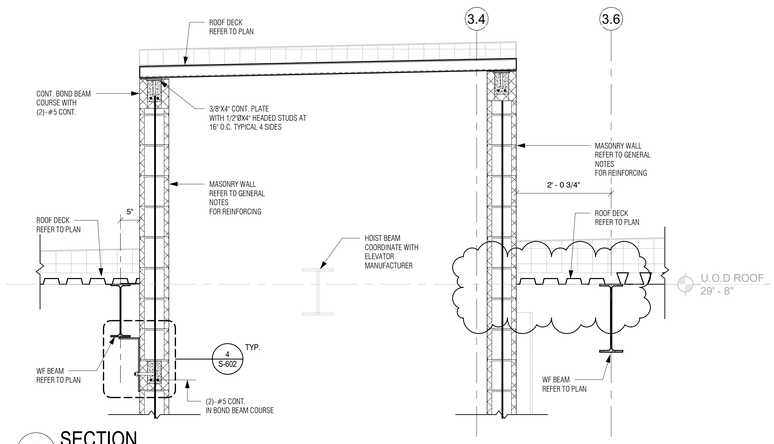
4 SECTION
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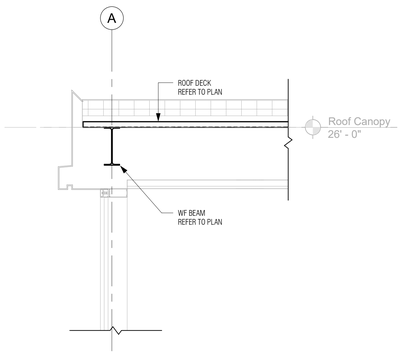
5 SECTION
3/4" = 1'-0"



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



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



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

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
ROOF SECTIONS

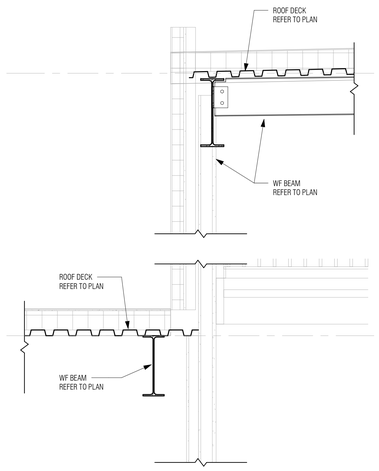
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

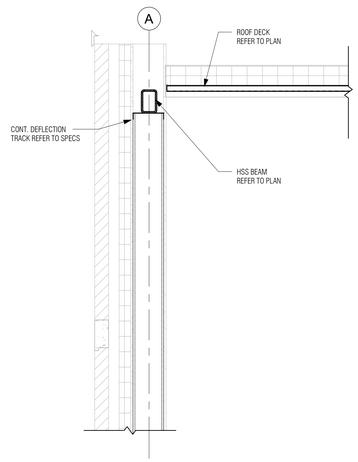
NO.	DATE	PURPOSE
1	Date 1	Revision 1

S-500

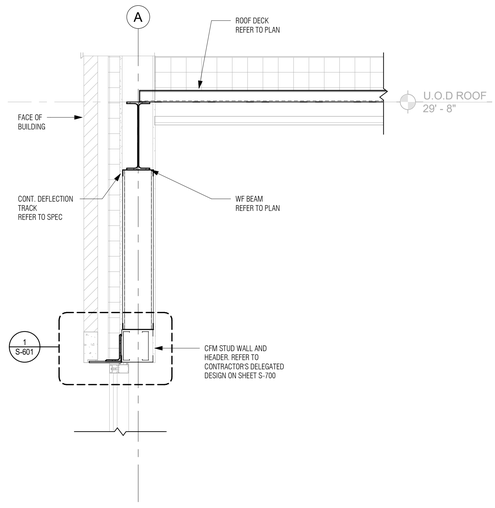
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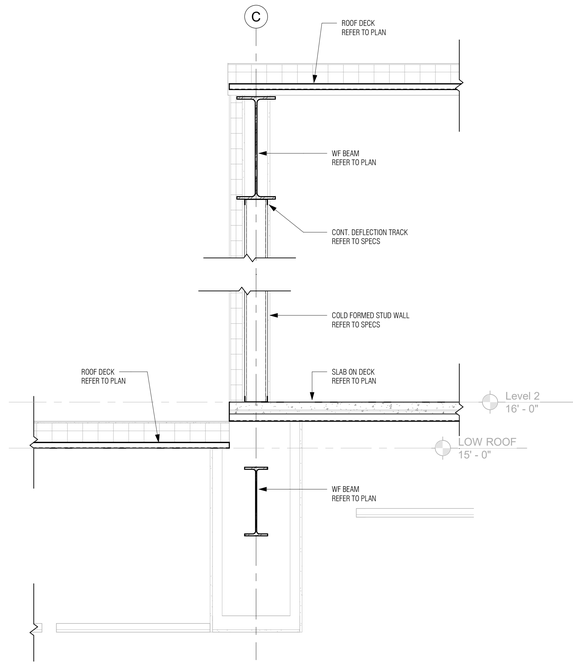
1 SECTION
3/4" = 1'-0"



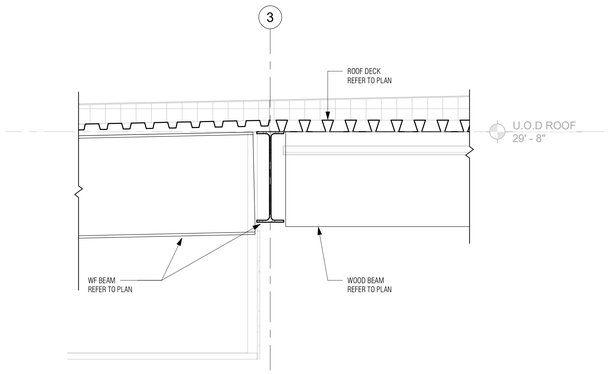
2 SECTION
3/4" = 1'-0"



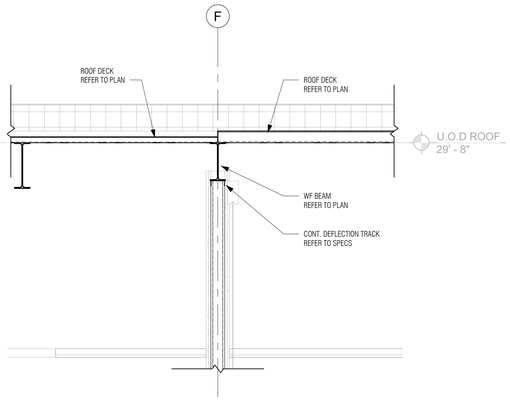
3 SECTION
3/4" = 1'-0"



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



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



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

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DRAWING TITLE
ROOF SECTIONS

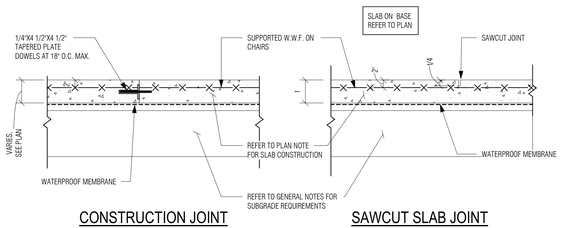
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	3/4" = 1'-0"
DATE	10/07/2022
DRAWN BY	Author
APPROVED BY	Approver

ISSUE DATES

NO.	DATE	PURPOSE

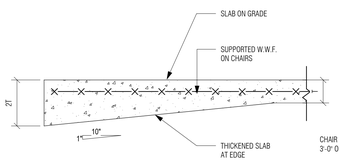
S-501

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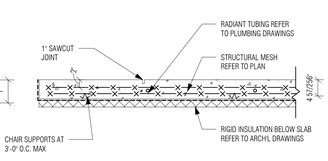


CONSTRUCTION JOINT

SAWCUT SLAB JOINT



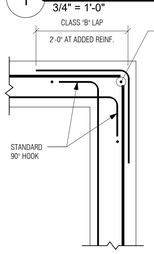
TYPICAL THICKENED EDGE



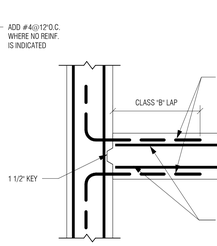
TYPICAL SLAB AT RADIANT HEAT

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

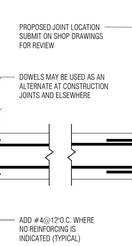
1 TYPICAL SLAB ON GRADE DETAIL -RADIANT
3/4" = 1'-0"



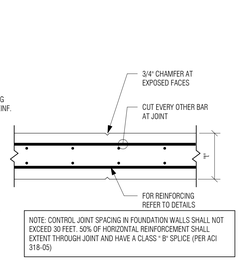
CORNER



INTERSECTION



CONSTRUCTION JOINT

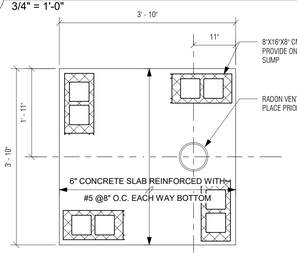


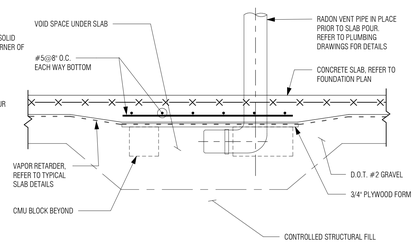
NOTE: CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTENT THROUGH JOINT AND HAVE A CLASS " B" SPLICE (PER ACI 318-05)

CONTROL JOINT

NOTED "CJ" ON PLAN

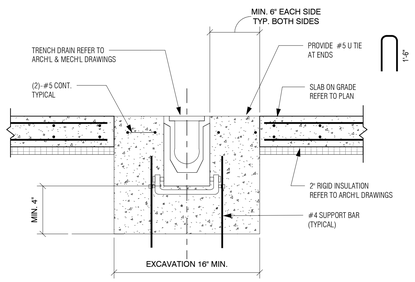
4 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"



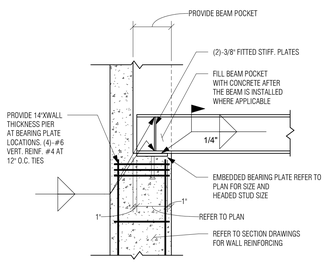


RADON SUMP LOCATIONS NOTED ON FOUNDATION PLAN WITH SYMBOL SHOWN AT LEFT.

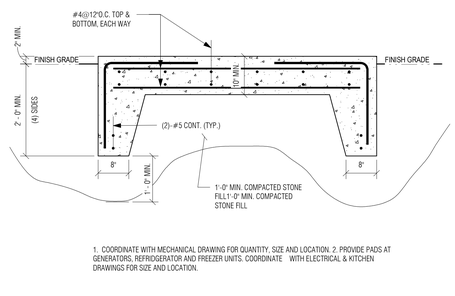
7 TYPICAL SLAB ON GRADE RADON SUMP DETAIL
3/4" = 1'-0"



15 TYPICAL TRENCH DRAIN DETAIL
3/4" = 1'-0"

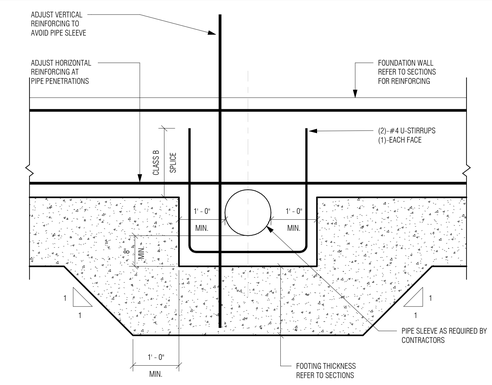


10 TYPICAL BEAM BEARING PLATE DETAIL
3/4" = 1'-0"



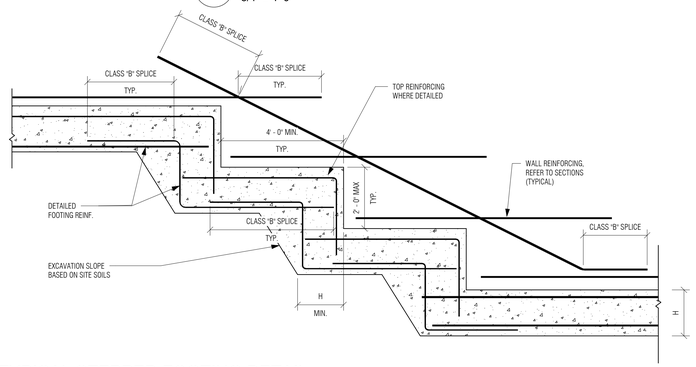
1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION. 2. PROVIDE PADS AT GENERATORS, REFRIGERATOR AND FREEZER UNITS. COORDINATE WITH ELECTRICAL & KITCHEN DRAWINGS FOR SIZE AND LOCATION.

11 TYPICAL CONCRETE EQUIPMENT PAD ON GRADE
3/4" = 1'-0"

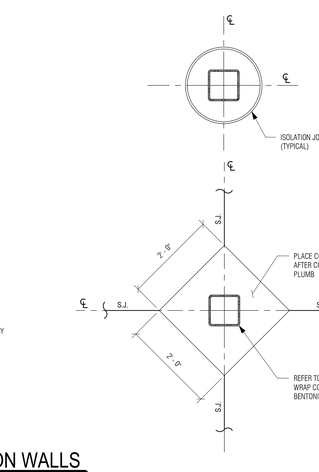


NOTE: DO NOT PLACE PENETRATIONS THROUGH COLUMNS PIERS OR FOOTINGS. REFER TO PLAN FOR LOCATIONS AND COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS.

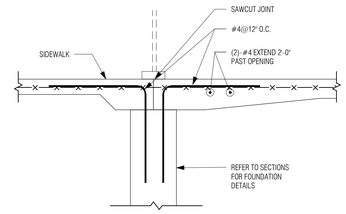
2 TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATION WALLS
3/4" = 1'-0"



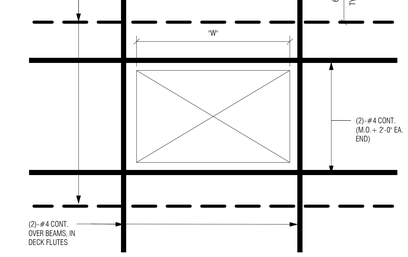
5 TYPICAL STEPPED FOOTING DETAIL
1/2" = 1'-0"



3 TYPICAL SLAB CONSTRUCTION JOINTS AT COLUMNS
3/4" = 1'-0"



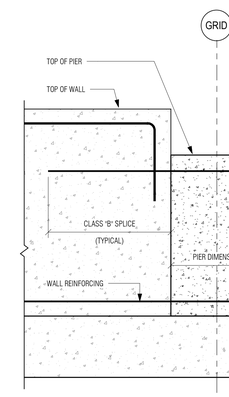
6 TYPICAL FOUNDATION AT DOORS
3/4" = 1'-0"



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.

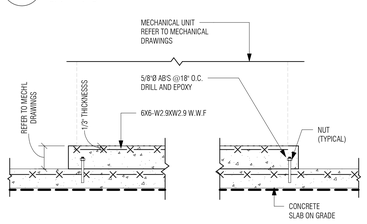
LAP SCHEDULE		
SIZE	4500 PSI	
	TOP	OTHERS
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	80"	62"
#9	91"	70"

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

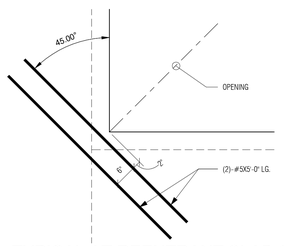


NOTE: REFER TO SECTIONS FOR REINFORCING.

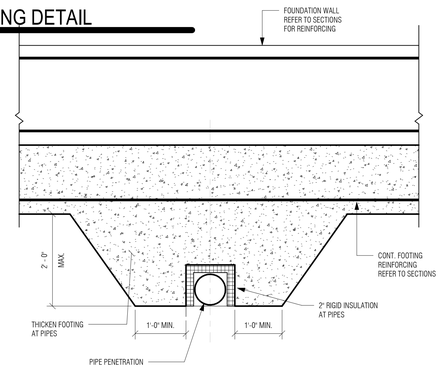
8 TYPICAL WALL REINFORCING DETAIL
3/4" = 1'-0"



1. COORDINATE WITH MECHANICAL DRAWING FOR QUANTITY, SIZE AND LOCATION



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



NOTE:
DO NOT LOCATE PENETRATIONS THROUGH COLUMN FOOTINGS.
COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS, FOR LOCATIONS AND ELEVATIONS

14 TYPICAL DETAIL OF PIPE PENETRATIONS BELOW WALL FOOTING
3/4" = 1'-0"

12 TYPICAL NEW CONCRETE PAD ON CONCRETE SLAB ON GRADE
3/4" = 1'-0"

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KEY PLAN

DRAWING TITLE
TYPICAL DETAILS

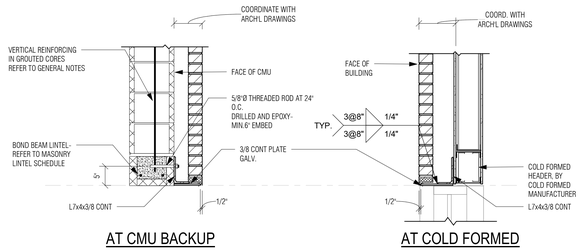
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
DRAWN BY	AC
APPROVED BY	Approver

ISSUE DATES

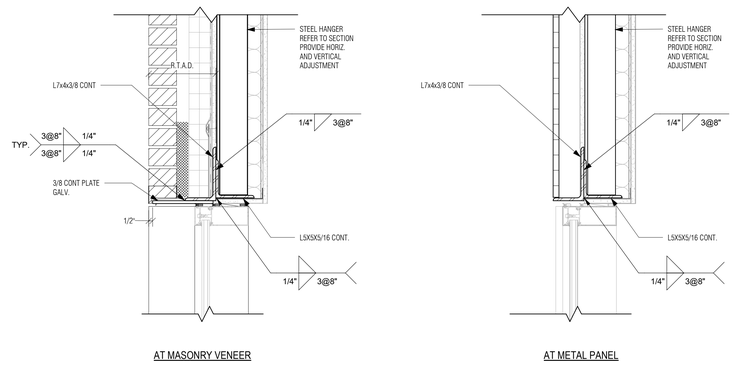
NO.	DATE	PURPOSE

S-600

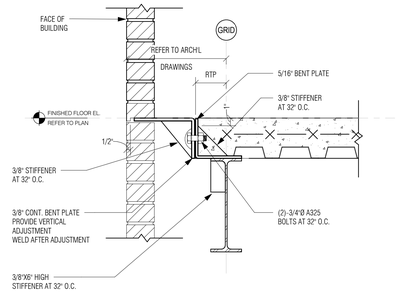
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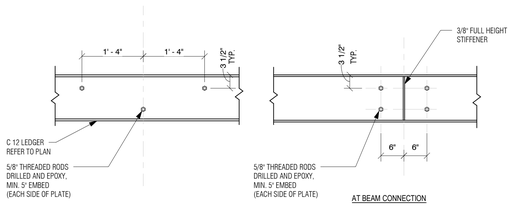
1 TYPICAL EXTERIOR LOOSE LINTEL.
3/4" = 1'-0"



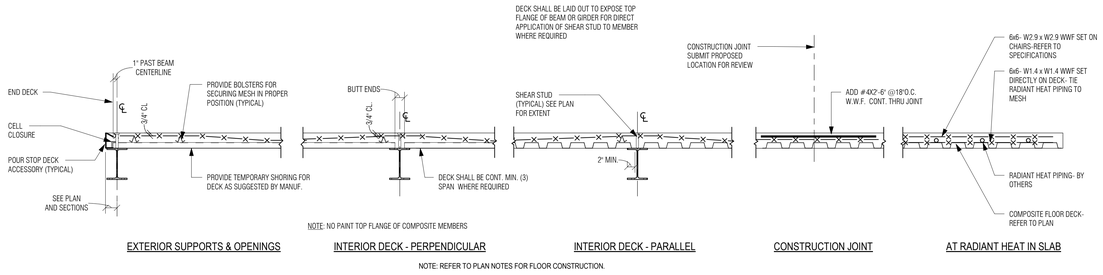
2 TYPICAL HUNG ANGLE DETAIL.
1 1/2" = 1'-0"



3 TYPICAL RELIEVING ANGLE.
1 1/2" = 1'-0"

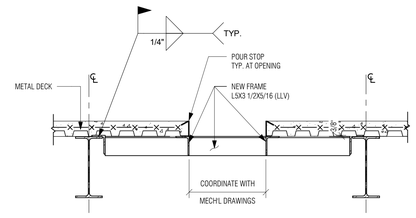


4 TYPICAL LEDGER BOLTING DETAIL
3/4" = 1'-0"



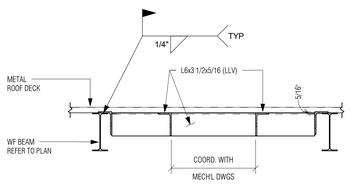
NOTE: REFER TO PLAN NOTES FOR FLOOR CONSTRUCTION.

5 TYPICAL SUPPORTED SLAB DETAILS
3/4" = 1'-0"



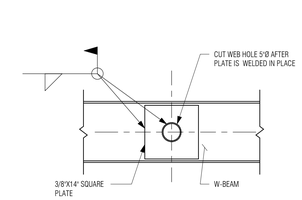
1. TYPICAL FOR ALL OPENINGS.
2. FRAMES TO BE SHOP WELDED ASSEMBLY.
3. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L. AND MECH'L. DRAWINGS.

6 TYPICAL FLOOR OPENING DETAIL
3/4" = 1'-0"

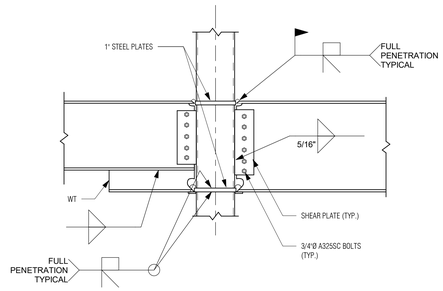


1. TYPICAL FOR ALL OPENINGS 4'-0"X4'-0" OR LESS. FOR LARGER OPENINGS SEE SPECIFIC DETAILS.
2. SIMILAR FRAMES FOR ROOF DRAIN OPENINGS.
3. FRAMES TO BE SHOP WELDED ASSEMBLY.
4. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCH'L. AND MECH'L. DRAWINGS.

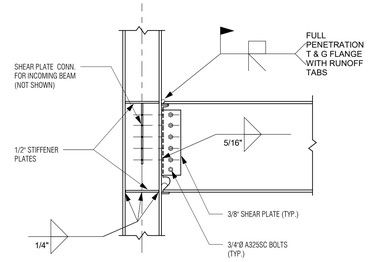
7 TYPICAL ROOF FRAME OPENING DETAIL (W BEAM)
3/4" = 1'-0"



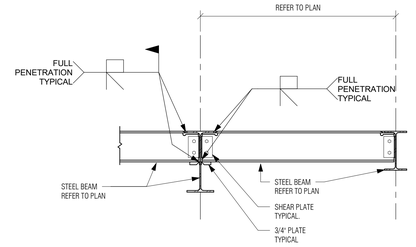
8 PIPE PENETRATION DETAIL
3/4" = 1'-0"



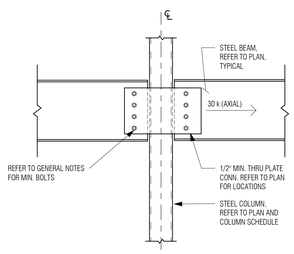
9 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



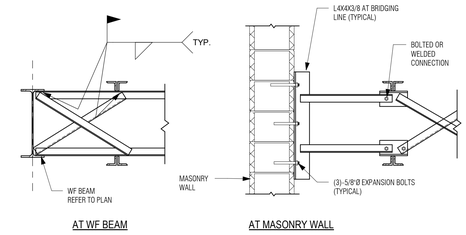
10 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



11 TYPICAL WF OUTRIGGER DETAIL
3/4" = 1'-0"



12 TYPICAL THRU PLATE CONNECTION DETAIL
3/4" = 1'-0"



13 TYPICAL BRIDGING DETAIL
3/4" = 1'-0"

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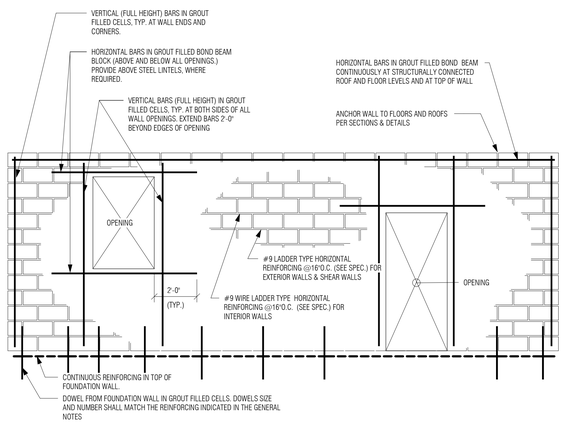
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/2022
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ISSUE DATES

NO.	DATE	PURPOSE

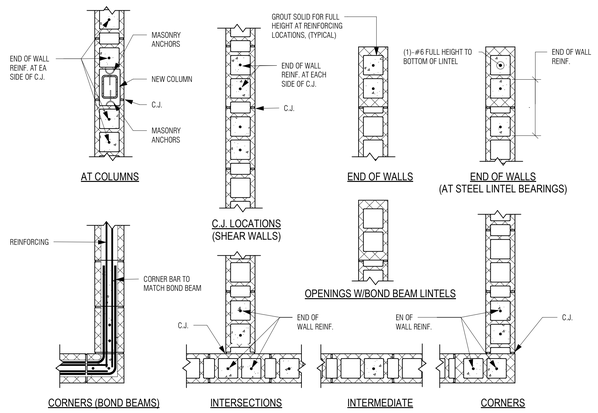
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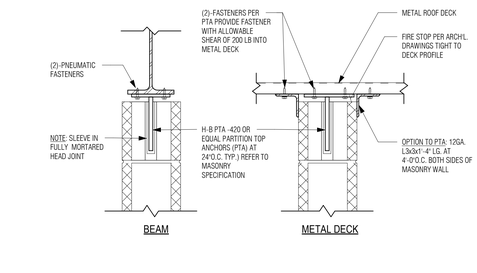
NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES ON DRAWING FOR WALL REINFORCING REQUIREMENTS.

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



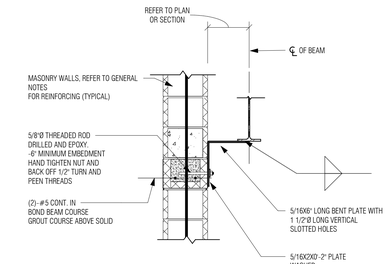
NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAWINGS
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.

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

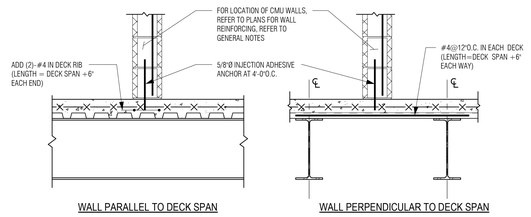


NOTE: APPLIES TO INTERIOR WALLS ONLY.

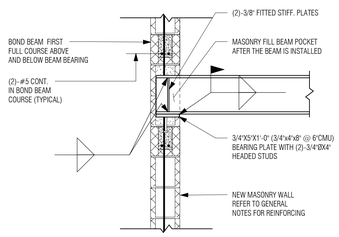
3 TYPICAL TOP OF WALL MASONRY ANCHORAGE TO STEEL
1 1/2" = 1'-0"



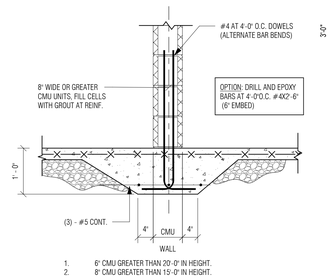
4 TYPICAL BEAM TO MASONRY CONNECTION
3/4" = 1'-0"



5 TYP. DETAIL OF CMU PARTITION ON SUPPORTED SLAB
3/4" = 1'-0"



6 TYPICAL BEAM BEARING PLATE AT NEW CMU
3/4" = 1'-0"



7 TYPICAL THICKENED SLAB DETAIL
3/4" = 1'-0"

MASONRY LINTEL SCHEDULE

MARK	CMU	OPENING WIDTH	LINTEL
	10" & 12" BLOCK	6'-1" TO 12'-0"	(2)-#6 CONT. TOP AND BOTTOM
	10" & 12" BLOCK	UP TO 6'-0"	(2)-#5 CONT.
	8" BLOCK	UP TO 5'-0"	(2)-#5 CONT.
	8" BLOCK	5'-1" TO 10'-0"	(2)-#6 CONT. TOP AND BOTTOM
	6" BLOCK	UP TO 6'-0"	(1)-#5 CONT.
	INTERIOR 4" MASONRY	UP TO 6'-0"	L5X3 1/2X5/16 (4" MIN. BEARING)
	INTERIOR 4" MASONRY	6'-0" TO 10'-0"	L7X4X3/8 (4" MIN. BEARING)

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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GENERAL NOTES

GENERAL

GOVERNING CODE: 2022 CONNECTICUT STATE BUILDING CODE, (2021 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: TOWN OF BLOOMFIELD

CONSTRUCTION LIVE LOADS: 20 PSF
PRE-COMPOSITE LOAD FOR CONCRETE PLACEMENT BY HOSE AND FINISHING. CONTRACTOR IS RESPONSIBLE FOR ANY SHORING REQUIRED OF THE DECK FOR HEAVIER LOADS DURING CONCRETE PLACEMENT.

MINIMUM LIVE LOADS: OFFICES: 50 PSF + 15 PSF PARTITION
CORRIDORS: 80 PSF
STAIRS: 100 PSF
PARTITIONS: 20 PSF
CLASSROOMS: 40 PSF

ROOF LOAD:

ROOF SNOW LOAD CRITERIA:
Pg = 30 PSF
Ce = 0.9
Is = 1.0
Ct= 1.0
Pf = 23.1 PSF

WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2021 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 20 PSF

WIND LOAD CRITERIA: SECTION 1609 (2021 IBC)
ULTIMATE WIND SPEED V_U = 120 MPH
NOMINAL DESIGN WIND V_{ASD} = 93 MPH
RISK CATEGORY II, Iw = 1.0
EXPOSURE CLASSIFICATION "B".

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-16.

COMPONENT AND CLADDING DESIGN WIND PRESSURES:

ROOF ZONE 1: POSITIVE: 16.00 PSF
NEGATIVE: -37.00 PSF

ROOF ZONE 2: POSITIVE: 16.00 PSF
NEGATIVE: -37.00 PSF

ROOF ZONE 3: POSITIVE: 16.00 PSF
NEGATIVE: -37.00 PSF

WALL ZONE 4: POSITIVE: 16.00 PSF
NEGATIVE: -37.00 PSF

WALL ZONE 5: POSITIVE: 16.00 PSF
NEGATIVE: -37.00 PSF

ROOF OVERHANG ZONE 2: -56.00 PSF
ROOF OVERHANG ZONE 3: -56.00 PSF

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

SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2021 IBC) WITH:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR, Ie = 1.0
Ss = 0.182g, S1 = 0.055g
SOIL SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.293G, Sd1 = 0.136g
SEISMIC DESIGN CATEGORY, B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: BEARING WALL, LIGHT FRAME WALLS WITH SHEAR PANELS
SEISMIC RESPONSE COEFFICIENT, Cs = 0.054
DESIGN BASE SHEAR, V = Cs x W
RESPONSE MODIFICATION FACTOR, R = 3
ANALYSIS PROCEDURE USED: SIMPLIFIED ANALYSIS

ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL: 4000 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 ASSE 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.

CONRTACTOR'S DELEGATED DESIGN

1. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT TO PERFORM THE DESIGN OF THE FOLLOWING:

A. STRUCTURAL STEEL CONNECTIONS, INCLUDING BRACING AND MOMENT FRAMES
B. COLD-FORMED METAL EXTERIOR WALL FRAMING
C. GLU-LAMINATED WOOD CONNECTIONS
D. STAIR STRINGER, RAILING AND LANDING DESIGN
E. MECHANICAL EQUIPMENT CURB ATTACHMENT TO STEEL FRAMING.

ALL CALCULATIONS SHALL BE SIGNED AND SEALED BY THE ENGINEER AND SUBMITTED FOR REVIEW.

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.
1.

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 EXPOSED FOUNDATION RETAINING WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318). CONTROL JOINTS ARE NOT REQUIRED AT FROST WALLS UNLESS NOTED ON PLAN.

15. WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEYED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS WHERE THERE IS A DIFFENCE IN 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, WELTI GEOTECHNICAL, DATED MARCH 2, 2022. 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. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SITE GRADING PLAN PREPARED BY ----------, DATED ----------. IT IS THE CONTRACTOR=S RESPONSIBILITY TO REVIEW THE DRAWING PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SITE CONDITIONS AND THE REQUIREMENTS OF THE SITE ENGINEER.

19. 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 CONTROLLED BACKFILLING OF THE SITE EXCAVATION WITH CONTROLLED FILL COMPACTED TO AT LEAST 95% OF THE MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

20. 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 6 INCHES OF 3/4" COMPACTED PROCESSED AGGREGATE FILL, OVER A MINIMUM OF 6 INCHES OF COMPACTED CONTROLLED/STRUCTURAL FILL.

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. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 12'-0" ON CENTER IN EACH DIRECTION, IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN.

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

6. 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.

7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS.

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

9. ALL CONDUIT AND PIPING ARE TO BE PLACED BELOW THE SLAB VAPOR BARRIER. ANY STUB-UPS SHOULD BE TAPED WITH APPROVED TAPE.

CONCRETE

MATERIALS:

CONCRETE SHALL MEET THE REQUIREMENTS OF THE EXPOSURE CATEGORY LISTED BELOW PER ACI 318 CHAPTER 19, AND SHALL HAVE THE MAXIMUM WATER TO CEMENT RATIO, TARGET AIR CONTENT AND DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	EXPOSURE CATEGORY	STRENGTH (PSI)	MAXIMUM WATER TO CEMENT RATIO	TARGET AIR CONTENT
FOUNDATIONS	F2	4500	0.45	6%
SLABS ON GRADE	F0	3500	N/A	N/A
SLABS ON METAL DECK	F0	3500	N/A	N/A

* INCLUDES ANY EXTERIOR CONCRETE PADS, SLABS, ETC. NOTED ON THE STRUCTURAL DRAWINGS. REFER TO SITE CONCRETE SPECIFICATIONS FOR ALL OTHER EXTERIOR CONCRETE REQUIREMENTS.

1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW ACI 318-14.

2. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ACI GUIDELINES FOR HOT AND COLD WEATHER CONCRETE AND SHALL SUBMIT PROCEDURES FOR RECORD PRIOR TO COMMENCING WORK.

3. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

4. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

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

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

7. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.
1.

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

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

10. 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.

11. CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL MEMBERS AT SUPPORTED ELEVATED SLABS OF 1 INCH MAXIMUM, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.

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

13. 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.

14. PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDEMENT DEPTH PER THE ANCHOR BOLT/EPOXY MANUFACTURER PLUS A CLASS B LAP SPLICE FOR THE SIZE OF BAR.

15. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

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

17. 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.

18. 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.

19. 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.

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

21. 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.

22. PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE NOTED.

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

FOOTINGS (AGAINST EARTH)	3"
BEAMS (LONGITUDINAL REINFORCING)	2"
COLUMNS AND PIERS (VERTICAL REINFORCING)	2"
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

24. PROVIDE 2- #4 BARS IN TOP OF ALL CONCRETE BEAMS WITH STIRRUPS THAT DO NOT HAVE ANY OTHER TOP STEEL SPECIFIED.

25. 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.

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

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

27. CONCRETE COLUMNS SHALL BE PLACED AT LEAST TWO HOURS IN ADVANCE OF BEAMS, JOISTS AND SLABS.

28. 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.

29. 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.

30. 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.

