NEW CITY LIBRARY ADDITION & RENOVATION

CONSTRUCTION DOCUMENTS

PICTORIAL VIEW

VIEW FOR INFORMATIONAL PURPOSES ONLY

PROJECT TEAM

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220 North Main Street
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INTERIOR DESIGN
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208 Third Street NE
Charlottesville, VA 22902
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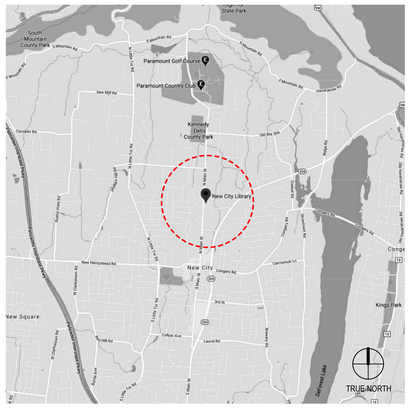
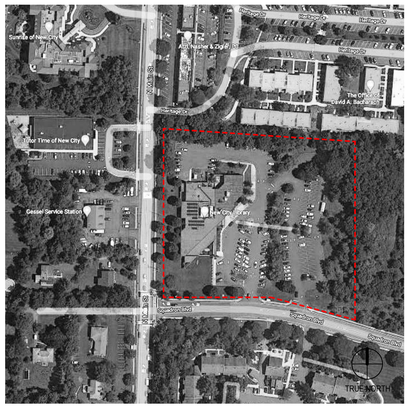
glickmanstudio.com

VICINITY MAP



SITE MAP



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VMDO

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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY
ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATWATS
043173
STATE OF NEW YORK

Checked By JT
Drawn By HO

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

TITLE SHEET

G001

CONSTRUCTION DOCUMENTS
01.14.2022

CODE SUMMARY

1. PROJECT TITLE

NEW CITY LIBRARY RENOVATION & ADDITION

2. PROJECT SUMMARY DATA

AUTHORITY HAVING JURISDICTION (AHJ):	TOWN OF CLARKSTOWN, NY
APPLICABLE BUILDING CODE($):	2020 BUILDING CODE OF NEW YORK STATE, 2020 EXISTING BUILDING CODE OF NEW YORK STATE
ACCESSIBILITY STANDARD(S):	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (2010 ASAD)
FIRE SUPPRESSION:	FULLY SPRINKLERED PER NFPA 13
CONSTRUCTION CLASSIFICATION:	TYPE II-B
BUILDING OCCUPANCY USE GROUP(S):	NONSEPARATED MIXED USE (A-3, B, S-1)

3. BUILDING CODE SUMMARY

CODE TOPIC	*BCNYS SECTION REFERENCED*	*BCNYS REQUIREMENT / ALLOWED*	*PROVIDED*	*REMARKS*
CONSTRUCTION CLASSIFICATION	602		TYPE II-B	
USE GROUP AND OCCUPANCY CLASSIFICATION	302		TYPE II-B	
ALLOWABLE HEIGHT / STORIES: A-3	Table 504.3, Table 504.4	75' / 3 stories	50' / 3 stories	A-3 most restrictive
ALLOWABLE HEIGHT / STORIES: B	Table 504.3, Table 504.4	75' / 4 stories	50' / 3 stories	A-3 most restrictive
ALLOWABLE HEIGHT / STORIES: S-1	Table 504.3, Table 504.4	75' / 3 stories	50' / 3 stories	A-3 most restrictive
BUILDING AREA TABULATION	Table 506.2	38,000 sf per floor (A-3)	Refer to **BLDG AREA TABULATION**	Single Story bldg; A-3 most restrictive
BUILDING VOLUME				
MAXIMUM OCCUPANT LOAD TABULATION	Table 1004.5		Refer to **OCC LOAD TABULATION**	

4. EGRESS

CODE TOPIC	*BCNYS SECTION REFERENCED*	*BCNYS REQUIREMENT / ALLOWED*	*PROVIDED*	*REMARKS*
CORRIDOR AND NON-STAIR COMPONENT WIDTH	1005.3.2, Exc. 1 / 1020.2	0.15" per occ. / 44" min. / 72" min.	REFER TO PLANS	FULLY SPRINKLERED
STAIR WIDTH	1005.3.1, Exc. 1 / 1011.2	0.2" per occ. / 44" min.	REFER TO PLANS	6'-8" min hd ht; FULLY SPRINKLERED
ACCESSIBLE MEANS OF EGRESS	1009.1 / 1009.3	Not less than 2 / 48" min. stair width	REFER TO PLANS	
EGRESS ELEVATOR	1009.2.1	Not required	N/A	all levels < 4 stories from discharge
EXIT ACCESS STAIRS	1019.3 / 1028.1, Exc. 1	2 stories max. / 50% capacity max.	2 stories / 50% capacity max.	
COMMON PATH OF EGRESS TRAVEL	1006.2.1	75' (A) / 100' (B,S)	Less than 75' / 100'	FULLY SPRINKLERED
EXIT ACCESS TRAVEL DISTANCE	Table 1017.2	250' (A,S) / 300' (B)	Less than 250' / 300'	FULLY SPRINKLERED
DEAD END CORRIDORS	1020.4 (B,S: Exc. 2)	20' (A) / 50' (B,S)	Less than 20' / 50'	FULLY SPRINKLERED
EXIT CONFIGURATION	1007.1.1, Exc. 2	> 1/3 max horizontal of area	> 1/3	FULLY SPRINKLERED
EGRESS COURTS	1028.4	10' min width, 7' min clear head ht	10' min / 7' min	

5. FIRE PROTECTION

CODE TOPIC	*BCNYS SECTION REFERENCED*	*BCNYS REQUIREMENT / ALLOWED*	*PROVIDED*	*REMARKS*
NONSEPARATED MIXED OCCUPANCIES	508.3	no separation required		
TWO-STORY OPENINGS	712.1.9 / 713.4	1 hr	N/A - single story building	
SHAFTS				
ELEVATOR HOISTWAYS	713.4 / 3002	< 4 stories = 1 hr	1 hr	UL Assembly: **U906**
DUCT SHAFTS	713 / 717	1 hr	1 hr	UL Assemblies: **U415, U419**
STAIR ENCLOSURES	707.3.2 / 1023.2	< 4 stories = 1 hr	1 hr	Open exit access stairs, 1019.3
ELEVATOR AS ACCESSIBLE MEANS OF EGRESS	1009.2.1	> 4 stories abv exit discharge = req'd	not required	Top flr 1 story abv exit discharge
ELEVATOR MACHINE ROOM ENCLOSURE	708.4 / 3005.4 Exception	< 4 stories, non-abutting = 0 hr	N/A	no machine room
FIRE BARRIERS	707.3.1 / 713.4	< 4 stories = 1 hr	1 hr	UL Assemblies: **U415, U419**
HORIZONTAL ASSEMBLIES	711		not required	UL Assemblies: **D759, N636**
INCIDENTAL USES	Table 509			
FURNACE ROOM		< 40,000 btu/h = 0 hr	0 hr	Fully sprinklered
REGRIGERANT MACHINERY ROOM		Auto sprinkler = 0 hr	0 hr	Fully sprinklered
TEACHING LABORATORIES AND CONTROL AREAS	414.2 / 430	1 hr	1 hr	(1) control area
DUCT AND AIR TRANSFER OPENINGS	717.3.2.1	Annular space filled	Annular space filled	
OPENING PROTECTION / FIRE SEPARATION DISTANCE	Table 705.8	> 30' separation = no limit	no limit	Min. fire separation distance = 175'
AUTOMATIC SPRINKLER SYSTEM	903	Yes	Yes	Rapid response system provided
STANDPIPES	905	Yes	Yes	
FIRE EXTINGUISHERS	906 / IFC-906.1 (2006)	On each floor = ≤ 75' travel distance	On each floor = ≤ 75' travel distance	
FIRE ALARM AND DETECTION SYSTEM	907	Yes	Yes	

6. EMERGENCY POWER

CODE TOPIC	*BCNYS SECTION REFERENCED*	*BCNYS REQUIREMENT / ALLOWED*	*PROVIDED*	*REMARKS*
EXIT SIGNS	1013 / 2702.2.5	Yes	Yes	
EMERGENCY LIGHTING	1008	Yes	Yes	

TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

OCCUPANCY TYPE			WATER CLOSETS				LAVATORIES				SHOWERS		DRINKING FOUNTAINS		SERVICE SINK
		LOAD	Ratio	Male	Ratio	Female	Ratio	Male	Ratio	Female	Ratio	Subtotal	Ratio	Subtotal	
A-3	Concentrated	428	1:125	1.71	1:65	3.29	1:200	1.07	1:200	1.07	-		1:500	0.86	1
	Unconcentrated	203		0.81		1.56		0.51		0.51				0.41	
	unrounded for reference:			*2.52*		*4.85*		*1.58*		*1.58*					
B	Public Program	56	1:25<50	1.12	1:25<50	1.12	1:40<80	0.70	1:40<80	0.70	-		1:100	0.56	
	Gen. Staff/Offices	40	1:50>50	0.80	1:50>50	0.80	1:80>80	0.50	1:80>80	0.50				0.40	
S-1	Storage / Mech.	12	1:100	0.12	1:100	0.12	1:100	0.12	1:100	0.12	-		1:1000	0.01	
TOTAL REQUIRED			5		7		3		3		-		3		1
TOTAL PROVIDED			**5**		**7**		**3**		**4**		**1**		**3**		**1**

PER 2902.4 PUBLIC MULTI-USER TOILET ROOMS ARE DESIGNATED BY SEX AND SINGLE-USER FACILITIES ARE DESIGNATED GENDER NEUTRAL.

NOTE: ONE SINGLE-USER TOILET ROOM WITH ACCESSIBLE SHOWER FOR STAFF USE INCLUDED ON BASEMENT LEVEL. NOT INCLUDED IN TOTAL OF WATER CLOSETS PROVIDED.

PROJECT DATA

GROSS BUILDING AREA

FLOOR LEVEL	TOTAL AREA	
BASEMENT	5002 SF	EXCLUDED FROM TOTAL ALLOWABLE FLOOR AREA CALC. PER 506.1.3
MAIN LEVEL	18317 SF	
LOWER LEVEL	5366 SF	SINGLE STORY ABV. GRADE, INCLUDES TWO CONNECTED LEVELS
MEZZANINE	4708 SF	EXCLUDED FROM TOTAL ALLOWABLE FLOOR AREA CALC. PER 505.2
SUBTOTAL	33394 SF	ALL BUILDING AREA
BASEMENT & MEZZANINE	-10,053 SF	
TOTAL FLOOR AREA	**23,702 SF**	

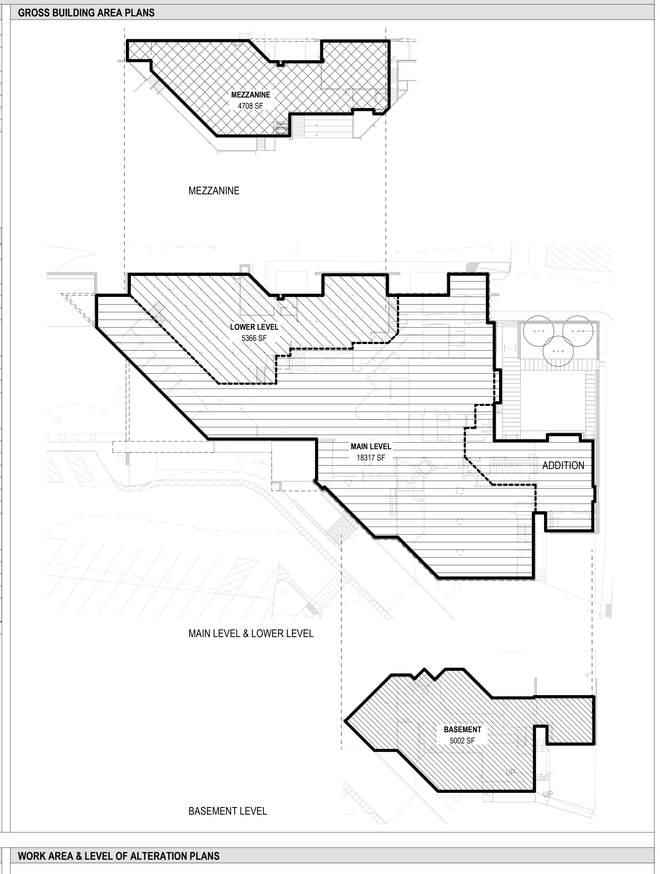
NOTE: GROSS FLR AREA IS CALCULATED TO THE INTERIOR FACE OF EXTERIOR WALLS

OCCUPANCY SUMMARY

SEE LS111 PLANS FOR ADDITIONAL DETAIL

OCCUPANCY TYPE	AREA	AREA PER PERSON	OCCUPANTS
BASEMENT LEVEL			
BUSINESS (CIRC)	1105 SF	150 SF	8
BUSINESS (OFFICE)	1388 SF	150 SF	10
MECH / STOR	2531 SF	300 SF	11
	5025 SF		29
LOWER LEVEL			
BUSINESS (CIRC)	982 SF	150 SF	8
LIBRARY (STACKS)	3893 SF	100 SF	40
MECH / STOR	428 SF	300 SF	2
	5302 SF		50
MAIN LEVEL			
ASSEMBLY (CONCENTRATED)	2980 SF	7 SF	427
ASSEMBLY (UNCONCENTRATED)	734 SF	15 SF	49
BUSINESS (CIRC)	5211 SF	150 SF	36
BUSINESS (OFFICE)	4958 SF	150 SF	36
LIBRARY (READING)	2302 SF	50 SF	48
LIBRARY (STACKS)	1339 SF	100 SF	14
MECH / STOR	496 SF	300 SF	4
	18019 SF		614
MEZZANINE			
BUSINESS (CIRC)	323 SF	150 SF	3
BUSINESS (OFFICE)	345 SF	150 SF	3
LIBRARY (READING)	987 SF	50 SF	20
LIBRARY (STACKS)	2997 SF	100 SF	32
	4652 SF		58
TOTAL BUILDING OCCUPANCY	32999 SF		751

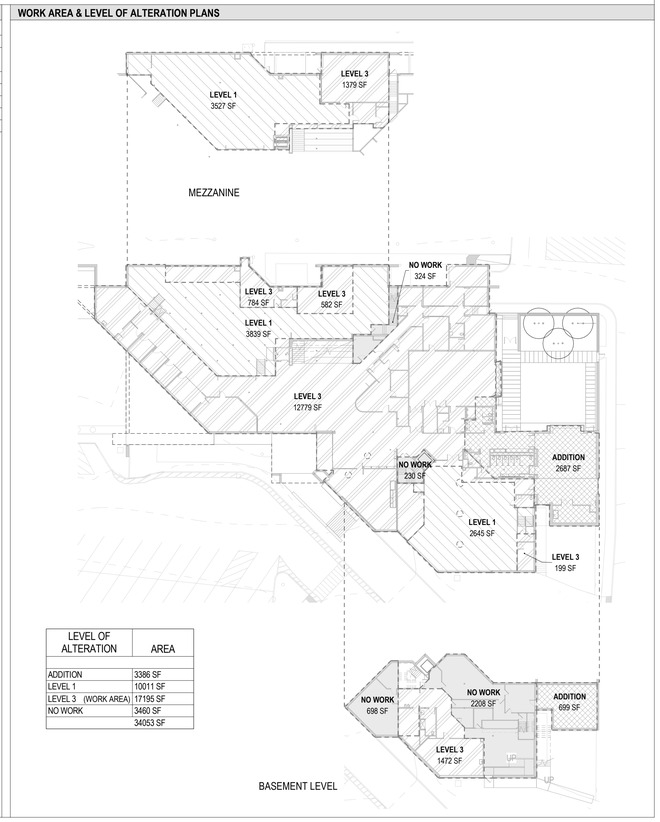
GROSS BUILDING AREA PLANS



EXISTING BUILDING CODE SUMMARY

CODE TOPIC	*SECTION REF.*	*REMARKS*
COMPLIANCE METHOD	301.3.2	WORK AREA COMPLIANCE METHOD USED
ADDITIONS	502.1	ADDITION COMPLIES WITH BCNYS FOR NEW CONSTRUCTION. HEIGHT AND AREA OF EXISTING + NEW COMPLIES WITH REQUIREMENTS
CHANGE OF OCCUPANCY	506	NO CHANGE

WORK AREA & LEVEL OF ALTERATION PLANS



LEVEL OF ALTERATION	AREA
ADDITION	3386 SF
LEVEL 1	10011 SF
LEVEL 3 (WORK AREA)	17195 SF
NO WORK	3460 SF
	34053 SF

VMDO

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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY
ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By JT
Drawn By JT

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

LIFE SAFETY - CODE SUMMARY

G100

CONSTRUCTION DOCUMENTS
01.14.2022

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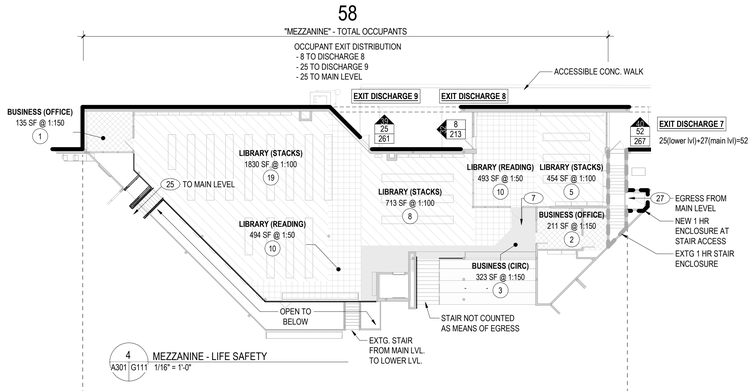
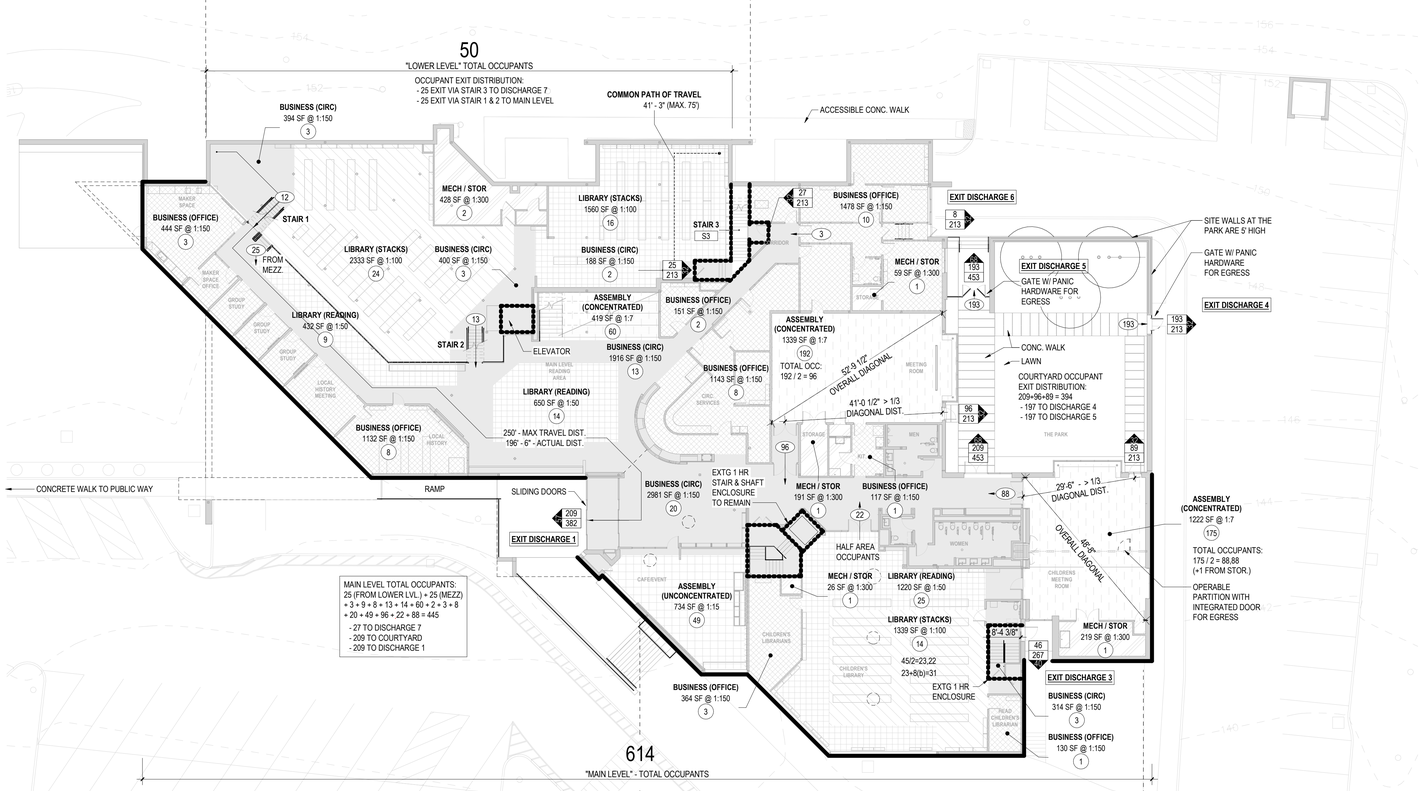
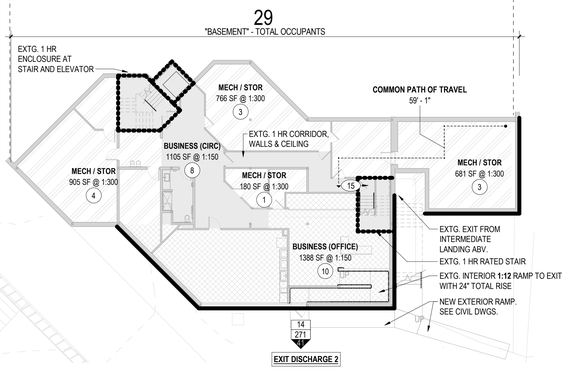






OCCUPANCY CALCULATIONS

MEZZANINE

OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	323 SF	150 SF	3
BUSINESS (OFFICE)	135 SF	150 SF	1
BUSINESS (OFFICE)	211 SF	150 SF	2
LIBRARY (READING)	494 SF	50 SF	10
LIBRARY (READING)	493 SF	50 SF	10
LIBRARY (STACKS)	1830 SF	100 SF	19
LIBRARY (STACKS)	713 SF	100 SF	8
LIBRARY (STACKS)	454 SF	100 SF	5
CALCULATED OCCUPANCY TOTALS	4652 SF		58

LOWER LEVEL

OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	188 SF	150 SF	2
BUSINESS (CIRC)	400 SF	150 SF	3
BUSINESS (CIRC)	394 SF	150 SF	3
LIBRARY (STACKS)	2333 SF	100 SF	24
LIBRARY (STACKS)	1560 SF	100 SF	16
MECH / STOR	428 SF	300 SF	2
CALCULATED OCCUPANCY TOTALS	5302 SF		50

MAIN FLOOR

OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
ASSEMBLY (CONCENTRATED)	1222 SF	7 SF	175
ASSEMBLY (CONCENTRATED)	1339 SF	7 SF	192
ASSEMBLY (CONCENTRATED)	419 SF	7 SF	60
ASSEMBLY (UNCONCENTRATED)	734 SF	15 SF	49
BUSINESS (CIRC)	314 SF	150 SF	3
BUSINESS (CIRC)	2981 SF	150 SF	20
BUSINESS (CIRC)	1916 SF	150 SF	13
BUSINESS (OFFICE)	364 SF	150 SF	3
BUSINESS (OFFICE)	130 SF	150 SF	1
BUSINESS (OFFICE)	1132 SF	150 SF	8
BUSINESS (OFFICE)	117 SF	150 SF	1
BUSINESS (OFFICE)	1478 SF	150 SF	10
BUSINESS (OFFICE)	151 SF	150 SF	2
BUSINESS (OFFICE)	1143 SF	150 SF	8
BUSINESS (OFFICE)	444 SF	150 SF	3
LIBRARY (READING)	432 SF	50 SF	9
LIBRARY (READING)	650 SF	50 SF	14
LIBRARY (READING)	1220 SF	50 SF	25
LIBRARY (STACKS)	1339 SF	100 SF	14
MECH / STOR	26 SF	300 SF	1
MECH / STOR	219 SF	300 SF	1
MECH / STOR	59 SF	300 SF	1
MECH / STOR	191 SF	300 SF	1
CALCULATED OCCUPANCY TOTALS	18019 SF		614

BASEMENT

OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	1105 SF	150 SF	8
BUSINESS (OFFICE)	1388 SF	150 SF	10
MECH / STOR	905 SF	300 SF	4
MECH / STOR	766 SF	300 SF	3
MECH / STOR	180 SF	300 SF	1
MECH / STOR	681 SF	300 SF	3
CALCULATED OCCUPANCY TOTALS	5025 SF		29

LIFE SAFETY GENERAL NOTES

1. SEE LS 100 FOR LIFE SAFETY SUMMARY AND CODE NOTES
2. WHERE RATED PARTITIONS MEET EXTERIOR WALLS, RUN ALL LAYERS OF U.L. ASSEMBLY TO BACKSIDE OF EXTERIOR WALL BACKUP TO PROVIDE CONTINUITY OF RATING.
3. PROVIDE EXIT SIGNS IN COMPLIANCE WITH BCNYS 1013, INCLUDING AT ALL EXIT AND EXIT ACCESS DOORS. WHERE EXIT OR PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE, AND SUCH THAT NO POINT ALONG THE PATH OF EGRESS TRAVEL IS MORE THAN 100' FROM NEAREST EXIT SIGN. REFER TO REFLECTED CEILING PLANS FOR EXIT SIGN LOCATIONS.

LIFE SAFETY LEGEND

- EXIT SIGN - EXISTING
- EXIT SIGN - NEW
- 101 / 213 — CLEAR EGRESS WIDTH IN INCHES; EXPECTED; MAXIMUM EGRESS CAPACITY FOR OPENING AND STAIR CLEAR WIDTH
- # — NUMBER OF OCCUPANTS PER SPACE
- SIMULATED EXIT ROUTE DISTANCE
- 1 HR FIRE BARRIER - EXISTING
- 1 HR FIRE BARRIER - PROPOSED
- 1 HR PRIMARY STRUCTURE CONTINUITY (MAJOR COL. / BEAMS)
- BLDG. PERIMETER ON PUBLIC WAY
- **B** - BUSINESS OCCUPANCY - CIRCULATION (1:150 GROSS)
- **B** - BUSINESS OCCUPANCY - OFFICES (1:150 GROSS)
- **A3** - ASSEMBLY OCCUPANCY - UNCONCENTRATED (1:15 NET)
- **A3** - ASSEMBLY OCCUPANCY - CONCENTRATED (1:7 NET)
- **S1** - STORAGE, MECH. EQUIPMENT OCCUPANCY (1:300 GROSS)

VMDO
VMDO Architects
vmdo.com
434.296.5684
200 E Market Street
Charlottesville, VA 22902
1200 18th Street NW Ste 700
Washington, DC 20036

New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT
Drawn By JT

GRAPHIC SCALE - 1/16" = 1'-0"
0 16' - 0" 32' - 0" 48' - 0"

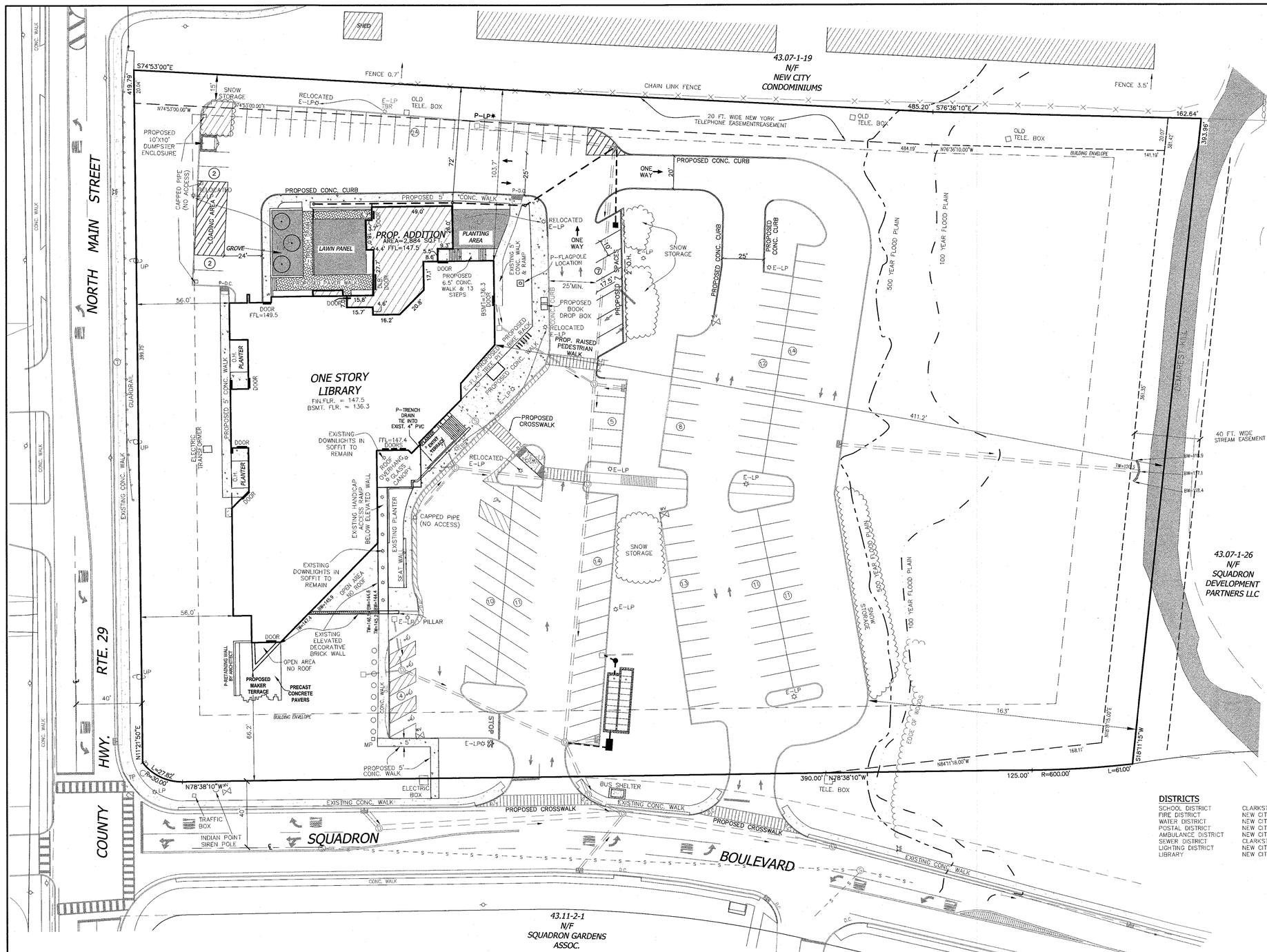
ISSUES AND REVISIONS

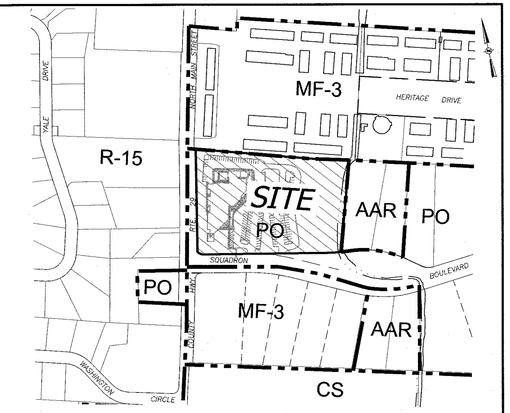
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

LIFE SAFETY PLANS

G111

CONSTRUCTION DOCUMENTS
01.14.2022





VICINITY MAP
SCALE: 1"=300'

LEGEND

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING GAS LINE
- CBCT EXISTING CATCH BASIN
- CBG EXISTING CATCH BASIN GRATE
- DMH EXISTING DRAINAGE MANHOLE
- EXISTING STORM DRAIN LINE
- SMH EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- 360.0 EXISTING SPOT ELEVATION
- UP EXISTING UTILITY POLE
- E-LP EXISTING LIGHT POLE
- WV EXISTING WATER VALVE
- GV EXISTING GAS VALVE
- TBR TO BE REMOVED / RELOCATED
- D.C. EXISTING DROP CRUB
- 362 PROPOSED 2' CONTOUR
- 360 PROPOSED 10' CONTOUR
- PROPOSED WATERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED GAS LINE
- P-CBCT PROPOSED CATCH BASIN
- P-CS PROPOSED CONTROL STRUCTURE
- P-DMH PROPOSED DRAINAGE MANHOLE
- PROPOSED STORM DRAIN LINE
- P-TRE. PROPOSED PRE-TREATMENT
- PROPOSED SEWER LINE
- 360.0 PROPOSED SPOT ELEVATION
- P-UP PROPOSED UTILITY POLE
- P-LP PROPOSED LIGHT POLE
- P-WV PROPOSED WATER VALVE
- P-GV PROPOSED GAS VALVE
- PROPOSED STOP SIGN
- SF PROPOSED SILT FENCE
- WS PROPOSED WATERSHED
- P-D.C. PROPOSED DROP CRUB