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

32. ALL REINFORCING, THREADED RODS OR BOLTS INDICATED TO BE DRILLED AND EPOXIED SHALL UTILIZE HILTI HIT-HY200 ADHESIVE OR APPROVED EQUAL.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL	ASTM A 36
ALL W SHAPES	ASTM A 992, GR.50
STRUCTURAL STEEL TUBING	ASTM A500, GRADE C
STRUCTURAL STEEL PIPE	ASTM A53, GRADE B
BOLTS	ASTM A325
ANCHOR BOLTS	ASTM F1554, GRADE 36
WELDING ELECTRODE	ASTM E 70
WELDABLE REBAR	ASTM A706, GRADE 60

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION, AISC 360-10. 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. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.

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

4. FOR MISCELLANEOUS STEEL NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS.

5. PROVIDE LEVELING NUTS FOR ALL COLUMN BASE PLATES WITH FOUR (4) ANCHOR BOLTS AND PROVIDE 1 1/2" MINIMUM, 5000 PSI NON-SHRINK GROUT. PROVIDE TACK WELDED NUT AT THE BOTTOM OF THE ANCHOR BOLT EMBEDDED IN CONCRETE.

6. CONNECTIONS:

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH AISC 360-10. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF SIMPLE CONNECTIONS UNLESS OTHERWISE DETAILED.

CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE REACTIONS SHOWN ON THE CONTRACT DOCUMENTS. IF NO REACTIONS ARE GIVEN THEN PROVIDE CONNECTION FOR ONE HALF THE ALLOWABLE UNIFORM LOAD BEAM TABLES, PER THE AISC MANUAL, FOR THE SPAN INDICATED ON THE DRAWINGS. MINIMUM CONNECTION DESIGN LOAD IS 6 KIPS.

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". MINIMUM SHEAR PLATE IS 3/8".

IN ADDITION TO PROVIDING ADEQUATE BOLTS TO ACCOMMODATE REACTIONS, THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS SHALL BE USED:

MEMBER DEPTH	MINIMUM BOLT ROWS
10" or Less	2
12" to 14"	3
16" to 18"	4
21" to 24"	5
27" to 30"	6
Over 30"	7

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.

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.

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

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

9. 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.

10. 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. SHOP APPLIED PRIMER SHALL BE APPLIED TO ALL STRUCTURAL STEEL TO, UNLESS OTHER PROTECTIVE COATING IS INDICATED ON THE ARCHITECTURAL DRAWINGS.

21. ALL STEEL MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH PRESSURE TREATED LUMBER OR WOOD PRODUCTS IN THE COMPLETED CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

22. PROVIDE BITUMASTIC PROTECTION COATING FOR ALL STRUCTURAL STEEL BELOW GRADE.

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

25. PROVIDE AN ELEVATOR HOIST BEAM AT EACH ELEVATOR. THE BEAM SHALL BE A W8X31 MINIMUM. COORDINATE WITH THE ARCHITECTURAL DRAWINGS. THE BEARING PLATE ON MASONRY WALLS SHALL

ABBREVIATIONS

AC	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APROX	APPROXIMATE
AS	AIR SEPERATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CDR	CONDENSER WATER RETURN
CDS	CONDENSER WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
COND	CONDENSER
CONV	CONVECTOR
CP	CONDENSATE PUMP
CPU	CENTRAL PROCESSING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CV	CONSTANT VOLUME
D	DEPTH
DB	DRY BULB TEMPERATURE
dB	DECIBEL
DEG or °	DEGREE
DIA or Ø	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD RADIATION
EDR	EQUIVALENT DIRECT RADIATION
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE
GAL	GALLONS
GHWR	GLYCOL HOT WATER RETURN
GHWS	GLYCOL HOT WATER SUPPLY
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HEIGHT
H/C	HEATING/COOLING
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)

ABBREVIATIONS

HT	HEAT
HTHW	HIGH TEMPERATURE HOT WATER
HTHWR	HIGH TEMPERATURE HOT WATER RETURN
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
HTR	HEATER
HUM	HUMIDIFIER
HV	HEATING/VENTILATION UNIT
HW	HOT WATER
HWRP	HOT WATER RETURN PUMP
HWRR	HOT WATER REVERSE RETURN
HX	HEAT EXCHANGER
HZ	FREQUENCY (CYC, PER SEC.)
ID	INSIDE DIAMETER
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESS.)
IW	INDIRECT WASTE
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
N2	NITROGEN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PCD	PUMPED CONDENSATE DRAIN (COOLING)
PCR	PUMPED CONDENSATE RETURN (STEAM)
PD	PRESSURE DROP
PH or Ø	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RG	REFRIGERANT GAS
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RPD	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S&R	SUPPLY AND RETURN
SA	SUPPLY AIR
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
T'STAT	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTAGE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W	WIDTH
WB	WET BULB TEMPERATURE
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

HVAC SYMBOLS

	RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT
	AIR DUCT WITH ACOUSTICAL LINING
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	TURNING VANES
AD / AD	ACCESS DOOR
	FLEXIBLE DUCT CONNECTION
	CEILING SUPPLY DIFFUSERS
	CEILING RETURN / EXHAUST GRILLE
	HARD DUCTED DIFFUSER OR GRILLE WITH FULL SIZE BOTTOM TAKE-OFF
	DIRECTION OF SUPPLY OR OUTDOOR AIRFLOW
	DIRECTION OF RETURN OR EXHAUST AIRFLOW
	DOOR UNDERCUT
BDD	BACK DRAFT DAMPER
VD	VOLUME DAMPER
FD	FIRE DAMPER
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FS	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER SYSTEM AND ASSOCIATED DEVICES PER SPECIFICATIONS AND MEP DETAILS
M	MOTORIZED DAMPER
H	HUMIDIFIER TUBE/PANEL
XXX	SUPPLY PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
XXX	RETURN PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
DS	DUCT SMOKE DETECTOR WITH REMOTE INDICATING LIGHT AND TEST SWITCH
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
AFS	AIR FLOW STATION
SA	DUCT SOUND ATTENUATOR
T	ROOM THERMOSTAT
T	ROOM TEMPERATURE SENSOR
CO	CARBON MONOXIDE SENSOR
C	CARBON DIOXIDE SENSOR
H	HUMIDISTAT
	FINNED TUBE RADIATION
FM	FLOW METER
RC	VRF REMOTE CONTROL

FITTINGS AND VALVES

	BACKFLOW PREVENTOR
	STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	TAKEOFF FROM BOTTOM OF MAIN PIPE
	TAKEOFF FROM TOP OF MAIN PIPE
	IN-LINE EXPANSION COMPENSATOR
	PIPE ANCHOR
	COMPANION FLANGE
	PIPE CAP OR CAPPED END OF PIPE
	UNION
	PIPE GUIDES
	PUMP
	DIRECTION OF FLUID FLOW
	VALVE ON RISER
	VALVE ON DROP
	AIR VENT
	FLOW SENSOR
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALL VALVE
	CALIBRATED BALANCING VALVE
	SHUT-OFF VALVE (SEE SPECIFICATIONS FOR APPLICATION TYPE)
	BUTTERFLY VALVE
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	PRESSURE REDUCING VALVE
	TRIPLE DUTY VALVE
	OS&Y VALVE
	DRAIN VALVE WITH HOSE END, CAP & CHAIN OR WALL HYDRANT / HOSE BIBB
M	MOTORIZED BUTTERFLY VALVE
	PRESSURE RELIEF SAFETY VALVE
A	AQUASTAT
T	TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
T	TEMPERATURE GAUGE WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
	THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
P	PRESSURE GAUGE
P	PRESSURE SENSOR WITH SYPHON (STEAM)
	FLEXIBLE CONNECTOR

DUCT SIZING	
20x12	RECTANGULAR DUCT
20/12	FLAT OVAL DUCT
20"ø	ROUND DUCT

HVAC GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. INSTALL SMOKE DETECTORS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND GREATER.
11. PROVIDE SMOKE DAMPERS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 15,000 CFM AND GREATER.
12. PROVIDE SMOKE DAMPERS AND SMOKE DETECTORS AT DUCT PENETRATIONS OF SMOKE-BRRIERS, AND AT ELEVATOR SHAFT VENTS PER CODE REQUIREMENTS.
13. PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE-RATED CONSTRUCTION, INCLUDING WALLS, SHAFTS AND FLOOR PENETRATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
14. PROVIDE AN AUTOMATIC TEMPERATURE CONTROL SYSTEM COMPLETE IN ALL REGARDS. ALL ZONES, VAV'S AND SYSTEM SHALL BE THERMOSTATICALLY CONTROLLED. REVIEW THE PLANS AND SPECIFICATIONS OF ALL MEP TRADES FOR A COMPLETE SCOPE OF THE WORK.
15. PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE. TO MAXIMIZE HEAD ROOM, INSTALL PIPING TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM; INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM; PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS.
16. PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS INDICATED IN SPECIFICATIONS IN ADDITION TO THOSE INDICATED ON THE DOCUMENTS.
17. INSTALL ALL EQUIPMENT VALVES AS REQUIRED BY MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS AND AS DETAILED.
18. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.
19. PROVIDE PRESSURE RELIEF DOORS FOR AIR SYSTEMS, PER THE SPECIFICATIONS.
20. PROVIDE MOTORIZED DAMPERS AT ALL PERMANENT OPENINGS (EXHAUST, SUPPLY, RELIEF, O.A. INTAKES, MAKE-UP AIR, SMOKE VENTS, ETC.) EXCEPT DRYER, KITCHEN, AND FUME EXHAUST AND PROVIDE A MEANS TO CONTROL THE DAMPER OPERATION.
21. ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.
22. PROVIDE DUCT TAKE-OFF TYPES AND VOLUME DAMPERS PER THE SPECIFICATIONS AND DUCT TAKE-OFF DETAILS ON DRAWINGS. TAKE-OFFS SHOWN ON FLOOR PLANS DO NOT REPRESENT THE SPECIFIC TYPE OF TAKE-OFF REQUIRED; CONSULT THE DETAILS AND SPECIFICATIONS.
23. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, EXHAUST, AND RETURN BRANCH DUCTS.
24. COORDINATE AND VERIFY LOCATIONS OF ALL ITEMS REQUIRING ACCESS WITH ARCHITECT IN FIELD., INCLUDING VALVES, VOLUME DAMPERS, FIRE DAMPERS, ETC.
25. ALL EQUIPMENT LOCATED ON THE ROOF THAT REQUIRES SERVICING SHALL BE LOCATED A MINIMUM 10'-0" FROM EDGE OF THE ROOF.
26. ALL EXPOSED DUCTWORK SHALL BE FLAT, OVAL, OR ROUND. COORDINATE WITH ARCHITECT'S CEILING PLANS AND IDENTIFY ON DUCTWORK SHOP DRAWINGS.
27. ALL DUCTWORK AND PIPING CROSSING SEISMIC JOINTS SHALL ACCOMMODATE DIFFERENTIAL MOTION. REFER TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
28. ALL THERMOSTATS LOCATED ON OUTSIDE WALL SHALL HAVE INSULATED PAD BEHIND.
29. ALL MOTORIZED DAMPERS SHALL BE WIRED BY ATC CONTRACTOR, COORDINATE VOLTAGE REQUIREMENTS WITH EQUIPMENT.
30. ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.
31. ALL LOUVERS ARE SELECTED AND SCHEDULED BY ARCHITECT. LOUVER TAGS ARE SHOWN FOR COORDINATION ONLY.
32. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
33. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
MECHANICAL GENERAL INFORMATION

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As Indicated
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

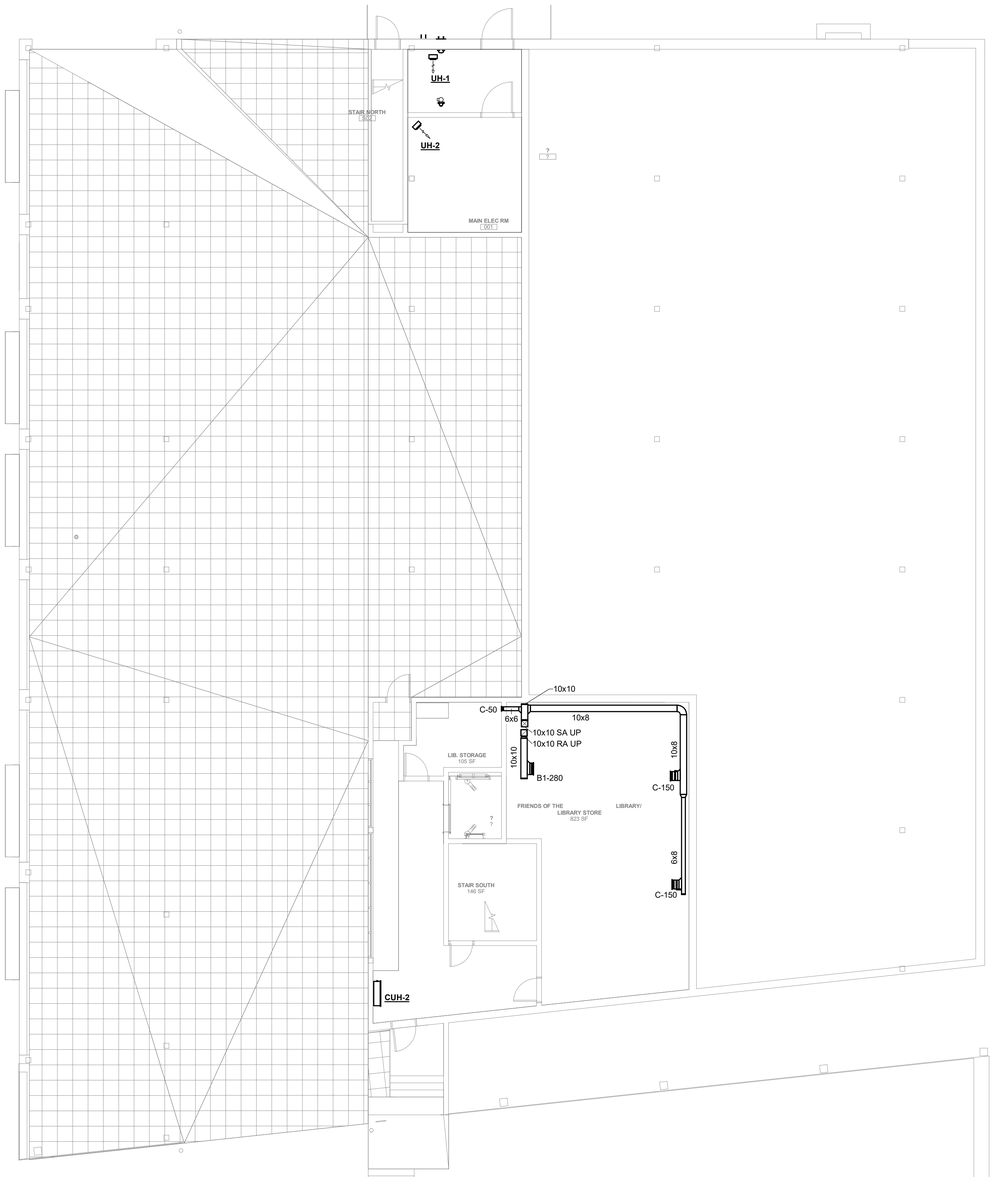
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10/7/2022 4:00:45 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt

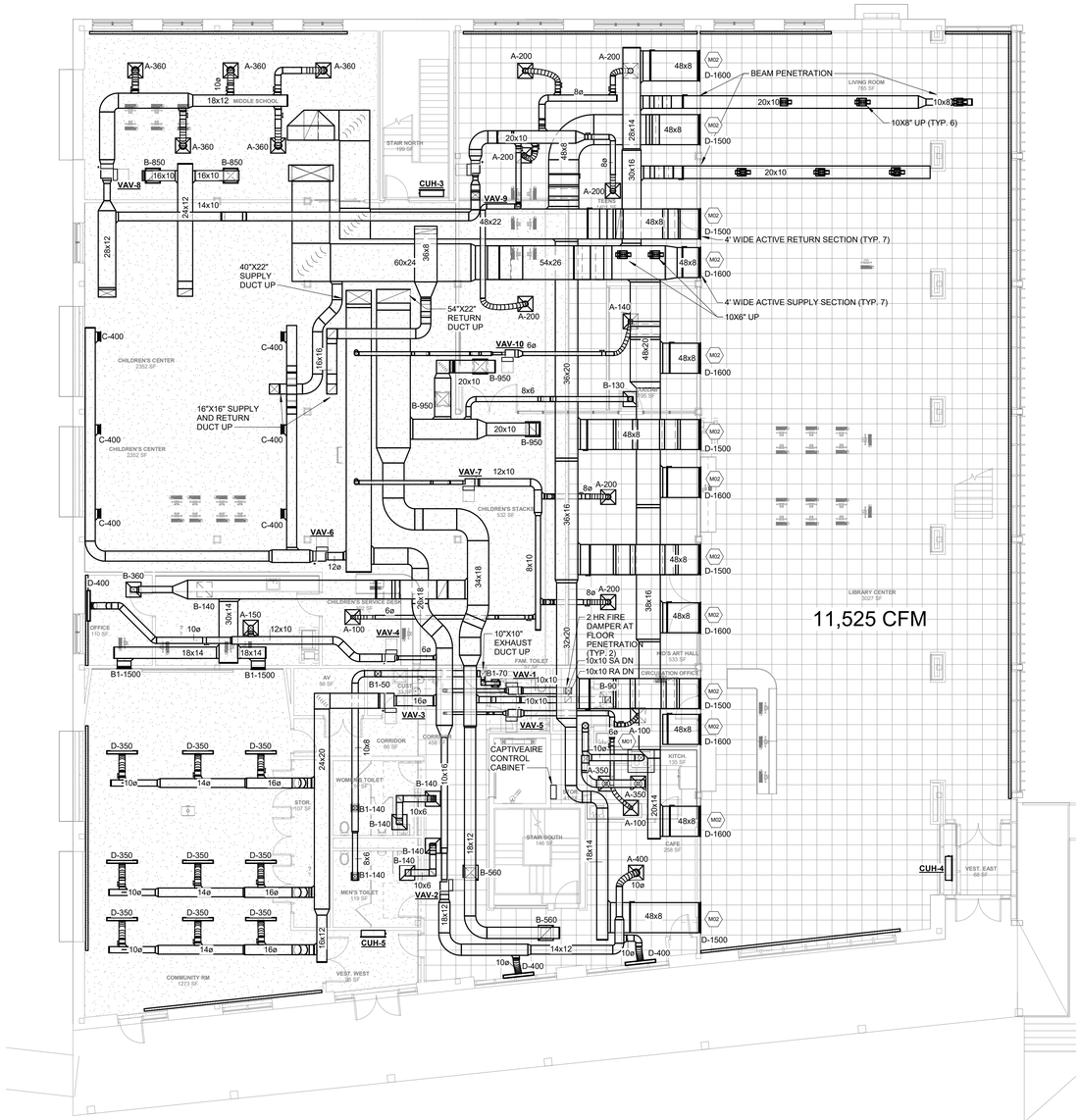
MECHANICAL KEYNOTES

M01 NEW CAPTIVEAIRE TPE 1 HOOD MODEL 3650 BD-2. HOOD SHALL BE CONSTRUCTED OF 430 SS AND WALL MOUNTED ABOVE RANGE. PROVIDE CONTROL PANEL, FIRE SUPRESSION, EXHAUST DUCTWORK AND ALL ASSOCIATED COMPONENTS.

M02 NEW CONTINUOUS TYPE 'D' LINEAR DIFFUSER. DIFFUSER SHALL RUN ENTIRE LENGTH OF LIBRARY CENTER. PROVIDE ALTERNATING 4' ACTIVE SECTIONS FOR SUPPLY AND RETURN. COORDINATE AROUND WINDOW FRAME SUPPORTS.



1 LOWER LEVEL MECHANICAL DUCT PLAN
1/8" = 1'-0"



2 FIRST FLOOR MECHANICAL DUCT PLAN
1/8" = 1'-0"

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

LOWER LEVEL AND FIRST FLOOR MECHANICAL DUCT PLAN

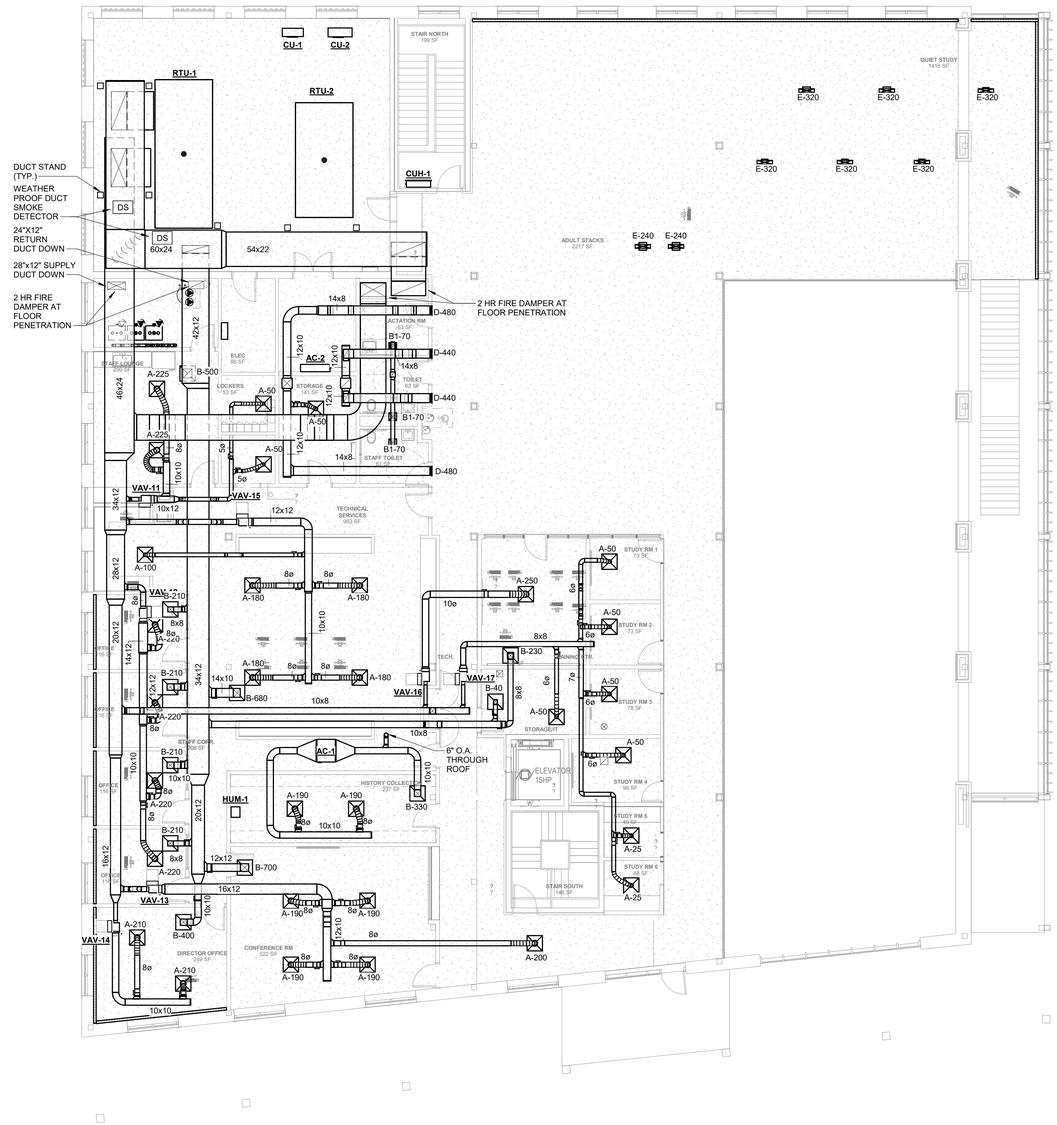
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PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/22
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ISSUE DATES

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M1.00

10/7/2022 4:00:47 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt



1 SECOND FLOOR MECHANICAL DUCT PLAN
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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

SECOND FLOOR AND ROOF MECHANICAL DUCT PLAN

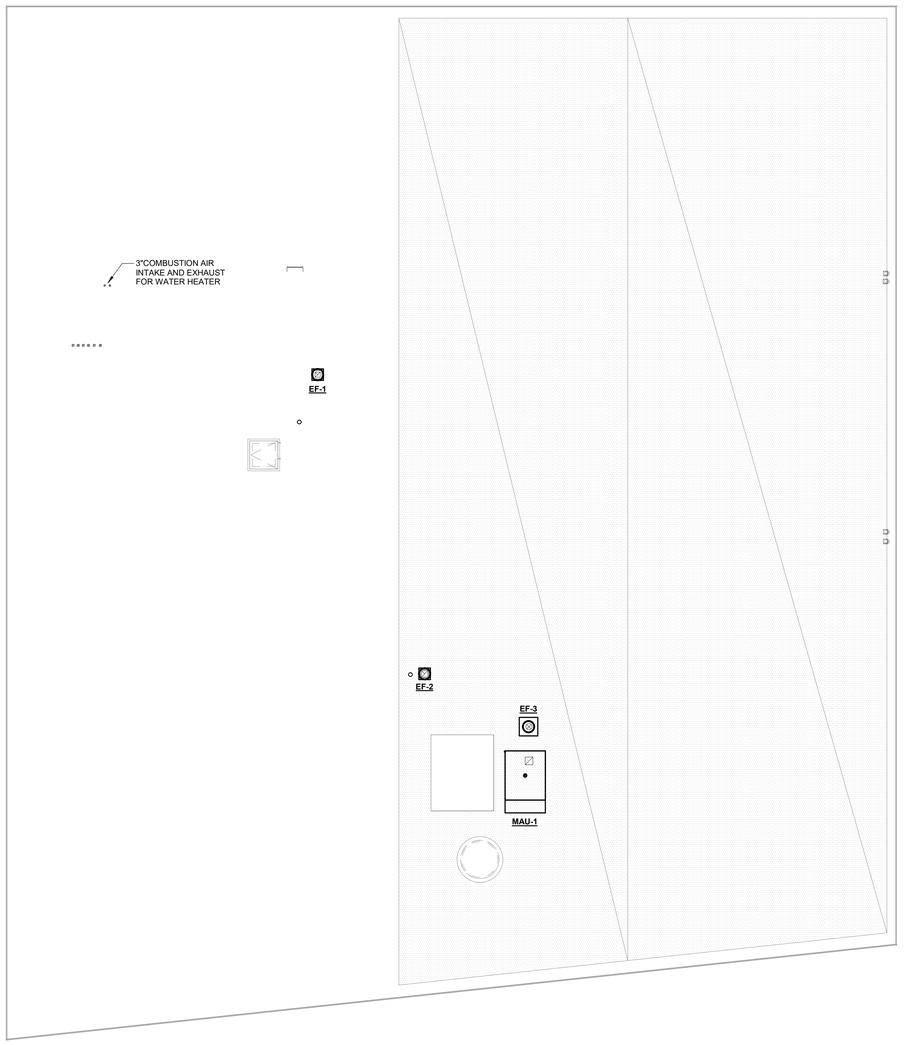
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PROJ. NO.	200802
SCALE	1/8" = 1'-0"
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ISSUE DATES

NO.	DATE	PURPOSE

M1.01

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1 MECHANICAL ROOF PLAN
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KEY PLAN

DRAWING TITLE
MECHANICAL ROOF PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

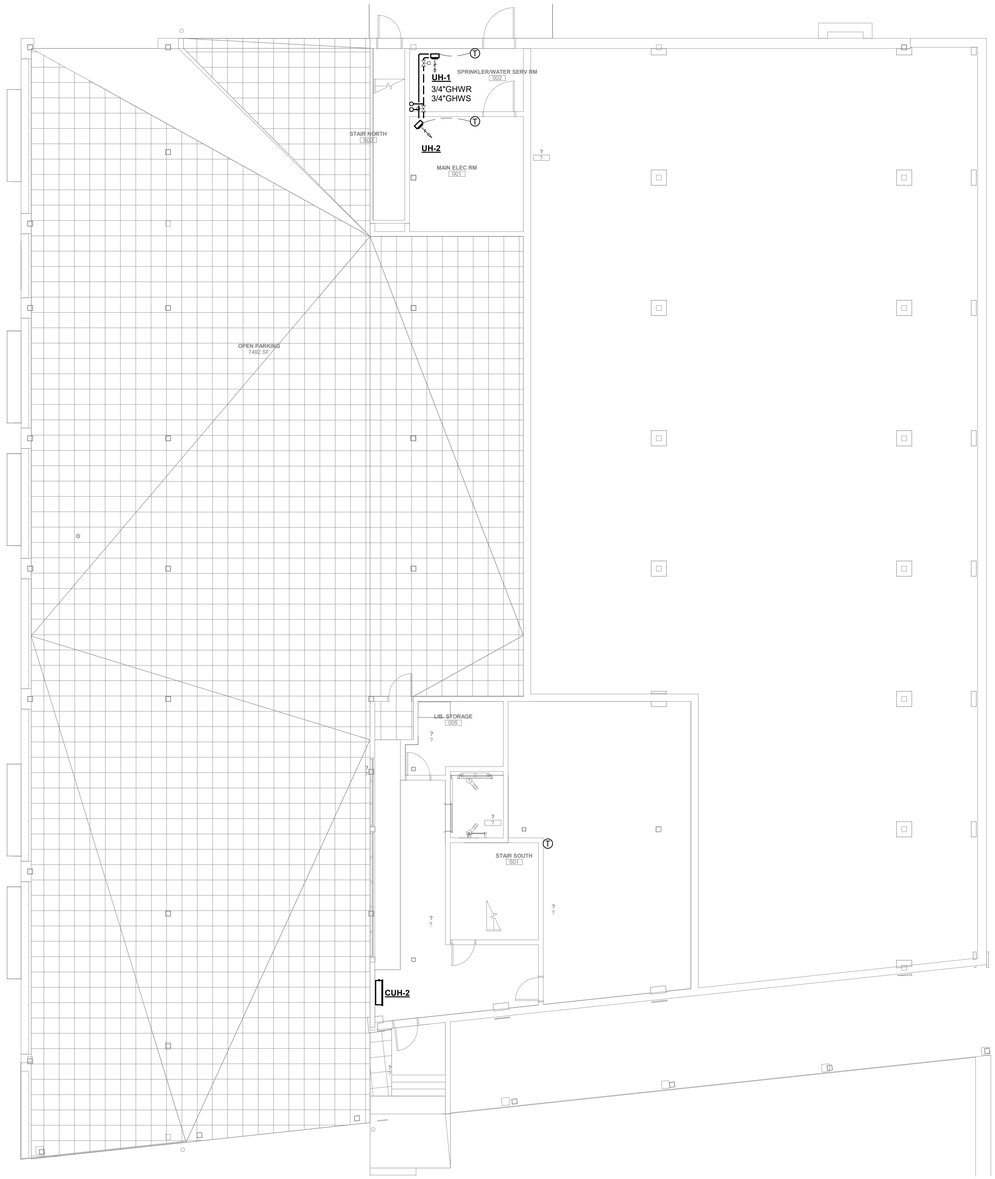
NO.	DATE	PURPOSE

M1.06

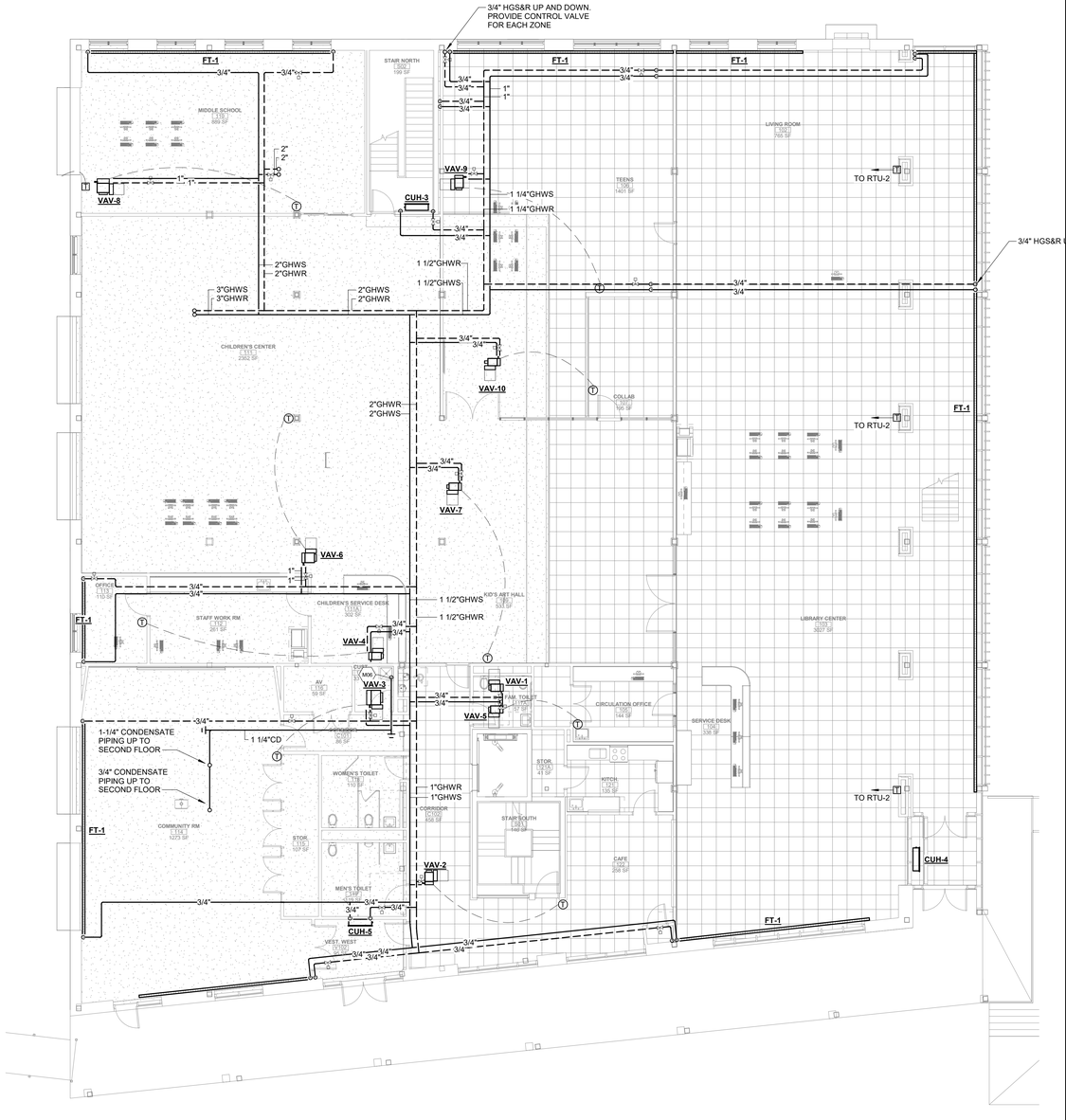
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MECHANICAL KEYNOTES

M06 1-1/4" CONDENSATE DISCHARGE TO TERMINATE 6" ABOVE JANITORS SINK



1 LOWER LEVEL MECHANICAL PIPE PLAN
1/8" = 1'-0"



2 FIRST FLOOR MECHANICAL PIPE PLAN
1/8" = 1'-0"

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PROJECT
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KEY PLAN

DRAWING TITLE

LOWER LEVEL AND FIRST FLOOR MECHANICAL PIPE PLAN

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
DATE	10/07/22
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ISSUE DATES