STANDARD MAP NOTES

A. DURING THE COURSE OF CONSTRUCTION THE BUILDER SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID THE CREATION OF DRAINAGE, EROSION, AND SILTING PROBLEMS.
B. OMITTED
C. THE BUILDER SHALL COMPLY WITH ALL LOCAL LAWS, REGULATIONS, AND ORDINANCES OF THE TOWN OF CLARKSTOWN. LIGHT SOURCES OF ALL FIXTURES SHALL NOT BE VISIBLE FROM STREETS OR PRIVATE DRIVEWAYS AND SHALL NOT CREATE GLARE ONTO ADJOINING PROPERTIES.
D. THIS PLAT DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP, AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239 L AND M OF THE GENERAL MUNICIPAL LAW.
E. DO NOT FILL AROUND TREES TO BE SAVED. LANDSCAPE AND TREE PRESERVATION TO BE PER ARCHITECTURAL HISTORIC REVIEW BOARD RECOMMENDATION.
F. OMITTED
G. FOOTING AND ROOF DRAINS TO BE PIPED TO THE DRAINAGE SYSTEM.
H. ENTRANCE ROAD AND PARKING AREA TO HAVE CONCRETE CURBING.
I. NO WILLOW TREES TO BE PLANTED IN ANY TOWN EASEMENTS.
J. ALL UTILITIES TO BE INSTALLED UNDERGROUND EXCEPT AS SHOWN.
K. OMITTED
L. ALL SCREENING AND LANDSCAPING SHALL CONFORM TO REQUIREMENTS OF THE ARCHITECTURAL HISTORIC REVIEW BOARD AND LANDSCAPING PLANS SHALL BE APPROVED BY ARCHITECTURAL HISTORIC REVIEW BOARD. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE BUILDING INSPECTOR, THE REGISTERED LANDSCAPE ARCHITECT WILL CERTIFY THAT THE WORK ON THE SITE HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN ON FILE WITH THE TOWN. A WRITTEN THREE YEAR GUARANTEE SHALL BE PROVIDED BY THE APPLICANT TO THE ENGINEERING AND FACILITIES MANAGEMENT/ARCHITECTURAL HISTORIC REVIEW BOARD, STATING THAT ALL PLANTS WHICH DIE OR ARE LIKELY TO DIE WITHIN THE GUARANTEE PERIOD WILL BE REPLACED. THE CERTIFICATE OF OCCUPANCY MAY BE REVOKED FOR FAILURE TO HONOR THE TERMS OF THE GUARANTEE.
M. NO BUILDING PERMIT FOR A BUILDING SUBJECT TO SITE PLAN APPROVAL SHALL BE ISSUED BY THE BUILDING INSPECTOR EXCEPT UPON AUTHORIZATION OF AND IN CONFORMITY WITH THE SITE PLAN APPROVED BY THE PLANNING BOARD. BUILDING PERMITS SHALL SHOW LOWEST FLOOR ELEVATIONS SUBJECT TO APPROVAL AND INSPECTION BY THE DEPARTMENT OF ENGINEERING AND FACILITIES MANAGEMENT.
N. ANY PROPOSED RETAINING WALLS SHALL BE DESIGNED AND INSPECTED DURING CONSTRUCTION, AND CERTIFIED THAT THEY HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DESIGN BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
O. EROSION CONTROL SHALL BE PROVIDED AS SHOWN ON THE APPROVED EROSION CONTROL PLAN, AND AS MAY BE MODIFIED BY THE DEPARTMENT OF ENGINEERING AND FACILITIES MANAGEMENT TO CONFORM TO FIELD CONDITIONS AND THE DEVELOPMENT OF THE SITE PROGRESS.
P. ALL NEW PAVEMENT MARKINGS SHALL BE EPOXY OR PREFORMED.
Q. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
R. FIRE LANES SHALL BE DESIGNATED BY THE FIRE INSPECTOR AND THE APPLICANT SHALL EXECUTE AN ENFORCEMENT CONSENT AGREEMENT WITH THE TOWN. FIRE LANE SIGNAGE AND STRIPING SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN BY THE HE APPLICANT OR BUILDER PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY FOR THE BUILDING. THIS WORK SHALL NOT BE SUBJECT TO ESCROW DEPOSIT. FIRE LANE SIGNAGE AND STRIPING SHALL BE MAINTAINED BY THE OWNER TO THE SATISFACTION OF THE FIRE INSPECTOR.
S. THE OWNER(S) SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL STORMWATER FACILITIES WITHIN THE SITE. SHOULD THE OWNER'S FAIL TO MAINTAIN THE FACILITIES AS REQUIRED BY THE TOWN OF CLARKSTOWN, THE ROCKLAND COUNTY DRAINAGE AGENCY OR THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, THE TOWN OF CLARKSTOWN IS HEREBY GIVEN THE RIGHT OF ACCESS TO PERFORM SAID WORK AND TO ASSESS THE COST PLUS A 10 PERCENT PENALTY TO THE OWNER(S) AS A SPECIAL LEVY.
T. ALL PARKING SPACES SHALL BE 10' X 19.5'.

ADDRESS:

220 NORTH MAIN STREET
NEW CITY, NY 10956

TAX LOT INFORMATION:

TOWN OF CLARKSTOWN TAX MAP
SECTION 43.07, BLOCK 1, LOT 26

OWNER:

NEW CITY LIBRARY
220 NORTH MAIN STREET.
NEW CITY, NY 10956

AREA:

256,473 SQ.FT. OR 5.8878 ACS.

SUBDIVISION REFERENCE:

LOTS 1 THRU 4, SUBDIVISION ENTITLED "NEW CITY OFFICE PARK" FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE ON JULY 30, 1971, IN BOOK 82, PAGE 34, AS MAP No. 4167

DISTRICTS

SCHOOL DISTRICT	CLARKSTOWN CSD
FIRE DISTRICT	NEW CITY
WATER DISTRICT	NEW CITY
POSTAL DISTRICT	NEW CITY
AMBULANCE DISTRICT	NEW CITY
SEWER DISTRICT	CLARKSTOWN MBSIA#1
LIGHTING DISTRICT	NEW CITY
LIBRARY	NEW CITY

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
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STATE OF NEW YORK · RYAN A. NASHER · 089066
RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK · JOHN R. ATZL · 50228
JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
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New City, New York 10956
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Fax: (845) 634-5543
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Web: www.ANZNY.com

VMDO Architects
vmdo.com
434.296.5684
200 E Market Street
Charlottesville, VA 22902
1200 18th Street NW Ste 700
Washington, DC 20036

PROJECT:

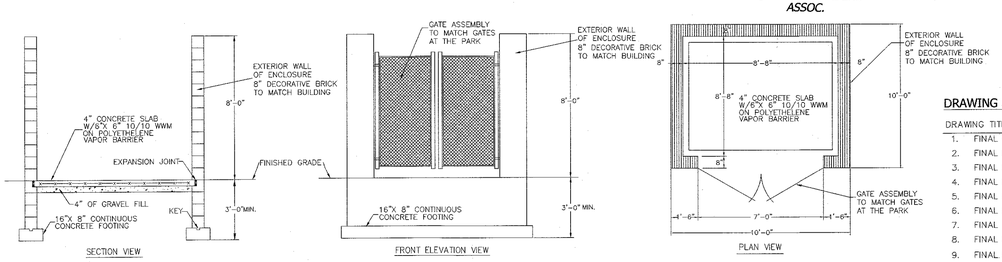
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL OVERALL SITE DEVELOPMENT PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 1 of 9

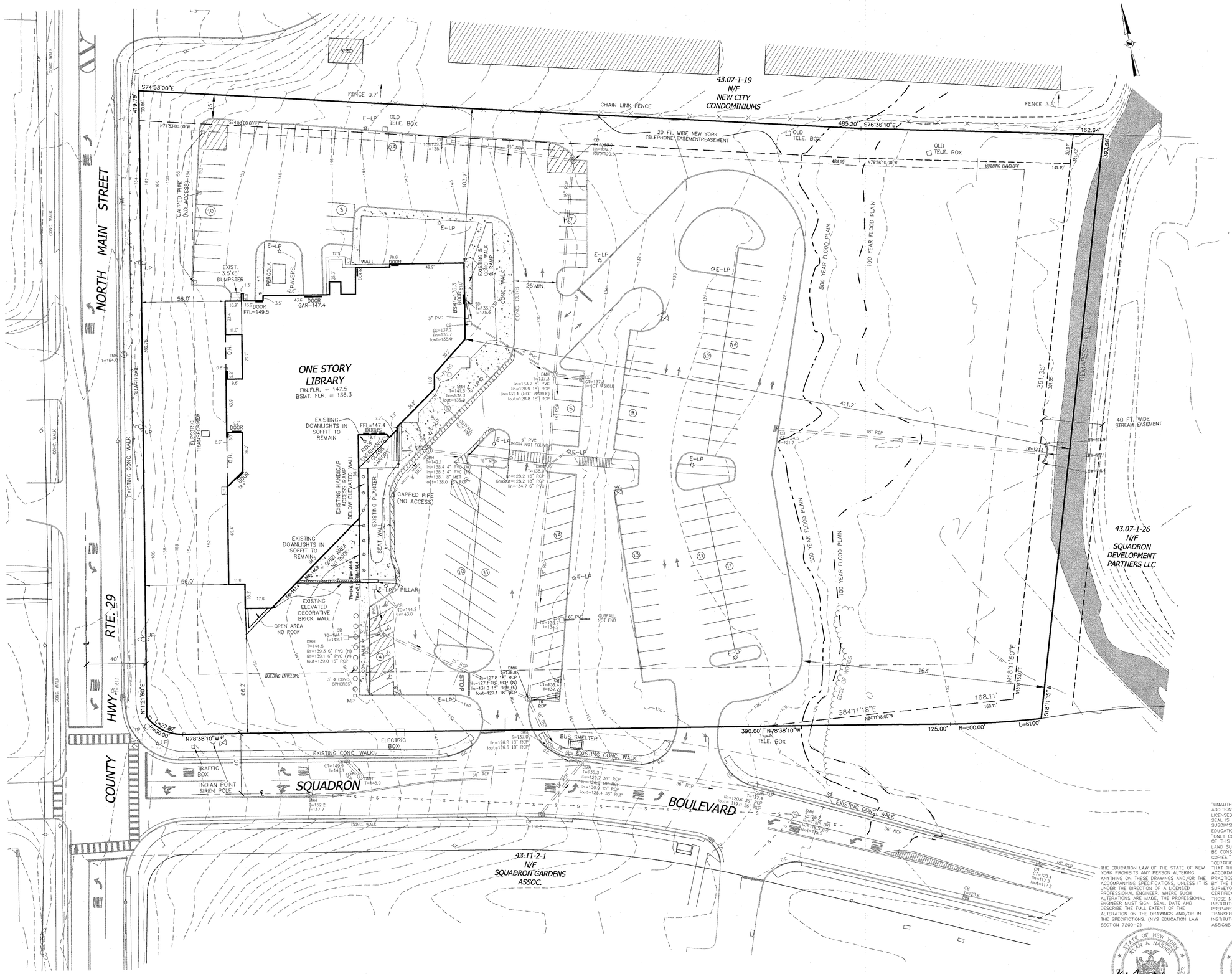


REFUSE DUMPSTER ENCLOSURE DETAIL
N.T.S.

DRAWING LIST:

DRAWING TITLE	ORIGIN DATE	REVISION DATE
1. FINAL OVERALL SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
2. FINAL EXISTING CONDITION	07-12-2021	01-14-2022
3. FINAL PHASE ONE SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
4. FINAL PHASE TWO SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
5. FINAL DETAILS	07-12-2021	01-14-2022
6. FINAL EROSION & SEDIMENT CONTROL PLAN	07-12-2021	01-14-2022
7. FINAL TREE PRESERVATION PLAN	07-12-2021	01-14-2022
8. FINAL LIGHTING PLAN	07-12-2021	01-14-2022
9. FINAL FIRE TRUCK TURNING PLAN (PHASE TWO)	07-12-2021	01-14-2022
L101, L301, L401, L701 & L801 LANDSCAPE PLANS	07-09-2021	01-14-2022

OWNERS APPROVAL FOR FILING	FINAL PLANNING BOARD APPROVAL
OWNER OR REPRESENTATIVE DATE	CHAIRPERSON PLANNING BOARD DATE TOWN OF CLARKSTOWN



LEGEND

362	EXISTING 2' CONTOUR
360	EXISTING 10' CONTOUR
WM	EXISTING WATER MAIN
	EXISTING FIRE HYDRANT
G	EXISTING GAS LINE
CBCT	EXISTING CATCH BASIN
CBG	EXISTING CATCH BASIN GRATE
DMH	EXISTING DRAINAGE MANHOLE
	EXISTING STORM DRAIN LINE
SMH	EXISTING SEWER MANHOLE
S	EXISTING SEWER LINE
360.0	EXISTING SPOT ELEVATION
UP	EXISTING UTILITY POLE
E-LP	EXISTING LIGHT POLE
WV	EXISTING WATER VALVE
GV	EXISTING GAS VALVE
TBR	TO BE REMOVED / RELOCATED
D.C.	EXISTING DROP CRUB

BULK REQUIREMENTS

ZONE PO USE GROUP "DD"	REQUIRED	EXISTING
MINIMUM LOT AREA	30,000 SQ.FT.	219,283 SQ.FT.
MINIMUM LOT WIDTH	125 FT.	N/A COR. LOT
MINIMUM FRONT YARD DEPTH	35 FT.	56 FT.
MINIMUM SIDE YARD WIDTH	25 FT.	103.7 FT.
MINIMUM TOTAL SIDE YARD DEPTH	65 FT.	N/A COR. LOT
MINIMUM REAR YARD	50 FT.	411.2 FT.
MAXIMUM FLOOR AREA RATIO	0.40	0.21
MAXIMUM BUILDING HEIGHT (FROM DSL)	35 FT. 1'0"/FT.	22 FT.

BUFFERS:

SIDE YARD	10 FT.	15 FT.
REAR YARD	10 FT.	163 FT.

LOT AREA CALCULATION:

GROSS LOT AREA	= 256,473 SQ.FT.
50% OF AREA WITHIN 100 YR FLOOD PLAIN	= -28,376 SQ.FT.
50% OF SLOPES 20%-50%	= -8,814 SQ.FT.
NET LOT AREA FOR ZONING PURPOSES	= 219,283 SQ.FT.

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

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1200 18th Street NW Ste 700
Washington, DC 20036

PROJECT:

NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL EXISTING CONDITION

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 2 of 9

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
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STATE OF NEW YORK · RYAN A. NASHER · LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
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STATE OF NEW YORK · JOHN R. ATZL · LICENSED PROFESSIONAL ENGINEER

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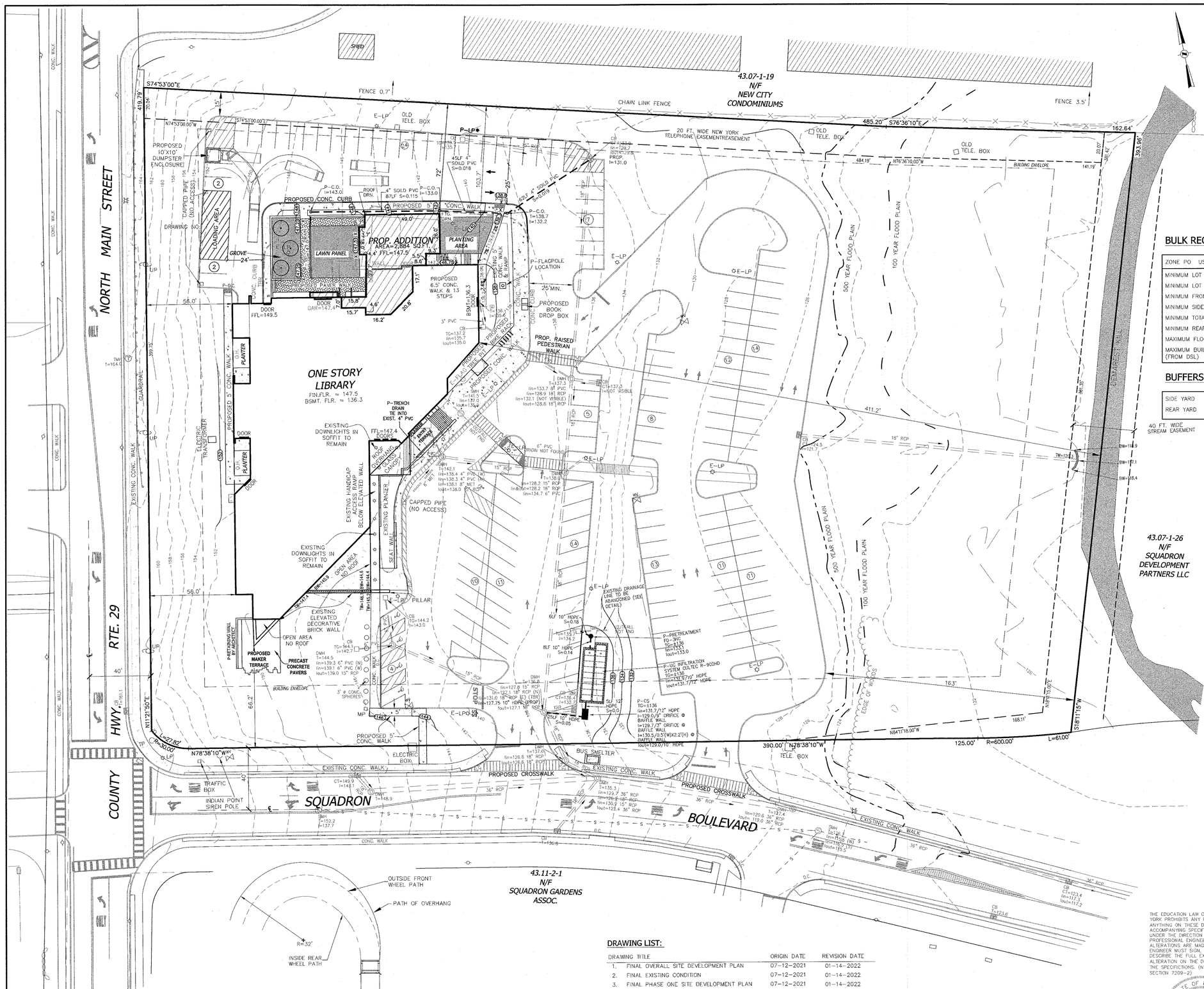

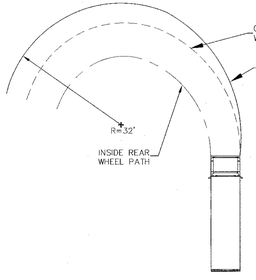

GARBAGE TRUCK TURNING RADIUS DETAIL

N.T.S.

LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATER MAIN	PROPOSED WATERLINE
EXISTING FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING GAS LINE	PROPOSED GAS LINE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN
EXISTING CATCH BASIN GRATE	PROPOSED CONTROL STRUCTURE
EXISTING DRAINAGE MANHOLE	PROPOSED DRAINAGE MANHOLE
EXISTING STORM DRAIN LINE	PROPOSED STORM DRAIN LINE
EXISTING SEWER MANHOLE	PROPOSED PRE-TREATMENT
EXISTING SEWER LINE	PROPOSED SEWER LINE
EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING LIGHT POLE	PROPOSED LIGHT POLE
EXISTING WATER VALVE	PROPOSED WATER VALVE
EXISTING GAS VALVE	PROPOSED GAS VALVE
TO BE REMOVED / RELOCATED	PROPOSED STOP SIGN
EXISTING DROP CRUB	PROPOSED SILT FENCE
	PROPOSED WATERSHED
	PROPOSED DROP CRUB

BULK REQUIREMENTS

ZONE PO USE GROUP "DD"	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	30,000 SQ.FT.	219,283 SQ.FT.	219,283 SQ.FT.
MINIMUM LOT WIDTH	125 FT.	N/A COR. LOT	N/A COR. LOT
MINIMUM FRONT YARD DEPTH	35 FT.	56 FT.	56 FT.
MINIMUM SIDE YARD WIDTH	25 FT.	103.7 FT.	72 FT.
MINIMUM TOTAL SIDE YARD DEPTH	65 FT.	N/A COR. LOT	N/A COR. LOT
MINIMUM REAR YARD	50 FT.	411.2 FT.	411.2 FT.
MAXIMUM FLOOR AREA RATIO	0.40	0.21	0.22
MAXIMUM BUILDING HEIGHT (FROM DSL)	35 FT. 1'0"/FT.	22 FT.	22 FT.

BUFFERS:

SIDE YARD	10 FT.	15 FT.	15 FT.
REAR YARD	10 FT.	163 FT.	163 FT.

LOT COVERAGE BREAKDOWN

	EXISTING	PROPOSED
BUILDING	22,991 SQ.FT.	24,164 SQ.FT.
WALKWAY & PATIO	8,103 SQ.FT.	11,714 SQ.FT.
MACADAM AREA	82,586 SQ.FT.	79,793 SQ.FT.
TOTAL	113,680 SQ.FT.	115,671 SQ.FT.

PARKING CALCULATIONS:

REQUIRED:
1 PARKING SPACE PER 200 SQ. FT. OF GROSS FLOOR AREA BUT NOT LESS 1 SPACE FOR EACH 5 SEATS WHERE PROVIDED
25,321 SQ. FT./200 = 109.15 OR 110 SPACES
740 SEATS/5 SEATS = 148 SPACES REQUIRED

TOTAL PARKING SPACES REQUIRED = 148 SPACES REQUIRED

NOTE: STORAGE AND MECHANICAL SPACE NOT INCLUDED IN PARKING CALCULATIONS.

PROPOSED:
TOTAL PARKING SPACES PROVIDED = 148 SPACES

SEAT CALCULATIONS:

	OCCUPANCY TYPE	AREA	AREA PER PERSON	OCCUPANTS
BASEMENT:				
	BUSINESS(CIRC)	1,103 SQ.FT.	150 SQ.FT.	8
	BUSINESS(OFFICE)	1,385 SQ.FT.	150 SQ.FT.	10
		2,488 SQ.FT.		18
LOWER LEVEL:				
	BUSINESS(CIRC)	983 SQ.FT.	150 SQ.FT.	8
	LIBRARY(READING)	561 SQ.FT.	50 SQ.FT.	12
	LIBRARY(STACKS)	3,332 SQ.FT.	100 SQ.FT.	34
		4,875 SQ.FT.		54
MAIN LEVEL:				
	ASSEMBLY(CONCENTRATED)	2,992 SQ.FT.	7 SQ.FT.	429
	ASSEMBLY(UNCONCENTRATED)	734 SQ.FT.	15 SQ.FT.	49
	BUSINESS(CIRC)	5,134 SQ.FT.	150 SQ.FT.	35
	BUSINESS(OFFICE)	4,924 SQ.FT.	150 SQ.FT.	26
	LIBRARY(READING)	2,147 SQ.FT.	50 SQ.FT.	45
	LIBRARY(STACKS)	1,574 SQ.FT.	100 SQ.FT.	16
		17,505 SQ.FT.		610
MEZZANINE:				
	BUSINESS(CIRC)	326 SQ.FT.	150 SQ.FT.	3
	BUSINESS(OFFICE)	343 SQ.FT.	150 SQ.FT.	3
	LIBRARY(READING)	987 SQ.FT.	50 SQ.FT.	20
	LIBRARY(STACKS)	2,997 SQ.FT.	100 SQ.FT.	32
		4653 SQ.FT.		58
SUBTOTAL:		29,521 SQ.FT.		740 SEATS
STORAGE & MECHANICAL:		1,762 SQ.FT.		
TOTAL:		31,283 SQ.FT.		740 SEATS

DRAWING LIST:

DRAWING TITLE	ORIGIN DATE	REVISION DATE
1. FINAL OVERALL SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
2. FINAL EXISTING CONDITION	07-12-2021	01-14-2022
3. FINAL PHASE ONE SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
4. FINAL PHASE TWO SITE DEVELOPMENT PLAN	07-12-2021	01-14-2022
5. FINAL DETAILS	07-12-2021	01-14-2022
6. FINAL EROSION & SEDIMENT CONTROL PLAN	07-12-2021	01-14-2022
7. FINAL TREE PRESERVATION PLAN	07-12-2021	01-14-2022
8. FINAL LIGHTING PLAN	07-12-2021	01-14-2022
9. FINAL FIRE TRUCK TURNING PLAN (PHASE TWO)	07-12-2021	01-14-2022
L101, L301, L401, L701 & L801 LANDSCAPE PLANS	07-09-2021	01-14-2022

OWNERS APPROVAL FOR FILING	
OWNER OR REPRESENTATIVE	DATE

FINAL PLANNING BOARD APPROVAL	
CHAIRPERSON PLANNING BOARD TOWN OF CLARKSTOWN	DATE

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STATE OF NEW YORK · RYAN A. NASHER · LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
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"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE DELAWARE – HUDSON LAND SURVEYORS ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

STATE OF NEW YORK · JOHN R. ATZL · LICENSED PROFESSIONAL ENGINEER

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

ATZL, NASHER & ZIGLER P.C.
ENGINEERS–SURVEYORS–PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

VMDO Architects
vmdo.com
434.296.5684
200 E Market Street
Charlottesville, VA 22902
1200 18th Street NW Ste 700
Washington, DC 20036

PROJECT:

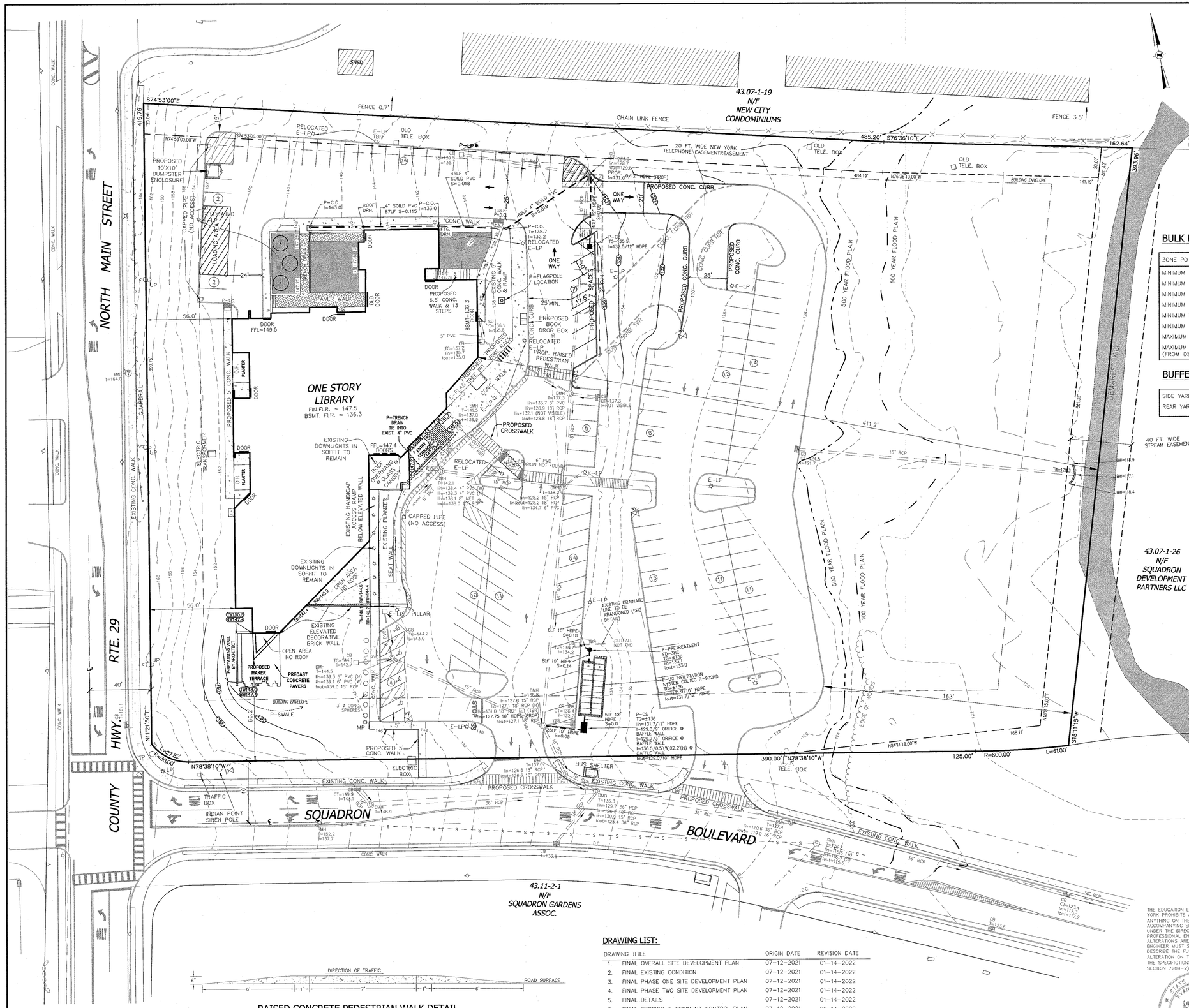
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL PHASE ONE SITE DEVELOPMENT PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	3 of 9



LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATER MAIN	PROPOSED WATERLINE
EXISTING FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING GAS LINE	PROPOSED GAS LINE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN
EXISTING CATCH BASIN GRATE	PROPOSED CONTROL STRUCTURE
EXISTING DRAINAGE MANHOLE	PROPOSED DRAINAGE MANHOLE
EXISTING STORM DRAIN LINE	PROPOSED STORM DRAIN LINE
EXISTING SEWER MANHOLE	PROPOSED PRE-TREATMENT
EXISTING SEWER LINE	PROPOSED SEWER LINE
EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING LIGHT POLE	PROPOSED LIGHT POLE
EXISTING WATER VALVE	PROPOSED WATER VALVE
EXISTING GAS VALVE	PROPOSED GAS VALVE
TO BE REMOVED / RELOCATED	PROPOSED STOP SIGN
EXISTING DROP CRUB	PROPOSED SILT FENCE
	PROPOSED WATERSHED
	PROPOSED DROP CRUB

BULK REQUIREMENTS

ZONE PO USE GROUP "DD"	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	30,000 SQ.FT.	219,283 SQ.FT.	219,283 SQ.FT.
MINIMUM LOT WIDTH	125 FT.	N/A COR. LOT	N/A COR. LOT
MINIMUM FRONT YARD DEPTH	35 FT.	56 FT.	56 FT.
MINIMUM SIDE YARD WIDTH	25 FT.	103.7 FT.	72 FT.
MINIMUM TOTAL SIDE YARD DEPTH	65 FT.	N/A COR. LOT	N/A COR. LOT
MINIMUM REAR YARD	50 FT.	411.2 FT.	411.2 FT.
MAXIMUM FLOOR AREA RATIO	0.40	0.21	0.22
MAXIMUM BUILDING HEIGHT (FROM DSL)	35 FT. 1'0"/FT.	22 FT.	22 FT.

BUFFERS:

SIDE YARD	10 FT.	15 FT.	15 FT.
REAR YARD	10 FT.	163 FT.	163 FT.

LOT COVERAGE BREAKDOWN

	EXISTING	PROPOSED
BUILDING	24,164 SQ.FT.	24,164 SQ.FT.
WALKWAY & PATIO	11,714 SQ.FT.	12,535 SQ.FT.
MACADAM AREA	79,793 SQ.FT.	78,977 SQ.FT.
TOTAL	115,671 SQ.FT.	115,676 SQ.FT.

PARKING CALCULATIONS:

REQUIRED:
1 PARKING SPACE PER 200 SQ. FT. OF GROSS FLOOR AREA BUT NOT LESS 1 SPACE FOR EACH 5 SEATS WHERE PROVIDED
25,321 SQ. FT./200 = 109.15 OR 110 SPACES
740 SEATS/5 SEATS = 148 SPACES REQUIRED

TOTAL PARKING SPACES REQUIRED = 148 SPACES REQUIRED

NOTE: STORAGE AND MECHANICAL SPACE NOT INCLUDED IN PARKING CALCULATIONS.

PROPOSED:
TOTAL PARKING SPACES PROVIDED = 148 SPACES

SEAT CALCULATIONS:

	OCCUPANCY TYPE	AREA	AREA PER PERSON	OCCUPANTS
BASEMENT:				
	BUSINESS(CIRC)	1,103 SQ.FT.	150 SQ.FT.	8
	BUSINESS(OFFICE)	1,385 SQ.FT.	150 SQ.FT.	10
		2,488 SQ.FT.		18
LOWER LEVEL:				
	BUSINESS(CIRC)	983 SQ.FT.	150 SQ.FT.	8
	LIBRARY(READING)	561 SQ.FT.	50 SQ.FT.	12
	LIBRARY(STACKS)	3,332 SQ.FT.	100 SQ.FT.	34
		4,875 SQ.FT.		54
MAIN LEVEL:				
	ASSEMBLY(CONCENTRATED)	2,992 SQ.FT.	7 SQ.FT.	429
	ASSEMBLY(UNCONCENTRATED)	734 SQ.FT.	15 SQ.FT.	49
	BUSINESS(CIRC)	5,134 SQ.FT.	150 SQ.FT.	35
	BUSINESS(OFFICE)	4,924 SQ.FT.	150 SQ.FT.	26
	LIBRARY(READING)	2,147 SQ.FT.	50 SQ.FT.	45
	LIBRARY(STACKS)	1,574 SQ.FT.	100 SQ.FT.	16
		17,505 SQ.FT.		610
MEZZANINE:				
	BUSINESS(CIRC)	326 SQ.FT.	150 SQ.FT.	3
	BUSINESS(OFFICE)	343 SQ.FT.	150 SQ.FT.	3
	LIBRARY(READING)	987 SQ.FT.	50 SQ.FT.	20
	LIBRARY(STACKS)	2,997 SQ.FT.	100 SQ.FT.	32
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SUBTOTAL:		29,521 SQ.FT.		740 SEATS
STORAGE & MECHANICAL:		1,762 SQ.FT.		
TOTAL:		31,283 SQ.FT.		740 SEATS

RAISED CONCRETE PEDESTRIAN WALK DETAIL
SCALE : 1"=3'

DRAWING LIST:

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ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
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E-mail: info@anzny.com
Web: www.ANZNY.com

VMDO Architects
vmdo.com
434.296.5684
200 E Market Street
Charlottesville, VA 22902
1200 18th Street NW Ste 700
Washington, DC 20036

PROJECT:

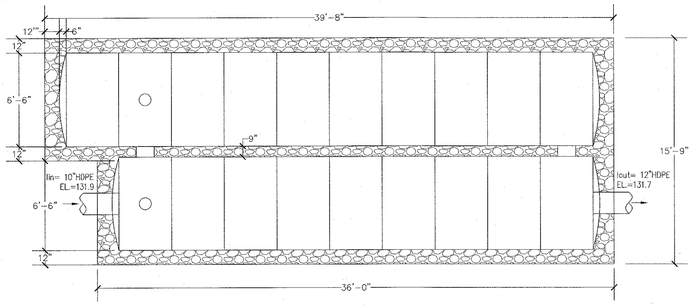
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

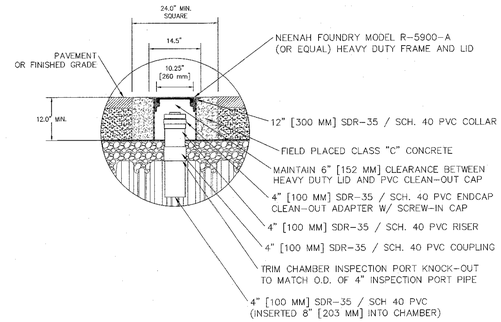
FINAL PHASE TWO SITE DEVELOPMENT PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 4 of 9



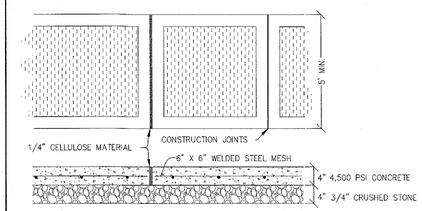
P-UNDERGROUND INFILTRATION SYSTEM (P-UIS) DETAIL

SCALE: 1"=5'



INSPECTION PORT DETAIL

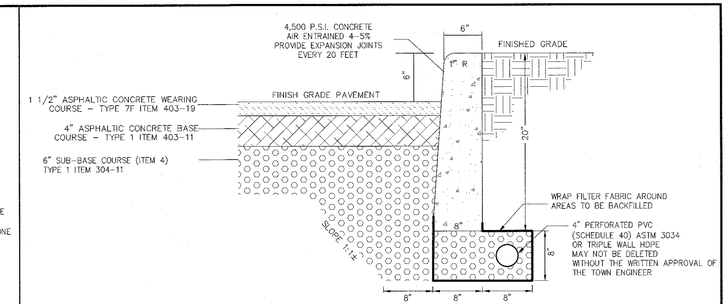
N.T.S.