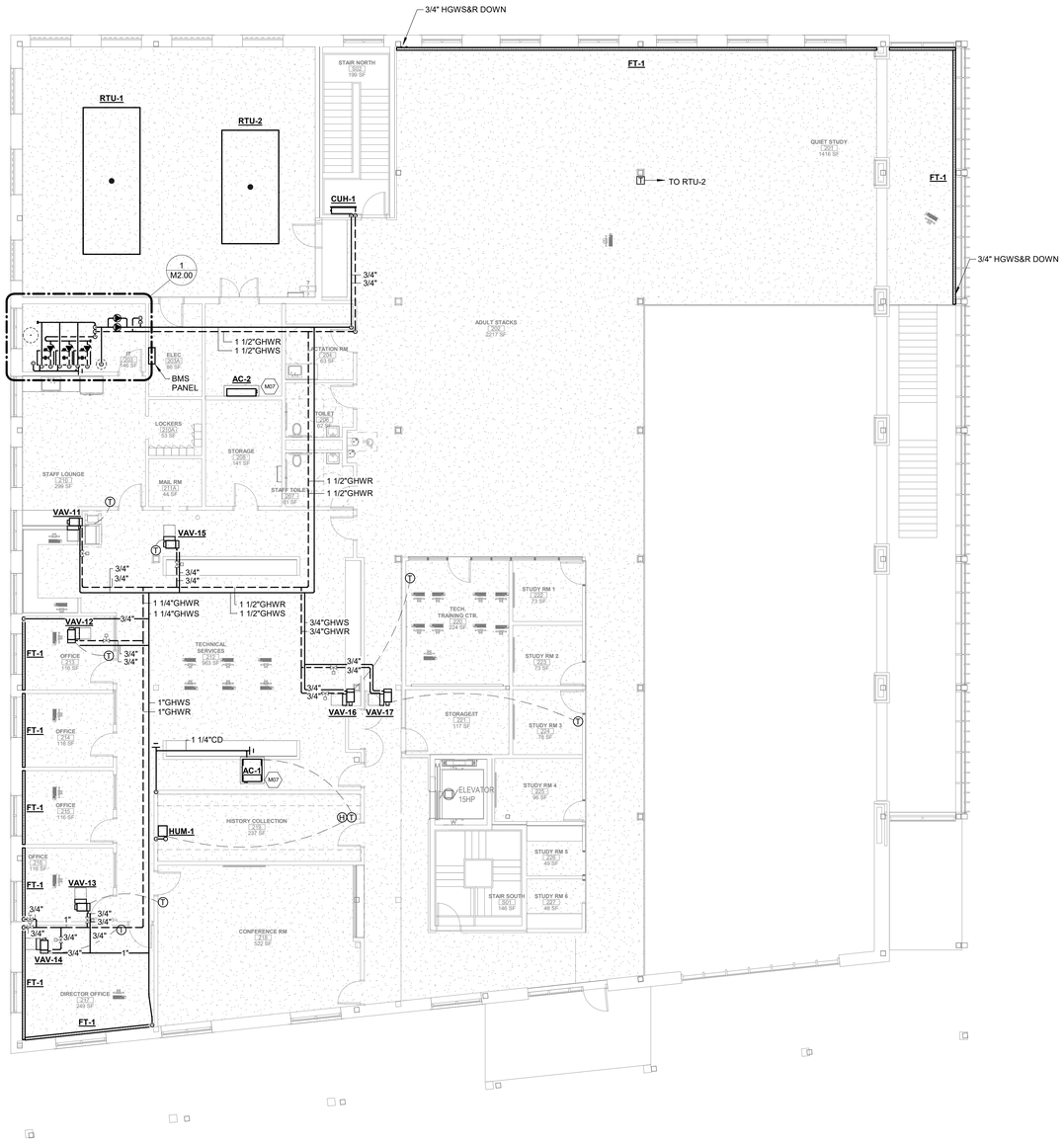
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MP1.00

10/7/2022 4:00:53 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt

MECHANICAL KEYNOTES

M07 PROVIDE SECONDARY DRAIN PAN WITH LEAK DETECTION



1 SECOND FLOOR MECHANICAL PIPE PLAN
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SECOND FLOOR
MECHANICAL PIPE PLAN

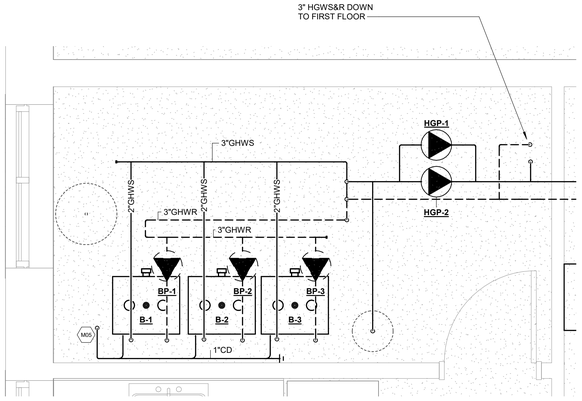
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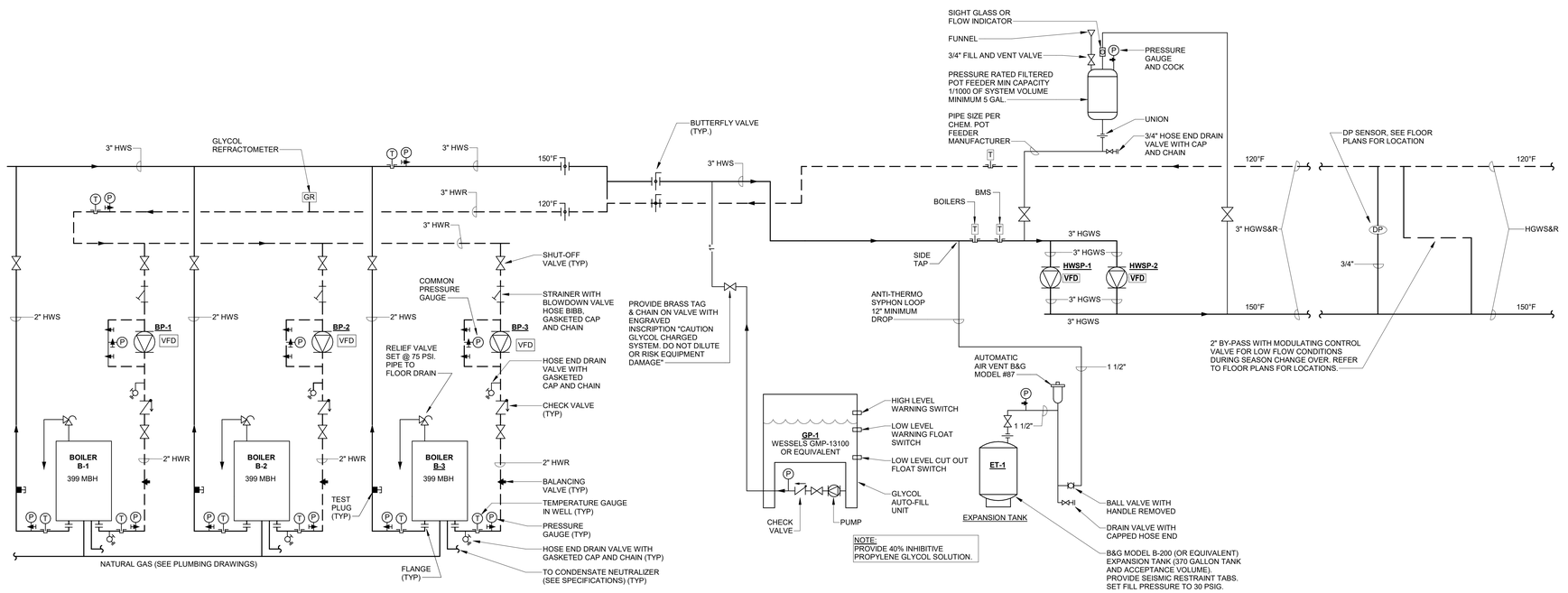
NO.	DATE	PURPOSE

MP1.01

10/7/2022 4:00:54 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-380A Bloomfield Libraries-Prosser.rvt



1 BOILER ROOM MECHANICAL PIPING PLAN
1/2" = 1'-0"



2 HOT WATER SYSTEM PIPING DIAGRAM
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KEY PLAN

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MECHANICAL PART PLAN AND ONE LINE DIAGRAMS

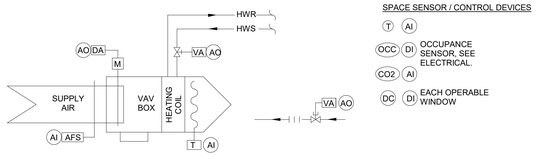
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PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
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ISSUE DATES

NO.	DATE	PURPOSE

M2.00

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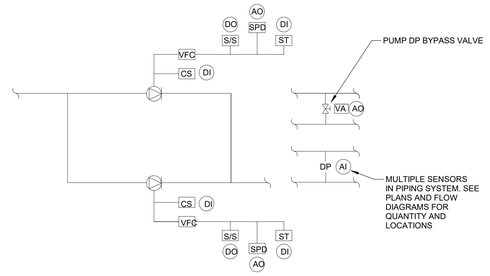
SUPPLY AIR BOX RADIATION

SPACE SENSOR / CONTROL DEVICES

- T AI
- OCC DI — OCCUPANCE SENSOR, SEE ELECTRICAL.
- CO2 AI
- DC DI — EACH OPERABLE WINDOW

1. SEQUENCE OF OPERATION
   - A. OCCUPIED/UNOCCUPIED MODE CONTROL SHALL BE AS SCHEDULED THROUGH THE HEAD END FOR THE ASSOCIATED AIR SYSTEM. THE SPACE SHALL GO TO UNOCCUPIED MODE AUTOMATICALLY IF THE OCCUPANCY SENSOR INDICATES AN UNOCCUPIED CONDITION FOR MORE THAN 30 MINUTES (ADJ). SPACE SENSOR SHALL HAVE AN OVERRIDE SWITCH THAT WILL PUT THE ZONE INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ.)
   - B. THE DAMPER SHALL MODULATE BETWEEN MAX AND MIN AIRFLOW SET POINTS TO SATISFY SPACE OCC/UNOC TEMPERATURE SET POINT.
   - C. MIN AIRFLOW SET POINT SHALL BE RESET UP FROM DESIGN MINIMUM BASED ON THE HIGHER REQUIREMENT OF EITHER HEATING NEED OR CARBON DIOXIDE LEVEL.
   - D. WHEN THE DAMPER IS AT ITS MINIMUM POSITION ON A FURTHER DROP IN TEMPERATURE THE NORMALLY OPEN REHEAT VALVE SHALL MODULATE TO MAINTAIN OCC/UNOC SET POINT, SUBJECT TO A MAXIMUM DISCHARGE AIR TEMPERATURE OF 85° F (ADJ.)
   - E. WHEN THE DISCHARGE AIR TEMPERATURE HAS REACHED 85° F (ADJ.), ON A FURTHER DROP IN TEMPERATURE THE NORMALLY OPEN RADIATION VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE
   - F. WHEN THE RADIATION VALVE IS FULLY OPEN ON A FURTHER DECREASE IN TEMPERATURE THE REHEAT VALVE SHALL MAINTAIN DISCHARGE AIR TEMPERATURE AND THE MINIMUM BOX AIRFLOW SET POINT SHALL BE RESET HIGHER TO MAINTAIN SPACE TEMPERATURE
   - G. WHEN THE SPACE CARBON DIOXIDE LEVEL EXCEEDS THE SET POINT THE MINIMUM BOX AIRFLOW SET POINT SHALL BE RESET HIGHER.
   - H. ZONES BOXES THAT ARE UTILIZED FOR EMERGENCY CONDITION SUPPLY AIR SHALL HAVE THE VALVE AND DAMPER GO TO FULL OPEN POSITION DURING THESE MODES. COORDINATE WITH OTHER SEQUENCES
   - I. WHEREVER OPERABLE WINDOWS ARE PRESENT IN A ZONE, THE SUPPLY AIR FLOW IN THE ZONE WILL BE SET TO ZERO AND THE HEATING VALVE(S) WILL CLOSE WHENEVER ANY WINDOW IS OPENED, SUBJECT TO A SPACE MINIMUM TEMPERATURE OF 40° F (ADJ.)
2. ALARMS
   - A. HIGH SPACE TEMPERATURE (10 MINUTE DELAY)
   - B. LOW SPACE TEMPERATURE (10 MINUTE DELAY)
   - C. HIGH SPACE CARBON DIOXIDE LEVEL (10 MINUTE DELAY)
   - D. LOW AIR FLOW
   - E. WINDOW OPEN DURING UNOCCUPIED MODE
3. GRAPHICS
   - A. ALARM CONDITION
   - B. OCCUPIED/UNOCCUPIED MODE
   - C. SPACE TEMPERATURE
   - D. REHEAT VALVE COMMAND PERCENTAGE
   - E. RADIATION HEATING VALVE COMMAND PERCENTAGE
   - F. DAMPER COMMAND PERCENTAGE
   - G. DISCHARGE AIR TEMPERATURE
   - H. SPACE CARBON DIOXIDE LEVEL
   - I. ROOM OCCUPANCY SENSOR
   - J. SUPPLY AIR FLOW

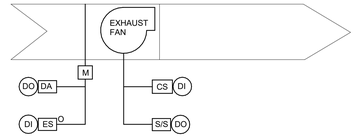
1 VAV BOX WITH REHEAT COIL & BASEBOARD RADITION
NTS



VARIABLE SPEED LEAD/LAD PUMP CONTROL

1. SEQUENCE OF OPERATION
   - A. HEATING PUMPS SHALL BE ENABLED YEAR ROUND. WHENEVER AT LEAST ONE HEATING VALVE IS COMMANDED TO ANY OPEN PERCENTAGE. WHEN ALL BUILDING HEATING VALVES ARE COMMANDED CLOSED THE SYSTEM SHALL BE DISABLED.
   - B. THE LEAD PUMP SHALL BE SELECTED SWITCHING QUARTERLY
   - C. UPON FAILURE OF THE LEAD PUMP AS SENSED BY THE CURRENT TRANSFORMERS OR FAILURE OF THE DRIVE IT SHALL SHUT DOWN AND THE LAG PUMP SHALL START AUTOMATICALLY.
   - D. PUMP SPEED SHALL BE VARIED AS REQUIRED TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE. IF MULTIPLE DIFFERENTIAL PRESSURE TRANSMITTERS ARE USED IN THE SYSTEM THE LOWEST CONSTANTLY POLLED PRESSURE SHALL BE USED.
   - E. WHENEVER THE VFC IS AT MINIMUM SPEED AND ALL DIFFERENTIAL PRESSURE SENSORS ARE ABOVE SET POINT THE BY-PASS VALVE SHALL MODULATE OPEN TO MAINTAIN SET POINT AT THE LOWEST SENSOR.
2. ALARMS
   - A. PUMP FAILURE
   - B. DRIVE FAILURE
   - C. SYSTEM FAILURE (BOTH PUMPS NOT RUNNING)
3. GRAPHICS
   - A. ALARM CONDITIONS
   - B. SPEED COMMAND PERCENTAGE
   - C. PUMP STATUSES
   - D. SYSTEM DIFFERENTIAL PRESSURE(S)
   - E. MANUAL LEAD/LAG SELECTION
   - F. MANUAL SYSTEM ENABLE / DISABLE
   - G. BYPASS VALVE COMMAND PERCENTAGE

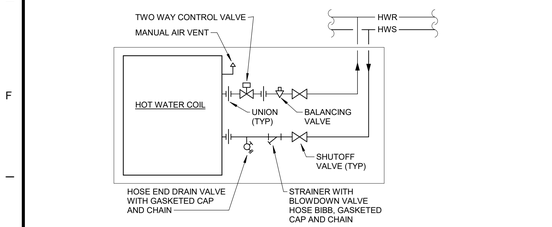
2 VARIABLE SPEED LEAD - LAG PUMP CONTROL
NTS



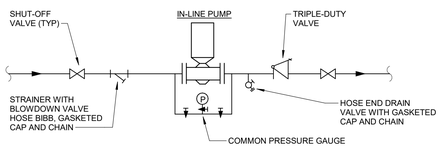
TOILET EXHAUST FANS

1. SEQUENCE OF OPERATION
   - A. OCCUPIED/UNOCCUPIED MODE CONTROL SHALL BE AS SCHEDULES THROUGH THE HEAD END FOR THE ASSOCIATED AIR SYSTEM
   - B. DURING UNOCCUPIED TIMES THE FAN SHALL REMAIN OFF AND THE ISOLATION DAMPER SHALL REMAIN CLOSED. AN END SWITCH SHALL INDICATE THE DAMPER IS CLOSED
   - C. DURING OCCUPIED TIMES THE DAMPER FULLY OPEN. SUBJECT TO THE END SWITCH OPENING THE FAN SHALL START AND RUN CONTINUOUSLY.
   - D. EMERGENCY SHUTDOWN COMMAND FROM BUILDING FIRE ALARM SYSTEM FOR BOTH ALARM CONDITION IN ACCORDANCE WITH AHJ AND OWNERS REQUIREMENTS AND FOR A MANUAL EMEERGENCY SHUTDOWN COMMAND FOR FANS 2,000 CFM AND GREATER
2. ALARMS
   - A. DAMPER FAILURE
   - B. FAN FAILURE
3. GRAPHICS
   - A. ALARM CONDITION
   - B. OCCUPIED/UNOCCUPIED MODE
   - C. DAMPER OPEN/CLOSED POSITION
   - D. FAN STATUS

3 EXHAUST FAN CONTROL #1 (TOILET)
NTS

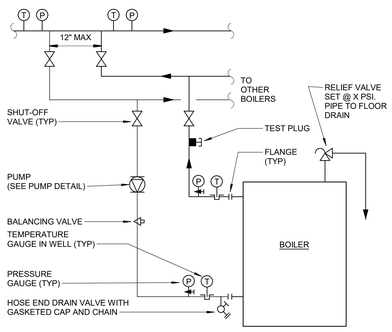


4 CABINET UNIT HEATER PIPING DETAIL
NTS



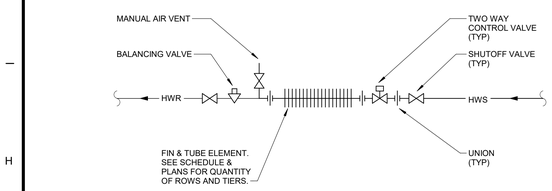
NOTE:
PROVIDE SUCTION DIFFUSER ON LARGE VERTICAL IN-LINE PUMPS.

7 IN-LINE PUMP DETAIL
NTS



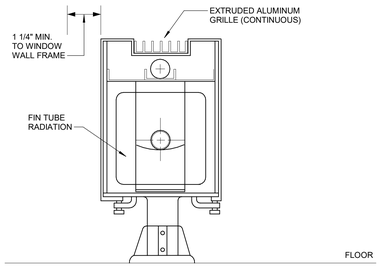
DESIGNER NOTE:
DO NOT USE FOR FIRETUBE, STEAM.

9 TYPICAL MULTIPLE HYDRONIC BOILER PIPING DETAIL
NTS

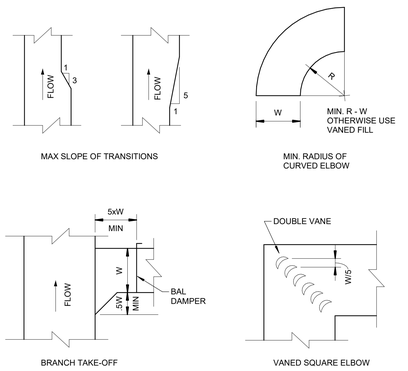


NOTE:
DETAIL IS DIAGRAMMATIC WITH SINGLE TIER/ROW ELEMENT SHOWN. PIPE FIN. AND TUBE ELEMENTS " IN SERIES" FOR ALL MULTIPLE ROW AND MULTIPLE TIER CONFIGURATIONS TO MAXIMZE TUBE VELOCITY AND HEAT TRANSFER. SUPPLY TO TIER ELEMENTS FIRST.

5 HOT WATER RADIATION PIPING DETAIL
NTS

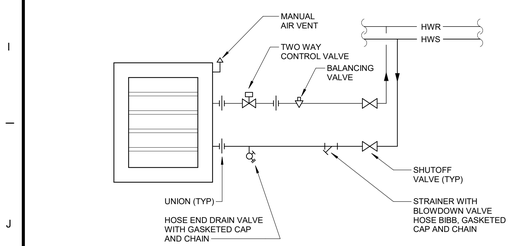


8 PEDSTAL RADIATION DETAIL
NTS



MAX SLOPE OF TRANSITIONS
MIN. RADIUS OF CURVED ELBOW
BRANCH TAKE-OFF
VANED SQUARE ELBOW

10 DUCT CONSTRUCTION DETAIL
NTS



6 HOT WATER UNIT HEATER PIPING DETAIL
NTS

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
MECHANICAL DETAILS

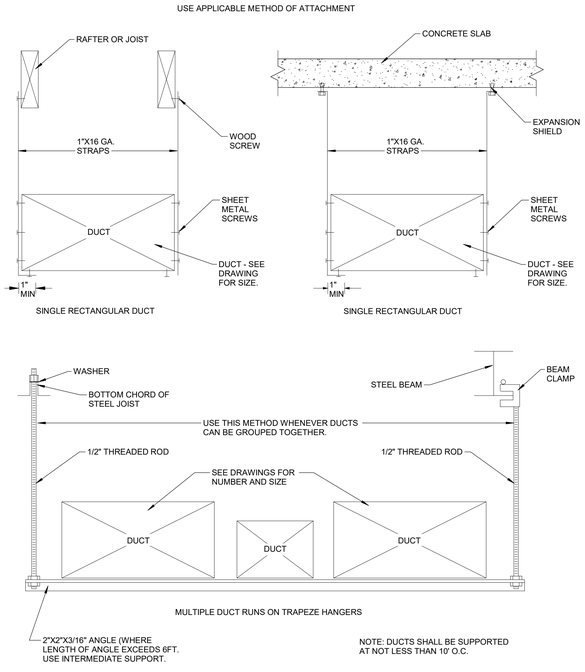
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DATE	10/07/22
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APPROVED BY	BJZ

ISSUE DATES

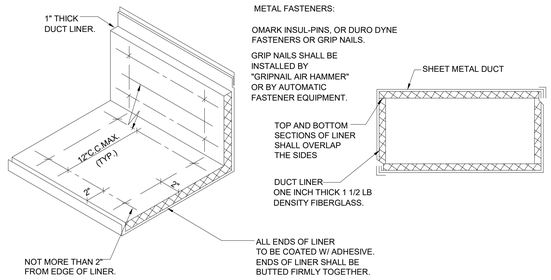
NO.	DATE	PURPOSE

M3.00

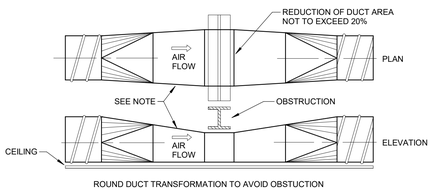
10/7/2022 4:00:50 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt



1 DUCT INSTALLATION DETAIL
NTS

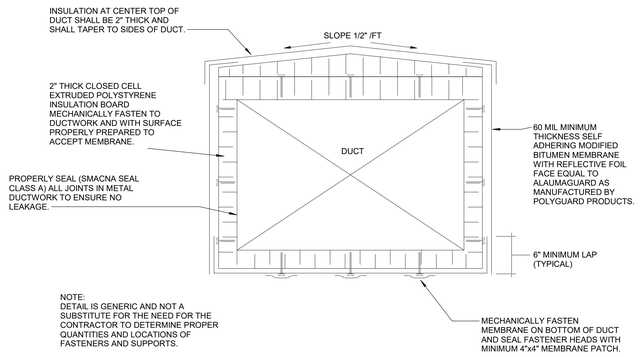


2 DUCT LINER DETAIL
12" = 1'-0"

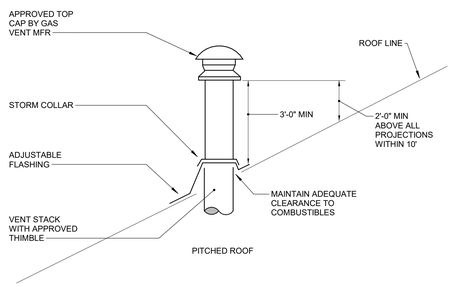


NOTES:
- 1:7 SLOPE FOR HIGH VELOCITY
- 1:4 SLOPE FOR LOW VELOCITY

3 DUCT OBSTRUCTION TRANSFORMATION DETAILS
NTS



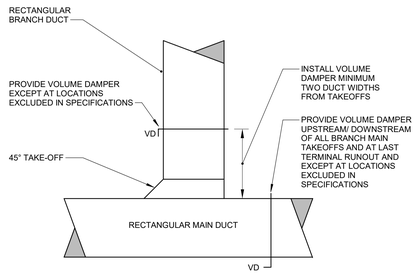
4 EXTERIOR DUCT INSULATION DETAIL
12" = 1'-0"



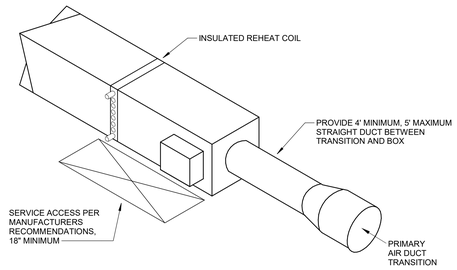
NOTES:

1. THIS DETAIL IS FOR GUIDANCE ONLY. IN ALL CASES, GAS VENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH AA CODES OF THE GAS VENT MANUFACTURER.
2. PROVIDE ALL REQUIRED BRACING AND SUPPORT AS REQUIRED BY THE GAS VENT MANUFACTURER.

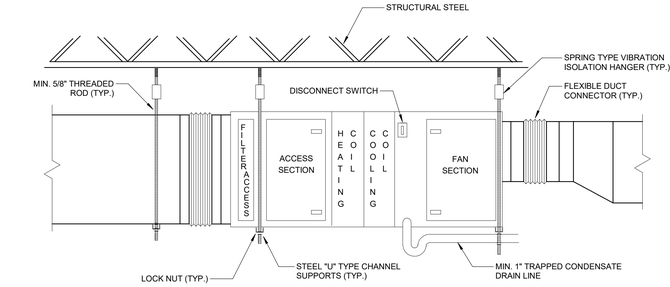
5 GAS VENT TERMINATION DETAIL
NTS



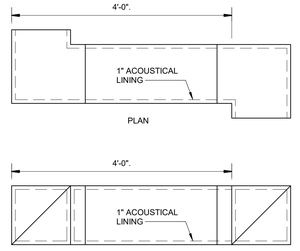
6 RECTANGULAR BRANCH TAKEOFF DETAIL
NTS



7 SHUTOFF VAV BOX
NTS

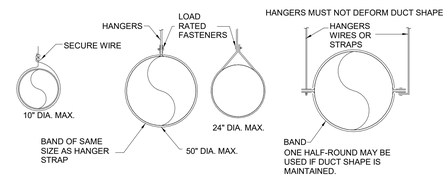


8 STRUCTURE HUNG AIR HANDLING UNIT
NTS



NOTE:
TRANSFER AIR DUCT OPENING SHALL BE EQUAL TO 1 SQ. FT. PER 500 CFM OF SYSTEM AIR. DUCT TO BE A MINIMUM OF 4'-0" LONG, WITH 1" OF ACOUSTICAL LINING. MINIMUM OPENING 1 SQ. FT.

9 TRANSFER AIR DUCT
NTS



MINIMUM HANGER SIZES FOR ROUND DUCT

DIA.	MAXIMUM SPACING	WIRE DIA.	STRAP
10" dn	12'	One 12 ga.	1" x 22 ga.
11-18"	12'	Two 12 ga. or One 8 ga.	1" x 22 ga.
19-24"	12'	Two 10 ga.	1" x 22 ga.
25-36"	12'	Two 8 ga.	1" x 20 ga.
37-50"	12'	〃	Two 1" x 20 ga.
51-60"	12'	〃	Two 1" x 18 ga.
61-84"	12'	〃	Two 1" x 16 ga.

FOR ADDITIONAL INFORMATION REFER TO THE LATEST EDITION OF SMACNA

10 TYPICAL ROUND DUCT HANGER DETAIL
12" = 1'-0"

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MECHANICAL DETAILS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	12" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M3.01

10/7/2022 4:00:51 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt

ROOFTOP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	OUTSIDE AIRFLOW MAX (CFM)	OUTSIDE AIRFLOW MIN (CFM)	FANS SUPPLY FLOW (CFM)	FANS SUPPLY ESP (in-wg)	FANS SUPPLY TSP (in-wg)	FANS SUPPLY QTY	FANS SUPPLY POWER (hp)	FANS SUPPLY RPM	SOUND POWER LEVEL (db) DISCHARGE/INLET/RADIATED 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	EFFICIENCY SEER	EER	IEER	COP	ELECTRICAL DATA MCA	MOCP	VOLT	PH	REMARKS
RTU-1	TRANE	TCD600CE0	HORIZONTAL	3880	0	14900	3.5	4.64	1	20	736									0	0	0	0	0 A	0 A	208 V	3	
RTU-2	TRANE	TCD420CE0	VERTICAL	3000	0	14400	3	4.14	1	20	868									0	0	0	0	0 A	0 A	208 V	3	

TAG	DIX COOLING COIL COOLING COIL CAPACITY (Btu/h) TOTAL	SENSIBLE	AIRSIDE FLOW (CFM)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	FV (FPM)	PD (in-wg)	ROWS	HEATING CAPACITY (Btu/h)	AIRSIDE FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	REFRIGERANT CONNECTION LINE SIZE LIQUID	VAPOR	HEATING WATER COIL CAPACITY (Btu/h)	AIRSIDE FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	PD (in-wg)	ROWS	WATERSIDE FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)
RTU-1	397,880	391,800	14,900	0	0	0	0	0	0	0	0	0	0	0	0"	0"	0	0	0	0	0	0	0	0	0	0
RTU-2	397,880	391,800	14,400	78.3	61.6	55	52.5	0	0	0	455,184	14,440	56	85	0"	0"	455,184	14,400	56	85	0	0	32	150	120	5.03

GAS-FIRED BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GAS BURNER INPUT (BTUH)	OUTPUT (BTUH)	TURN DOWN RATIO	FUEL TYPE	PIPE PRESSURE (in-wg) MIN	MAX	WATERSIDE FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)	VOL (gal)	AFUE (%)	THERMAL EFF (%)	INLET DIAMETER	FLUE DIAMETER	ELECTRICAL DATA FLA	VOLT	PH	REMARKS
B-1	LOCHINVAR	FTX400	FLOOR	399,999	392,000	10:1	NATURAL GAS	4	14	30	150	120	0	0	0	0	4"	4"	0 A	120 V	1	
B-2	LOCHINVAR	FTX400	FLOOR	399,999	392,000	10:1	NATURAL GAS	4	14	30	150	120	0	0	0	0	4"	4"	0 A	120 V	1	
B-3	LOCHINVAR	FTX400	FLOOR	399,999	392,000	10:1	NATURAL GAS	4	14	30	150	120	0	0	0	0	4"	4"	0 A	120 V	1	

UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	FAN FLOW (CFM)	MOTOR QTY	MOTOR RPM	MOTOR HP	HEATING COIL AIRSIDE CAPACITY (Btu/h)	AIRSIDE EAT(db) (°F)	AIRSIDE LAT(db) (°F)	WATERSIDE FLOW (GPM)	WATERSIDE EWT (°F)	WATERSIDE LWT (°F)	WATERSIDE PD (psi)	ELECTRICAL DATA VOLT	PH	REMARKS
UH-1	MODINE	HSB 18	HORIZONTAL	340	1	1550	0.02	7418.0	60.0	93.0	1.30	150.0	120.0	0.50	115 V	1	
UH-2	MODINE	HSB 18	HORIZONTAL	340	1	1550	0.02	7418.0	60.0	93.0	1.30	150.0	120.0	0.50	115 V	1	

CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	FAN FLOW (CFM)	MOTOR QTY	MOTOR POWER (hp)	MOTOR RPM	HEATING COIL AIRSIDE CAPACITY (BTUH)	AIRSIDE EAT(db) (°F)	AIRSIDE LAT(db) (°F)	WATERSIDE FLOW (GPM)	WATERSIDE EWT (°F)	WATERSIDE LWT (°F)	WATERSIDE PD (PSI)	SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA VOLT	PH	REMARKS
CUH-1	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	4828	60.0	110.0	0.50	150.0	115.0	0.1	0	115 V	1	
CUH-2	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	4828	60.0	110.0	0.50	150.0	115.0	0.1	0	115 V	1	
CUH-3	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	4828	60.0	110.0	0.50	150.0	115.0	0.1	0	115 V	1	
CUH-4	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	4828	60.0	110.0	0.50	150.0	115.0	0.1	0	115 V	1	
CUH-5	MODINE	CW00206	FLOOR MOUNT	150	1	0	0	4828	60.0	110.0	0.50	150.0	115.0	0.1	0	115 V	1	

SPLIT SYSTEM FAN COIL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	AIRFLOW SUPPLY (CFM)	AIRFLOW OUTSIDE (CFM)	COIL CAPACITY COOLING (Btu/h)	COIL CAPACITY HEATING (Btu/h)	SOUND PRESS LEVEL LOW (dBA)	SOUND PRESS LEVEL MID (dBA)	SOUND PRESS LEVEL HIGH (dBA)	ELECTRICAL DATA MCA	MOCP	VOLT	PH	REMARKS
AC-1	MITSUBISHI	TPEADA0121AA70A	DUCTED	1201	120	12,000	18,000	28	30	34	3.3 A	0 A	208 V	1	1,2
AC-2	MITSUBISHI	TPKA0A0241KA70A	WALL MOUNT	775	0	24,000	28,000	39	42	45	0 A	0 A	208 V	1	

SPLIT SYSTEM CONDENSING UNIT/HEAT PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	CAPACITY (Btu/h)	COMPRESSOR QTY	COMPRESSOR # OF CIRCUITS	COMPRESSOR # OF STAGES	SEER	EER	MCA	MOCP	VOLT	PH	REMARKS
CU-1	MITSUBISHI	NTXSKH12A112AA	12,000	1	1	1	0	0	0 A	15 A	208 V	1	
CU-2	MITSUBISHI	TRUZH0241HA10NA	24,000	1	1	1	0	0	0 A	15 A	208 V	1	

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	PUMP TYPE	FLOW (GPM) DESIGN	FLOW (GPM) MIN	HEAD (FT)	DRIVE TYPE	MOTOR QTY	MOTOR HP	MOTOR POWER WATTS	MOTOR RPM	ELECTRICAL DATA VOLT	PH	REMARKS
BP-1	B&G	XL 36-45	INLINE	ECM	30	0	10.0	ECM	0	0	0	0	120 V	1	
BP-2	B&G	XL 36-45	INLINE	ECM	30	0	10.0	ECM	0	0	0	0	120 V	1	
BP-3	B&G	XL 36-45	INLINE	ECM	30	0	10.0	ECM	0	0	0	0	120 V	1	
HGP-1	B&G	XL 70-145	INLINE	ECM	80	0	42.0	ECM	0	0	0	0	120 V	1	
HGP-2	B&G	XL 70-145	INLINE	ECM	80	0	42.0	ECM	0	0	0	0	120 V	1	

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	PRIMARY AIRFLOW MAX (CFM)	PRIMARY AIRFLOW MIN (CFM)	HEATING COIL CAPACITY (Btu/h)	AIRSIDE FLOW (CFM)	AIRSIDE EAT(db) (°F)	AIRSIDE LAT(db) (°F)	AIRSIDE PD (in-wg)	AIRSIDE ROWS	WATERSIDE FLOW (GPM)	WATERSIDE EWT (°F)	WATERSIDE LWT (°F)	WATERSIDE PD (FT)	REMARKS
VAV-1	TITUS	DESV-5	350	105	15097.2	350	55.0	95.0	0.00	1	1.60	150.0	130.0	0.00	
VAV-2	TITUS	DESV-9	1200	360	51761.9	1200	55.0	95.0	0.00	1	5.20	150.0	130.0	0.00	
VAV-3	TITUS	DESV-16	3150	945	135875.0	3150	55.0	95.0	0.00	1	13.60	150.0	130.0	0.00	
VAV-4	TITUS	DESV-6	550	165	23724.2	550	55.0	95.0	0.00	1	2.40	150.0	130.0	0.00	
VAV-5	TITUS	DESV-4	200	60	8627.0	200	55.0	95.0	0.00	1	0.90	150.0	130.0	0.00	
VAV-6	TITUS	DESV-12	1600	480	69015.9	1600	55.0	95.0	0.00	1	7.00	150.0	130.0	0.00	
VAV-7	TITUS	DESV-6	500	150	21567.5	500	55.0	95.0	0.00	1	2.20	150.0	130.0	0.00	
VAV-8	TITUS	DESV-10	1800	540	77642.8	1800	55.0	95.0	0.00	1	7.80	150.0	130.0	0.00	
VAV-9	TITUS	DESV-8	1000	300	43134.9	1000	55.0	95.0	0.00	1	4.40	150.0	130.0	0.00	
VAV-10	TITUS	DESV-4	140	45	6038.9	140	55.0	95.0	0.00	1	0.70	150.0	130.0	0.00	
VAV-11	TITUS	DESV-6	550	165	23724.2	550	55.0	95.0	0.00	1	2.40	150.0	130.0	0.00	
VAV-12	TITUS	DESV-8	880	265	37958.7	880	55.0	95.0	0.00	1	3.80	150.0	130.0	0.00	
VAV-13	TITUS	DESV-8	960	290	41409.5	960	55.0	95.0	0.00	1	4.20	150.0	130.0	0.00	
VAV-14	TITUS	DESV-6	420	130	18116.7	420	55.0	95.0	0.00	1	1.90	150.0	130.0	0.00	
VAV-15	TITUS	DESV-8	820	250	35370.6	820	55.0	95.0	0.00	1	3.60	150.0	130.0	0.00	
VAV-16	TITUS	DESV-5	250	75	10783.7	250	55.0	95.0	0.00	1	1.10	150.0	130.0	0.00	
VAV-17	TITUS	DESV-5	300	90	12940.5	300	55.0	95.0	0.00	1	1.30	150.0	130.0	0.00	

STEAM HUMIDIFIER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	CAPACITY (LBS/HR)	WATTS	ELECTRICAL DATA FLA	VOLTS	PH	REMARKS
HUM-1	CONDAIR	EL-005	5	1,872	15.6 A	120 V	1	1

NOTES:
1. PROVIDE OPTIONAL WATER FILTER ON SUPPLY LINE

MAKEUP AIR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MAX (CFM)	FAN FLOW (CFM)	FAN ESP (in-wg)	FAN MOTOR QTY	FAN MOTOR POWER (hp)	GAS-FIRED HEAT EXCHANGER GAS BURNER INPUT (Btu/h)	GAS BURNER OUTPUT (Btu/h)	GAS BURNER STAGES	FUEL TYPE	FUEL PRESSURE (in-wg) MIN	MAX	AIRSIDE EAT(db) (°F)	AIRSIDE LAT(db) (°F)	THERMAL EFF (%)	FLUE DIAMETER	SOUND POWER LEVEL (db) DISCHARGE/INLET/RADIATED 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	EFFICIENCY SEER	EER	IEER	COP	ELECTRICAL DATA MCA	MOCP	VOLT	PH	REMARKS
MAU-1	CAPTIVEAIRE	CASRTU-1-I.100-13-5T-DOAS	VERTICAL	700	700	0.75	1	1	74,667	60,480		NATURAL	4	14	0	80	80	0"									0	0	0	0	25.2 A	30 A	208 V	3	

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE

(BASED ON PRICE)

SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS

A - MODEL SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH. PROVIDE MODEL SR ADAPTER.