1. CONSTRUCTION JOINTS HAVING A 1/4 INCH RADIUS SHALL BE PLACED AT 4 FEET INTERVALS.
2. INSTALL EXPANSION JOINTS OF 1/4 INCH CELLULOSE MATERIAL OR EQUAL AT 20 FEET INTERVALS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
4. CONCRETE SHALL BE AIR ENTRAINED 6% PLUS or MINUS 1%.
5. SIDEWALK REINFORCEMENT SHALL CONSIST OF #6 GUAGE 6" X 6" STEEL MESH PLACED 2 INCHES FROM THE BOTTOM OF THE SIDEWALK SLAB.

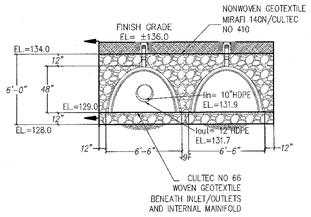
CONCRETE SIDEWALK

N.T.S.



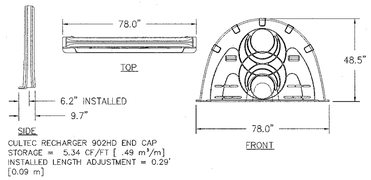
ASPHALTIC CONCRETE PAVEMENT & CONCRETE CURB DETAIL FOR TRAVELLED WAY

N.T.S.



CULTEC RECHARGER 902HD OR APPROVED EQUAL

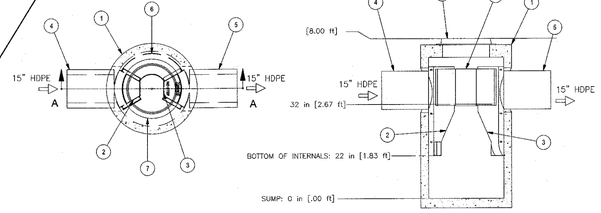
N.T.S.



CULTEC RECHARGER 902HD END CAP STORAGE = 5.34 CF/FT [.49 m³/m] INSTALLED LENGTH ADJUSTMENT = 0.29' [0.09 m]

CULTEC RECHARGER 902HD HEAVY END CAP OR APPROVED EQUAL

N.T.S.



SECTION A-A

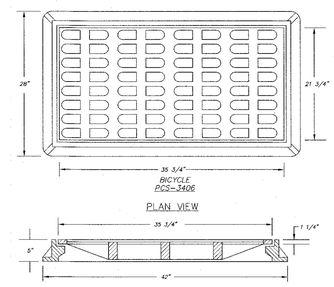
Parts List			
ITEM	QTY.	DESCRIPTION	SIZE (in)
1	1	I.D. CONCRETE MANHOLE	36
2	1	INLET CHUTE (W/ FLOATABLES TRAP)	
3	1	OUTLET CHUTE	
4	1	INLET PIPE (BY OTHERS)	12
5	1	OUTLET PIPE (BY OTHERS)	12
6	1	HIGH FLOW BYPASS	
7	1	FRAME AND COVER (OR GRATE)	24

CAPACITIES:

1. PEAK HYDRAULIC FLOW: 15.0 cfs (424 l/s)
2. TYPICAL TREATMENT FLOW: 0.84 cfs (23.78 l/s)
3. SEDIMENT STORAGE CAPACITY: 0.4 cu. yd. (0.3 cu. m.)
4. OIL STORAGE CAPACITY: 125 gal. (473 liters)
5. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 18 in. (450 mm)

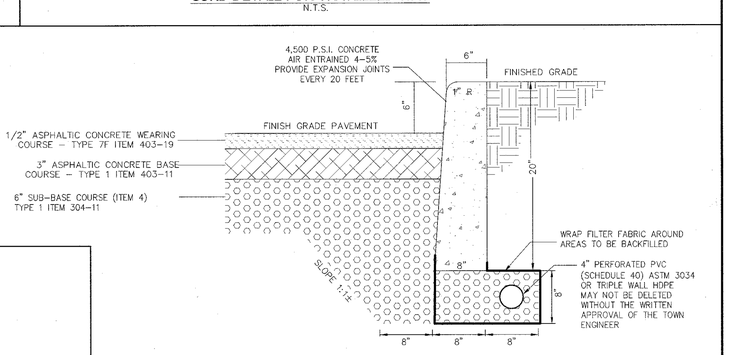
PRETREATMENT (FIRST DEFENSE FD-3HC OR EQUAL)

N.T.S.



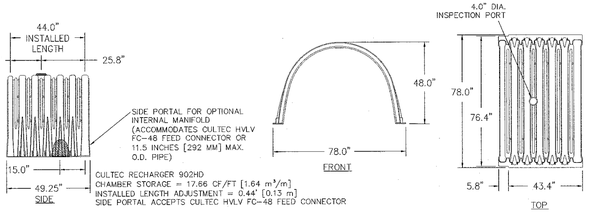
BICYCLE SAFE GRATE CAMPBELL FOUNDRY MODEL NO. 3406 OR APPROVED EQUAL

N.T.S.



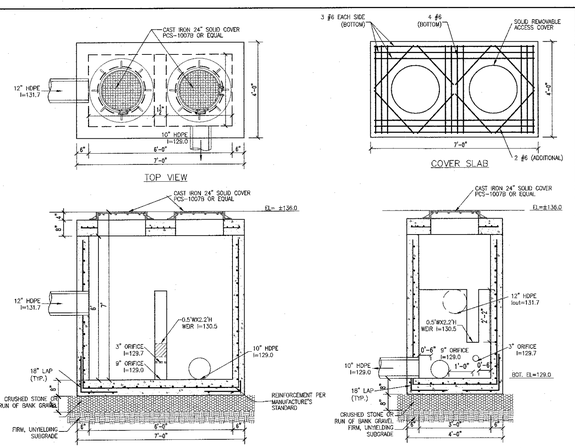
ASPHALTIC CONCRETE PAVEMENT & CONCRETE CURB DETAIL FOR PARKING AREAS

N.T.S.



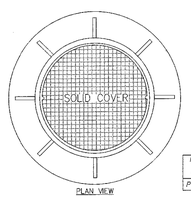
CULTEC RECHARGER 902HD OR EQUAL HEAVY DUTY

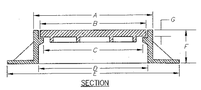
N.T.S.



P-CS DETAIL

SCALE: 1"=3'



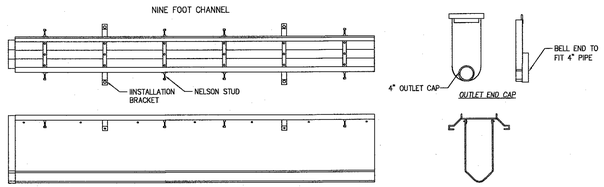


PATTERN	DIMENSIONS IN INCHES						
NUMBER	A	B	C	D	E	F	G
PCS-100TB	25 1/2	24	22 3/8	22 3/8	32	4	1 3/8

PRE-CAST CONCRETE SALES OR EQUAL

24" SOLID MANHOLE COVER

N.T.S.

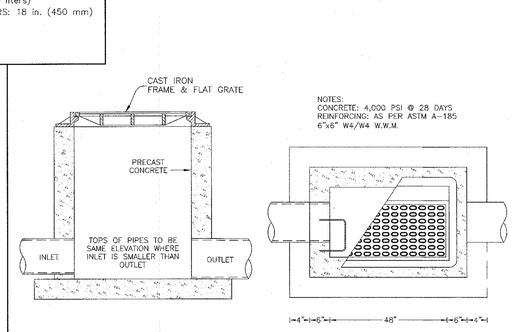


SPECIFICATION:

- THE SURFACE DRAINAGE SYSTEM SHALL BE ACO DRAIN FG200 COMPLETE WITH BLACK COATED STEEL FRAME AND BOLTED GRATINGS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC. OR EQUAL APPROVED.
- THE TRENCH SYSTEM BODIES SHALL BE MANUFACTURE FROM FIBERGLASS, WITH MINIMUM PROPERTIES AS FOLLOWS:
  COMPRESSIVE STRENGTH: 24,400 psi
  FLEXURAL STRENGH: 9,943 psi
  WATER ABSORPTION: 0.33%
  FROST PROOF
  SALT PROOF
  DILUTE ACID AND ALKALI RESISTANT
- THE TRENCH DRAIN SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATION.

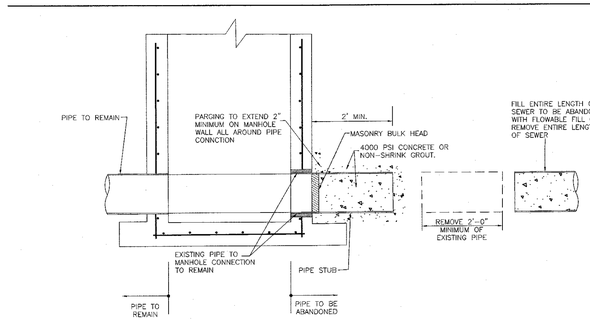
ACO FLOWDRAIN FG200 SYSTEM DETAIL

N.T.S.



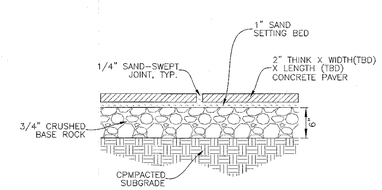
PRECAST STANDARD CATCH BASIN DETAIL

N.T.S.



ABANDONMENT OF PIPE AT MANHOLE DETAIL

N.T.S.



PRECAST CONCRETE PAVERS DETAIL FOR MAKER TERRACE

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STATE OF NEW YORK · RYAN A. NASHER · 089066 · LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK · JOHN R. ATZL · 50228 · LICENSED PROFESSIONAL ENGINEER

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

ATZL, NASHER & ZIGLER P.C.
ENGINEERS-SURVEYORS-PLANNERS
232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com
Web: www.ANZNY.com

VMDO Architects
vmdo.com
434.296.5684
200 E Market Street
Charlottesville, VA 22902
1200 18th Street NW Ste 700
Washington, DC 20036

PROJECT:

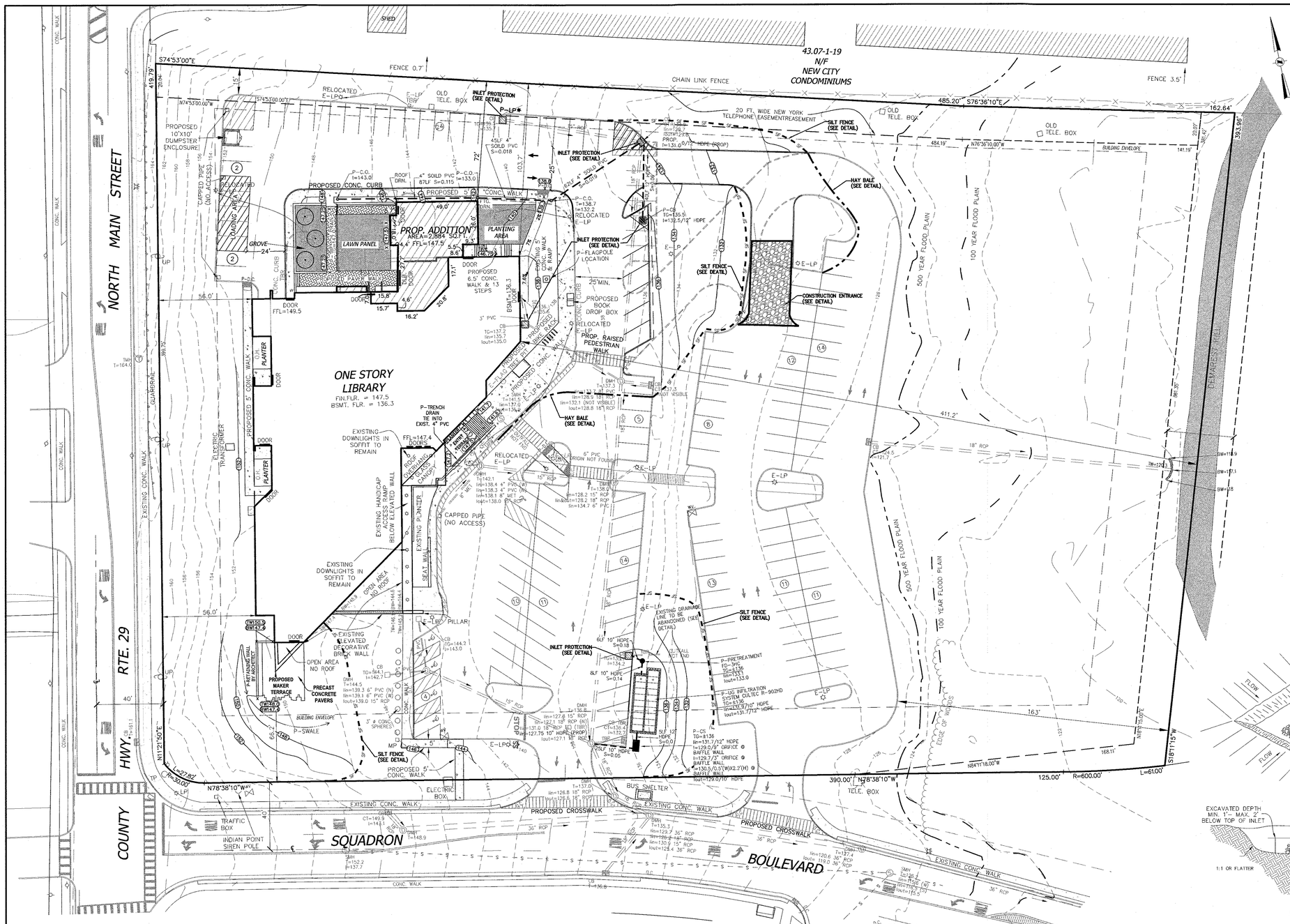
NEW CITY LIBRARY

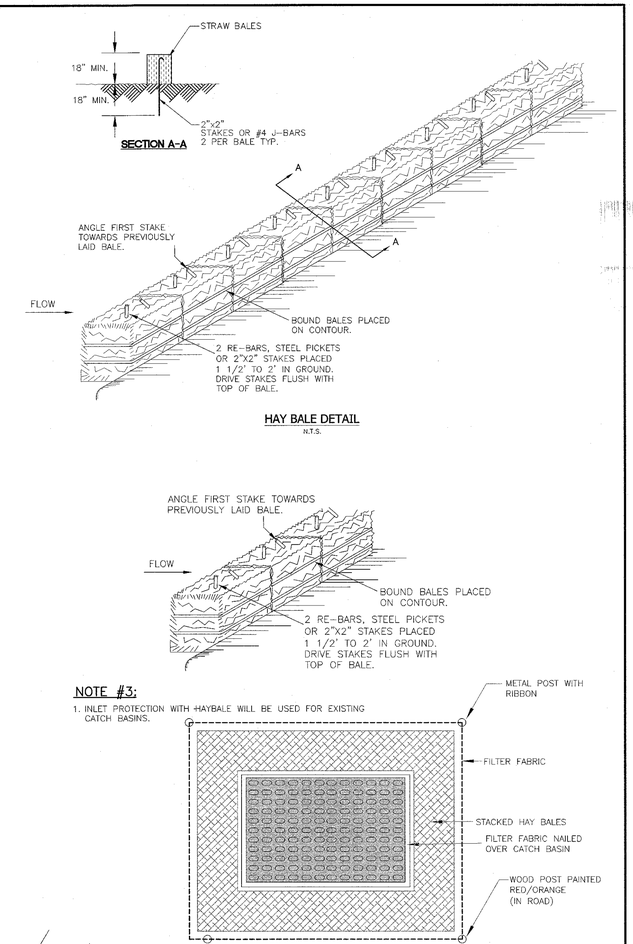
TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL DETAILS

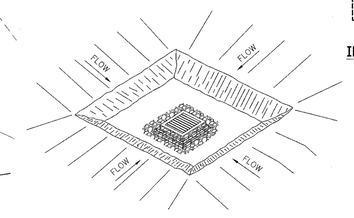
DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 5 of 9

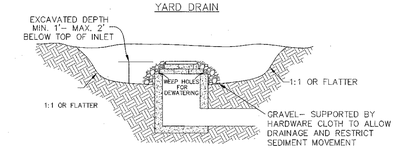




NOTE #3:

1. INLET PROTECTION WITH HAYBALE WILL BE USED FOR EXISTING CATCH BASINS.





INLET PROTECTION DETAIL
N.T.S.