A1 - MODEL SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), SURFACE MOUNT FRAME, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

B - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.

B1 - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER, STEEL CONSTRUCTION, WHITE FINISH.

C - MODEL 520D LOUVERED SUPPLY REGISTER, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT FRAME, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

D - TITUS LINEAR JET SLOT DIFFUSER, 3" SLOT WIDTH, 2 SLOT, SURFACE MOUNT FRAME, ALUMINUM CONSTRUCTION, BLACK PATTERN CONTROLLERS.

E - MODEL LFG FLOOR GRILLE, 15° DEFLECTION , PENCIL AND HEEL PROOF BAR SPACING, EXTRUDED ALUMINUM CONSTRUCTION, CLEAR ANODIZED FINISH.

CEILING SUPPLY DIFFUSER TYPE A & A1		CEILING RETURN/EXHAUST DIFFUSER TYPE B & B1		FLEXIBLE DUCT SIZE	
CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0 - 100	6 X 6	0 - 100	6 X 6	0 - 35	4"Ø
101 - 225	9 X 9	101 - 150	8 X 8	36 - 70	5"Ø
226 - 400	12 X 12	151 - 250	10 X 10	71 - 95	6"Ø
401 - 625	15 X 15	251 - 350	12 X 12	96 - 150	8"Ø
626 - 900	18 X 18	351 - 500	14 X 14	151 - 225	9"Ø
		501 - 650	16 X 16	226 - 275	10"Ø
		651 - 800	18 X 18	276 - 400	12"Ø
		801 - 1200	22 X 22	401 - 500	14Ø
				501 - 700	16"Ø
				701 - 900	18"Ø
				901 - 1100	20"Ø
				1101 - 1300	22"Ø

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	TYPE	FAN FLOW (CFM)	FAN ESP (in-wg)	FAN RPM	FAN DRIVE TYPE	FAN MOTOR POWER HP	SONES	ELECTRICAL DATA VOLT	PH	REMARKS
EF-1	COOK	ACED-EC	BATHROOMS	DOWNBLAST	210	0.5	1401	DIRECT	0.2	5.1	115 V	1	1
EF-2	COOK	ACED-EC	BATHROOMS	DOWNBLAST	400	1	1512	DIRECT	0.3	11.6	115 V	1	1
EF-3	CAPTIVEAIRE	DU50HFA	HOOD	DOWNBLAST	700	1	1411	DIRECT	0.5	13.7	115 V	1	1

FIN TUBE RADIATION SCHEDULE

TAG	MANUFACTURER	ENCLOSURE MODEL	ELEMENT	ROWS OF ELEMENT	ENCLOSURE HEIGHT (IN.)	MOUNTING HEIGHT (IN.)	EWT (°F)	LWT (°F)	BTUH/LF	REMARKS
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	
FT-1	RITTLING	PGB	COPPER	1	6"	10"	150	130	500	

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
MECHANICAL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	12" = 1'-0"
DATE	10/07/22
DRAWN BY	MJE
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

M4.00

ELECTRICAL SYMBOL LIST

NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PENDANT MOUNTED LIGHT FIXTURE	M/S	EMERGENCY SWITCH - MOUNT AT 48" A.F.F. - M=MASTER - S=SLAVE
	PENDANT MOUNTED LIGHT FIXTURE	J	JUNCTION BOX
	CEILING MOUNTED LIGHT FIXTURE	J TC	JUNCTION BOX WITH 120V POWER FOR TEMPERATURE CONTROLS
	WALL MOUNTED LIGHT FIXTURE	J HD	JUNCTION BOX WITH 120V POWER FOR HAND DRYER
	SURFACE MOUNTED LIGHT FIXTURE	J HT	JUNCTION BOX WITH 208V POWER FOR HEAT TRACE
	RECESSED DOWN LIGHT FIXTURE		JUNCTION BOX FOR CATV OUTLET WITH 1 1/4" CONDUIT TO CEILING
	RECESSED 2'X4' LIGHT FIXTURE		MOTOR
	RECESSED 2'X2' LIGHT FIXTURE		NON-FUSED DISCONNECT SWITCH
	WALL MOUNTED FIXTURE		FUSED DISCONNECT SWITCH
	LINEAR FIXTURE		MAGNETIC MOTOR STARTER
	SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT		COMBINATION DISCONNECT SWITCH/MAGNETIC MOTOR STARTER
	DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT		BRANCH CIRCUIT WIRING
	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS		BRANCH CIRCUIT FEEDER
	EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS		ELECTRICAL GROUND
			FLEXIBLE EQUIPMENT CONNECTION
S	SINGLE POLE TOGGLE SWITCH		FIXED/HARD - WIRED EQUIPMENT CONNECTION
S_3	THREE WAY TOGGLE SWITCH		
S_4	FOUR WAY TOGGLE SWITCH	TC	TIMECLOCK
S_K	SINGLE POLE KEYED TOGGLE SWITCH	C	CONTACTOR
S_{3K}	THREE WAY KEYED TOGGLE SWITCH MOUNT		SECURITY SYSTEM CAMERA
S_{4K}	FOUR WAY KEYED TOGGLE SWITCH MOUNT	DL	SECURITY SYSTEM DOOR LOCK
S_T	THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS		SECURITY SYSTEM MOTION SENSOR
S_D	DIMMER SWITCH	CR	SECURITY SYSTEM CARD READER
S_{PS}	PROJECTION SCREEN SWITCH	DC	SECURITY SYSTEM DOOR CONTACT
S_{OC}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH	KP	SECURITY SYSTEM KEY PAD
B	DOORBELL BUZZER/CHIME - MOUNT 7'-0" A.F.F.	FS	FLOW SWITCH
OS OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR	TS	TAMPER SWITCH
PC	PHOTOCELL	PS	PRESSURE SWITCH
		S	WALL MOUNTED SPEAKER
E/G	EMERGENCY ELECTRIC/GAS SHUTOFF PUSHBUTTON OPERATOR	S	CEILING MOUNTED SPEAKER
	GROUNDED DUPLEX RECEPTACLE	IC	INTERCOM STATION
A	GROUNDED DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER OR BACKSPLASH 42" A.F.F.		COMBINATION SPEAKER/CLOCK
C	GROUNDED DUPLEX RECEPTACLE - MOUNT AT CEILING		CLOCK
GFI	GROUNDED DUPLEX GFI RECEPTACLE		
WP	GROUNDED DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER		
S	GROUNDED DUPLEX RECEPTACLE - STUB UP TO 24" A.F.F. ON 1" (MIN) RGS CONDUIT	FB x	FLOOR BOX. REFER TO PLANS FOR CONFIGURATION
PM	VERTICAL PLUGMOLD WITH OUTLETS AT 12" O.C. - 5' LONG		
MW	GROUNDED GFI DUPLEX RECEPTACLE DEDICATED FOR MICROWAVE OVEN - VERIFY EXACT MOUNTING LOCATION	PT x	POKE THRU DEVICES. REFER TO PLANS FOR CONFIGURATION.
	GROUNDED DOUBLE DUPLEX RECEPTACLE		
	GROUNDED 240V RECEPTACLE		
USB	GROUNDED GFI DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORT		
	GROUNDED SIMPLEX RECEPTACLE		
	SPECIAL PURPOSE RECEPTACLE - MATCH NEMA CONFIGURATION OF EQUIPMENT SERVED		
	FLOOR MOUNTED DEVICES AS LISTED ABOVE		
	RECESSED MOUNTED PANELBOARD		
	SURFACE MOUNTED PANELBOARD		
PP	COMBINATION POWER/TEL/DATA POLE		
	TELEPHONE/DATA OUTLETS		
WAP	WIRELESS ACCESS POINT (WAP - WIRELESS ACCESS POINT) INCLUDE CAT 5e CABLE		
		ELECTRICAL LEGEND NOTES: 1. ALL SYMBOLS MAY NOT BE USED.	
F	MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F.		
H	HEAT DETECTOR		
H 200°	HEAT DETECTOR 200°		
S	AREA SMOKE DETECTOR		
S_D	DUCT SMOKE DETECTOR		
S_{CO}	AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR		
S_E	ELEVATOR RETURN SMOKE DETECTOR		
CO	FIRE ALARM CARBON MONOXIDE DETECTOR		
X_{RTS}	FIRE ALARM REMOTE TEST SWITCH		
M	MAGNETIC DOOR HOLDER		
	FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F.		
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F.		
R	LIGHTING CONTROL RELAY		
$_{AOM}$	FIRE ALARM ADDRESSABLE OUTPUT MODULE		
$_{AIM}$	FIRE ALARM ADDRESSABLE INPUT MODULE		
S_{VC}	SPEAKER VOLUME CONTROL		
FACP	FIRE ALARM CONTROL PANEL		
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL		
HGMP	HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26		
	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F.		
S_A	EMERGENCY "CALL-FOR-AID" SWITCH - MOUNT 48" A.F.F. WITH PULL CORD TO 6" A.F.F.		

ABBREVIATIONS

A	AMPERE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
AFG	ABOVE FINISHED GRADE	NL	NIGHT LIGHT
AFI	ARC FAULT CIRCUIT INTERRUPTER	NLE	NEW LOCATION OF EXISTING
AHU	AIR HANDLING UNIT	OHD	OVERHEAD DOOR ELECTRIC OPERATOR
C	CONDUIT	P	POLE
CB	CIRCUIT BREAKER	PE	PRIMARY ELECTRIC SERVICE
CKT	CIRCUIT	PH or Ø	PHASE
CUH	CABINET UNIT HEATER	PNL	PANEL
DAC	DOOR ACCESS CONTROLLER	PVC	POLYVINYL CHLORIDE CONDUIT
EBB	ELECTRIC BASEBOARD	RAP	REMOTE ANNUNCIATOR PANEL
EBU	EMERGENCY BATTERY UNIT	RGS	RIGID GALVANIZED STEEL CONDUIT
EF	EXHAUST FAN	RLE	RELOCATE EXISTING
EM	EMERGENCY POWERED	RTU	ROOFTOP UNIT
EMT	ELECTRICAL METALLIC TUBING	SE	SECONDARY ELECTRIC SERVICE
ETR	EXISTING TO REMAIN	T	TELEPHONE SERVICE
EWC	ELECTRIC WATER COOLER	TV	TELEVISION
EWH	ELECTRIC WATER HEATER	TX	TRANSFORMER
FA	FIRE ALARM	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	W	WIRE
FMC	FLEXIBLE METALLIC TUBING	WAP	WIRELESS ACCESS POINT
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
KVA	KILOVOLT-AMP		

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. ALL HOMERUNS SHALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE NOTED.
11. ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE ALLOWED.
13. FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.
14. RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.
15. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE", LOCKS SHALL BE KEYED ALIKE.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.
17. ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.
18. ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND ABOVE CEILINGS.
19. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.
23. ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.
24. CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.
25. WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.
26. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICATED ON PLAN.
27. BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.
28. ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.
29. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
30. ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.
31. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK. SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.
32. ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
33. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
34. SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC.
35. CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
36. PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
37. ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.
38. ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).
39. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

ELECTRICAL DEMOLITION NOTES

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

ELECTRICAL GENERAL INFORMATION

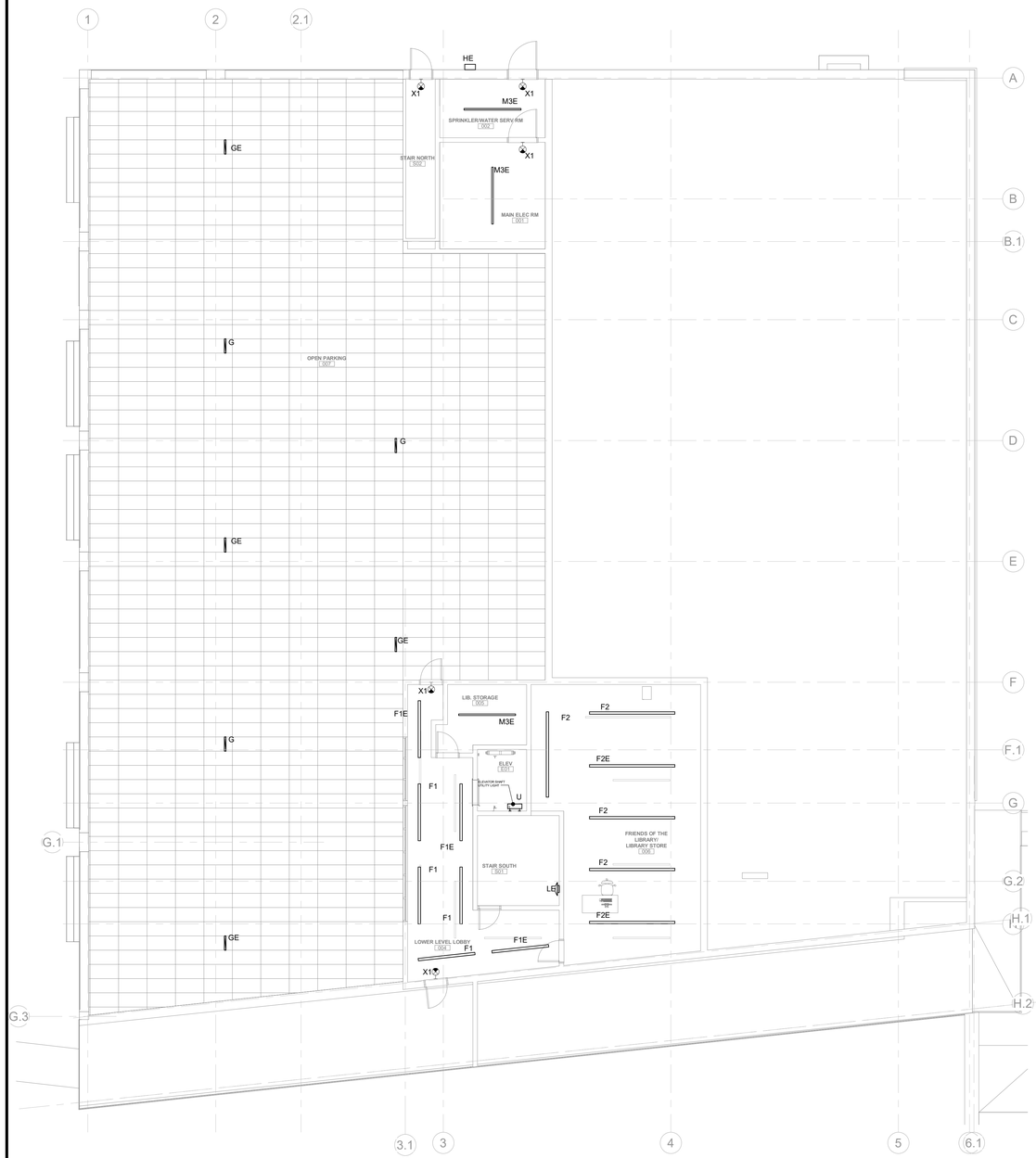
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
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ISSUE DATES

NO.	DATE	PURPOSE

E0.01

10/7/2022 10:32:29 AM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt



1 LOWER LEVEL LIGHTING RCP
1/8" = 1'-0"



2 FIRST FLOOR LIGHTING RCP
1/8" = 1'-0"

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
LOWER LEVEL & FIRST FLOOR LIGHTING PLANS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	1/8" = 1'-0"
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E1.00

10/7/2022 10:32:41 AM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt

LIGHTING FIXTURE NOTES

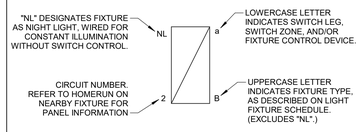
1. TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.
2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.



EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K..
4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
8. REFER TO DETAILS FOR LIGHT FIXTURE CONTROLS, AND SEQUENCE OF OPERATION.
9. ALL LIGHT FIXTURES SHALL BE AS SPECIFIED. ANY ALTERNATES OR SUBSTITUTIONS REQUIRE PRIOR WRITTEN APPROVAL FROM ARCHITECT PRIOR TO ISSUING SUBMITTALS. SUBMITTALS FOR ALTERNATES OR SUBSTITUTIONS SHALL BE REJECTED WITHOUT REVIEW IF SUBMITTED WITHOUT APPROVAL FROM ARCHITECT.
10. CONTRACTOR SHALL PROVIDE APPROPRIATE DIMMING DRIVERS TO ALL DECORATIVE LIGHT FIXTURES TO MAKE THEM WORK AS INTENDED.
11. CONTRACTOR TO COORDINATE WITH OWNER & SHALL PROVIDE EXTERIOR LIGHTS & SIGNAGE CONTROL (PHOTOCELL/TIMECLOCK) AS REQUIRED

LIGHT FIXTURE LABELLING DETAIL



NOTES:

1. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING WILL ONLY BE SHOWN TO A SINGLE FIXTURE FOR EACH CIRCUIT. PROVIDE REQUIRED CONDUCTORS IN 3/4" CONDUIT FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
2. PROVIDE ALL LOW VOLTAGE CONTROL WIRING AS REQUIRED FOR PROPER OPERATION OF ALL FIXTURES FROM ASSOCIATED CONTROLS (INCLUDES DIMMERS, OCCUPANCY SENSORS, SCENE CONTROL SWITCHES, ETC.).
3. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES, WHERE APPLICABLE, FOR ADDITIONAL CONTROL INFORMATION.
4. FIXTURES WITHOUT SWITCH LEG OR OTHER CONTROL SCHEME DESIGNATION SHALL BE CONTROLLED BY THE CONTROL DEVICES WITHIN THE SAME ROOM OR AREA. (THIS INCLUDES ANY COMBINATION OF 3-WAY AND 4-WAY SWITCHES, SENSORS, SCENE CONTROLLERS, OR OTHER CONTROL DEVICES.)
5. REFER TO LIGHTING DETAILS FOR ADDITIONAL CONTROL REQUIREMENTS.



1 SECOND FLOOR LIGHTING RCP
1/8" = 1'-0"

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KEY PLAN

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SECOND FLOOR LIGHTING PLAN

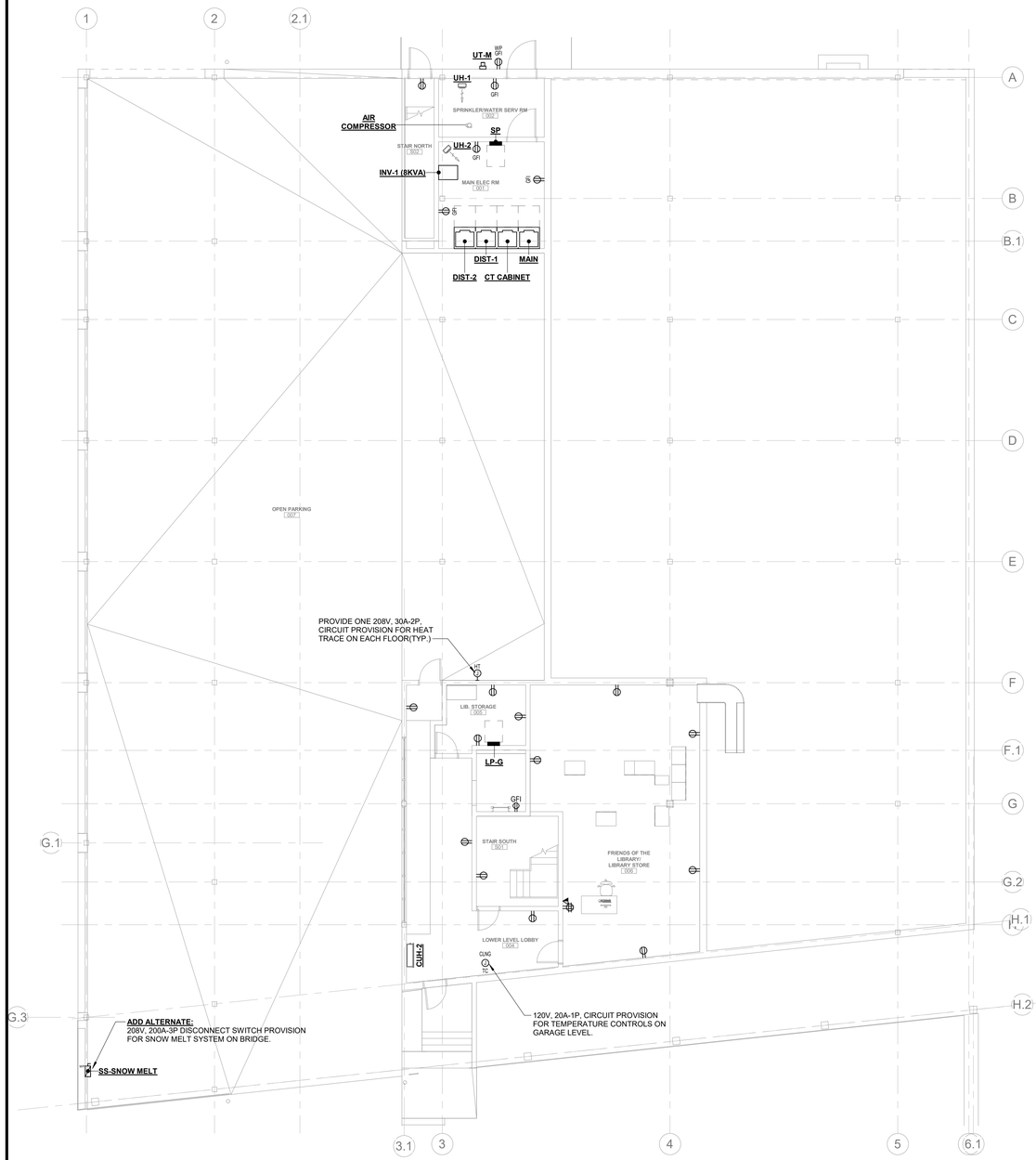
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ISSUE DATES

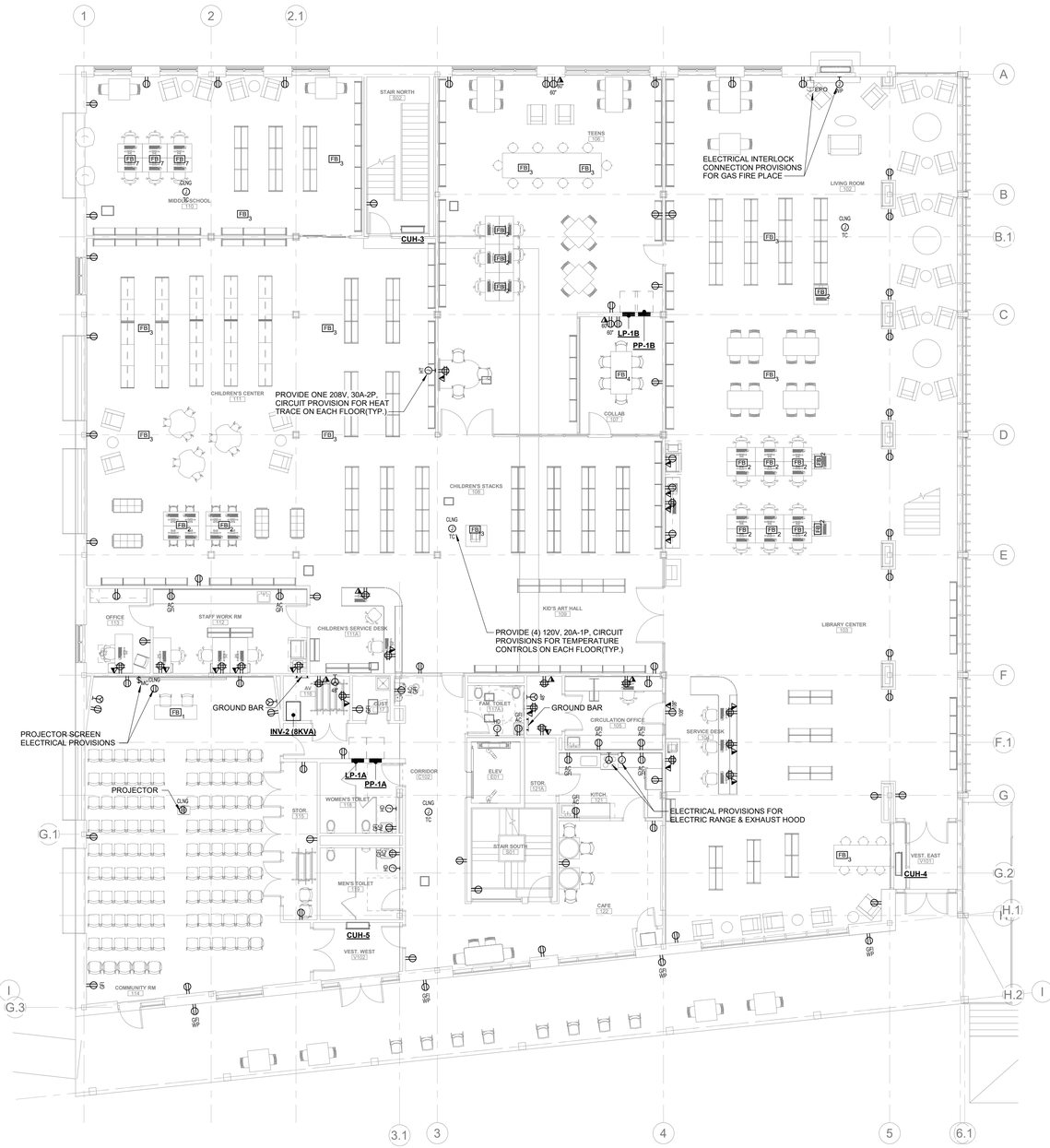
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1 LOWER LEVEL POWER PLAN
1/8" = 1'-0"



2 FIRST FLOOR POWER PLAN
1/8" = 1'-0"

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DRAWING TITLE
LOWER LEVEL & FIRST FLOOR POWER PLANS

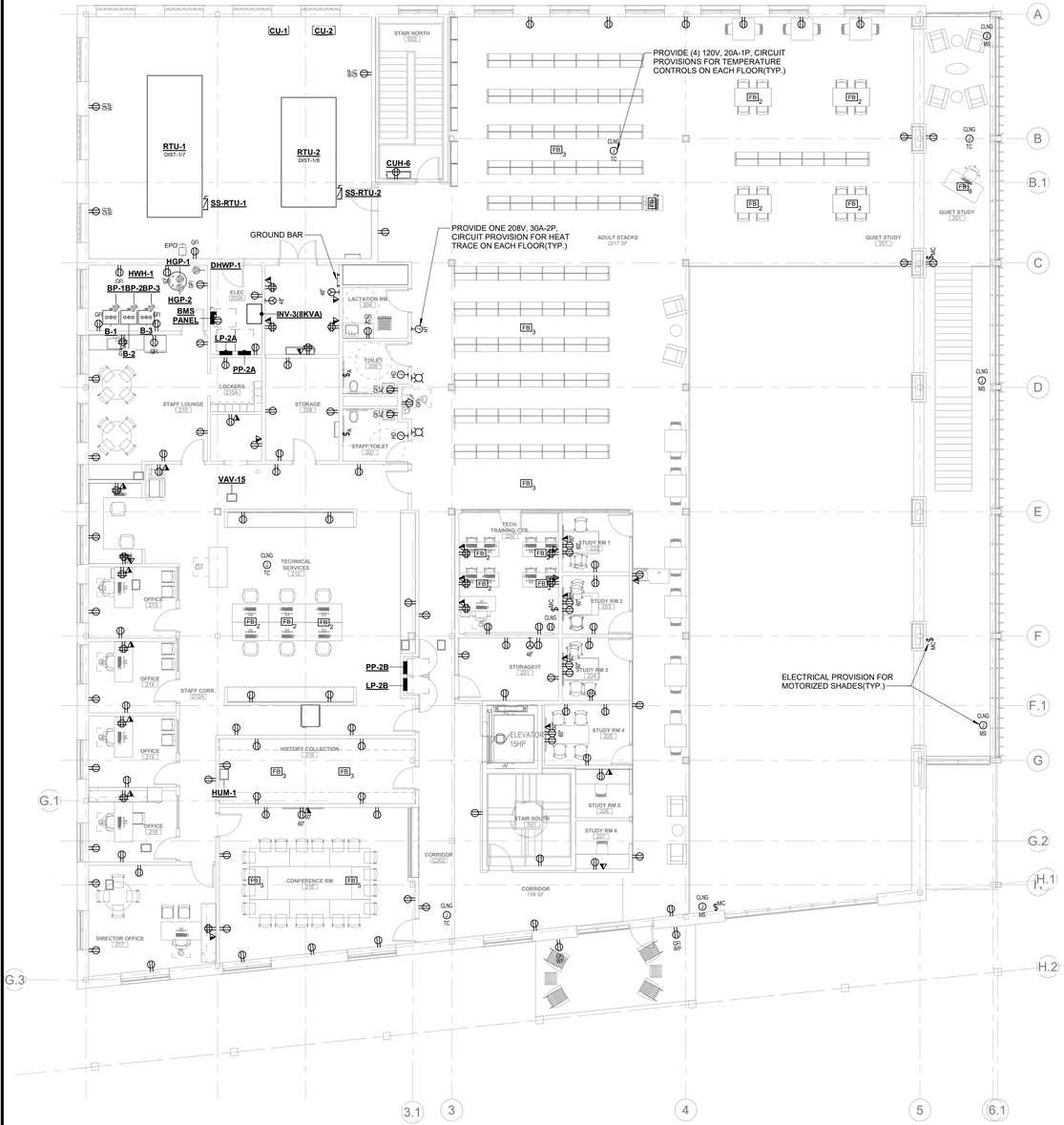
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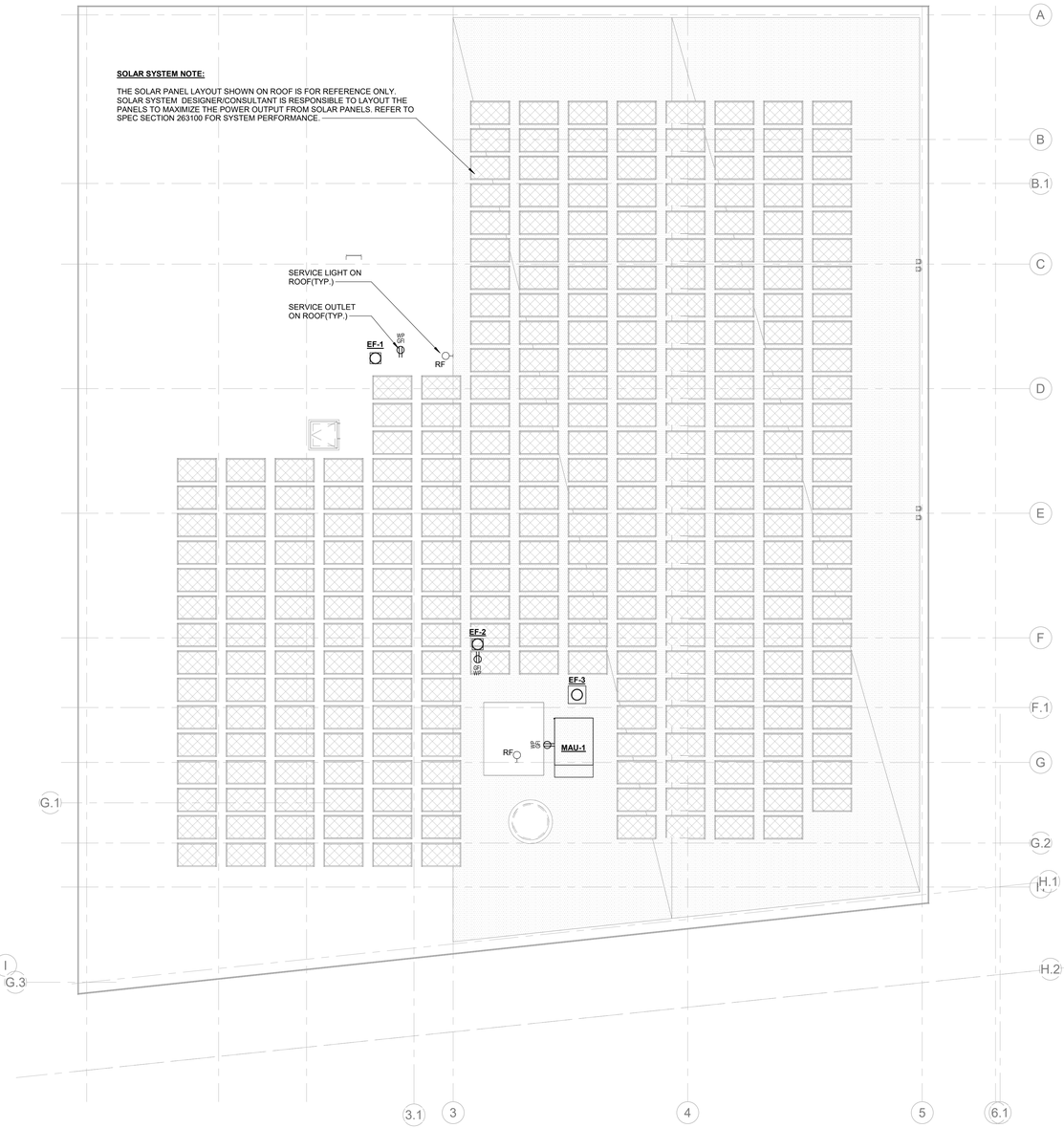
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1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"



2 ROOF ELECTRICAL PLAN
1/8" = 1'-0"

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
SECOND FLOOR & ROOF POWER PLANS

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SCALE	1/8" = 1'-0"
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10/7/2022 10:33:01 AM BIM 360://Bloomfield Library - Prosser Building/MEP_21-300A Bloomfield Libraries-Prosser.rvt

SINGLE PHASE WIRE SCHEDULE

MOCP (1-POLE OR 2-POLE)	CONDUCTORS (1 PH, 2W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (1 PH, 3W) WITH GROUND	CONDUIT SIZE
15A	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"
20A	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"
25A	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"
30A	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"
35A	2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"
40A	2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"
45A	2#6 & 1#10G	1"	3#6 & 1#10G	1"
50A	2#6 & 1#10G	1"	3#6 & 1#10G	1"
60A	2#4 & 1#8G	1"	3#4 & 1#8G	1-1/4"
70A	2#4 & 1#8G	1"	3#4 & 1#8G	1-1/4"
80A	2#3 & 1#8G	1-1/4"	3#3 & 1#8G	1-1/2"
90A	2#2 & 1#8G	1-1/4"	3#2 & 1#8G	1-1/2"
100A	2#1 & 1#8G	1-1/2"	3#1 & 1#8G	2"

THREE PHASE WIRE SCHEDULE

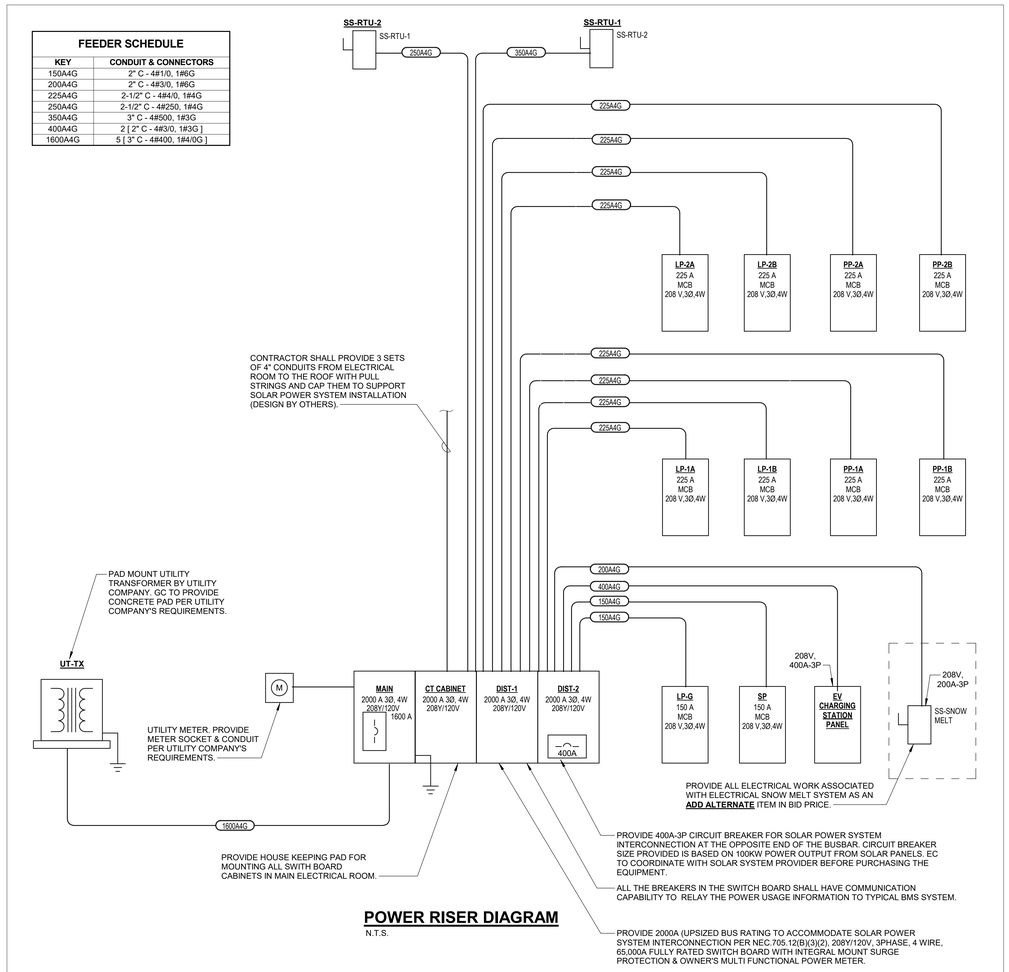
MOCP (3 POLE)	CONDUCTORS (3 PH, 3W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (3 PH, 4W) WITH GROUND	CONDUIT SIZE
15A	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"
20A	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"
25A	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"
30A	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"
35A	3#8 & 1#10G	3/4"	4#8 & 1#10G	3/4"
40A	3#8 & 1#10G	3/4"	4#8 & 1#10G	3/4"
45A	3#6 & 1#10G	1"	4#6 & 1#10G	1"
50A	3#6 & 1#10G	1"	4#6 & 1#10G	1"
60A	3#4 & 1#10G	1-1/4"	4#4 & 1#10G	1-1/4"
70A	3#4 & 1#8G	1-1/4"	4#4 & 1#8G	1-1/4"
80A	3#3 & 1#8G	1-1/4"	4#3 & 1#8	1-1/4"
90A	3#2 & 1#8G	1-1/4"	4#2 & 1#8G	1-1/2"
100A	3#1 & 1#8G	1-1/2"	4#1 & 1#8G	2"
110A	3#1 & 1#6G	1-1/2"	4#1 & 1#6G	2"
125A	3#1/0 & 1#6G	1-1/2"	4#1/0 & 1#6G	2"
150A	3#1/0 & 1#6G	2"	4#1/0 & 1#6G	2"
175A	3#2/0 & 1#6G	2"	4#2/0 & 1#6G	2"
200A	3#3/0 & 1#6G	2"	4#3/0 & 1#6G	2-1/2"
225A	3#4/0 & 1#4G	2-1/2"	4#4/0 & 1#4G	2-1/2"
250A	3#250KCMIL & 1#4G	2-1/2"	4#250KCMIL & 1#4G	3"
300A	3#350KCMIL & 1#4G	3"	4#350KCMIL & 1#4G	3"
350A	3#500KCMIL & 1#3G	3"	4#500KCMIL & 1#3G	4"
400A	3#500KCMIL & 1#3G	3-1/2"	4#500KCMIL & 1#3G	4"
450A	(2)3#4/0 & 1#2G	(2) 3"	(2)4#4/0 & 1#2G	(2) 3"
500A	(2)3#250KCMIL & 1#2G	(2) 3"	(2)4#250KCMIL & 1#2G	(2) 3"
600A	(2)3#350KCMIL & 1#1G	(2) 3"	(2)4#350KCMIL & 1#1G	(2) 3"
700A	(2)3#500KCMIL & 1#1/0G	(2) 3-1/2"	(2)4#500KCMIL & 1#1/0G	(2) 4"
800A	(2)3#500KCMIL & 1#1/0G	(2) 3-1/2"	(2)4#500KCMIL & 1#1/0G	(2) 4"
900A	(3)3#350KCMIL & 1#2/0G	(3) 3"	(3)4#350KCMIL & 1#2/0G	(3) 3"
1000A	(3)3#500KCMIL & 1#2/0G	(3) 3-1/2"	(3)4#500KCMIL & 1#2/0G	(3) 3-1/2"
1200A	(4)3#350KCMIL & 1#3/0G	(4) 4"	(4)4#350KCMIL & 1#3/0G	(4) 4"
1600A	(4)3#600KCMIL & 1#4/0G	(4) 4"	(4)4#600KCMIL & 1#4/0G	(4) 4"
2000A	(6)3#400KCMIL & 1#250KCMIL G	(6) 3"	(6)4#400KCMIL & 1#250KCMIL G	(6) 3"
2500A	(8)3#400KCMIL & 1#250KCMIL G	(8) 3"	(8)4#400KCMIL & 1#250KCMIL G	(8) 3"

NOTES:

1. CONDUCTOR SIZES BASED UPON 75°C INSULATION.
2. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.
3. MINIMUM SIZE CONDUIT IS 3/4" UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
4. PROVIDE A 3-PHASE 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
5. PROVIDE A 1-PHASE 3-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
6. MINIMUM SIZE CONDUIT UNDERGROUND IS 4 INCH EXCEPT FOR SITE BRANCH CIRCUITS SUCH AS LIGHTING AND MISCELLANEOUS POWER AND SYSTEMS WHICH SHALL BE A MINIMUM OF 1 INCH.
7. PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
8. CONDUIT AND WIRE SIZES SHOWN IN SCHEDULE ABOVE ARE BASED ON MAXIMUM CIRCUIT LENGTH OF 100'.
9. CONDUIT AND WIRE SIZES FOR CIRCUITS OVER 100' SHALL BE CALCULATED TO ACCOUNT FOR VOLTAGE DROP.

FEEDER SCHEDULE

KEY	CONDUIT & CONNECTORS
150A4G	2" C - 4#1/0, 1#6G
200A4G	2" C - 4#3/0, 1#6G
225A4G	2-1/2" C - 4#4/0, 1#4G
250A4G	2-1/2" C - 4#250, 1#4G
350A4G	3" C - 4#500, 1#3G
400A4G	2 [2" C - 4#3/0, 1#3G]
1600A4G	5 [3" C - 4#400, 1#4/0G]



POWER RISER DIAGRAM

N.T.S.

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POWER RISER DIAGRAM

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PROJ. NO.	200802
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CONTROL TYPES	
TYPE	DESCRIPTION
SPP	MANUF. - SINGLE POINT POWER

STARTER TYPES	
TYPE	DESCRIPTION
SPP	MANUF. - SINGLE POINT POWER

DISCONNECT TYPES	
TYPE	DESCRIPTION
FS	DIV. 26 - FUSED SWITCH
NFS	DIV. 26 - NON-FUSED SWITCH
NFS-M	MANUF. - NON-FUSED SWITCH

EQUIPMENT COORDINATION SCHEDULE

NOTE: REFER TO WIRE SCHEDULE FOR CONDUCTOR SIZING FOR EACH PIECE OF EQUIPMENT.

	EQUIPMENT INFORMATION					CIRCUIT INFORMATION				CONTROL			STARTER			DISCONNECT			
TAG	FLA	MCA	MOCP	VOLT	PH	PANEL	NO.	APPARENT LOAD	LOAD CLASSIFICATION	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	COMMENTS
AC-1	2.6 A	3.3 A	0 A	208 V	1			549 VA	MTR	T	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
AC-2	0 A	0 A	0 A	208 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
AIR COMPRESSOR	5.8 A	7.3 A	15 A	120 V	1			696 VA	MTR							NFS	DIV. 26	DIV. 26	
B-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
B-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
B-3	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
BMS PANEL	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
BP-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
BP-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
BP-3	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
CU-1	0 A	0 A	15 A	208 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
CU-2	0 A	0 A	15 A	208 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
CUH-2	0 A	0 A	0 A	115 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
CUH-3	0 A	0 A	0 A	115 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
CUH-4	0 A	0 A	0 A	115 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
CUH-5	0 A	TIED A	0 A	115 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
CUH-6	0 A	0 A	0 A	115 V	1			0 VA	MTR							NFS-M	MANUF.	MANUF.	
DHWP-1	0 A	0 A	0 A	0 V	0			0 VA	MTR							NFS	DIV. 26	DIV. 26	
EF-1	4.4 A	5.5 A	15 A	115 V	1			506 VA	MTR							NFS	DIV. 26	DIV. 26	
EF-2	7.2 A	9 A	15 A	115 V	1			828 VA	MTR							NFS	DIV. 26	DIV. 26	
EF-3	9.8 A	12.3 A	20 A	115 V	1			1,127 VA	MTR							NFS	DIV. 26	DIV. 26	
ELEVATOR 15HP	53 A	66.3 A	100 A	208 V	3			21,111 VA	MTR	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	FS	DIV. 26	DIV. 26	PROVIDE SHUNT TRIP FUSED DISCONNECT SWITCH
HGP-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
HGP-2	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
HUM-1	15.6 A	19.5 A	25 A	120 V	1			1,872 VA	MTR							NFS	DIV. 26	DIV. 26	
HWH-1	0 A	0 A	0 A	120 V	1			0 VA	MTR							NFS	DIV. 26	DIV. 26	
MAU-1	0 A	25.2 A	30 A	208 V	3			0 VA	HVAC							NFS	DIV. 26	DIV. 26	
RTU-1	0 A	0 A	0 A	208 V	3	DIST-1	7	0 VA	HVAC							FS	DIV. 26	DIV. 26	
RTU-2	0 A	0 A	0 A	208 V	3	DIST-1	8	0 VA	HVAC							FS	DIV. 26	DIV. 26	
UH-1	1 A	1.3 A	15 A	115 V	1			115 VA	Heating							NFS	DIV. 26	DIV. 26	
UH-2	1 A	1.3 A	15 A	115 V	1			115 VA	Heating							NFS	DIV. 26	DIV. 26	

IT/SECURITY NOTES

1. INDICATION HERE OF TEL/COM, SECURITY AND ACCESS CONTROL EQUIPMENT IS FOR COORDINATION PURPOSES ONLY. COORDINATE ACTUAL LOCATIONS, QUANTITIES AND ADDITIONAL REQUIREMENTS WITH RESPECTIVE VENDOR.
2. SECURITY CAMERAS AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
3. ACCESS CONTROL DEVICES AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
4. TELECOMMUNICATIONS DEVICES AND WIRING BY OTHERS. PROVIDE BACKBOX WITH 1"C TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH IT VENDOR.
5. SECURITY AND ACCESS CONTROL PANELS AND ASSOCIATED WIRING BY OTHERS. PROVIDE DUPLEX RECEPTACLE AT SECURITY PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR. PROVIDE QUADRUPLEX RECEPTACLE AT ACCESS CONTROL PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR.
6. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH DOOR HARDWARE TO ENSURE PROPER OPERATION. PROVIDE 120V TO ALL POWER SUPPLIES AS NEEDED TO POWER ELECTRIFIED HARDWARE (ELECTRIC STRIKES, POWER ASSIST, PUSHBUTTON OPENERS, ETC).
7. PROVIDE ANY PATHWAY REQUIRED BETWEEN SECURITY/ACCESS CONTROL PANELS, IT RACK, AND ADMINISTRATIVE OFFICES. COORDINATE WITH OWNER FOR LOCATIONS.
8. PROVIDE 30A TWIST LOCK RECEPTACLE AT IT RACK FOR OWNERS USE IN POWERING OWNER SUPPLIED IT EQUIPMENT (PDU, UPS, ETC).

EQUIPMENT COORDINATION NOTES

1. UNLESS OTHERWISE NOTED, REFER TO WIRE SCHEDULE FOR EQUIPMENT CONDUCTOR SIZING.
2. REFER TO EQUIPMENT COORDINATION SCHEDULE FOR ALL ADDITIONAL INFORMATION.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE PROPOSED DISCONNECT SWITCH LOCATION FOR ENGINEER REVIEW PRIOR TO ROUGH-IN. IN ALL CASES, DISCONNECT SWITCH SHALL BE LOCATED WITHIN SIGHT OF EQUIPMENT SERVED.
4. DISCONNECT SWITCHES LOCATED OUTSIDE SHALL BE PROVIDED WITH NEMA 3R ENCLOSURE UNLESS OTHERWISE NOTED.

RTU-01 (PP1-1,5,7) — EQUIPMENT TAG; PANEL & CIRCUIT

FLOOR BOX SCHEDULE

DESIGNATION	FLOOR BOX	FLOOR BOX DESCRIPTON	COVER	COVER DESCRIPTION	DEVICE PLATES
FB1	EFB8S	8-GANG RECESSED METALLIC FLOOR BOX, 8 INDIVIDUAL COMPARTMENTS.	EFB6810CTC	CARPET INSERT COVER WITH SLIDE EGRESS DOORS	STANDARD SIZE WALL PLATES 2 3/4" X 4 1/2"
FB2	RPNFB	ROUND NONMETALLIC DUAL SERVICE FLOOR BOX	RP4CTC	QUAD POWER WITH QUAD DATA SURFACE STYLE COVER	NONE
FB3	881	ROUND NONMETALLIC SINGLE SERVICE FLOOR BOX	895	895 STYLE DUPLEX COVER (OFFERED IN MANY COLORS AND MATERIALS)	NONE
FB4	RFBA4R30	4 GANG RECESSED METALLIC FLOOR BOX	FPCTC	CARPET INSERT COVER WITH ROTATING UP EGRESS DOORS	RFBADP (DUPLEX PLATE), RFBADEC (DECORA STYLE PLATE FOR DATA)
FB5	RFB6	6 GANG RECESSED METALLIC FLOOR BOX	FPCTC	CARPET INSERT COVER WITH ROTATING UP EGRESS DOORS	RFB6DP (DUPLEX PLATE), RFB6DEC (DECORA STYLE PLATE FOR DATA)
FB6	RPNFB	ROUND NONMETALLIC DUAL SERVICE FLOOR BOX	RP7CTC	DUPLEX POWER WITH 2 DATA PORTS SURFACE STYLE COVER	NONE
FB7	RPSFB	ROUND METALLIC DUAL SERVICE FLOOR BOX	RP4CTC	QUAD POWER WITH QUAD DATA SURFACE STYLE COVER	NONE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMPS			VOLTAGE	DIMMING TYPE	CCT	CRI	REMARKS
			LUMENS	WATTAGE	LUMENS/WATT					
A	DAYBRITE	2EVGXL835-4-DS-UNV-DIM	4300 lm	35 W	123 lm/W	120 V	0-10V	3500K	80	2' x 4' RECESSED ARCHITECTURAL TROFFER
AE	DAYBRITE	2EVGXL835-4-DS-UNV-DIM	4300 lm	35 W	123 lm/W	120 V	0-10V	3500K	80	2' x 4' RECESSED ARCHITECTURAL TROFFER-TIED TO INVERTER CIRCUIT
B	DAYBRITE	2EVGXL835-4-DS-UNV-DIM	3800 lm	33 W	115 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER
BE	DAYBRITE	2EVGXL835-4-DS-UNV-DIM	3800 lm	33 W	115 lm/W	120 V	0-10V	3500K	80	2' x 2' RECESSED ARCHITECTURAL TROFFER-TIED TO INVERTER CIRCUIT
C1	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-6FT-3000 lm/4FT
C1E	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-6FT-3000 lm/4FT. TIED TO INVERTER CIRCUIT
C2	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-8FT-3000 lm/4FT
C2E	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-8FT-3000 lm/4FT-TIED TO INVERTER CIRCUIT
C3	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-10FT-3000 lm/4FT
C3E	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-10FT-3000 lm/4FT-TIED TO INVERTER CIRCUIT
C4	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-12FT
C4E	LEDALITE	3901L935XXQSX-XX'-D-E-1-N-NN-W	3000 lm	30 W	100 lm/W	120 V	0-10V	3500K	90	3" APERTURE RECESSED LINEAR SLOT ARMSTRONG TECHZONE 4" COMPATIBLE-12FT-3000 lm/4FT-TIED TO INVERTER CIRCUIT
D1	TECHLED	BX-2U-DI-XX-XX-35-U-FINISH-P-D	3600 lm	36 W	100 lm/W	120 V	0-10V	3500K	80	2.5" LINEAR PENDANT WITH DROP LENS-6FT-3600 lm/4FT
D1E	TECHLED	BX-2U-DI-XX-XX-35-U-FINISH-P-D	3600 lm	36 W	100 lm/W	120 V	0-10V	3500K	80	2.5" LINEAR PENDANT WITH DROP LENS-6FT-3600 lm/4FT-TIED TO INVERTER CIRCUIT
D2	TECHLED	BX-2U-DI-XX-XX-35-U-FINISH-P-D	3600 lm	36 W	100 lm/W	120 V	0-10V	3500K	80	2.5" LINEAR PENDANT WITH DROP LENS-10FT-3600 lm/4FT
D2E	TECHLED	BX-2U-DI-XX-XX-35-U-FINISH-P-D	3600 lm	36 W	100 lm/W	120 V	0-10V	3500K	80	2.5" LINEAR PENDANT WITH DROP LENS-10FT-3600 lm/4FT-TIED TO INVERTER CIRCUIT
E	SPECTRUM	RC624FT3-LEDXTXXL-35K-WD-DS101-SO34-BH27-FINISH-FTO624-FINISH	1100 lm	60 W	18 lm/W	120 V	0-10V	3500K	80	6" X 24' RECESSED LINEAR SLOT WITH 4 ADJUSTABLE HEADS
E-EM	SPECTRUM	RC624FT3-LEDXTXXL-35K-WD-DS101-SO34-BH27-FINISH-FTO624-FINISH	1100 lm	60 W	18 lm/W	120 V	0-10V	3500K	80	6" X 24' RECESSED LINEAR SLOT WITH 4 ADJUSTABLE HEADS-TIED TO INVERTER CIRCUIT
F1	SPECTRUM	EV04IND48OL-XXL-35K-DS10X-DW-SM-FINISH	4200 lm	37 W	114 lm/W	120 V	0-10V	3500K	80	8 FT SURFACE MOUNT SQUARE PROFILE LINEAR WITH 3 SIDED LENS-4200LM/2FT
F1E	SPECTRUM	EV04IND48OL-XXL-35K-DS10X-DW-SM-FINISH	4200 lm	37 W	114 lm/W	120 V	0-10V	3500K	80	8 FT SURFACE MOUNT SQUARE PROFILE LINEAR WITH 3 SIDED LENS-4200LM/2FT-TIED TO INVERTER CIRCUIT
F2	SPECTRUM	EV04IND48OL-XXL-35K-DS10X-DW-SM-FINISH	4200 lm	37 W	114 lm/W	120 V	0-10V	3500K	80	12 FT SURFACE MOUNT SQUARE PROFILE LINEAR WITH 3 SIDED LENS-4200LM/2FT
F2E	SPECTRUM	EV04IND48OL-XXL-35K-DS10X-DW-SM-FINISH	4200 lm	37 W	114 lm/W	120 V	0-10V	3500K	80	12 FT SURFACE MOUNT SQUARE PROFILE LINEAR WITH 3 SIDED LENS-4200LM/2FT-TIED TO INVERTER CIRCUIT
G	HE WILLIAMS	AVX-2-L42/835-WPC-DIM-UNV	6076 lm	52 W	116 lm/W	120 V	0-10V	3500K	80	2 FT SURFACE MOUNTED WET LOCATION ARCHITECTURAL VANDAL WRAPAROUND, ALUMINUM HOUSING
GE	HE WILLIAMS	AVX-2-L42/835-WPC-DIM-UNV	6076 lm	52 W	116 lm/W	120 V	0-10V	3500K	80	2 FT SURFACE MOUNTED WET LOCATION ARCHITECTURAL VANDAL WRAPAROUND, ALUMINUM HOUSING-TIED TO INVERTER CIRCUIT
H1	HE WILLIAMS	6DR-TL-L20/835-DIM-UNV-O-W-OF-CS-MWT-N-F1	2000 lm	19 W	105 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGHT
H1E	HE WILLIAMS	6DR-TL-L20/835-DIM-UNV-O-W-OF-CS-MWT-N-F1	2000 lm	19 W	105 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGHT-TIED TO INVERTER CIRCUIT
H2	HE WILLIAMS	6DR-TL-L20/835-DIM-UNV-O-WW-OF-CS-MWT-N-F1	2000 lm	19 W	105 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED WALL WASH DOWNLIGHT
H3	HE WILLIAMS	6DR-TL-L30/835-DIM-UNV-O-N-OF-CS-MWT-N-F1	3000 lm	27 W	111 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGHT
H3E	HE WILLIAMS	6DR-TL-L30/835-DIM-UNV-O-N-OF-CS-MWT-N-F1	3000 lm	27 W	111 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGHT-TIED TO INVERTER CIRCUIT
HE	GARDCO	104L-16L-530-NW-G1-2	3122 lm	28 W	112 lm/W	120 V	0-10V	3500K	80	EXTERIOR RATED LED WALL PACK
I-1	LIGHTOLIER	6100 TRACK WITH ACCESSORIES FOR COMPLETE SYSTEM					ELV	3500K	90	2 CIRCUIT TRACK
I-2	LIGHTOLIER	LC-L-10-935-FINISH-TE-LLMRF-LC10AH-FINISH-LC10SF	1000 lm	6 W	167 lm/W	120 V	ELV	3500K	90	36 DEGREE TRACK HEAD
J	LEDALITE	4908L93522QSN-XXFT-DE1NNNWX X2SX	2200 lm	20 W	110 lm/W	120 V	0-10V	3500K	90	4" APERTURE RECESSED PERIMETER SLOT WITH 2" REGRESSED LENS
K	SPECTRUM	GPRF2000GV-37L-35K-DS10X-RDC5-HM-AT-PM-FINISH	3400 lm	26 W	131 lm/W	120 V	0-10V	3500K	80	20" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED
KE	SPECTRUM.	GPRF2000GV-37L-35K-DS10X-RDC5-HM-AT-PM-FINISH	3400 lm	26 W	131 lm/W	120 V	0-10V	3500K	80	20" SEAMLESS OPAL ACRYLIC GLOBE HANG STRAIGHT PENDANT MOUNTED-TIED TO INVERTER CIRCUIT
L	CGF DESIGN	CAR-S-SLED-SCCT-UNV-FINISH	4125 lm	28 W	147 lm/W	120 V	0-10V	3500K	80	SURFACE WALL MOUNTED 15" ROUND, ADA COMPLIANT
LE	CGF DESIGN	CAR-S-SLED-SCCT-UNV-FINISH	4125 lm	28 W	147 lm/W	120 V	0-10V	3500K	80	SURFACE WALL MOUNTED 15" ROUND, ADA COMPLIANT-TIED TO INVERTER CIRCUIT
M1	DAYBRITE	FSS220L835-UNV-DIM	2000 lm	17 W	118 lm/W	120 V	0-10V	3500K	80	2FT LED STRIP LIGHT
M2	DAYBRITE	FSS440L835-UNV-DIM	4000 lm	31 W	129 lm/W	120 V	0-10V	3500K	80	4FT LED STRIP LIGHT
M3E	DAYBRITE	FSS440L835-UNV-DIM	8000 lm	62 W	129 lm/W	120 V	0-10V	3500K	80	8FT LED STRIP LIGHT-TIED TO INVERTER CIRCUIT
N	GARDCO	GWM-AO6-830-T4M-UNV-FINISH	2500 lm	16 W	156 lm/W	120 V	0-10V	3000K	80	EXTERIOR RATED UTILITY WALL PACK FOR MECHANICAL WELL
RF			1000 lm	10 W	100 lm/W	120 V	0-10V	3000K	80	UTILITY LIGHT ON ROOF
S-A	ELLIPTIPAR	S172-M224-S-X-M-V0-0-830-ZX	12200 lm	109 W	112 lm/W	120 V	0-10V	3000K	80	WALL MOUNTED 17" WIDE ASYMMETRIC FIXTURE WITH YOKE, VISOR AND INTEGRAL DRIVER
S-B	GARDCO	PBL-42-14L-350-WW-G2-5-UNV-FINISH	1750 lm	18 W	97 lm/W	120 V	0-10V	3000K	70	42" HIGH FULL CUTOFF BOLLARD
S-C	WAGNER	LULS-30K-40-70-MA-12	235 lm	4 W	65 lm/W	120 V	0-10V	3000K	80	LED HANDRAIL FIXTURE, 70 DEGREE OPTIC WITH ASYMMETRIC LENS AND DRIVER, 235LM/FT.
S-CB	Q-TRAN	WIDE-XX-SST-DF-XX-12/SW24/5.0-WET-30-XX-XX-XX-XX-LENGTH	367 lm	5 W	73 lm/W	120 V	0-10V	3000K	90	LED TAPE LIGHT RATED IP67 WITH ALUMINUM EXTRUSION, DIFFUSE LENS, AND INGRADE Q-VAULT POWER SUPPLY HOUSING, 367LM/FT
S-D	GARDCO	PPT-196L-650-WW-G2-T2-3-UNV-XX-FINISH	3182 lm	30 W	106 lm/W	120 V	0-10V	3000K	80	ROUND POST TOP FIXTURE WITH TYPE 3 COMFORT OPTICS, FULL CUTOFF, MOUNTED TO 10FT ROUND ALUMINUM 4" DIAM. POLE
S-E	SELUX	ACL-R3-S1-5G1800-30-XX-UNV/A-A40-250-14-FINISH-0B	5346 lm	54 W	99 lm/W	120 V	0-10V	3000K	80	RECTALINEAR POLE MOUNTED FIXTURE MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, TYPE 3 OPTIC
S-F	SELUX	ACL-R5S-S2-5G1800-30-XX-UNV/A-A40-250-14-FINISH-0B-0D	10692 lm	108 W	99 lm/W	120 V	0-10V	3000K	80	TWIN MOUNT RECTALINEAR POLE MOUNTED FIXTURES MADE OF ALUMINUM, MOUNTED TO 14FT 4" SQUARE ALUMINUM POLE, 180 DEGREE, TYPE 4 OPTIC
S-H3	HE WILLIAMS	6DR-TL-L30/835-DIM-UNV-L-N-OF-CS-WET/CC-N-F1	3000 lm	27 W	111 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGHT WET LOCATION RATED
S-H3E	HE WILLIAMS	6DR-TL-L30/835-DIM-UNV-L-N-OF-CS-WET/CC-N-F1	3000 lm	27 W	111 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED DOWNLIGH WET LOCATION RATEDT-TIED TO INVERTER CIRCUIT
S-H4	HE WILLIAMS	6DR-TL-L40/830-DIM-UNV-LM-OF-CS-WET/CC-N-F1	3122 lm	36 W	87 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED LENSED DOWNLIGHT WET LOCATION RATED
S-H4E	HE WILLIAMS	6DR-TL-L40/830-DIM-UNV-LM-OF-CS-WET/CC-N-F1	3122 lm	36 W	87 lm/W	120 V	0-10V	3500K	80	6" APERTURE RECESSED LENSED DOWNLIGHT WET LOCATION RATED-TIED TO INVERTER CIRCUIT
U			1000 lm	10 W	100 lm/W	120 V	0-10V	4000K	80	UTILITY LIGHT IN ELEVATOR SHAFT
X1				5 W		120 V	-	-	-	LED EXIT SIGN-SINGLE FACE
X1WP				5 W		120 V	-	-	-	LED WEATHER-PROOF EXIT SIGN
X2			0 lm	5 W	0 lm/W	120 V	-	-	-	LED EXIT SIGN-DOUBLE FACE

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NEW PROSSER LIBRARY
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BLOOMFIELD, CT 06002

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
ELECTRICAL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.01

10/7/2022 10:33:11 AM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360A Bloomfield Libraries-Prosser.rvt

SWITCHBOARD: MAIN

LOCATION:
MAIN DEVICE: 1600 A
BUS AMPS: 2000A
VOLTAGE: 120/208 Wye
AIC RATING: 65,000A
SPECIAL:

MAIN SECTION

C.T. COMPARTMENT: CURRENT TRANSFORMER, POTENTIAL TRANSFORMER
CUSTOMER POWER QUALITY METER

MAIN DEVICE

	FRAME	POLES	BREAKER	SPECIAL	DESCRIPTION/NAMEPLATE
	2000A	3	1600 A		

DISTRIBUTION SECTION No. 1

CKT	Rating	POLES	LOAD	DESCRIPTION/NAMEPLATE	NOTES
1	150 A	3	0 VA	SP	
2	150 A	3	0 VA	LP-G	
3	225 A	3	0 VA	PP-1A	
4	225 A	3	0 VA	LP-1A	
5	225 A	3	0 VA	LP-1B	
6	225 A	3	0 VA	PP-1B	
7	350 A	3	0 VA	RTU-1	
8	250 A	3	0 VA	RTU-2	

DISTRIBUTION SECTION No. 1

CKT	Rating	POLES	LOAD	DESCRIPTION/NAMEPLATE	NOTES
1	400 A	3	0 VA	EV CHARGING STATION PANEL	
2	225 A	3	0 VA	LP-2A	
3	225 A	3	0 VA	PP-2A	
4	225 A	3	0 VA	LP-2B	
5	225 A	3	0 VA	PP-2B	
6					
7					
8	400 A	3	0 VA	SOLAR SYSTEM INTERONNECTION	TO BE PROVIDED AT THE REAR END OF THE BUS

LOAD SUMMARY

SWBD LOAD	CONN. LOAD

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
				CONN. LOAD:	0 VA
				EST. DEMAND LOAD:	0 VA
				CONN. CURRENT:	0 A
				EST. DEMAND CURRENT:	0 A

NOTES:

Branch Panel: LP-1A

Location:
Supply From: DIST-1
Mounting: RECESSED
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: LP-1B

Location:
Supply From: DIST-1
Mounting: RECESSED
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP-1A

Location:
Supply From: DIST-1
Mounting: RECESSED
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP-1B

Location:
Supply From: DIST-1
Mounting: RECESSED
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
				Total Load:	0.0 kVA	0.0 kVA	0.0 kVA					
				Total Amps:	0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

NOTE:
1.ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SHORT CIRCUIT ANALYSIS, COORDINATION STUDY AND ARC FLASH STUDIES ALONG WITH SUBMITTAL.

2.ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ANY CHANGE IN SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT BASED ON THE STUDIES.

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BLOOMFIELD, CT 06002

DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE

PANEL SCHEDULES

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

NO.	DATE	PURPOSE

E3.02

10/7/2022 10:33:13 AM BIM 360://Bloomfield Library - Prosser Building/NEP_21-360A Bloomfield Libraries-Prosser.rvt

Branch Panel: SP

Location:
Supply From: DIST-1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: LP-2A

Location:
Supply From: DIST-2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: LP-2B

Location:
Supply From: DIST-2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: LP-G

Location:
Supply From: DIST-1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP-2A

Location:
Supply From: DIST-2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
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7												8
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13												14
15												16
17												18
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21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

Branch Panel: PP-2B

Location:
Supply From: DIST-2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
61												62
63												64
65												66
67												68
69												70
71												72
			Total Load:		0.0 kVA	0.0 kVA	0.0 kVA					
			Total Amps:		0 A	0 A	0 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:

NOTE:
1.ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SHORT CIRCUIT ANALYSIS, COORDINATION STUDY AND ARC FLASH STUDIES ALONG WITH SUBMITTAL.

2.ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ANY CHANGE IN SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT BASED ON THE STUDIES.