REVISION	DATE	DESCRIPTION
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PROJECT:

NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL EROSION & SEDIMENT CONTROL PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 6 of 9

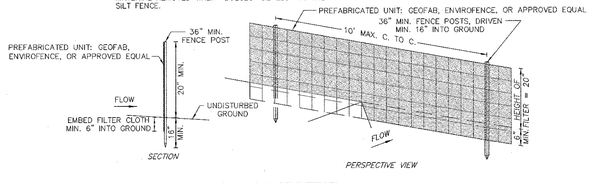
LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATER MAIN	PROPOSED WATERLINE
EXISTING FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING GAS LINE	PROPOSED GAS LINE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN
EXISTING CATCH BASIN GRATE	PROPOSED CONTROL STRUCTURE
EXISTING DRAINAGE MANHOLE	PROPOSED DRAINAGE MANHOLE
EXISTING STORM DRAIN LINE	PROPOSED STORM DRAIN LINE
EXISTING SEWER MANHOLE	PROPOSED PRE-TREATMENT
EXISTING SEWER LINE	PROPOSED SEWER LINE
EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING LIGHT POLE	PROPOSED LIGHT POLE
EXISTING WATER VALVE	PROPOSED WATER VALVE
EXISTING GAS VALVE	PROPOSED GAS VALVE
TO BE REMOVED / RELOCATED	PROPOSED STOP SIGN
EXISTING DROP CRUB	PROPOSED SILT FENCE
	PROPOSED WATERSHED
	PROPOSED DROP CRUB

CONSTRUCTION NOTES FOR PRE FABRICATED SILT FENCE

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

1. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



SILT FENCE DETAIL
N.T.S.

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

LENGTH – NOT LESS THAN 50 FT. (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FT. MINIMUM LENGTH WOULD APPLY).

THICKNESS – NOT LESS THAN 6 IN..

WIDTH – 12 FT. MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. 24 FT. IF SINGLE ENTRANCE TO SITE.

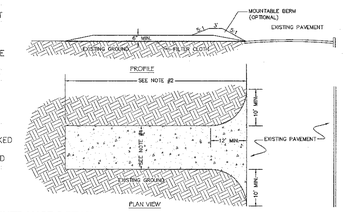
FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.

SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



CONSTRUCTION ENTRANCE DETAIL
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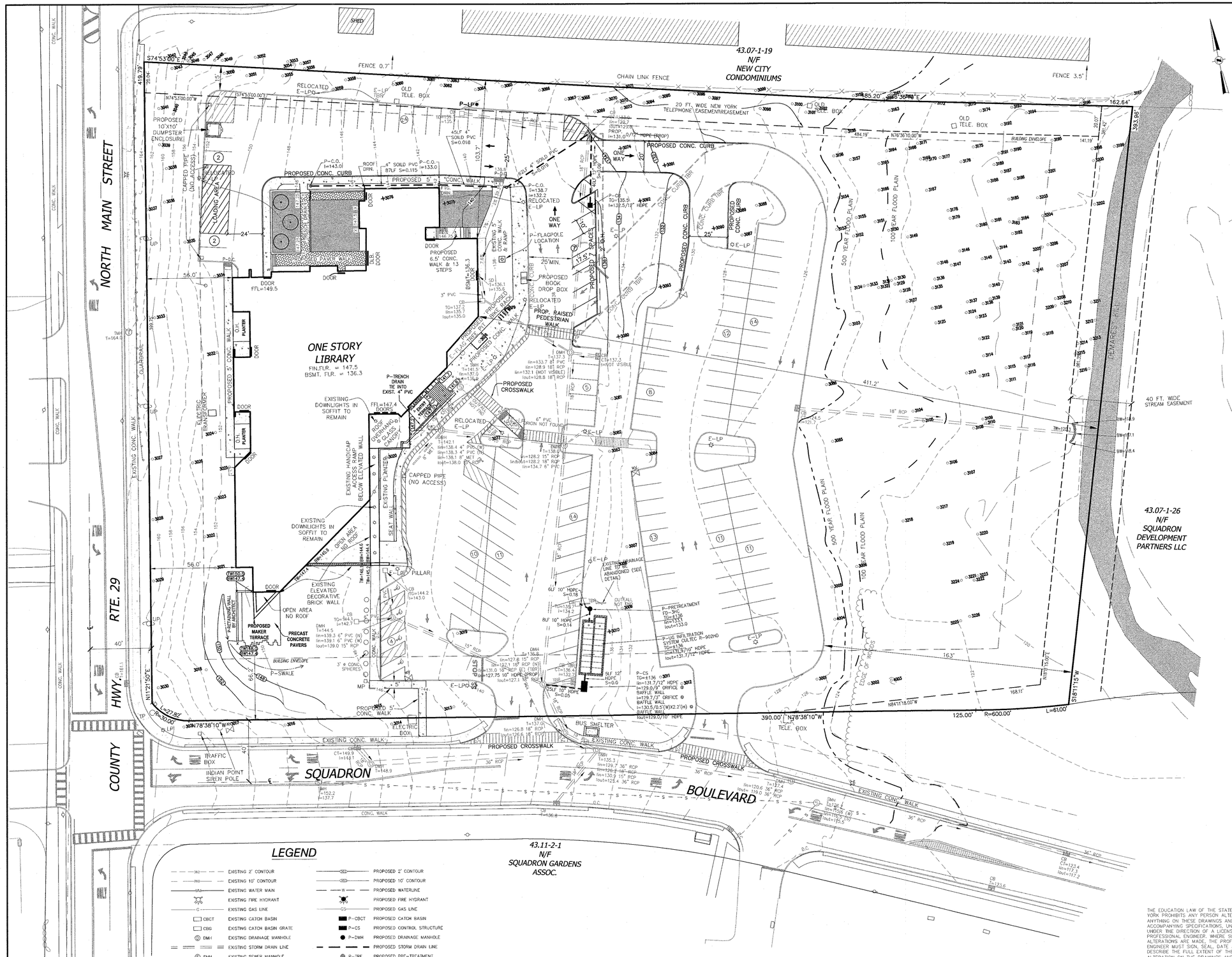

TREE LIST:

NUMBER	SIZE (IN)	SPECIES
3001	12	PINE
3002	14	TWIN MAPLE
4003	18	MAPLE
4004	10	PINE
3005	14	CEDAR
3006	8	TWIN CEDAR
3007	13	BIRCH
3008	10	BIRCH
3009	8	TRIPLE ELM
3010	14	BIRCH
3011	9	CLUMP MAPLE
3012	8	CLUMP MAPLE
3013	14	OAK
3014	9	PEAR
3015	14	OAK
3016	10	PEAR
3017	8	PEAR
3018	23	PEAR
3019	12	BIRCH
3020	12	PEAR
3021	14	PEAR
3022	14	MAPLE
3023	14	PEAR
3024	14	OAK
3025	14	SPRUCE
3026	3	CLUMP
3027	18	MULBERRY
3028	20	MULBERRY
3029	20	MULBERRY
3030	12	PEAR
3031	12	PEAR
3032	12	PEAR
3033	12	PEAR
3034	15	PEAR
3035	14	MAPLE
3036	30	OAK
3037	9	PINE
3038	30	PINE
3039	9	PINE
3040	12	PINE
3041	8	PEAR
3042	8	MAPLE
3043	15	TWIN OAK
3044	12	PEAR
3045	12	MAP
3046	8	MAPLE
3047	12	MAPLE
3048	11	HICKORY
3049	13	MAPLE
3050	13	MAPLE
3051	12	WALNUT
3052	13	MAPLE
3053	10	HICKORY
3054	8	MAPLE
3055	8	MAPLE
3056	18	ASH
3057	8	MAPLE
3058	17	MAPLE
3059	18	OAK
3060	12	OAK
3061	15	MAPLE
3062	10	MAPLE
3063	8	MAPLE
3064	42	OAK
3065	8	MAPLE
3066	27	OAK
3067	8	TWIN OAK
3068	8	BIRCH
3069	9	BIRCH
3070	11	OAK
3071	28	OAK
3072	8	OAK
3073	15	BIRCH
3074	10	CATALPA
3075	8	MADONHAIR
3076	7	CLUMP MAPLE
3077	8	MAPLE
3078	13	MADONHAIR
3079	8	MADONHAIR
3080	12	TWIN BIRCH
3081	15	BIRCH
3082	9	MAPLE
3083	10	MAPLE
3084	9	MAPLE
3085	14	BEECH
3086	8	TWIN CEDAR
3087	6	CLUMP MAPLE
3088	17	MAPLE
3089	14	MAPLE
3090	6	CLUMP MAPLE
3091	11	TWIN BIRCH
3092	12	TWIN BIRCH
3093	4	CLUMP MAPLE
3094	11	OAK
3095	8	BIRCH
3096	10	TWIN WALNUT
3097	17	MAPLE
3098	9	MAPLE
3099	10	MAPLE
3100	9	MAPLE
3101	11	TRIPLE BEECH

NUMBER	SIZE (IN)	SPECIES
3102	15	OAK
3103	9	CEDAR
3104	15	BEECH
3105	22	BIRCH
3106	20	MAPLE
3107	17	MAPLE
3108	9	CATALPA
3109	9	CATALPA
3110	12	TWIN CATALPA
3111	12	MAPLE
3112	14	MAPLE
3113	14	MAPLE
3114	6	MAPLE
3115	11	MAPLE
3116	12	MAPLE
3117	20	MAPLE
3118	9	TWIN MAPLE
3119	10	MAPLE
3120	8	WALNUT
3121	14	WALNUT
3122	12	MAPLE
3123	8	MAPLE
3124	12	MAPLE
3125	24	MAPLE
3126	9	TRIPLE MAPLE
3127	12	MAPLE
3128	14	TWIN MAPLE
3129	16	MAPLE
3130	10	MAPLE
3131	8	MAPLE
3132	16	MAPLE
3133	10	BEECH
3134	11	BEECH
3135	10	MAPLE
3136	9	MAPLE
3137	12	MAPLE
3138	12	MAPLE
3139	11	WALNUT
3140	12	MAPLE
3141	28	MAPLE
3142	10	TRIPLE MAPLE
3143	8	MAPLE
3144	9	MAPLE
3145	12	MAPLE
3146	10	MAPLE
3147	16	MAPLE
3148	12	MAPLE
3149	15	MAPLE
3150	8	TWIN MAPLE
3151	9	MAPLE
3152	9	BEECH
3153	8	CEDAR
3154	30	BEECH
3155	9	MAPLE
3156	11	BEECH
3157	10	MAPLE
3158	8	BEECH
3159	21	WALNUT
3160	10	BEECH
3161	17	BEECH
3162	11	BEECH
3163	10	MAPLE
3164	10	MAPLE
3165	12	MAPLE
3166	14	MAPLE
3167	12	QUAD. MAPLE
3168	18	MAPLE
3169	10	MAPLE
3170	10	MAPLE
3171	10	MAPLE
3172	15	OAK
3173	8	BEECH
3174	8	BEECH
3175	10	MAPLE
3176	17	TWIN MAPLE
3177	11	MAPLE
3178	24	MAPLE
3179	15	MAPLE
3180	13	MAPLE
3181	9	TWIN MAPLE
3182	12	MAPLE
3183	13	MAPLE
3184	12	WALNUT
3185	12	MAPLE
3186	8	MAPLE
3187	9	WALNUT
3188	11	MAPLE
3189	15	WALNUT
3190	11	WALNUT
3191	15	MAPLE
3192	10	BEECH
3193	17	WALNUT
3194	8	TWIN OAK
3195	10	WALNUT
3196	8	MAPLE
3197	9	BEECH
3198	24	CATALPA
3199	15	CATALPA
3200	10	CLUMP MAPLE
3201	10	MAPLE

NUMBER	SIZE (IN)	SPECIES
3202	11	WALNUT
3203	13	WALNUT
3204	10	MAPLE
3205	10	MAPLE
3206	26	BEECH
3207	11	BEECH
3208	9	TWIN WALNUT
3209	8	TWIN WALNUT
3210	8	QUAD. WALNUT
3211	19	MAPLE
3212	8	MAPLE
3213	18	MAPLE
3214	8	CLUMP WALNUT
3215	8	WALNUT
3216	10	WALNUT
3217	16	MAPPLE
3218	10	TRIPLE WILLOW
3219	28	TWIN MAPLE
3220	6	TWIN OAK
3221	8	WILLOW
3222	8	WILLOW
3223	8	WILLOW
3224	8	WILLOW
3225	20	WILLOW
3226	12	WILLOW

TREE LEGEND

- ◦ DENOTES OFFSITE TREE
- ● DENOTES ONSITE TREE TO REMAIN
- ✕ DENOTES TREE TO BE REMOVED

TOTAL SITE ACREAGE 5.9 ACRES

TREES REQUIRED 17 X 5.9 ACRES	=	100.3 OR 101 TREES
EXISTING TREES ON SITE	=	226 TREES
EXISTING TREES TO REMAIN	=	215 TREES
EXISTING TREES TO BE REMOVED	=	11 TREES
ADDITIONAL TREES REQUIRED	=	0 TREES
TOTAL TREES ON SITE	=	215 TREES

LEGEND

362	EXISTING 2' CONTOUR	362	PROPOSED 2' CONTOUR
360	EXISTING 10' CONTOUR	360	PROPOSED 10' CONTOUR
WA	EXISTING WATER MAIN	W	PROPOSED WATERLINE
	EXISTING FIRE HYDRANT		PROPOSED FIRE HYDRANT
G	EXISTING GAS LINE	G	PROPOSED GAS LINE
CBCT	EXISTING CATCH BASIN	P-CBCT	PROPOSED CATCH BASIN
CBG	EXISTING CATCH BASIN GRATE	P-CS	PROPOSED CONTROL STRUCTURE
DMH	EXISTING DRAINAGE MANHOLE	P-DMH	PROPOSED DRAINAGE MANHOLE
	EXISTING STORM DRAIN LINE		PROPOSED STORM DRAIN LINE
SMH	EXISTING SEWER MANHOLE	P-TRE.	PROPOSED PRE-TREATMENT
S	EXISTING SEWER LINE	SS	PROPOSED SEWER LINE
+ 360.0	EXISTING SPOT ELEVATION	+ 360.0	PROPOSED SPOT ELEVATION
UP	EXISTING UTILITY POLE	UP	PROPOSED UTILITY POLE
E-LP	EXISTING LIGHT POLE	P-LP	PROPOSED LIGHT POLE
WV	EXISTING WATER VALVE	WV	PROPOSED WATER VALVE
GV	EXISTING GAS VALVE	GV	PROPOSED GAS VALVE
TBR	TO BE REMOVED / RELOCATED	SIGN	PROPOSED STOP SIGN
D.C.	EXISTING DROP CRUB	SF	PROPOSED SILT FENCE
		WS	PROPOSED WATERSHED
		P-D.C.	PROPOSED DROP CRUB

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STATE OF NEW YORK · JOHN R. ATZL · 50228

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

PROJECT:

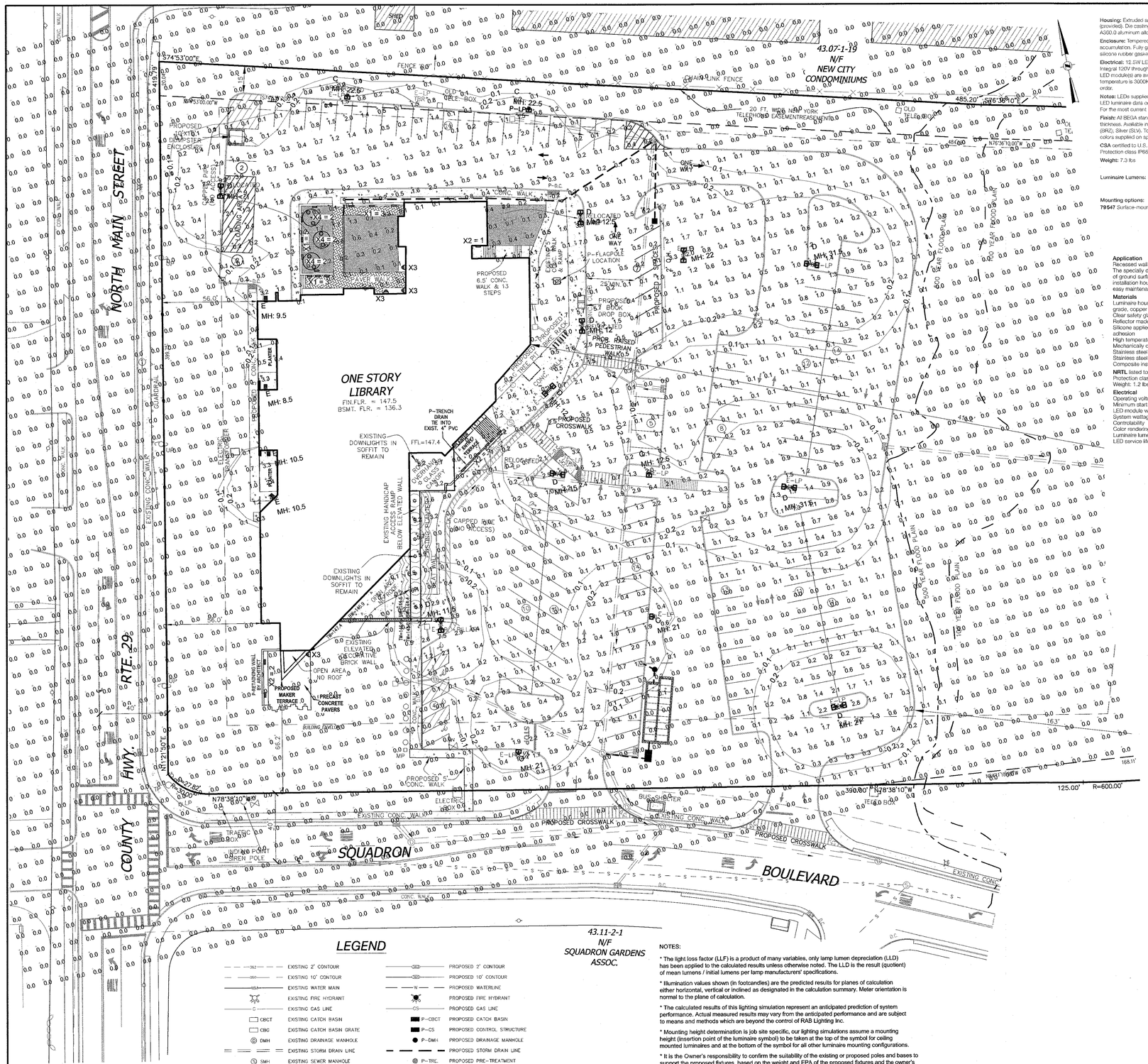
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL TREE PRESERVATION PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 7 of 9



LEGEND

362	EXISTING 2' CONTOUR
360	EXISTING 10' CONTOUR
WA	EXISTING WATER MAIN
	EXISTING FIRE HYDRANT
G	EXISTING GAS LINE
CBCT	EXISTING CATCH BASIN
CBG	EXISTING CATCH BASIN GRATE
DMH	EXISTING DRAINAGE MANHOLE
	EXISTING STORM DRAIN LINE
SMH	EXISTING SEWER MANHOLE
S	EXISTING SEWER LINE
+ 360.0	EXISTING SPOT ELEVATION
UP	EXISTING UTILITY POLE
E-LP	EXISTING LIGHT POLE
WV	EXISTING WATER VALVE
GV	EXISTING GAS VALVE
TBR	TO BE REMOVED / RELOCATED
D.C.	EXISTING DROP CRUB
362	PROPOSED 2' CONTOUR
360	PROPOSED 10' CONTOUR
W	PROPOSED WATERLINE
	PROPOSED FIRE HYDRANT
GS	PROPOSED GAS LINE
P-CBCT	PROPOSED CATCH BASIN
P-CS	PROPOSED CONTROL STRUCTURE
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	PROPOSED STORM DRAIN LINE
P-TRE.	PROPOSED PRE-TREATMENT
SS	PROPOSED SEWER LINE
+ 360.0	PROPOSED SPOT ELEVATION
P-UP	PROPOSED UTILITY POLE
P-LP	PROPOSED LIGHT POLE
WV	PROPOSED WATER VALVE
GV	PROPOSED GAS VALVE
SS	PROPOSED STOP SIGN
SF	PROPOSED SILT FENCE
WS	PROPOSED WATERSHED
P-D.C.	PROPOSED DROP CRUB

NOTES:

* The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) has been applied to the calculated results unless otherwise noted. The LLD is the result (quotient) of mean lumens / initial lumens per lamp manufacturers' specifications.

* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.

* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.

* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.

* It is the Owner's responsibility to confirm the suitability of the existing or proposed poles and bases to support the proposed fixtures, based on the weight and EPA of the proposed fixtures and the owner's site soil conditions and wind zone. It is recommended that a professional engineer licensed to practice in the state the site is located be engaged to assist in this determination.

* The landscape material shown hereon is conceptual, and is not intended to be an accurate representation of any particular plant, shrub, bush, or tree, as these materials are living objects, and subject to constant change. The conceptual objects shown are for illustrative purposes only. The actual illumination values measured in the field will vary.

* Photometric model elements such as buildings, rooms, plants, furnishings or any architectural details which impact the dispersion of light must be detailed by the customer documents for inclusion in the RAB lighting design model. RAB is not responsible for any inaccuracies caused by incomplete information on the part of the customer, and reserves the right to use best judgement when translating customer requests into photometric studies.

* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending apply.

Housing: Extruded and die cast aluminum. Mounts directly to a BEGA 19537 box (provided). Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Tempered, clear glass, flush to the die casting to prevent water accumulation. Fully gasketed for weather tight operation using a 'U' channel molded silicone rubber gasket.

Electrical: 12.5W LED luminaire, 15.9 total system watts. -40°C start temperature. Integral 120V through 277V electronic LED driver,0-10V, TRIAC, and ELV dimmable. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI), add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

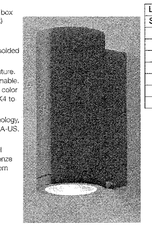
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK) White (WHT), Bronze (BRZ), Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations.
Protection class IP66

Weight: 7.3 lbs

Luminaire Lumens: 1258

Mounting options:
79547 Surface-mount wiring box



BEGALED-X3 SINGLE WALL LUMINAIRE LIGHT

N.T.S.

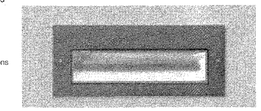
Application
Recessed wall luminaire with asymmetric forward throw light distribution. The specially designed optics in this luminaire allow for superior illumination of ground surfaces at an extremely low mounting height. Separate installation housing allows for seamless coordination into construction and easy maintenance.

Materials
Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Clear safety glass with optical texture
Reflector made of pure anodized aluminum
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel hellcoils
Stainless steel screw clamps
Composite installation housing

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 1.2 lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-40°C
LED module wattage	5.1W
System wattage	6.8W
Dimmability	0-10V dimmable
Color rendering index	Ra>80
Luminaire lumens	305 lumens (4000K)
LED service life (L70)	60,000 hours



BEGALED-X1 & X2 RECESSED WALL LUMINAIRE LIGHT

N.T.S.

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Lumens	BUG Rating
	5	ALED18Y	SINGLE	N.A.	1.000	Area Light	2461	B1-U0-G0
	10	ALED18Y x 2	BACK-BACK	N.A.	1.000	Area Light	2461	B1-U0-G0
	4	WPLED10Y	SINGLE	N.A.	1.000	Wallpack	1198	B1-U0-G0
	11	BEGALED-X1	SINGLE	N.A.	1.000	Wallpack	305	B1-U0-G0
	8	BEGALED-X2	SINGLE	N.A.	1.000	Wallpack	305	B1-U0-G0
	4	BEGALED-X3	SINGLE	N.A.	1.000	Wallpack	1258	B1-U0-G0
	6	BEGALED-X4	SINGLE	N.A.	1.000	IN GRADE	74	N.A.

Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	PtSpcTb	Meter Type
SITE	Illuminance	Fc	0.12	9.2	0.0	N.A.	N.A.	10	10	Horizontal

Housing: Constructed of one-piece cast stainless steel.

Enclosure: Tempered white safety glass, machined to be flush with the stainless steel faceplate. Faceplate is secured by four (4) captive flat head stainless steel screw and is machined to fit flush to mounting surface. Pure anodized aluminum reflector. One piece molded U-channel, high temperature silicone rubber gasket for weather tight operation.

Electrical: 2.1W LED luminaire on a 24V DC circuit. 4 total system watts. Remote electronic 24V DC driver required. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order. Pre-wired with ten (10) feet of 12 AWG wire and waterproof cable gland entry into housing.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: Machined #4 brushed stainless steel. Custom colors are not available.

Note: A foundation must be supplied by the customer. These luminaires are designed to bear pressure loads up to 4400 lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP68 10m

Weight: 3.1 lbs.

Luminaire Lumens: 74

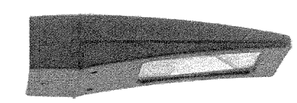
BEGALED-X4 IN-GRADE LUMINAIRE LIGHT

N.T.S.

Color: Bronze Weight: 6.5 lbs

ALED18Y POLE MOUNTED LUMINAIRE DETAIL

N.T.S.

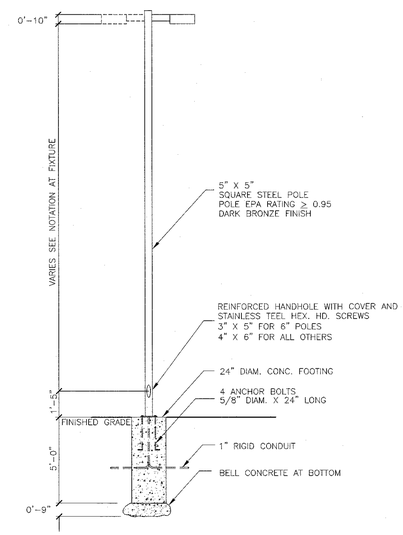


LED 10W & 13 Wall packs. patent-pending thermal management system. 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: Bronze Weight: 4.1 lbs

WPLED10Y WALL MOUNTED LUMINAIRE DETAIL

N.T.S.



PROPOSED POLE MOUNTED LUMINAIRE DETAIL

N.T.S.

NOTES:
SHOULD UNUSUAL OR UNSUITABLE SOIL CONDITIONS BE ENCOUNTERED THEN ENGINEERED FOUNDATION DESIGNS SHALL BE PERFORMED TO ENSURE ADEQUATE SUBSURFACE SUPPORT FOR THE LAMPS.

SEE POLE MANUFACTURER FOR FURTHER INFORMATION. MANUFACTURER INFORMATION SHALL SUPERCEDE THE INFORMATION SHOWN ABOVE.

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."
"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE DELAWARE – HUDSON LAND SURVEYORS ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS."

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STATE OF NEW YORK · RYAN A. NASHER · 089066

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK · JOHN R. ATZL · 50228

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

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200 E Market Street, Charlottesville, VA 22902
1200 16th Street NW Ste 700, Washington, DC 20036

PROJECT:

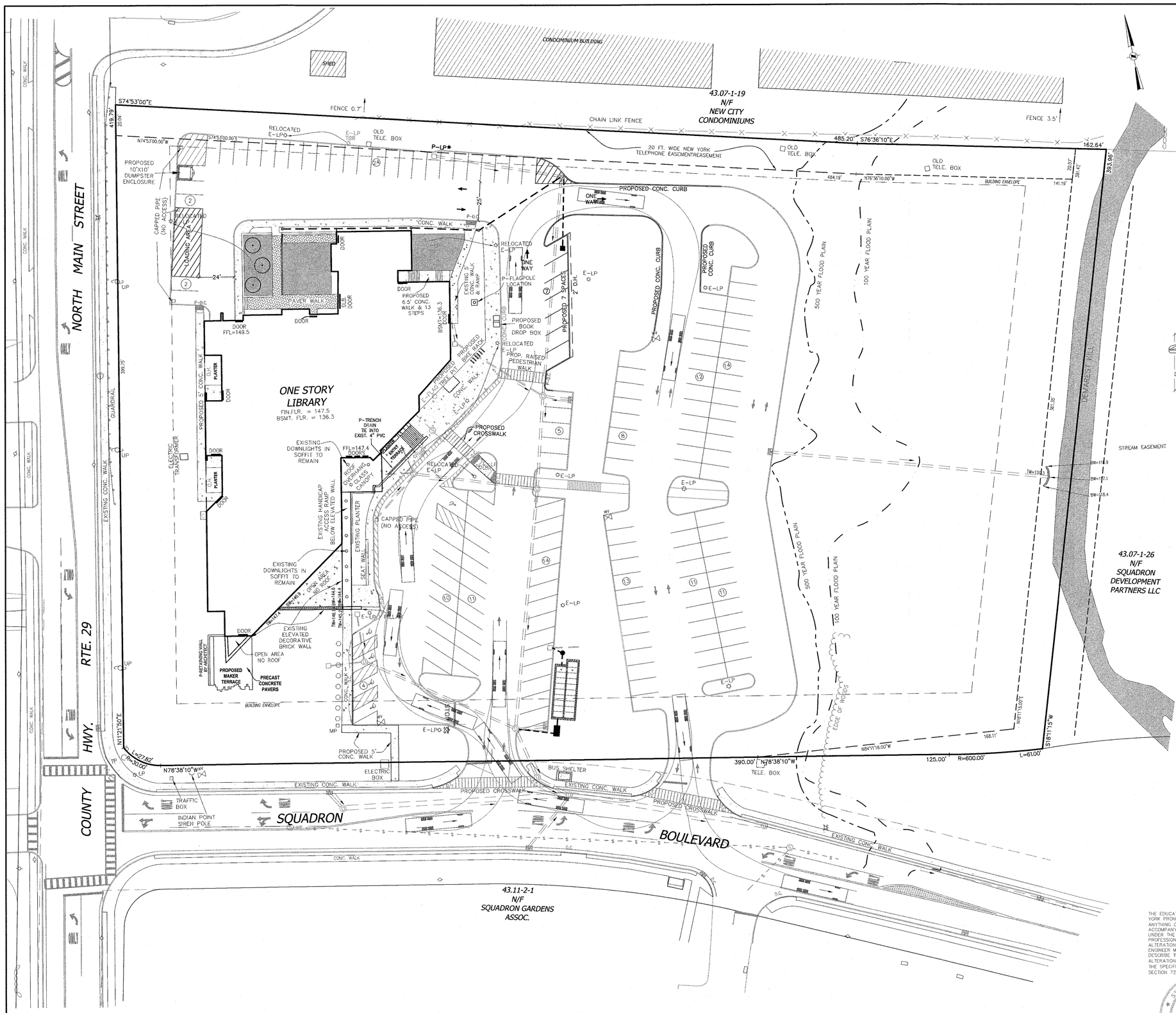
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

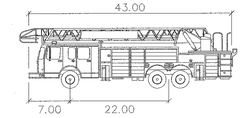
FINAL LIGHTING PLAN

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 8 of 9



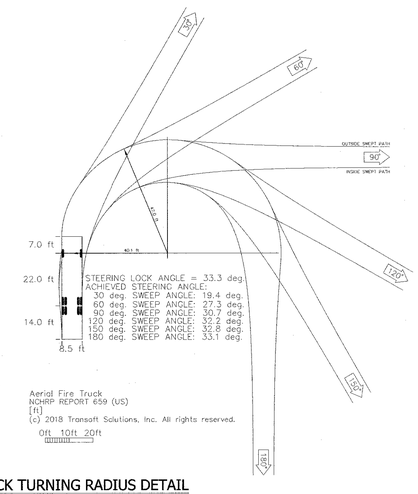
LEGEND

EXISTING 2' CONTOUR	PROPOSED 2' CONTOUR
EXISTING 10' CONTOUR	PROPOSED 10' CONTOUR
EXISTING WATER MAIN	PROPOSED WATERLINE
EXISTING FIRE HYDRANT	PROPOSED FIRE HYDRANT
EXISTING GAS LINE	PROPOSED GAS LINE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN
EXISTING CATCH BASIN GRATE	PROPOSED CONTROL STRUCTURE
EXISTING DRAINAGE MANHOLE	PROPOSED DRAINAGE MANHOLE
EXISTING STORM DRAIN LINE	PROPOSED STORM DRAIN LINE
EXISTING SEWER MANHOLE	PROPOSED PRE-TREATMENT
EXISTING SEWER LINE	PROPOSED SEWER LINE
EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING LIGHT POLE	PROPOSED LIGHT POLE
EXISTING WATER VALVE	PROPOSED WATER VALVE
EXISTING GAS VALVE	PROPOSED GAS VALVE
TO BE REMOVED / RELOCATED	PROPOSED STOP SIGN
EXISTING DROP CRUB	PROPOSED SILT FENCE
	PROPOSED WATERSHED
	PROPOSED DROP CRUB



Aerial Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 33.3



FIRE TRUCK TURNING RADIUS DETAIL

N.T.S.