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DRAWING TITLE

PANEL SCHEDULES

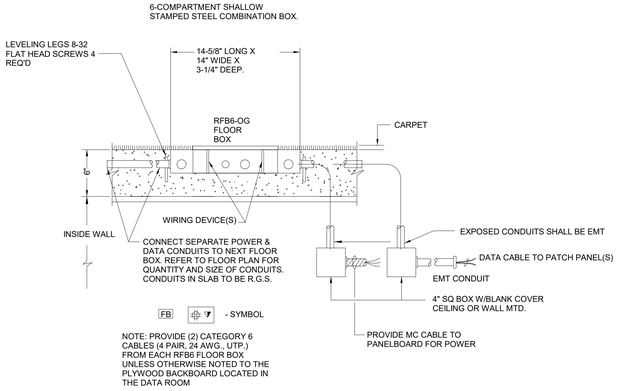
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	
DATE	10/07/22
DRAWN BY	SM
APPROVED BY	BJZ

ISSUE DATES

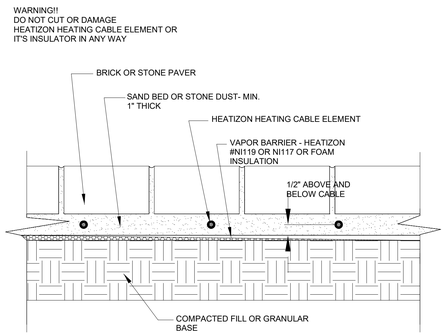
NO.	DATE	PURPOSE

E3.03

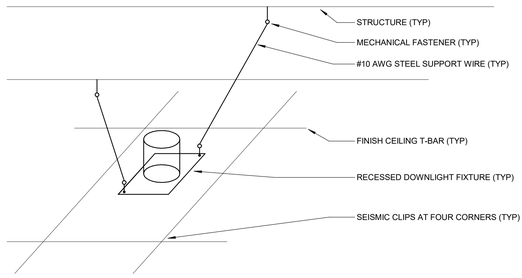
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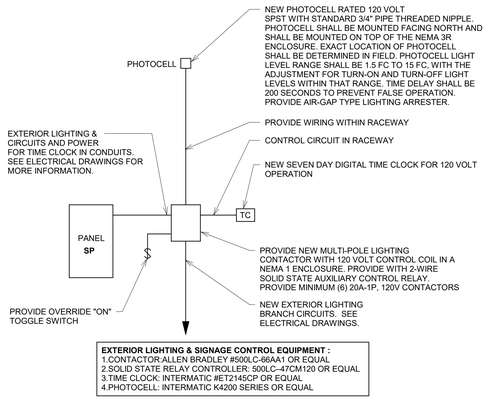
1 IN-SLAB FLOOR BOX DETAIL
NTS



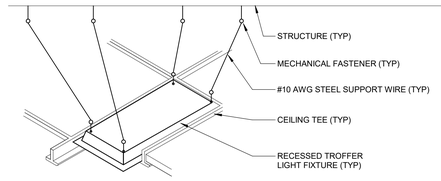
2 SNOW MELT HEATING CABLE PAVERS SAND DETAIL
NTS



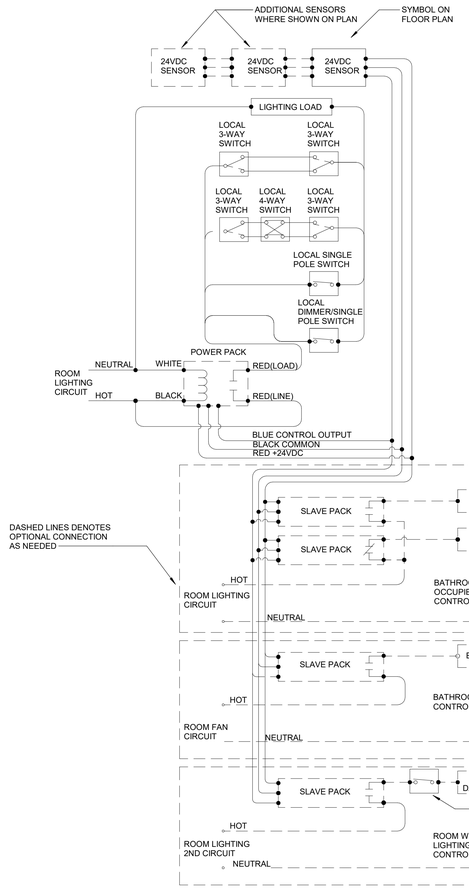
4 TYPICAL RECESSED DOWNLIGHT SUPPORT DETAIL
NTS



3 EXTERIOR LIGHTING CONTROL DETAIL
NTS



5 TYPICAL RECESSED TROFFER LIGHT SUPPORT DETAIL
NTS



NOTE:

1. NO MORE THAN THREE SENSORS TO ONE POWER PACK
2. DASHED LINES INDICATE OPTIONAL POSSIBILITIES

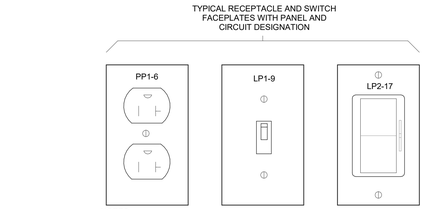
TYPICAL SPECIFICATIONS:

1. CEILING MOUNTED OCCUPANCY SENSORS - WATTSTOPPER DT-355 SERIES LOW VOLTAGE, DUAL TECHNOLOGY CEILING SENSOR, OR APPROVED EQUAL.
2. POWER PACK - WATTSTOPPER BZ50RC UNIVERSAL VOLTAGE POWER PACK,OR APPROVED EQUAL.
3. SLAVE RELAY PACK - WATTSTOPPER S120/277/347E-P, OR EQUAL.

RESTROOM OCCUPANCY SENSOR SEQUENCE OF OPERATION:

1. WHEN THE CEILING MOUNTED OCCUPANCY SENSOR DETECTS ROOM ENTRY THE LIGHTS AND EXHAUST FAN SHALL TURN ON.
2. THE SENSOR SHALL BE SET FOR 10 MINUTE OFF DELAY, SO FAN AND LIGHTS WILL STAY ON FOR 10 MINUTES WHEN THE SENSOR STOPS DETECTING OCCUPANCY.
3. THE LOCAL SWITCH AT THE DOOR SHALL MANUALLY TURN OFF THE LIGHTS ONLY, THE FAN SHALL RUN FOR THE PRESET 10 MINUTES

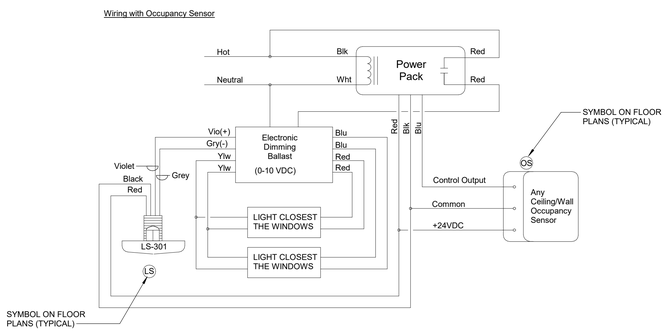
8 TYPICAL ROOM OCCUPANCY SENSOR WIRING SCHEMATIC
NTS



NOTES:

1. ALL COVER PLATES SHALL BE HIGH IMPACT MOLDED THERMOPLASTIC (NYLON).
2. ALL LABELING SHALL UTILIZE ABRASION RESISTANT LAMINATED ADHESIVE LABELS WITH 1/4" TALL BLACK TEXT, IN ARIAL FONT, ON CLEAR BACKGROUND. DESIGN BASED ON BROTHER P-TOUCH LABELS.
3. APPLIES TO ALL DEVICES IN ALL AREAS.
4. PANEL & CIRCUIT DESIGNATION LABEL SHALL BE PLACED BOTH ON FACEPLATE & ALSO INSIDE THE FIXTURE BACK BOX.

6 TYPICAL DEVICE FACEPLATE/BACK BOX LABELING DETAIL
NTS



LS-301 Wiring Schematic

Operation:
Occupancy Sensor switches
Lights ON/Off. When occupied, the
LS-301 dims the lights as daylight
increases.

NOTE:

1. NO MORE THAN THREE SENSORS TO ONE POWER PACK
2. DASHED LINES INDICATE OPTIONAL POSSIBILITIES

TYPICAL SPECIFICATIONS:

1. CEILING MOUNTED DAYLIGHTING SENSOR WITHIN 12' OF THE WINDOWS SHALL BE -WATTSTOPPER LS-301 LOW VOLTAGE SENSOR OR APPROVED EQUAL. PROVIDE (6) SENSORS FOR ATTIC STOCK.
2. PROVIDE LSR-301-S SETUP REMOTE CONTROL. PROVIDE (6) REMOTE CONTROLLER FOR ATTIC STOCK.
3. POWER PACK - WATTSTOPPER BX50RC UNIVERSAL VOLTAGE POWERPACK, OR APPROVED EQUAL. PROVIDE (6) POWER PACKS FOR ATTIC STOCK.
4. SLAVE RELAY PACK - WATTSTOPPER S120/277/347E-P, OR EQUAL.

DAYLIGHTING SEQUENCE OF OPERATION:

1. THE DAYLIGHTING SENSORS SHALL MEASURE THE TOTAL LIGHT LEVEL. FROM DAYLIGHT AND ELECTRIC LIGHT IN THE CONTROLLED. AS THE DAYLIGHT CONTRIBUTION INCREASES THE LIGHTS SHALL DIM DOWN. THE SENSORS SHALL CALCULATE THE REQUIRED LIGHT LEVEL FOR CURRENT DAYLIGHT CONTRIBUTION BASED ON TWO SETPOINTS. ONE SETPOINT SHALL BE THE TARGET LEVEL WHEN NO DAYLIGHT IS PRESENT (NIGHT SETPOINT) AND THE SECOND SETPOINT SHALL BE THE TARGET LEVEL WHEN SIGNIFICANT DAYLIGHT IS PRESENT (DAY SETPOINT).
2. THE DAYLIGHTING SYSTEM SHALL BE COMMISSIONED BY A FACTORY AUTHORIZED TECHNICIAN.
3. CONSULT FACTORY FOR OPTIMAL MOUNTING LOCATION OF DAYLIGHTING SENSOR.

7 TYPICAL DAYLIGHT WITH OCCUPANCY SENSOR WIRING DETAIL
NTS

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ELECTRICAL DETAILS

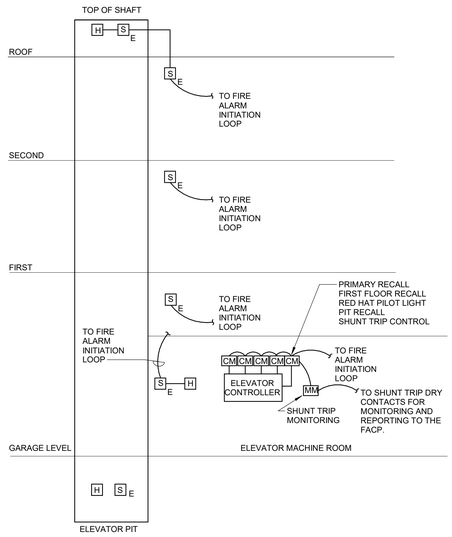
STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
DATE	10/07/22
DRAWN BY	SM
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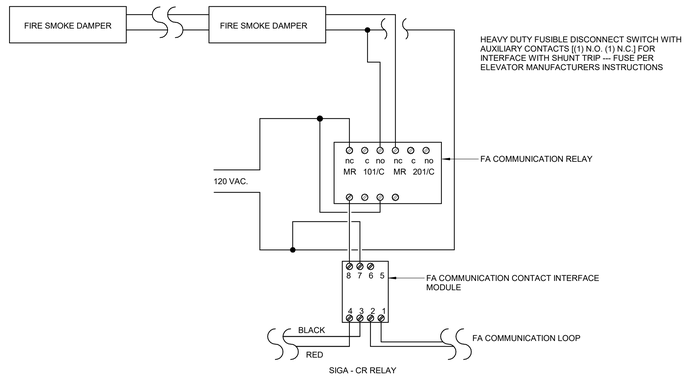
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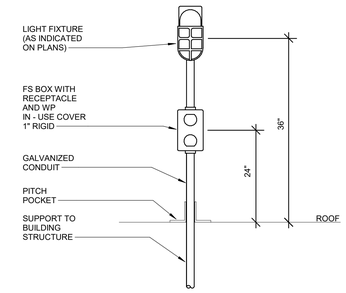


NOTES:
1. DO NOT INSTALL CONDUIT IN ELEVATOR SHAFT.
2. COORDINATE LOCATION OF ALL DEVICES WITH ELEVATOR VENDOR.

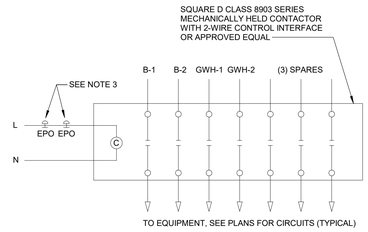
1 ELEVATOR RECALL RISER DETAIL
NTS



2 TYPICAL 120V FIRE/SMOKE DAMPER WIRING
NTS

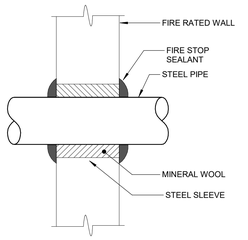


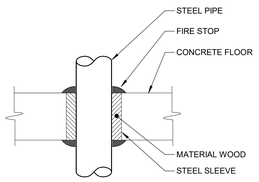
3 ROOF LIGHT FIXTURE AND RECEPTACLE - MOUNTING DETAIL
NTS



NOTES
1. PROVIDE CONTACTOR WITH QUANTITY OF POLES REQUIRED TO SHUT POWER DOWN TO EQUIPMENT LISTED PLUS (3) SPARE POLES. COORDINATE LOCATION IN MECHANICAL ROOM IN FIELD.
2. COORDINATE CONNECTIONS TO EQUIPMENT/CONTROL PANELS IN FIELD.
3. EPO TOGGLE SWITCHES AS SHOWN ON THE DRAWINGS.

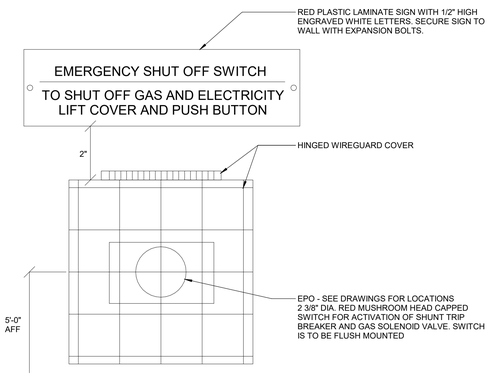
4 BOILER ROOM EPO DETAIL
NTS



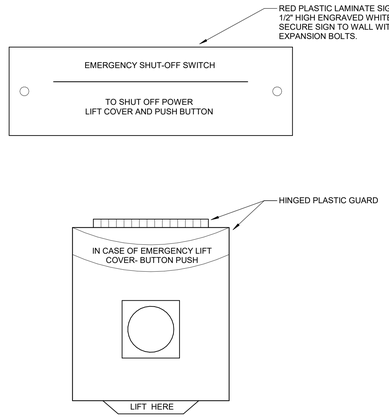


NOTES:
1. 4" STEEL PIPE MAXIMUM (REFER TO FLOOR PLANS FOR SIZE REQUIREMENTS).
2. 6" DIA. OPENING (MAX) WITH STEEL SLEEVE.
3. SLEEVE: 4" OF 4PCF MINERAL WOOL IN OPENING.
4. APPLY FIRE STOP SEALANT THICKNESS MANUFACTURE'S INSTALLATION INSTRUCTIONS. APPLY SEALANT OVER MINERAL WOOL ON EACH SIDE OF PENETRATION.

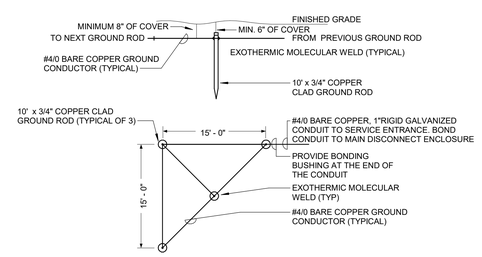
5 CONDUIT/SLEEVE WALL & FLOOR PENETRATION DETAILS
NTS



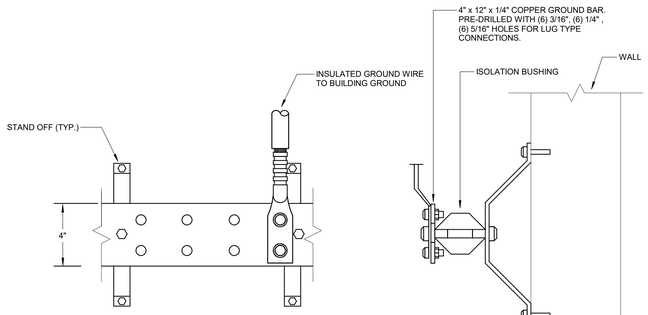
8 EMERGENCY SHUT-OFF SWITCH WITH WIRE GUARD DETAIL
12" = 1'-0"



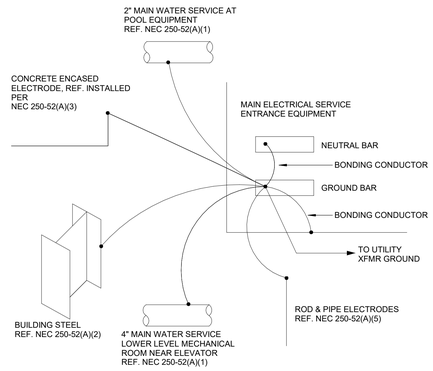
6 EMERGENCEY SHUT-OFF SWITCH WITH PLASTIC GUARD DETAIL
NTS



9 GROUND ROD POISE DETAIL
NTS



10 GROUNDING BUS BAR DETAIL
NTS



NOTES:
A. REFER TO GROUNDING ELECTRODE TABLE FOR CONNECTIONS REQUIRED AS RELATED TO THIS PROJECT.
B. ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.

11 GROUNDING ELECTRODE SYSTEM DETAIL
NTS

GROUNDING ELECTRODE CONNECTIONS AVAILABILITY AND REQUIREMENTS FOR THIS PROJECT

NEC REFERENCE	AVAIL. YES	REQ'D YES	NOTES
250-52(A)(1)	X	X	1
250-52(A)(2)	X	X	1
250-52(A)(3)	X	X	1,4
250-52(A)(4)	X	X	2
250-52(A)(5)	X	X	2
250-52(A)(6)	X	X	2
250-52(A)(7)	X		2

GROUNDING ELECTRODE CONDUCTOR SIZE:3/0 AWG COPPER

NOTES:
1. NEC ARTICLE 250-52 INDICATES A PRIORITY LIST OF GROUNDING ELECTRODE CONNECTIONS WITH (1) BEING THE HIGHEST PRIORITY AND (7) BEING THE LOWEST.
2. CONNECTION TO ITEMS MADE UNDER ARTICLE 250-52(A)(4),(5),(6) & (7) SHALL NOT SUBSTITUTE CONNECTIONS TO 250-52 (1), (2), OR (3), UNLESS NONE OF THESE SYSTEMS ARE AVAILABLE.
3. GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL COMPLY WITH NEC ARTICLE 250.53.
4. REFER TO NEC ARTICLE 250.50, EXCEPTION.

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DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
ELECTRICAL DETAILS

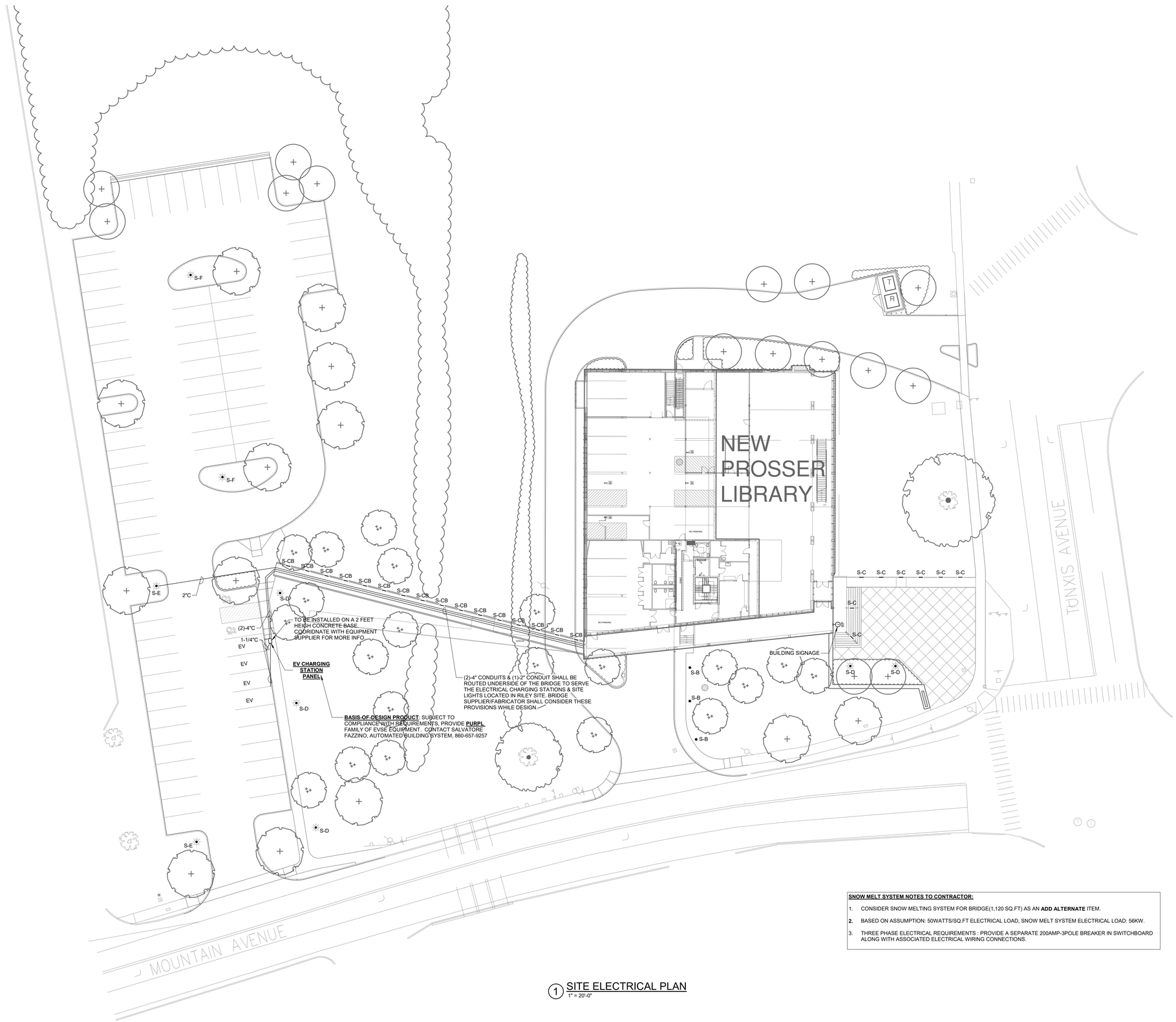
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PROJ. NO.	200802
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1 SITE ELECTRICAL PLAN
1" = 20'-0"

SNOW MELT SYSTEM NOTES TO CONTRACTOR:

1. CONSIDER SNOW MELTING SYSTEM FOR BRIDGE(1,120 SQ.FT) AS AN **ADD ALTERNATE** ITEM.
2. BASED ON ASSUMPTION: 50WATTS/SQ.FT ELECTRICAL LOAD, SNOW MELT SYSTEM ELECTRICAL LOAD: 56KW.
3. THREE PHASE ELECTRICAL REQUIREMENTS : PROVIDE A SEPARATE 200AMP-3POLE BREAKER IN SWITCHBOARD ALONG WITH ASSOCIATED ELECTRICAL WIRING CONNECTIONS.

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KEY PLAN

DRAWING TITLE
SITE ELECTRICAL PLAN

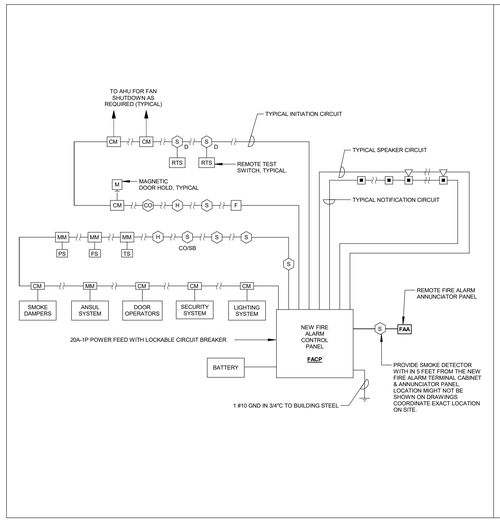
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PROJ. NO.	200802
SCALE	1" = 20'-0"
DATE	10/07/22
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NO.	DATE	PURPOSE

ES1.01

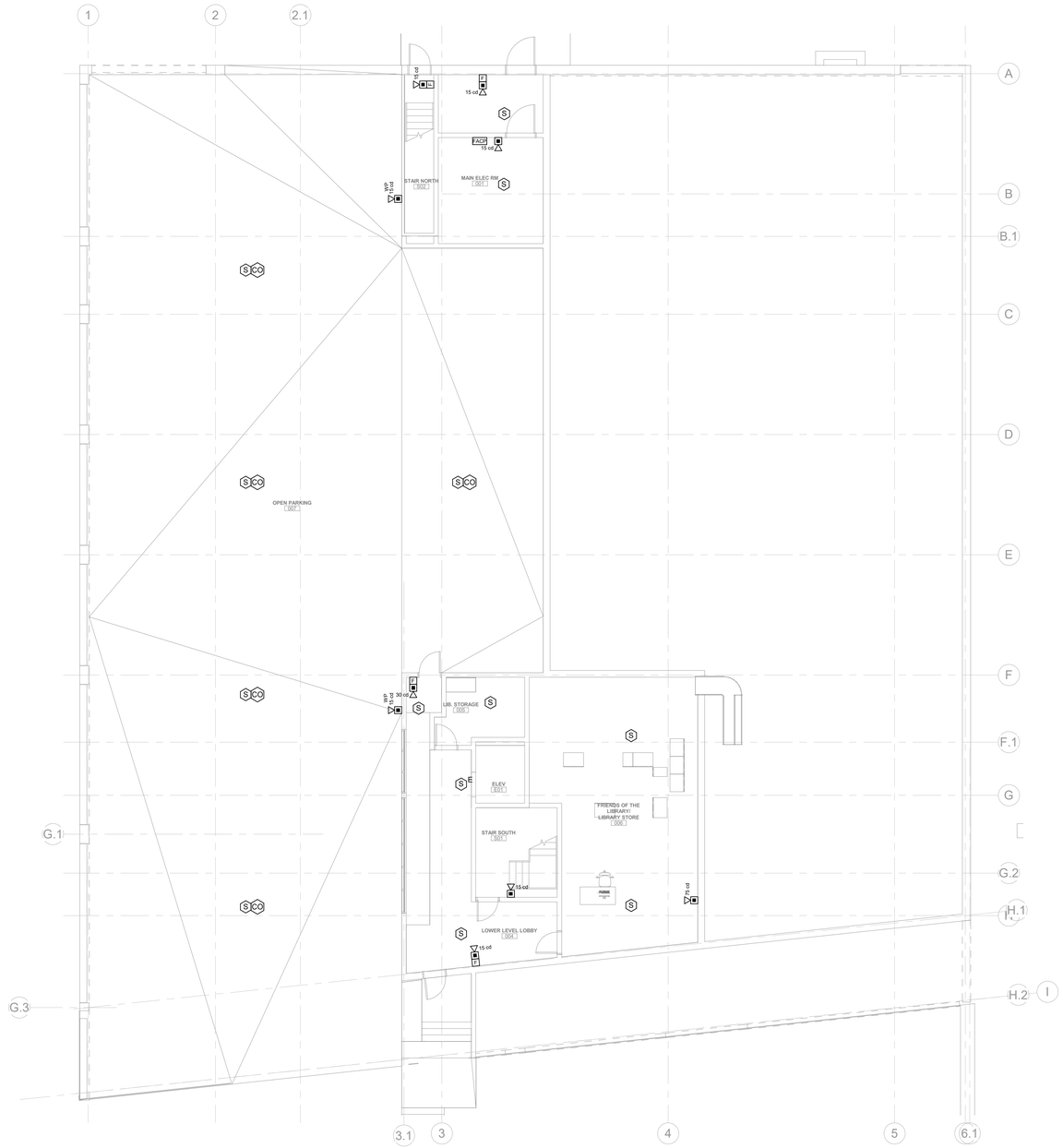
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GENERAL FIRE ALARM SYSTEM NOTES:

1. FOR ADDITIONAL INFORMATION REFER TO SYMBOL LEGEND, ABBREVIATIONS LIST, AND ALL NOTES AND SPECIFICATIONS.
2. COORDINATE ALL REQUIREMENTS WITH LOCAL FIRE DEPARTMENT
3. PROVIDE ALL FIRE ALARM DEVICE WIRING PER MANUFACTURER'S SPECIFICATIONS.
4. ALL WIRING SHALL BE TYPE CLASS A.
5. PROVIDE EXTRA POWER SUPPLIES AND TRANSPONDERS (WIRED TO NEW DEDICATED 120V CIRCUITS) WHERE REQUIRED BY MANUFACTURER.
6. TYPICAL DEVICES SHOWN IN RISER. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
7. COORDINATE INTERCONNECTION WITH EXISTING BUILDING FIRE ALARM SYSTEM, ALL FIRE ALARM WORK, WITH BUILDING OWNER'S FIRE ALARM VENDOR.
8. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES.
9. CARBON MONOXIDE DETECTORS SHALL EMIT A SUPERVISORY SIGNAL TO THE FACP WHEN ACTIVATED.
10. CONTRACTOR IS RESPONSIBLE FOR SIZING BATTERY CABINET CAPABLE OF SUPPORTING THE ENTIRE PROJECT FIRE ALARM SYSTEM IN THE EVENT OF A POWER FAILURE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS AND SMOKE DAMPERS. REMOTE TEST SWITCHES SHALL BE FLUSHED IN CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR (OR IN CLOSEST DROPPED CEILING TO DETECTOR), UNLESS OTHERWISE NOTED.
12. UNLESS OTHERWISE NOTED IN SPECIFICATIONS, ALL WIRING SHALL BE IN CONDUIT, OR MC CABLE WHERE PERMITTED.
13. LOCATE ONE SMOKE DETECTOR ON CEILING ABOVE EACH FIRE ALARM REMOTE PANEL CABINET.
14. LOCATE BATTERY CABINET IN SAME ROOM AS THE PANEL IT IS CONNECTED TO.
15. PROVIDE ISOLATION MODULES AFTER EVERY 50TH DEVICE, AND TO ISOLATE PROJECT DEVICES FROM EXISTING BUILDING DEVICES.
16. ALL COMPONENTS SHALL BE FULLY COMPATIBLE WITH EXISTING BUILDING FIRE ALARM SYSTEM. PROVIDE ALL UPGRADES AND PROGRAMMING REQUIRED FOR COMPLETE COMPATIBILITY AND PROPER OPERATION.
17. THIS DIAGRAM IS INTENDED TO SHOW THE GENERAL RELATIONSHIP OF DEVICES AND CONTROL PANEL IS NOT INTENDED TO SHOW ALL DEVICES. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATION OF ALL DEVICES.
18. DIVISION 26 CONTRACTOR TO PROVIDE AND SUPPLY ALL DUCT MOUNTED SMOKE DETECTORS TO THE DIVISION 23 CONTRACTOR FOR INSTALLATION IN THE DUCT. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING OF DUCT DETECTORS.

3 FIRE ALARM RISER DIAGRAM (TYPICAL)
As indicated



1 LOWER LEVEL FIRE ALARM PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE
LOWER LEVEL FIRE ALARM PLAM

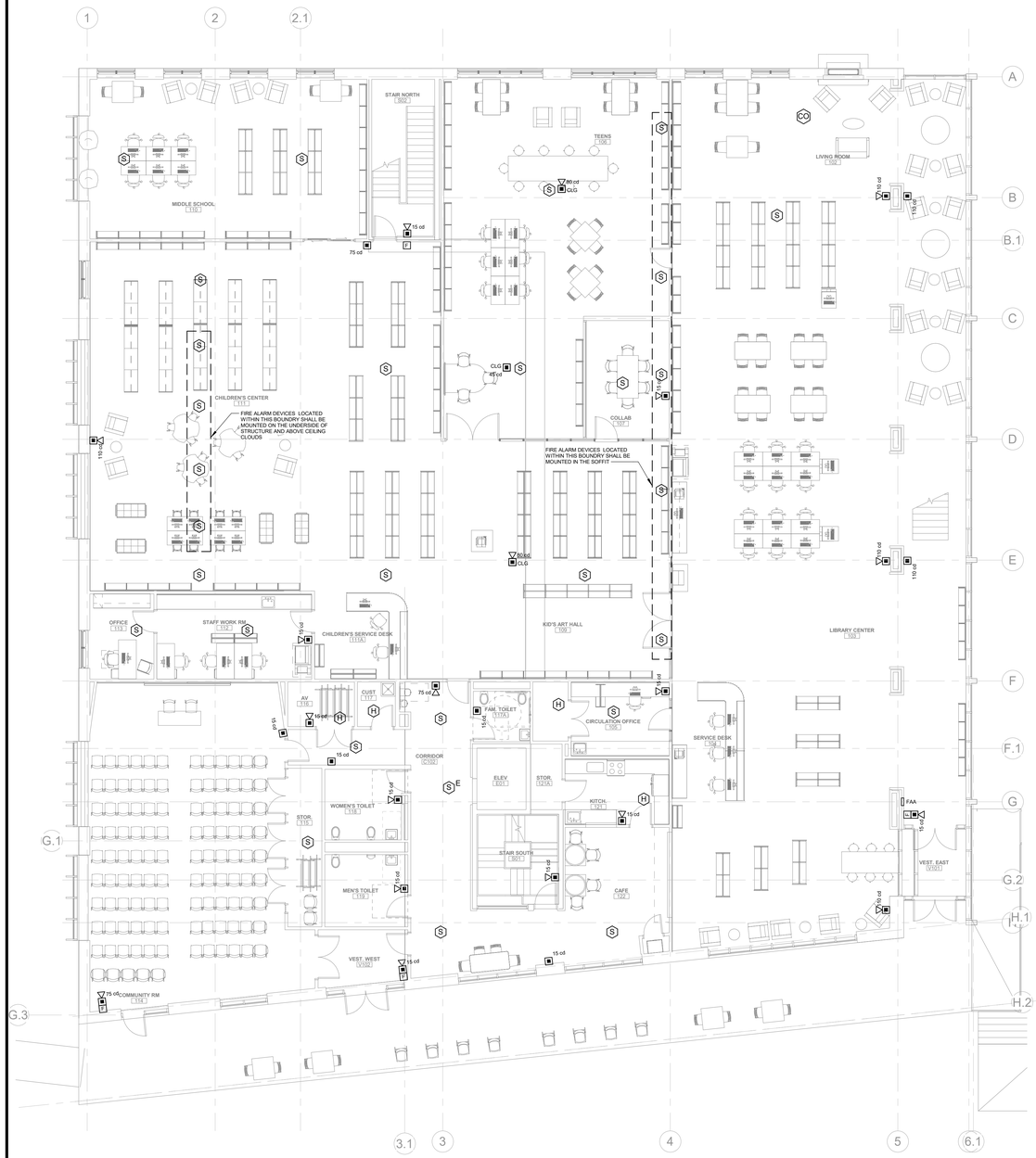
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1 FIRST FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

2 SECOND FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE
FIRST & SECOND FLOOR FIRE ALARM PLANS

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ABBREVIATIONS

A	GENERAL SERVICE COMPRESSED AIR
A/AMP	AMPERE
AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT(S)
AD	ACCESS DOORS
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AS	AIR SEPARATOR
AV	ACID VENT (CHEMICAL)
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS/HOUR
C	CONNDESATE
CB	CIRCUIT BREAKER
CER/CEG	CEILING EXHAUST REG./GRILLE
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	CEILING
CLPS	CLEAN LOW PRESSURE STEAM
CMPS	CLEAN MEDIUM PRESSURE STEAM
CMV	CEILING MOUNTED VENTILATOR
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CW	COLD WATER
D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DCV	DOUBLE CHECK VALVE
DE	DEIONIZED PROCESS WATER
DEG or °	DEGREE
DI	DISTILLED WATER
DIA	DIAMETER
DN	DOWN
DWBP	DOMESTIC WATER BOOSTER PUMP
DWG	DRAWING
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRICAL HEATING CABLES
ELEC	ELECTRICAL
ELEV	ELEVATOR
ETP	ELECTRIC TRAP PRIMER
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
F	FAHRENHEIT
FA	FIRE ALARM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FM	FLOW METER
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FOOR OR FEET
FVC	FIRE VALVE CABINET
G	GAS
GA	GAUGE
GAL	GALLONS
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRU	GREASE RECOVERY UNIT
GW	GREASE WASTE
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HT	HEAT
HTR	HEATER
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN

ABBREVIATIONS

HWRP	HOT WATER RETURN PUMP
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGE
ID	INSIDE DIAMETER
IEF	IN-LINE EXHAUST FAN
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESSURE)
IW	INDIRECT WASTE
JP	JOCKEY PUMP
KEF	KITCHEN EXHAUST FAN
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KITCHEN WATER HEATER
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LG	LABORATORY GAS
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
MA	MEDICAL COMPRESSED AIR
MAGP	MASTER ALARM GAS PANEL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
MUAU	MAKE UP AIR UNIT
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
P	POLE
PH / Ø	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROOF DRAIN
REF	ROOF EXHAUST FAN
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPD/RPZ	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RV	RADON VENT
RL	RAIN LEADER
S	SOIL
SAC	SHOP AIR COMPRESSOR
SCP	STEAM CONDENSATE PUMP
SEP	SEWAGE EJECTOR PUMP
SP	STATIC PRESSURE
SP	SUMP PUMP
SPEC	SPECIFICATION
SQ	SQUARE
SS	SOIL/STACK
ST	STORM
STD	STANDARD
SWH	STEAM WATER HEATER
TAG	IDENTIFICATION OF EQUIPMENT
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
V	VENT
VAC	VACUUM
VEL	VELOCITY
VFC	VARIABLE FREQUENCY CONTROLLER
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WG	WIREGUARD
WH	WALL HYDRANT (HOSE BIBB)
WHA	WATER HAMMER ARRESTER
WI	WIDTH
WP	WEATHERPROOF
WTG	WALL TRANSFER GRILLE
WV	WASTE AND VENT COMBINATION

PLUMBING SYMBOLS

- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATING
- VENT
- SOIL OR WASTE PIPE
- OVERFLOW RAIN LEADER
- RAIN LEADER
- STORM DRAIN
- GAS PIPE
- (M) WATER METER ASSEMBLY
- (G) GAS METER ASSEMBLY
- FLOOR DRAIN

MAXIMUM HOT WATER ROUGH IN LENGTH

NOMINAL PIPE SIZE	MAXIMUM PIPE LENGTH FROM END OF HEAT TRACE OR RECIRCULATED MAIN TO FIXTURE STOP (FEET)
PUBLIC LAVATORIES	
1/2"	2
3/4" AND LARGER	0.5
OTHER FIXTURES AND APPLIANCES	
1/2"	43
3/4"	21
1"	16
1-1/4"	8
1-1/2"	6
2" AND LARGER	4
IECC TABLE C404.5.1	

FITTINGS AND VALVES

- BALL VALVE
- DIRECTION OF FLUID FLOW
- GATE VALVE
- GAS COCK
- CHECK VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- SOLENOID VALVE
- DRAIN VALVE WITH HOSE END, CAP & CHAIN OR HOSE BIBB
- WALL HYDRANT
- PIPE DROP WITH VALVE
- TAKEOFF FROM TOP OF MAIN PIPE
- TAKEOFF FROM BOTTOM OF MAIN PIPE
- UNION
- PIPE ELBOW UP OR PIPE TEE UP
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- WALL CLEANOUT OR BLIND FLANGE
- FLOOR CLEANOUT
- "P" TRAP
- STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
- BACKFLOW PREVENTER (2" AND SMALLER)
- BACKFLOW PREVENTER (2 1/2" AND LARGER)
- PUMP
- WATER HAMMER ARRESTOR
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- PIPE CAP OR CAPPED END OF PIPE
- STEEL PENETRATION / PIPE SLEEVE
- PIPE GUIDES
- AIR VENT
- PRESSURE RELIEF SAFETY VALVE
- (A) AQUASTAT
- (T) TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
- (T) TEMPERATURE GAUGE WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
- THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
- (P) PRESSURE GAUGE
- FLEXIBLE CONNECTOR

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED PLUMBING SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, OFFSETS, ETC. AS REQUIRED TO INSTALL PIPING, EQUIPMENT, MAINTAINING PROPER CLEARANCES AND TO AVOID ANY CONFLICTS WITH OTHER TRADES, AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE, AND VENT PIPING SYSTEMS. REFER TO THE PLUMBING SCHEDULES FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
11. PROVIDE PROPER PIPING SYSTEM IDENTIFICATION LABELS, SLOPES FOR DRAIN PIPING, CLEANOUTS, HANGERS, ETC. IN ACCORDANCE WITH THE PLUMBING CODE.
12. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES OR EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT. MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
13. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC.); SIZE SHALL BE BASED ON FIXTURE UNITS PER PDI STANDARDS AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
14. ALL PIPING, DRAINS, STRAINERS, FAUCETS, FAUCET AERATORS, FILTERS, ETC. SHALL BE THOROUGHLY CLEANED AND FLUSHED IMMEDIATELY BEFORE PROJECT COMPLETION. PROVIDE CERTIFICATION ON CONTRACTOR'S LETTER HEAD THAT THIS WORK HAS BEEN COMPLETED.
15. DOMESTIC WATER DROPS AND RISERS INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF INSULATION AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
16. BEFORE INSTALLATION, COORDINATE THE WORK WITH OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, FACTORY START UPS AND INSTALLATION OF FIELD DEVICES.
17. PIPE ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT COOLING COILS, BY GRAVITY (INTERIOR AIR HANDLING UNITS, FAN COIL UNITS, AC UNITS, ETC.) TO FLOOR DRAINS, JANITOR'S SINKS OR OTHER APPROVED LOCATION THROUGH AN AIR GAP. EACH CONDENSATE DRAIN SHALL BE TRAPPED AT THE EQUIPMENT DRAIN OUTLET, REFER TO TRAP DETAILS ON DRAWINGS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH THE HVAC CONTRACTOR AND ADJUST AS NECESSARY.
18. INSULATE ALL WASTE ABOVE SLAB RECEIVING CONDENSATE FROM EQUIPMENT INCLUDING "P" TRAPS AND BRANCH WASTE PIPING
19. ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS THROUGH AIR GAP.
20. INSTALL TRAP PRIMERS OR TRAP GUARD SEALER FOR FLOOR DRAINS, HUB DRAINS AND FIXED AIR GAP FITTINGS, WHERE TRAP IS SUBJECT TO LOSS OF SEAL BY EVAPORATION. CONNECT TRAP PRIMER TO COLD WATER LINE. PROVIDE ISOLATION VALVES AND EXTEND SLOPED PRIMING LINE TO DRAIN TRAPS.
21. COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FOR EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
22. ALL EXTERIOR EXPOSED GAS PIPING SHALL BE PRIMED AND PAINTED.
23. FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE INSTALLED ON A 6" CONCRETE HOUSE-KEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN THE EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
24. COORDINATE EXACT LOCATION OF PLUMBING SERVICES ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS PRIOR TO INSTALLATION. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER BEFORE COMMENCING WORK.
25. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
26. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
PLUMBING GENERAL INFORMATION

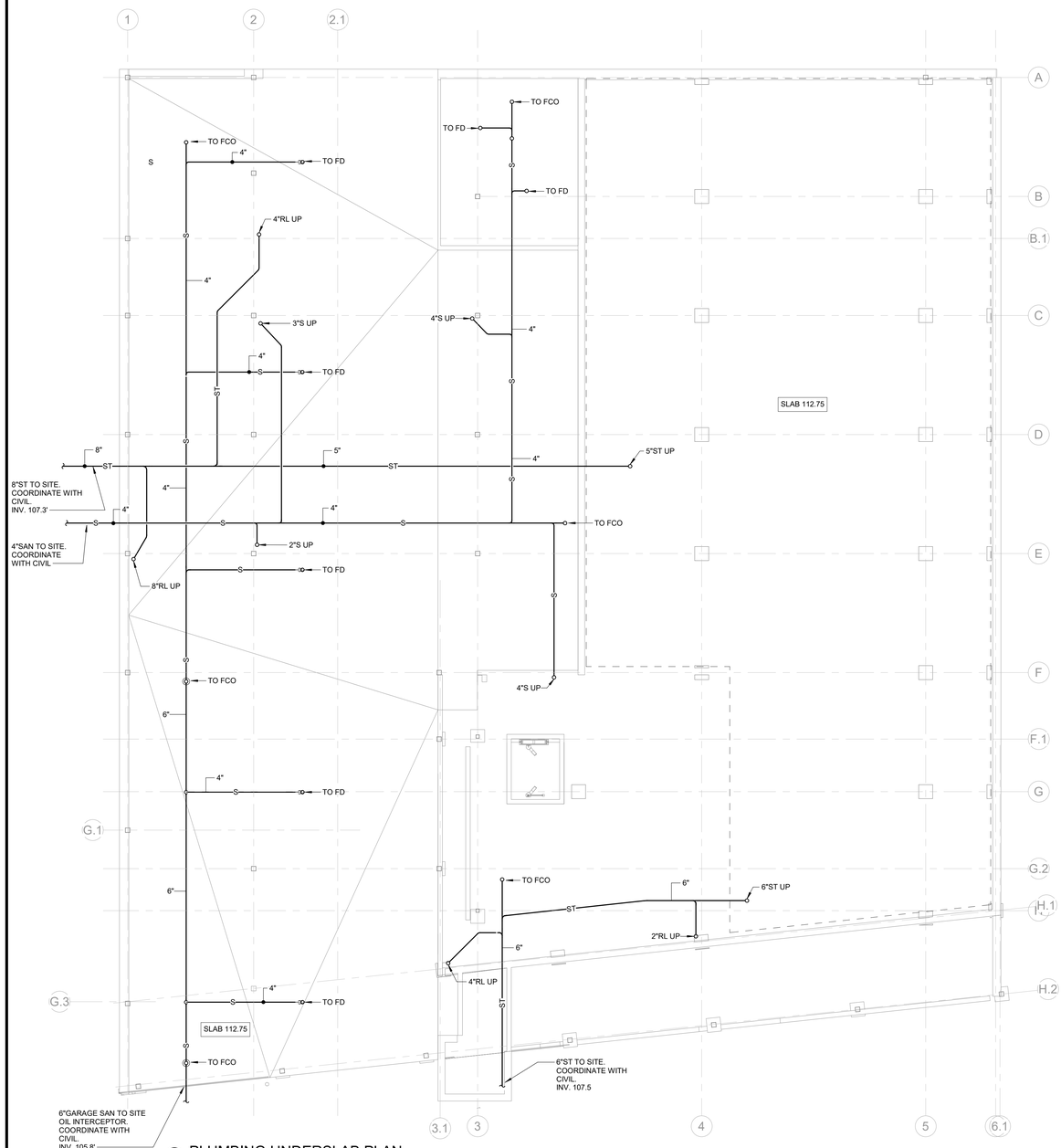
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PROJ. NO.	200802
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DATE	10/07/22
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APPROVED BY	BJZ

ISSUE DATES

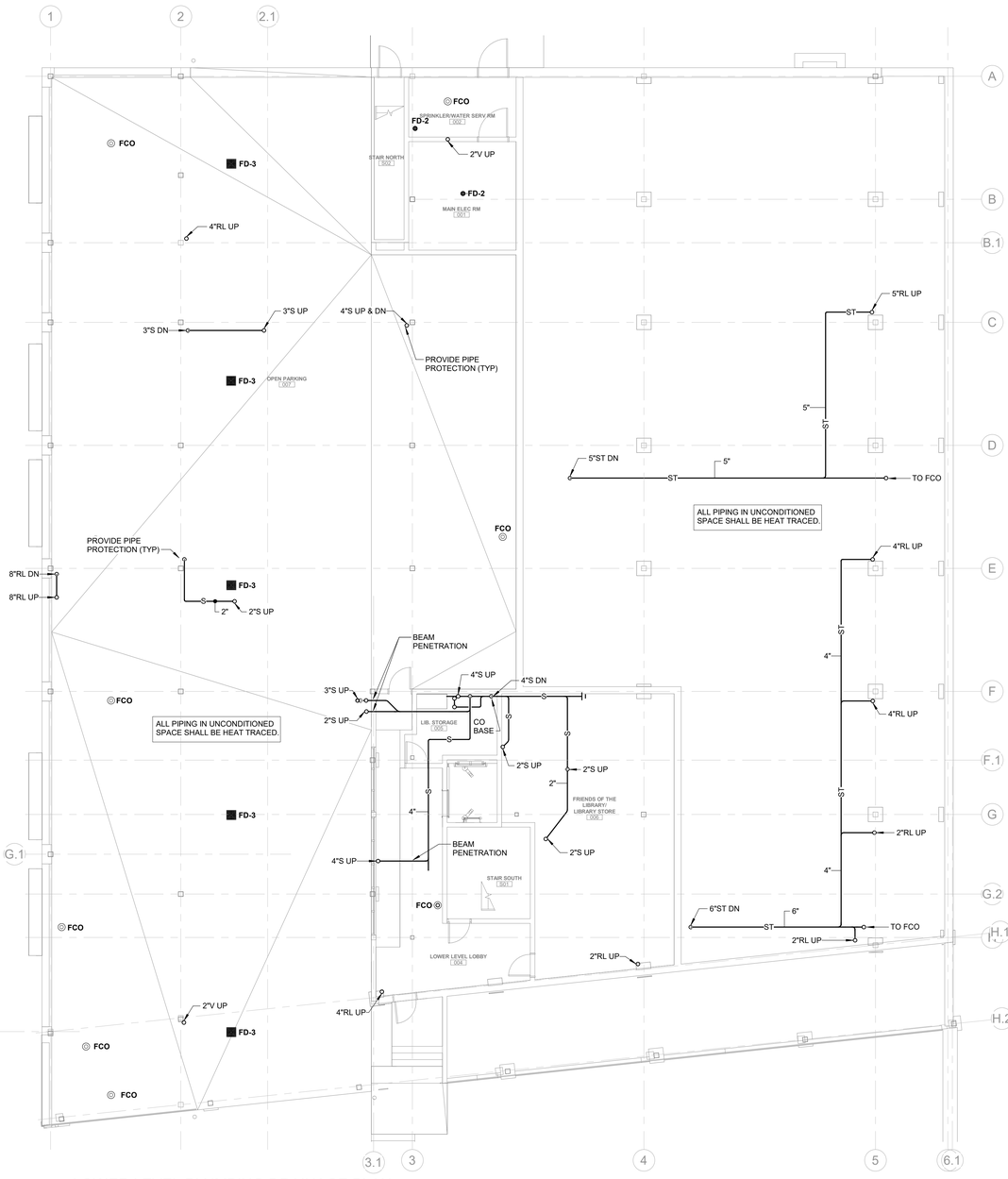
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P0.01

10/7/2022 3:07:30 PM BIM 360://Bloomfield Library - Prosser Building/MEP_21-360\Bloomfield Libraries-Prosser.rvt



1 PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"



2 LOWER LEVEL PLUMBING DRAINAGE PLAN
1/8" = 1'-0"

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UNDERSLAB AND
LOWER LEVEL PLUMBING
DRAINAGE PLANS

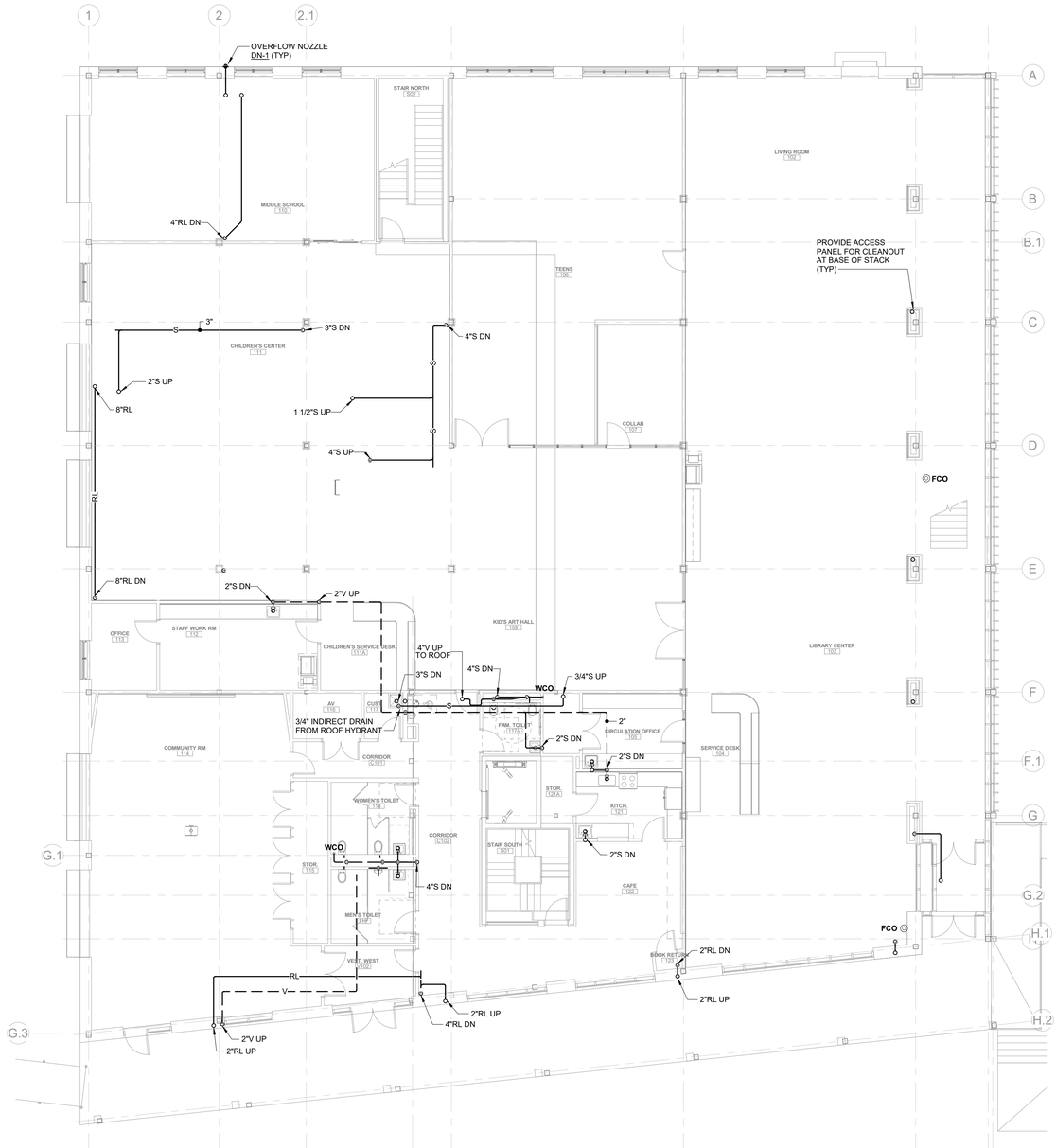
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ISSUE DATES

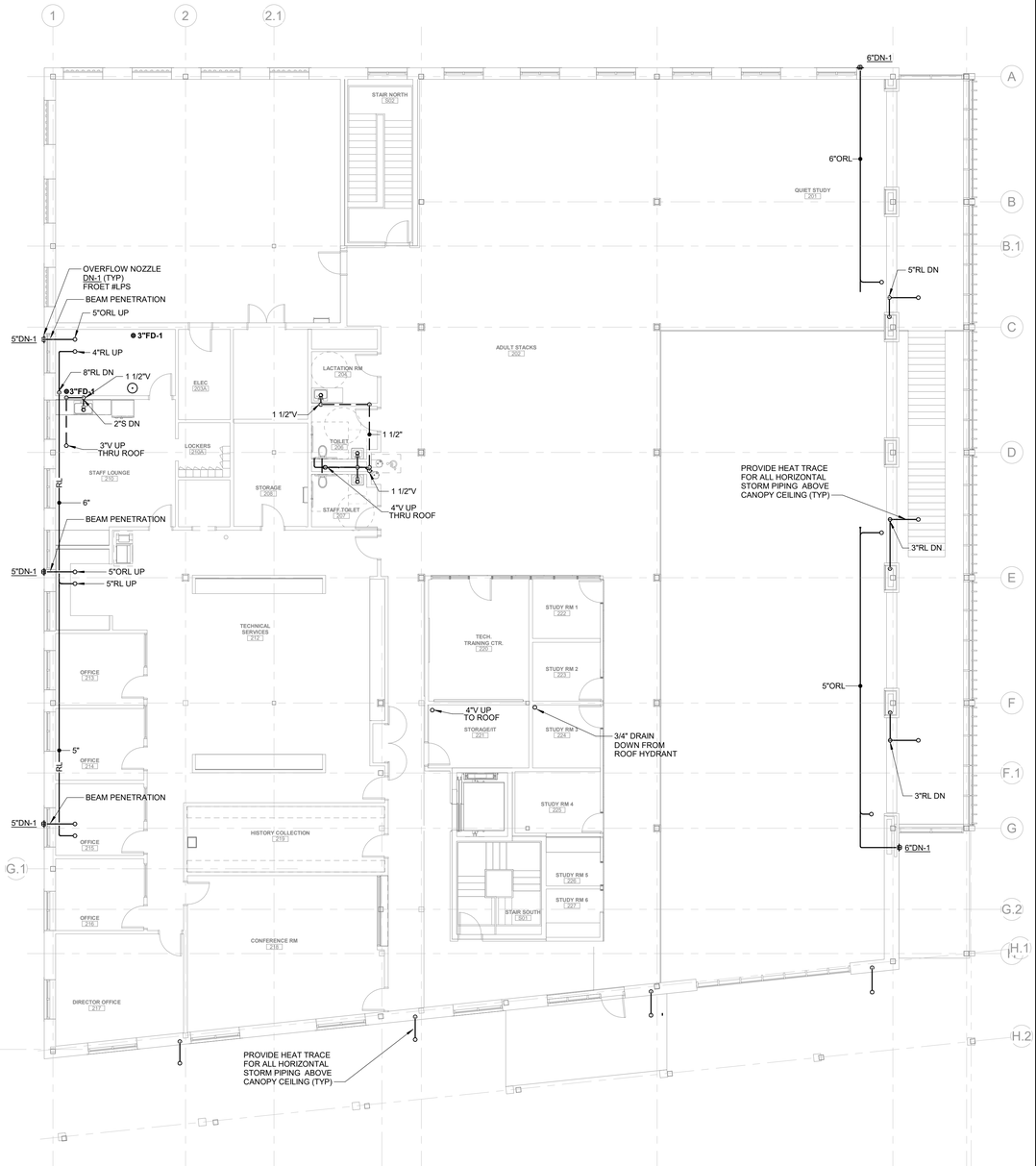
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P1.00

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1 FIRST FLOOR PLUMBING DRAINAGE PLAN
1/8" = 1'-0"



2 SECOND FLOOR PLUMBING DRAINAGE PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE
FIRST AND SECOND FLOOR PLUMBING DRAINAGE PLANS

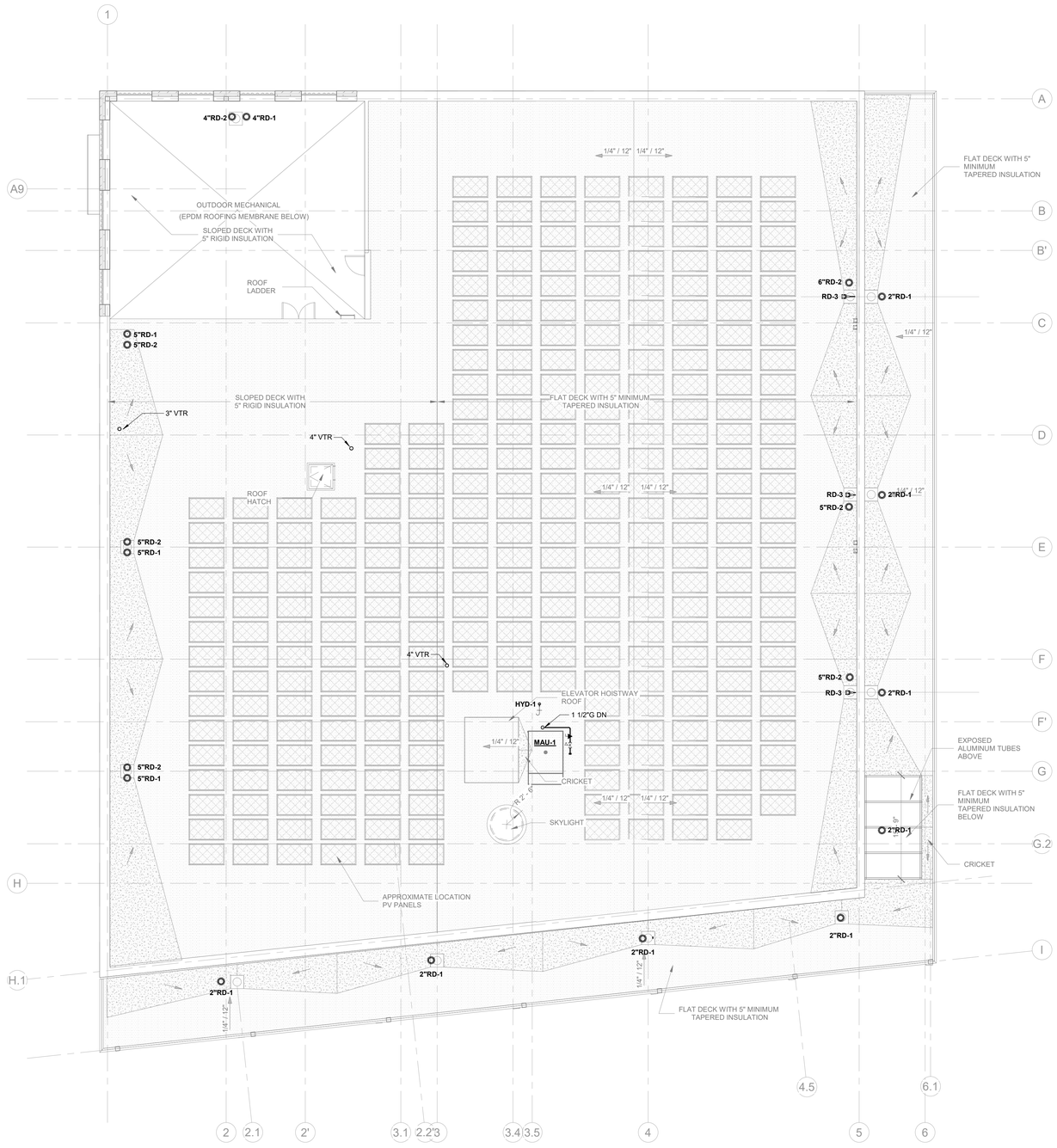
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ISSUE DATES

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P1.01

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1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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KEY PLAN

DRAWING TITLE
PLUMBING ROOF PLAN

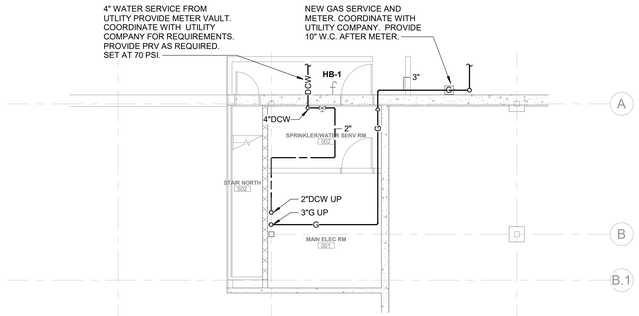
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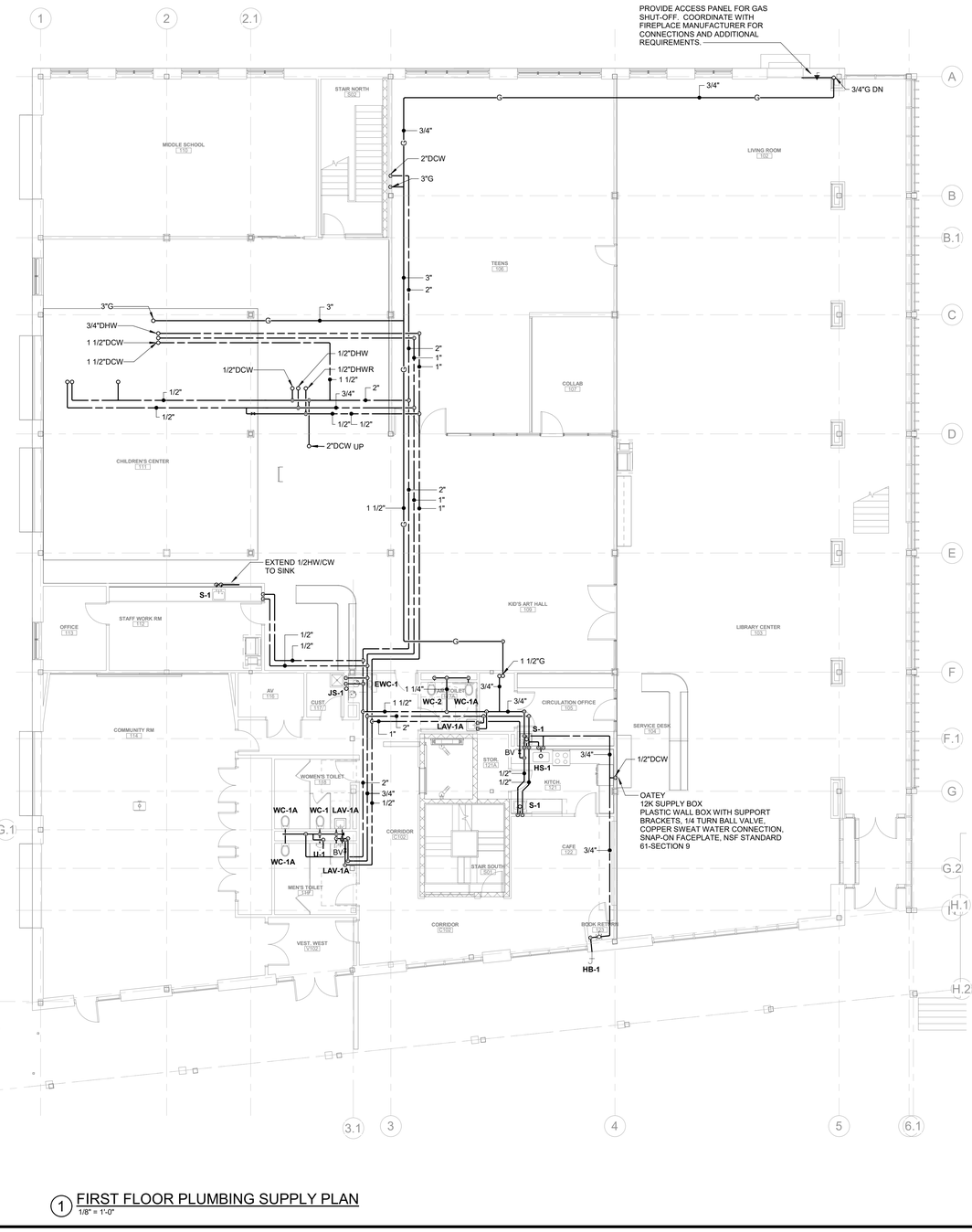
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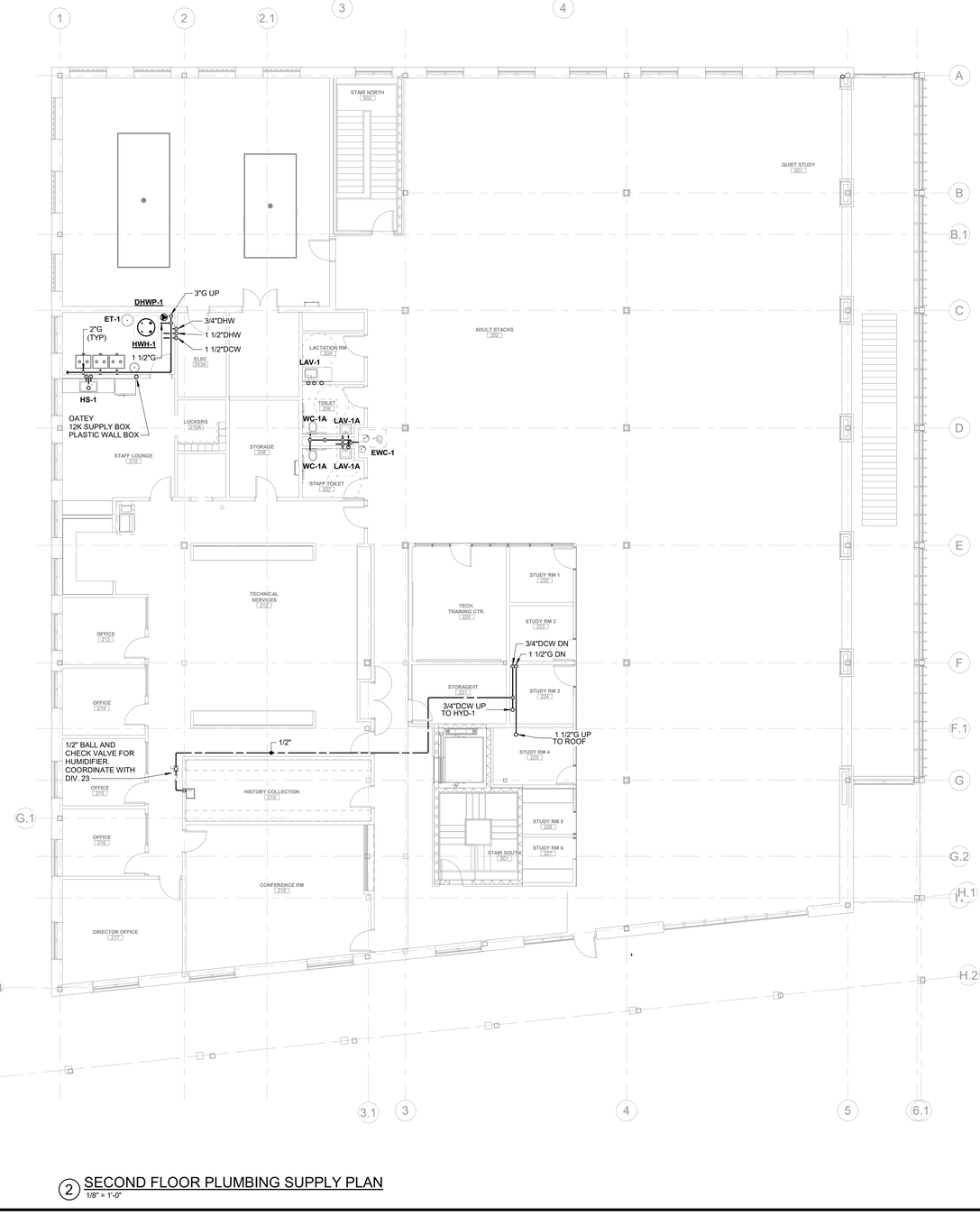
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3 LOWER LEVEL PLUMBING SUPPLY PART PLAN
1/8" = 1'-0"



1 FIRST FLOOR PLUMBING SUPPLY PLAN
1/8" = 1'-0"



2 SECOND FLOOR PLUMBING SUPPLY PLAN
1/8" = 1'-0"

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LOWER, FIRST AND SECOND FLOOR PLUMBING SUPPLY PLANS

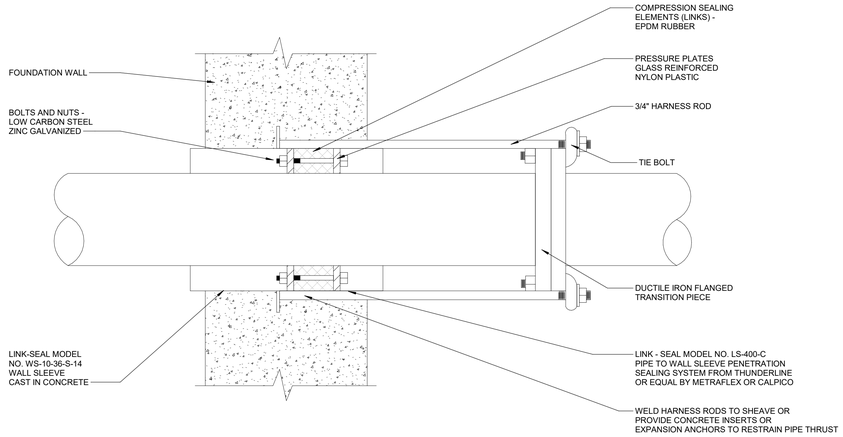
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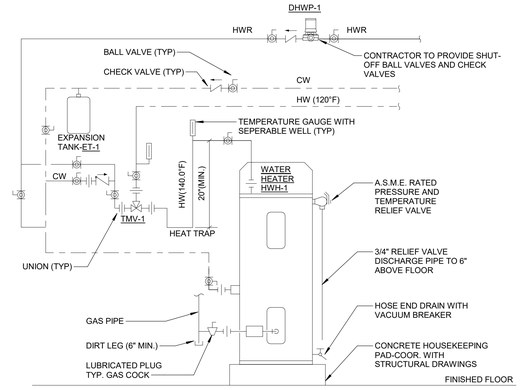
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P2.01

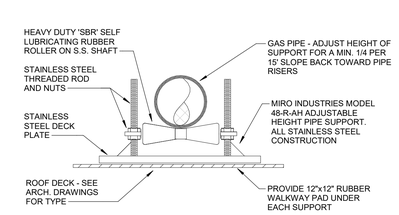
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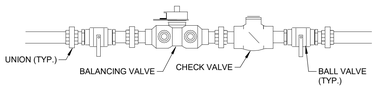
4 WATER SERVICE ENTRANCE DETAIL
12" = 1'-0"



1 GAS WATER HEATER PIPING DETAIL - HWH-1
NTS



8 GAS PIPE ROOF SUPPORT DETAIL
NTS

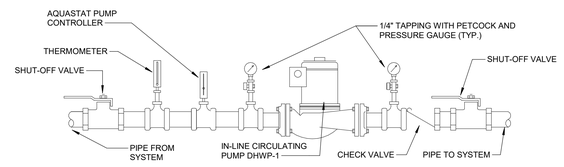


BALANCING VALVE:
WATTS, SERIES CSM-61, LINE SIZE, SOLDER END CONNECTIONS, BRONZE BODY, 1/4" BRASS PRESSURE TAPS

CHECK VALVE:
WATTS, SERIES CVS, LINE SIZE, SOLDER END CONNECTIONS, BRONZE BODY

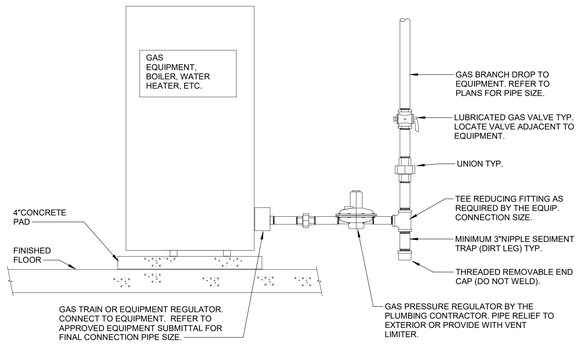
NOTE:
PRODUCTS INDICATED ARE BASIS OF DESIGN, EQUAL PRODUCTS WILL BE CONSIDERED.

5 HWR BALANCING VALVE DETAIL
NTS

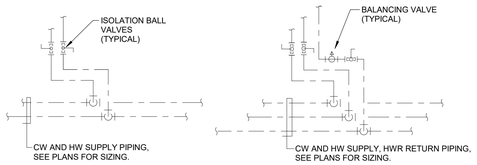


2 DOMESTIC HOT WATER RECIRC PUMP (DHWP-1) DETAIL
NTS

NOTES:
1. ALL NEW GAS PIPING SHALL BE PAINTED WITH PRIMER AND (2) COATS OF YELLOW RUST INHIBITIVE PAINT.
2. COORDINATE LOCATION OF GAS CONNECTION WITH EQUIPMENT LOCATION AND MECHANICAL CONTRACTOR.
3. GAS PRESSURE REGULATORS TO BE AS MANUFACTURED BY MAXITROL, FISHER OR SENSUS. CONTRACTOR TO SURVEY GAS UTILIZATION EQUIPMENT FOR SELECTION AND SIZING OF PROPER GAS REGULATORS.

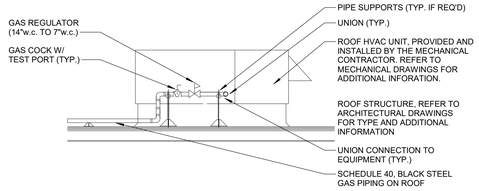


9 EQUIPMENT GAS CONNECTION DETAIL
1'2" = 1'-0"

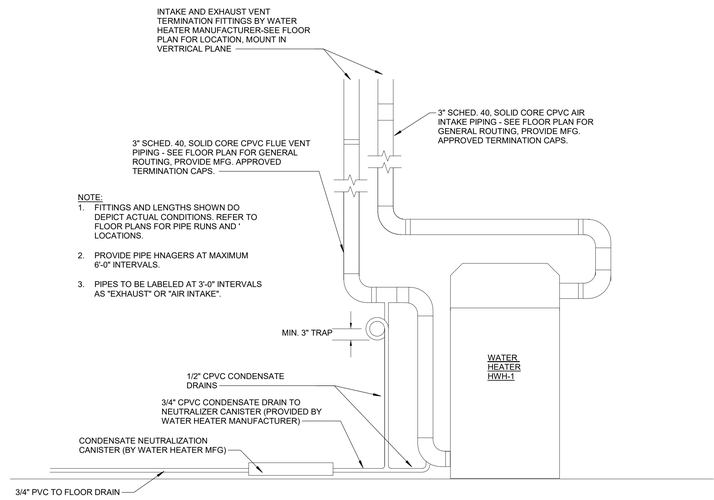


6 TYPICAL BRANCH PIPING DETAIL
NTS

NOTES:
1. ALL NEW GAS PIPING SHALL BE PAINTED WITH PRIMER AND (2) COATS OF YELLOW RUST INHIBITIVE PAINT.
2. COORDINATE LOCATION OF GAS CONNECTION WITH EQUIPMENT LOCATION AND MECHANICAL CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL PIPE SUPPORTS UNDER ALL GAS PIPING ON ROOF AS GENERALLY SHOWN ON DETAIL.
4. GAS PRESSURE REGULATORS TO BE AS MANUFACTURED BY MAXITROL, FISHER OR SENSUS. CONTRACTOR TO SURVEY EXISTING AND NEW GAS UTILIZATION EQUIPMENT FOR PROVIDING, SELECTION AND SIZING OF PROPER GAS REGULATORS AS INDICATED ON THE DRAWINGS.



7 ROOFTOP UNIT GAS PIPING DETAIL
NTS



3 GAS WATER HEATER VENTING DETAIL - TYPICAL HWH-1
NTS

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PROJECT
DSN DEVELOPMENT

KEY PLAN

DRAWING TITLE
PLUMBING DETAILS

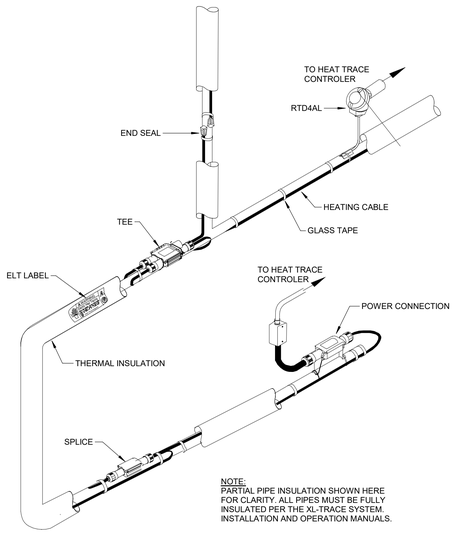
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PROJ. NO.	200802
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ISSUE DATES

NO.	DATE	PURPOSE

P3.01

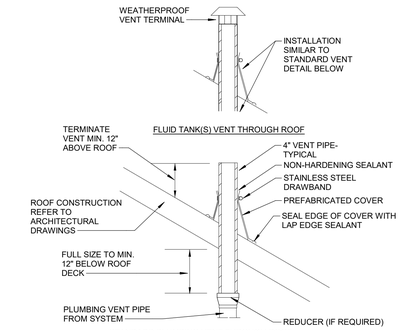
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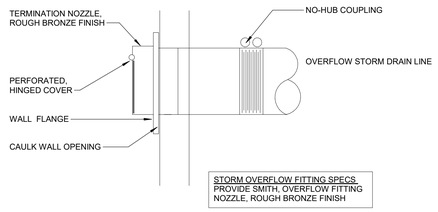
NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. HEATING CABLE PLUMBING - MAINTAIN 40F USING RAYCHEM XL-TRACE SELF-REGULATING HEATING CABLE MANUFACTURED BY PENTAIR THERMAL MANAGEMENT. THE HEATING CABLE SHALL OPERATE ON LINE VOLTAGES OF 277 VOLTS WITHOUT THE USE OF TRANSFORMERS. FOR ABOVE GROUND PIPING HEATING CABLE SHALL HAVE POLYOLEFIN (-CR) OUTER JACKET.
2. CABLE SHALL BE INSTALLED BY A LICENSED PLUMBING CONTRACTOR WITH FINAL ELECTRICAL CONNECTIONS PERFORMED BY THE ELECTRICAL SUBCONTRACTOR. SYSTEM MUST INCLUDE PIPE INSULATION INSTALLATION THAT FOLLOWS MANUFACTURER'S INSTRUCTIONS FOR CORRECT PERFORMANCE.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION. DO NOT SCALE THE DRAWING
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE NOTE: PARTIAL PIPE INSULATION SHOWN HERE FOR CLARITY. ALL PIPES MUST BE FULLY INSULATED PER THE XL-TRACE SYSTEM. INSTALLATION AND OPERATION MANUALS.

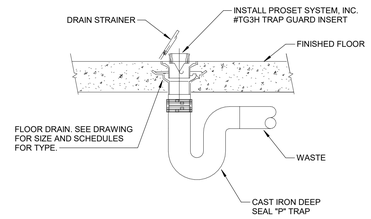
7 FREEZE PROTECTION HEATING CABLE SYSTEM DETAIL
1/8" = 1'-0"



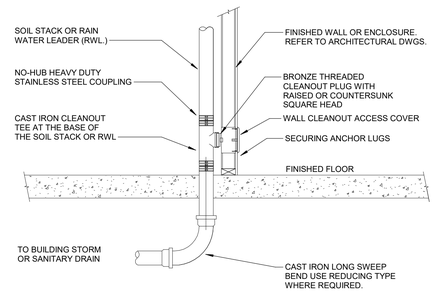
5 PLUMBING ROOF VENT DETAIL
NTS



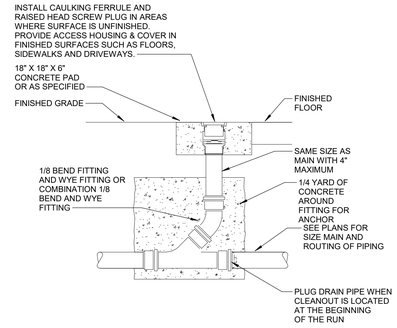
6 OVERFLOW ROOF DRAIN TERMINATION DETAIL
NTS



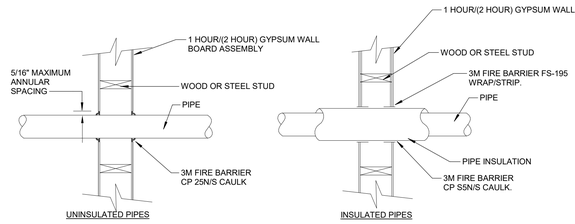
1 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL
NTS



2 TYPICAL CLEAN OUT DETAIL AT BASE OF SOIL STACK OR RWL
NTS



3 TYPICAL FLOOR CLEANOUT DETAIL
NTS



NOTES:
1. FIRE STOPPING TO CONFORM TO UL SYSTEM #147 ASSEMBLY
2. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMMODATE AT LEAST ONE WRAP OF 3M BARRIER FS-195 WRAP/STRIP.
3. FILL ANNULAR SPACE WITH FS-195 WRAP/STRIP UNTIL THE SPACE IS LESS THAN 1/4".
4. THE WALL PENETRATION FIRESTOPS MUST BE INSTALLED ON BOTH SIDES OF THE WALL.

4 GYPSUM WALL PENETRATION FIRESTOP DETAIL
12" = 1'-0"

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STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
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P3.02

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PLUMBING FIXTURE SCHEDULE

GENERAL NOTES:

PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON, 17-GAUAGE SEMICAST "P" TRAPS WITH CLEANOUT PLUGS, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNECTION. REFER TO SPECIFICATIONS FOR EQUIVALENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF PLUMBING FIXTURES, CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. COORDINATE MOUNTING HEIGHTS FOR CHILDREN AND ADULT FIXTURES WITH ARCHITECTURAL DRAWINGS.

TAG	TYPE	ADA	COLD	HOT	SAN	VENT	DESCRIPTION	REMARKS
EWC-1	ELECTRIC WATER COOLER	Yes	1/2"		2"	1 1/2"	HALSEY TAYLER #HTHB-HACG8BLSS-WF ELECTRIC WATER COOLER. SURFACE MOUNTED, DOUBLE BOWL, BOTTLE FILLING STATION, BI-LEVEL, SST, FRONT PUSH BARS, 8.0 GPH, 5 LB FORCE, BUBBLER GUARD. PROVIDE CANE APRON #98324C	
HS-1	HAND SINK	Yes	1/2"	1/2"	2"	1 1/2"	ELKAY LRAD252155, 25"X21-1/4"X5-1/2" 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL DROP-IN, ADA SINK, REAR CENTER DRAIN, 3 FAUCET HOLES ON 4" CENTERS. KOHLER K-596 "SIMPLICE", DECK MOUNTED FAUCET WITH GOOSENECK SPOUT AND PULL-DOWN SPRAYER, COMPRESSION CARTRIDGES WITH SPRING CHECKS, 1.5 GPM AERATOR. ACORN #ST70-38 ASEE 1070 THEROMSTATIC MIXING VALVE.	
JS-1	JANITOR SINK	No	3/4"	3/4"	3"	2"	FIAT #MSB-2424. MOLDED STONE BASIN, 24"X24"X10", SST INTEGRAL DRAIN BODY. SPEAKMAN SEF-9000-TW, EYESAVER COMBINATION SERVICE SINK FAUCET AND EMERGENCY EYEWASH UNIT WITH DRENCH HOSE. WALL MOUNTED FAUCET, 8" BODY FAUCET, 3/4" THREADED MALE HOSE OUTLET, PAIL HOOK, WALL BRACE AND VACUUM BREAKER SPOUT. PROVIDE DRENCH HOSE ADJACENT TO SINK.	
LAV-1	LAVATORY	No	1/2"	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD #0356.421. WALL MOUNTED, SINGLE HOLE FAUCET, VITREOUS CHINA, FRONT OVERFLOW. SELF RIMMING. SLOAN #EBF-615-4-BAT-BDT-CP-0.35GPM-MLM-IR-FCT, 120V SENSOR OPERATED FAUCET, 0.35 GPM WITH BELOW DECK THERMOSTAIC MIXING VALVE AND HARD WIRED EL-154 24V TRANSFORMER.	
LAV-1A	LAVATORY	Yes	1/2"	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD #0356.421. WALL MOUNTED, SINGLE HOLE FAUCET, VITREOUS CHINA, FRONT OVERFLOW. SELF RIMMING. SLOAN #EBF-615-4-BAT-BDT-CP-0.35GPM-MLM-IR-FCT, 120V SENSOR OPERATED FAUCET, 0.35 GPM WITH BELOW DECK THERMOSTAIC MIXING VALVE AND HARD WIRED EL-154 24V TRANSFORMER.	
S-1	SINGLE BOWL SINK	Yes	1/2"	1/2"	2"	2"	ELKAY LRAD191855, 18"X18"X5.5" 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL DROP-IN, ADA SINK, REAR CENTER DRAIN, 3 FAUCET HOLES ON 4" CENTERS. T&S BRASS #B-1142-04XS-F12, 8" DECK MOUNTED FAUCET WITH 5.75 GOOSENECK SPOUT AND 4" WRISTBLADE HANDLES, COMPRESSION CARTRIDGES WITH SPRING CHECKS, 1.2 GPM AERATOR. ACORN #ST70-38 ASEE 1070 THEROMSTATIC MIXING VALVE.	
U-1	URINAL	No	3/4"		2"	1 1/2"	KOHLER BARDON #K-4991-ET. WALL-MOUNTED VITREOUS CHINA WASHDOWN URINAL WITH TOP SPUD. SLOAN #ECOS 8186BT, BATTERY SENSOR OPERATED FLUSH VALVE, 0.125 GPF.	
WC-1	WATER CLOSET	No	1"		4"	2"	KOHLER KINGSTON #K-4323. ELONGATED, WALL MOUNTED VITREOUS CHINA WATER CLOSET. SLOAN #G2 8111 BT, BATTERY OPERATED FLUSH VALVE, 1.28 GPF. CHURCH 295CT OPEN FRONT SEAT	
WC-1A	WATER CLOSET	Yes	1"		4"	2"	KOHLER KINGSTON #K-4323. ELONGATED, WALL MOUNTED VITREOUS CHINA WATER CLOSET. SLOAN #G2 8111 BT, BATTERY OPERATED FLUSH VALVE, 1.28 GPF. CHURCH 295CT OPEN FRONT SEAT	
WC-2	WATER CLOSET	No	1"		4"	2"	AMERICAN STANDARD #2282.001. CHILD HEIGHT 10-1/4" RIM, ELONGATED, FLOOR MOUNTED VITREOUS CHINA WATER CLOSET. SLOAN #G2 8111 BT, BATTERY OPERATED FLUSH VALVE, 1.28 GPF. CHURCH 1580C OPEN FRONT SEAT.	

PLUMBING DRAINAGE SCHEDULE

TYPE	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
FCO	FLOOR CLEANOUT	J.R. SMITH		CAST IRON CLEANOUT WITH ROUND ADJUSTABLE NICKEL-BRONZE SQUARE TOP WITH BRONZE PLUG AND VANDAL PROOF SCREWS.	
FD-1	FLOOR DRAIN	J.R. SMITH		CAST IRON BODY WITH FLASHING COLLAR, 6" DIA ROUND NICKEL-BRONZE ADJUSTABLE STRAINER. VANDAL PROOF SCREWS. QUAD CLOSE TRAP SEAL. 2" PIPE SIZE UNLESS OTHERWISE INDICATED ON FLOOR PLANS.	
FD-2	FLOOR DRAIN	J.R. SMITH		CAST IRON DEEP BODY WITH FLASHING COLLAR, 12" DIA CAST IRON BAR GRATE. 3" PIPE SIZE UNLESS OTHERWISE INDICATED ON FLOOR PLANS.	
FD-3		WATTS	FD-490-F-4-13	CAST IRON PARKING DRAIN	
RD-1		WATTS	RD-100	LARGE AREA PRIMARY ROOF DRAIN	
RD-2		WATTS	RD-100-R	OVERFLOW ROOF DRAIN WITH 2" EXTERNAL WATER DAM	
RD-3		MIFAB	R1310	PRIMARY SCUPPER DRAIN WITH ANGLE GRATE AND 45 DEGREE OUTLET	
WCO	WALL CLEANOUT	ZURN	#Z1411	DUCO CAST IRON CAULK FERRULE WITH CAST BRONZE TAPER. THREADED PLUG, CHROMEPLATED FINISH COVER, AND COUNTERSUNK PLUG. .	

GAS-FIRED WATER HEATER SCHEDULE

			GAS BURNER		WATER SIDE					ELECTRICAL DATA			
					STORAGE		PIPE DIAMETER						
ID	MANUFACTURER	MODEL NO.	INPUT (BTU/H)	FUEL TYPE	RECOVERY @ 100°F (GPH)	VOL (gal)	INLET	OUTLET	THERMAL EFFICIENCY	FLA	VOLT	PH	REMARKS
HWH-1	A.O. SMITH	BTH-199	199	NATURAL	235	100	1 1/2"	1 1/2"	95	0 A	120 V	1	PROVIDE WITH NEUTRALIZATION KIT

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

			PUMP		MOTOR				ELECTRICAL DATA		
					POWER						
TAG	MANUFACTURER	MODEL NO.	FLOW (GPM)	HEAD (FT)	WATTS	HP	RPM	ECM	VOLT	PH	REMARKS
DHWP-1	GRUNDFOS	MAGNA3	0	0	0	0	0		0 V	0	

PLUMBING SPECIALTY FIXTURE SCHEDULE

TYPE	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
ET-1		AMTROL	ST-30VC-DD	VERTICAL TANK	
HB-1		J.R. SMITH	5518	RECESSED MOUNTED, NARROW WALL INTERIOR HOSE BIBB. INTEGRAL VACUUM BREAKER, LOCKING COVER WITH LOOSE KEY, CHROME FINISH, 3/4" THREADED HOSE CONNECTION	
HYD-1		J.R. SMITH	5906	ROOF MOUNTED FREEZELESS VACUUM BREAKER WITH ROOF MOUNTING SYSTEM, 3/4" THREADED HOSE CONNECTION. PIPE DRAIN TO NEAREST INDIRET DRAIN LOCATION.	

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STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	
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DRAWN BY	MAW
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ISSUE DATES

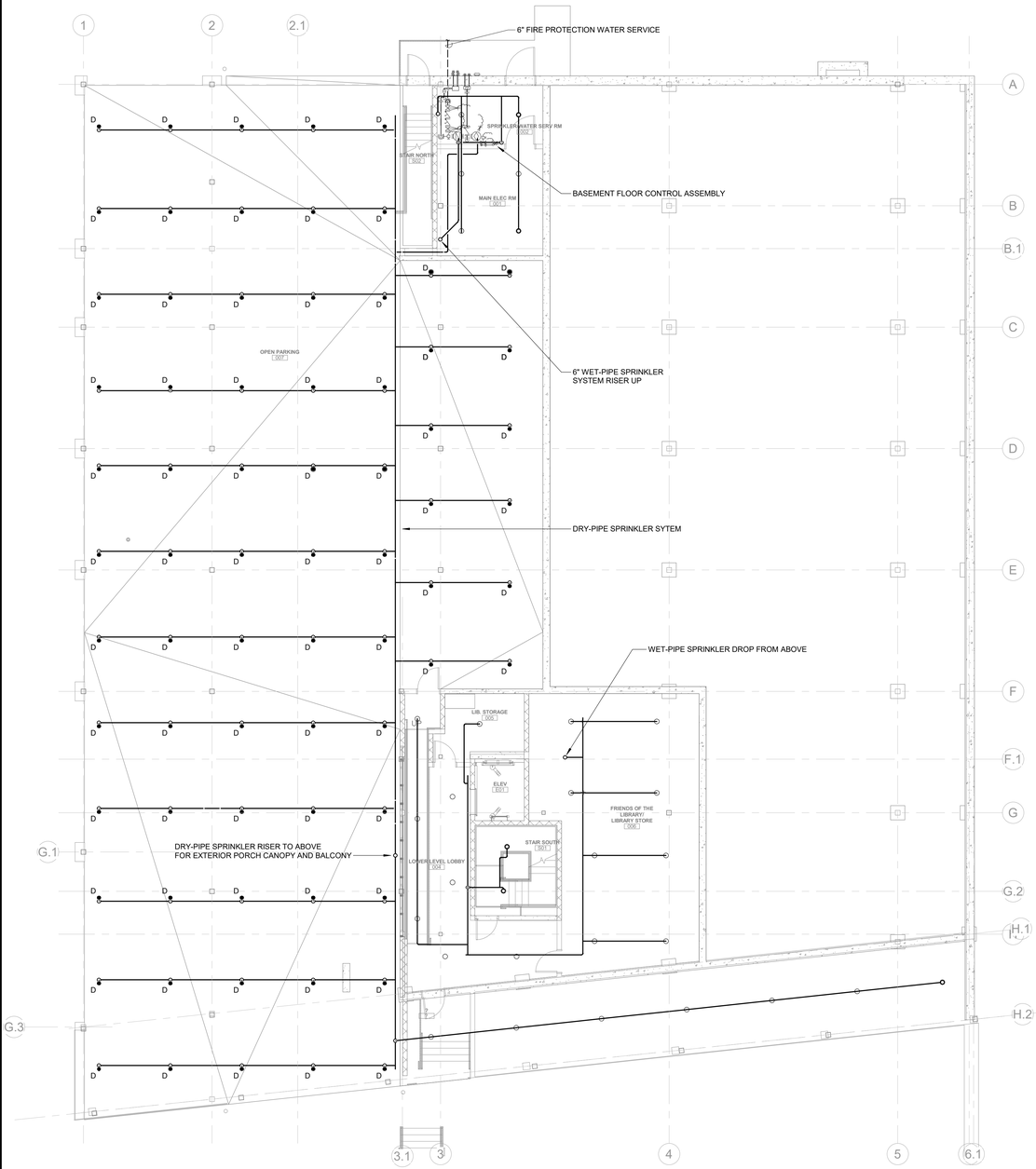
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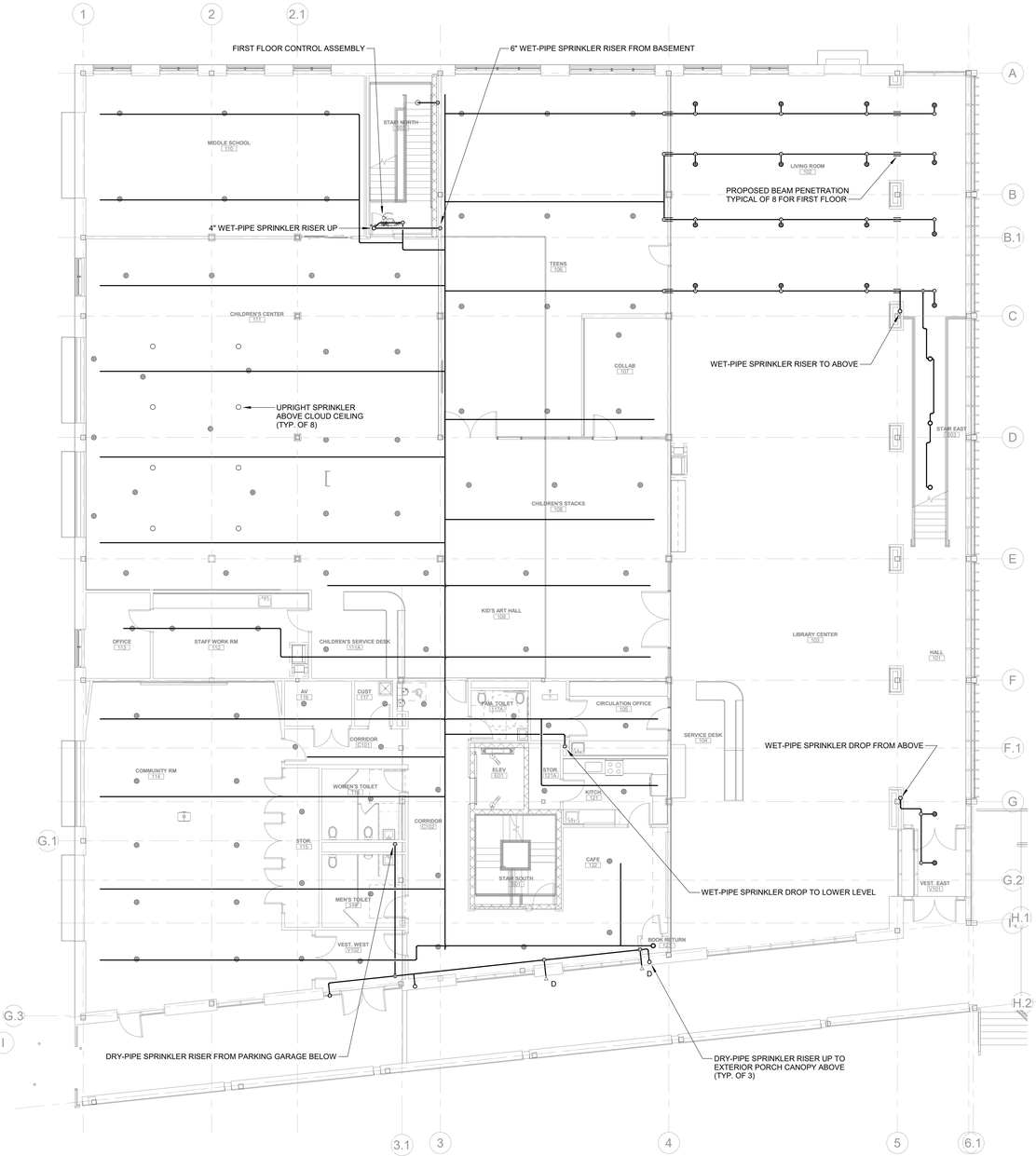
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FIRE PROTECTION LEGEND

	FIRE PROTECTION PIPING (PROPOSED)		CHECK VALVE
	OS&Y GATE VALVE W/ TAMPER SWITCH		FLUSH TYPE FIRE DEPARTMENT CONNECTION
	DOUBLE CHECK VALVE BACKFLOW PREVENTER		INSPECTOR'S TEST VALVE
	BUTTERFLY VALVE W/ TAMPER SWITCH		INSPECTOR'S TEST / SECTIONAL DRAIN VALVE
	RISER CHECK VALVE		FLOOR CONTROL ASSEMBLY - BUTTERFY VALVE W/ FLOW SWITCH AND INSPECTOR'S TEST VALVE
	DRY PIPE VALVE		CONCEALED PENDENT SPRINKLER HEAD
	FLOW SWITCH		UPRIGHT SPRINKLER HEAD
	ELECTRIC ALARM BELL	D	DRY PENDENT SPRINKLER HEAD
	BACKFLOW PREVENTER TEST HEADER	D	DRY SIDEWALL SPRINKLER HEAD



1 LOWER LEVEL FIRE PROTECTION PLAN
1/8" = 1'-0"



2 FIRST FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

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PROJECT NORTH
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KEY PLAN

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LOWER LEVEL AND FIRST FLOOR FIRE PROTECTION PLANS

STATE PROJ. NO.	
PROJ. NO.	200802
SCALE	As indicated
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FIRE PROTECTION LEGEND

	FIRE PROTECTION PIPING (PROPOSED)
	BUTTERFLY VALVE W/ TAMPER SWITCH
	FLOW SWITCH
	INSPECTOR'S TEST VALVE
	INSPECTOR'S TEST / SECTIONAL DRAIN VALVE
	FLOOR CONTROL ASSEMBLY - BUTTERFY VALVE W/ FLOW SWITCH AND INSPECTOR'S TEST VALVE
	CONCEALED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD
	DRY SIDEWALL SPRINKLER HEAD

CLEAN AGENT FIRE EXTINGUISHING SYSTEM

SUPPRESSION SYSTEM LEGEND

SCP	CONVENTIONAL SINGLE HAZARD SUPPRESSION CONTROL PANEL
A CLG	SMOKE DETECTOR AT CEILING - ZONE 'A'
B CLG	SMOKE DETECTOR AT CEILING - ZONE 'B'
	125 LB. CLEAN AGENT CYLINDER
A	HORN/ STROBE ALARM DEVICE
B	STROBE ALARM DEVICE
M	MANUAL RELEASE STATION W/ STOPPERII COVER
A	ABORT SWITCH

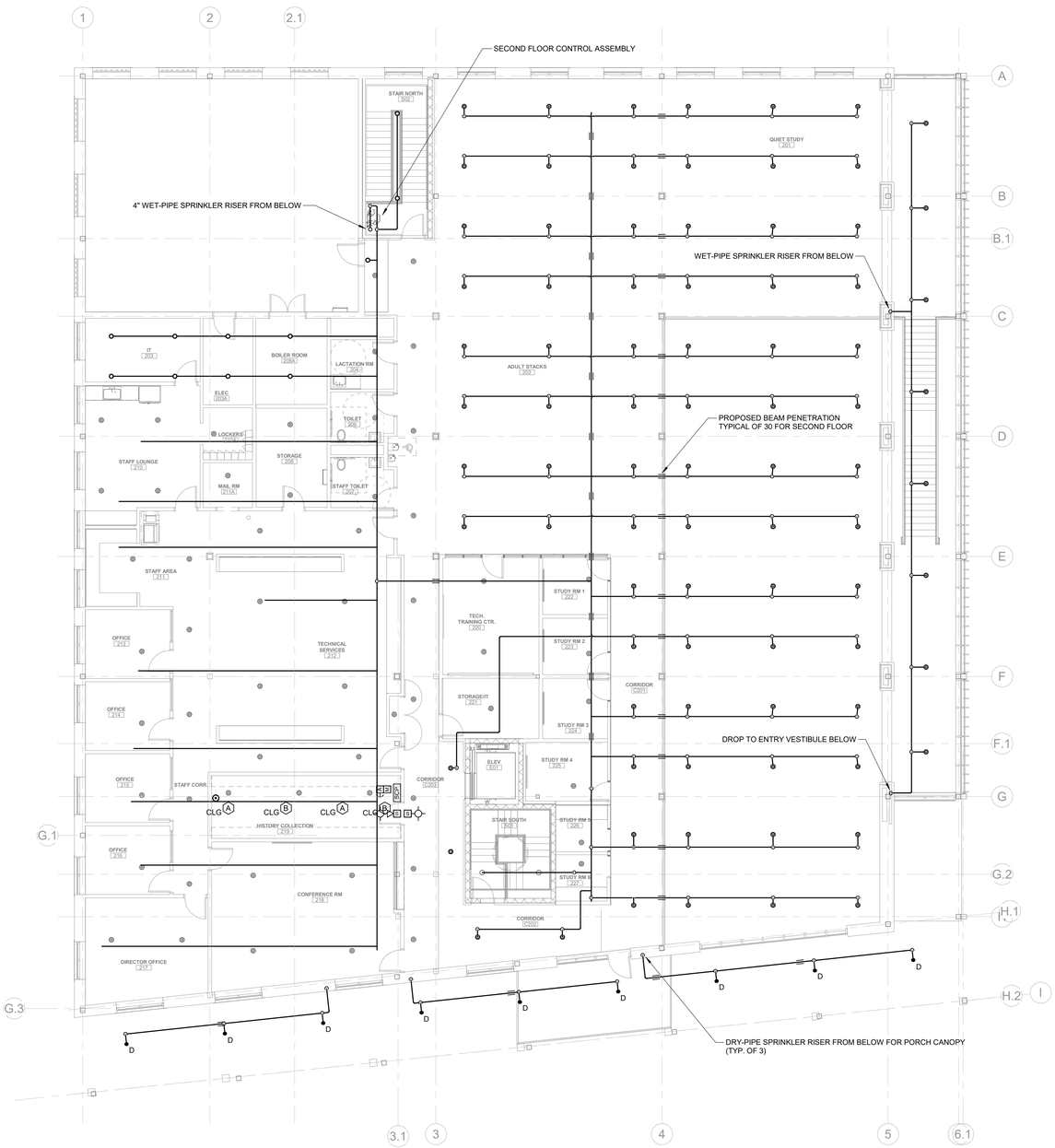
HISTORY COLLECTION ROOM

OPERATING SEQUENCE

A. ACTUATION OF ONE DETECTOR ZONE: (ZONE A OR B)
1. INITIATE FIRST STAGE ALARM.
2. SIGNAL BUILDING FIRE ALARM SYSTEM.
3. ENERGIZE ALARM CIRCUIT - SLOW PULSE TONE HORN/STROBE.
4. SHUTDOWN HVAC UNITS AND CLOSE DAMPERS.

B. ACTUATION OF SECOND DETECTOR ON OTHER ZONE: (ZONE A OR B)
1. INITIATE PRE-DISCHARGE ALARM.
2. ENERGIZE ALARM CIRCUIT - MARCH TIME HORN/STROBE.
3. ENERGIZE ALARM CIRCUIT - ENTRY STROBES.
4. ACTUATE TIME DELAY FOR RELEASE OF AGENT.

C. TERMINATION OF TIME DELAY COUNTDOWN:
1. RELEASE CLEAN AGENT IN HAZARD AREA.
2. ENERGIZE ALARM CIRCUIT - STEADY TONE HORN/STROBE.
3. MANUAL RELEASE/PULL STATION - SUPERSEDE TIME DELAY
4. ABORT SWITCH - HOLD TIME DELAY COUNTDOWN.



1 SECOND FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

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SECOND FLOOR FIRE PROTECTION PLAN

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