REVISION	DATE	DESCRIPTION
3	01-14-22	PER PRELIMINARY APPROVAL 01-12-22
2	10-15-21	PER TAC 10-13-21
1	09-09-21	PER TAC 09-01-21

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STATE OF NEW YORK · RYAN A. NASHER · 089066 · LICENSED PROFESSIONAL ENGINEER

RYAN A. NASHER, P.E.
N.Y.S. P.E. LIC. NO. 89066

STATE OF NEW YORK · JOHN R. ATZL · 50228 · LICENSED PROFESSIONAL SURVEYOR

JOHN R. ATZL
N.Y.S. P.L.S. LIC. NO. 50228

PROJECT:

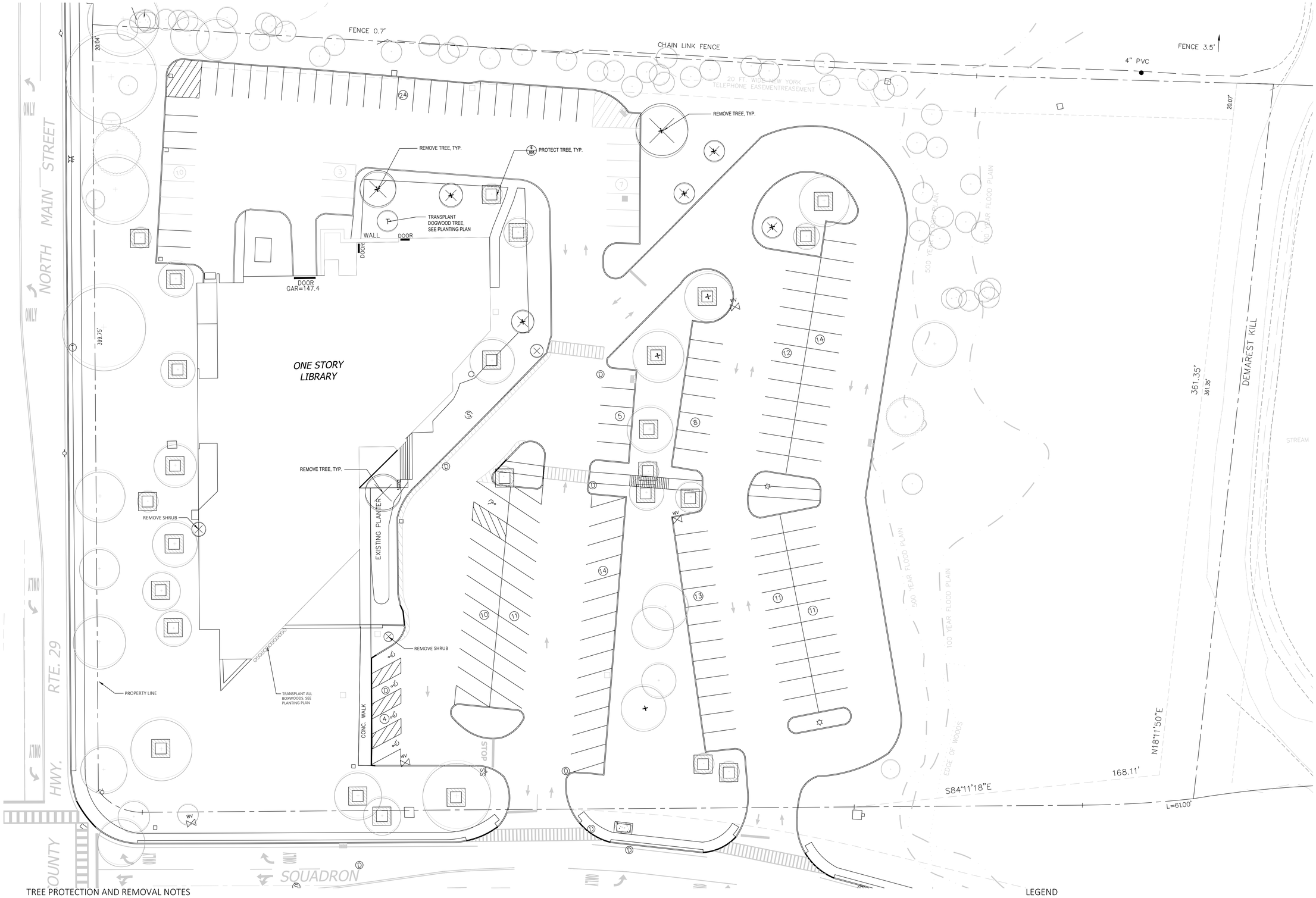
NEW CITY LIBRARY

TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

TITLE:

FINAL FIRE TRUCK TURNING PLAN (PHASE TWO)

DRAWN BY: MM	CHECKED BY: JRA
DATE: JULY 12, 2021	SCALE: 1 IN. = 30 FT.
PROJECT NO: 4661	DRAWING NO: 9 of 9



TREE PROTECTION AND REMOVAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING TREES NOT LISTED FOR REMOVAL THAT ARE LOCATED COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK ON OR IMPACTING EXISTING TREES, INCLUDING BUT NOT LIMITED TO TREE PROTECTION, PRUNING, TREE REMOVAL, EXCAVATION WITHIN TREE PROTECTION ZONES, DECOMPACTION, TOPSOIL, AND PLANTING
4. THE TREE PROTECTION ZONE (TPZ) ALSO CALLED THE CRITICAL ROOT ZONE (CRZ) SHALL BE DEFINED AS THE AREA WITHIN THE DRIP LINE OF EXISTING TREES, UNLESS OTHERWISE SHOWN ON THE TREE PROTECTION PLAN.
5. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE TPZ OF ANY TREE COMPLETELY OR PARTIALLY WITHIN THE CONTRACT LIMIT LINE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION.
6. IF STOCKPILING OCCURS WITHIN THE TPZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY, AND WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE TPZ AND MITIGATION MEASURES ARE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
7. TEMPORARY WOODEN TREE GUARDS WITH WRAP FOR INDIVIDUAL TREES, TEMPORARY WOODEN TREE GUARD FOR GROVES, AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED FOR THE DURATION OF THE CONTRACT AND ARE NOT TO BE REMOVED UNTIL DIRECTED BY THE ENGINEER OR LANDSCAPE ARCHITECT.
8. ALL TREES WITHIN THE CONTRACT LIMIT LINE ARE TO RECEIVE AT LEAST ONE (1) INCH (THE EQUIVALENT OF 750 GALLONS OF WATER PER 1,000 SQUARE FEET OF TREE PROTECTION ZONE) OF WATER PER WEEK BETWEEN THE MONTHS OF MARCH AND OCTOBER. IF RAINWATER IN ANY GIVEN WEEK IS BELOW THIS QUANTITY, THE CONTRACTOR MUST SUPPLEMENT THE AMOUNT RECEIVED BY UTILIZING SOAKER HOSES OR AS DIRECTED BY THE ENGINEER OR LANDSCAPE ARCHITECT. IF A WATER SOURCE IS UNAVAILABLE AT THE SITE THE CONTRACTOR IS TO PROVIDE IRRIGATION BAGS AND WATER TO APPLY THE REQUISITE WATER AMOUNT.
9. ALL TREE PRUNING AND TREE REMOVAL IS TO BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS BY AN ARBORIST HOLDING CERTIFICATION FROM THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR EQUIVALENT EDUCATION AND EXPERIENCE. ANSI PRUNING TYPES SPECIFIED ON TREE PROTECTION SCHEDULE AND TREE DIAMETERS AT BREAST HEIGHT ARE TO BE CONFIRMED BY THE ENGINEER OR LANDSCAPE ARCHITECT REPRESENTATIVE BEFORE PRUNING WORK IS PERFORMED.
10. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE DRIPLINE OF EXISTING TREES - LIFTING RATHER THAN DRAGGING PIECES OF PAVING. TOOLS FOR THIS ACTIVITY SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF EXCAVATION.
11. ALL EXCAVATION AND PLANT INSTALLATION WITHIN THE TPZ SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE ENGINEER OR LANDSCAPE ARCHITECT OR LANDSCAPE ARCHITECT. PLANTS SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE TREE TRUNK UNLESS APPROVED.
12. EXCAVATED AREAS WITHIN THE TPZ SHALL BE BACKFILLED IMMEDIATELY OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE. IF DIRECTED,SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE TPZ OTHER THAN THAT DURING THE IRRIGATION PROCESS.
13. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN 48-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST 6-INCHES MULCH AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED.
14. WHEN A TREE PROTECTION DEFICIENCY, AS DETERMINED BY THE ENGINEER OR LANDSCAPE ARCHITECT OR LANDSCAPE ARCHITECT, IS IDENTIFIED, IT MUST BE REMEDIED WITHIN 24-HOURS OF NOTIFICATION BY THE ENGINEER OR LANDSCAPE ARCHITECT OR LANDSCAPE ARCHITECT. FAILURE TO CORRECT THE DEFICIENCY WITHIN THIS TIMEFRAME WILL RESULT IN A STOP WORK ORDER.
15. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL MITIGATE SUCH DAMAGE AS DIRECTED BY THE ENGINEER OR LANDSCAPE ARCHITECT, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT AT THE CONTRACTORS EXPENSE.
16. THE CONTRACTOR SHALL BE ASSESSED RESTITUTION FOR TREES THAT IN THE OPINION OF THE LANDSCAPE ARCHITECT ARE INJURED, IRREPARABLY DAMAGED, DESTROYED, OR REMOVED WITHOUT AUTHORIZATION.

LEGEND

	EXISTING STORM MANHOLE
146	EXISTING CONTOUR
×145.6	EXISTING SPOT GRADE
152	PROPOSED CONTOUR
+148.0	PROPOSED SPOT GRADE
	EXISTING TREE
	EXISTING TREE OR SHRUB TO BE REMOVED
	PROPOSED TREE
	TRANSPLANTED TREE OR SHRUB
	GRAVEL DRIP EDGE
	TREE PROTECTION
	SOD IN PARK/HYDROSEED LAW
	PRECAST CONCRETE PAVERS
	CONCRETE
	DECOMPOSED GRANITE
	DECORATIVE BOUILDER
	OUTDOOR FURNITURE
	BIKE RACKS

GRAPHIC SCALE - 1" = 20'-0"

0 20' - 0" 40 - 0" 60' - 0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	SCHEMATIC DESIGN	03.05.2021
	DESIGN DEVELOPMENT	07.09.2021
	DESIGN DEVELOPMENT REVISION	09.09.2021
	DESIGN DEVELOPMENT REVISION	10.14.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

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Washington, DC 20036

YOST DESIGN
LANDSCAPE ARCHITECTURE
178 elizabeth st
pearl river, ny 10965
p 845.365.4595 | f 914.361.4473

New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT BLYTHE YOST 002369 STATE OF NEW YORK

Blythe M Yost, Registered Landscape Architect
NYS # 002369

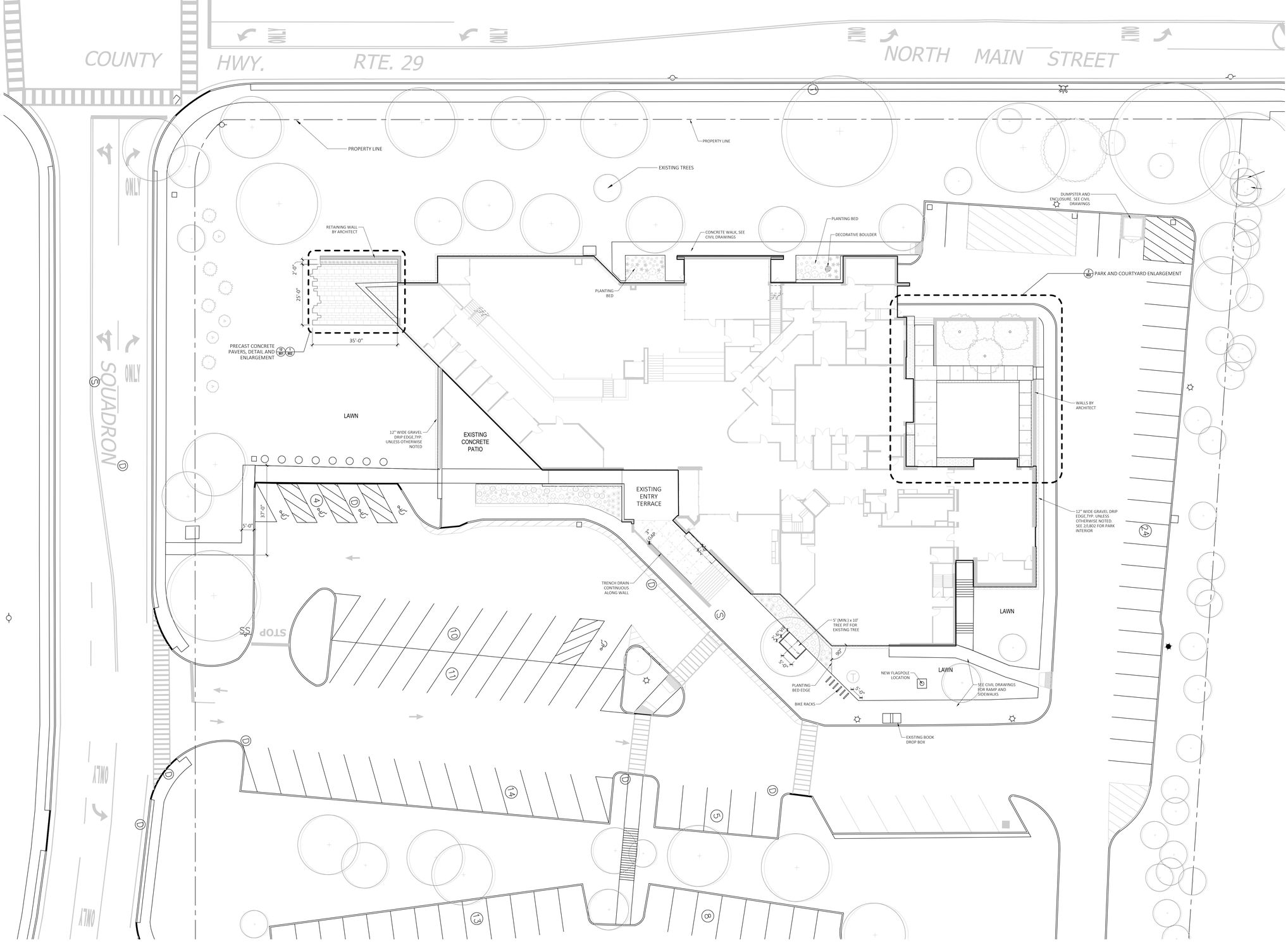
Checked By BMY
Drawn By EER

LANDSCAPE - TREE PROTECTION PLAN

L102

CONSTRUCTION DOCUMENTS

01.14.2022



VMDO
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1200 18th Street NW Ste 700
Washington, DC 20036

YOST DESIGN
LANDSCAPE ARCHITECTURE
178 elizabeth st
pearl river, ny 10965
p 845.365.4595 | f 914.361.4473

New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT BLYTHE MARY YOST 002389 STATE OF NEW YORK

Blythe M Yost, Registered Landscape Architect
NYS # 002389

Checked By BMY
Drawn By EER

GRAPHIC SCALE - 1/16" = 1'-0"
0 16' - 0" 32' - 0" 48' - 0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
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	DESIGN DEVELOPMENT	07.09.2021
	DESIGN DEVELOPMENT REVISION	09.09.2021
	DESIGN DEVELOPMENT REVISION	10.14.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

LAYOUT NOTES

1. CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES, IRRIGATION AND OTHER ELEMENTS AND COORDINATE WITH THE LANDSCAPE ARCHITECT PRIOR TO INITIATING OPERATIONS. DRAWINGS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING THESE DOCUMENTS.
2. CONTRACTOR SHALL FAMILIARIZE HERSELF / HIMSELF WITH EXISTING SITE CONDITIONS PRIOR TO INITIATING CONSTRUCTION. ALL EXISTING ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
3. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT IMMEDIATELY. FOLLOW THE LANDSCAPE ARCHITECT'S INSTRUCTIONS ON RESOLVING ANY DISCREPANCIES.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.1. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT FOR INSTRUCTION BEFORE PROCEEDING. DO NO MEASURE DRAWINGS.
5. ALL LANDSCAPE ELEMENTS TO BE LOCATED AS INDICATED ON PLAN OR AS FIELD ADJUSTED BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT TO VERIFY LAYOUT IN FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. WALKS, DRIVES, PARKING AND BUILDING LOCATIONS TO BE LAID OUT IN THE FIELD BY A LICENSED SURVEYOR. FINAL LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT.
7. ALL PAVEMENT JOINTS ARE TO BE PARALLEL, PERPENDICULAR OR TANGENT TO ADJACENT LINES UNLESS NOTED OTHERWISE. LAYOUT CURVILINEAR JOINTS AS INDICATED ON THE DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
8. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
9. ALL PAVEMENT SHALL BE STAKED IN THE FIELD USING LAYOUT GEOMETRY INDICATED ON THE SITE LAYOUT PLANS, PRIOR TO CONSTRUCTION ALIGNMENT MAY BE ADJUSTED TO ACCOMMODATE EXISTING DRAIN INLETS, MANHOLES, OR OTHER SITE ELEMENTS.
10. SEE GRADING PLAN L301 (IF APPLICABLE) FOR SPOT ELEVATIONS AT SITE FEATURES INCLUDING TOP AND BOTTOM OF SITE WALLS AND CORNERS OF PAVEMENTS.
11. THERE IS NO GUARANTEE THAT ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THE WORK AS SHOWN ON THE DRAWINGS.
12. CONTRACTORS ARE TO EXERCISE EXTREME CARE IN BACKFILLING AND COMPACTING AND EXCAVATING OR TRENCHING IN AREAS PREVIOUSLY COMPACTED.
13. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC SIGNS WHERE NECESSARY, CONSISTENT WITH ALL RELEVANT BUILDING CODES.
14. REFER TO PLANS FOR GENERAL LIMITS OF CONSTRUCTION, UNLESS OTHERWISE NOTED.

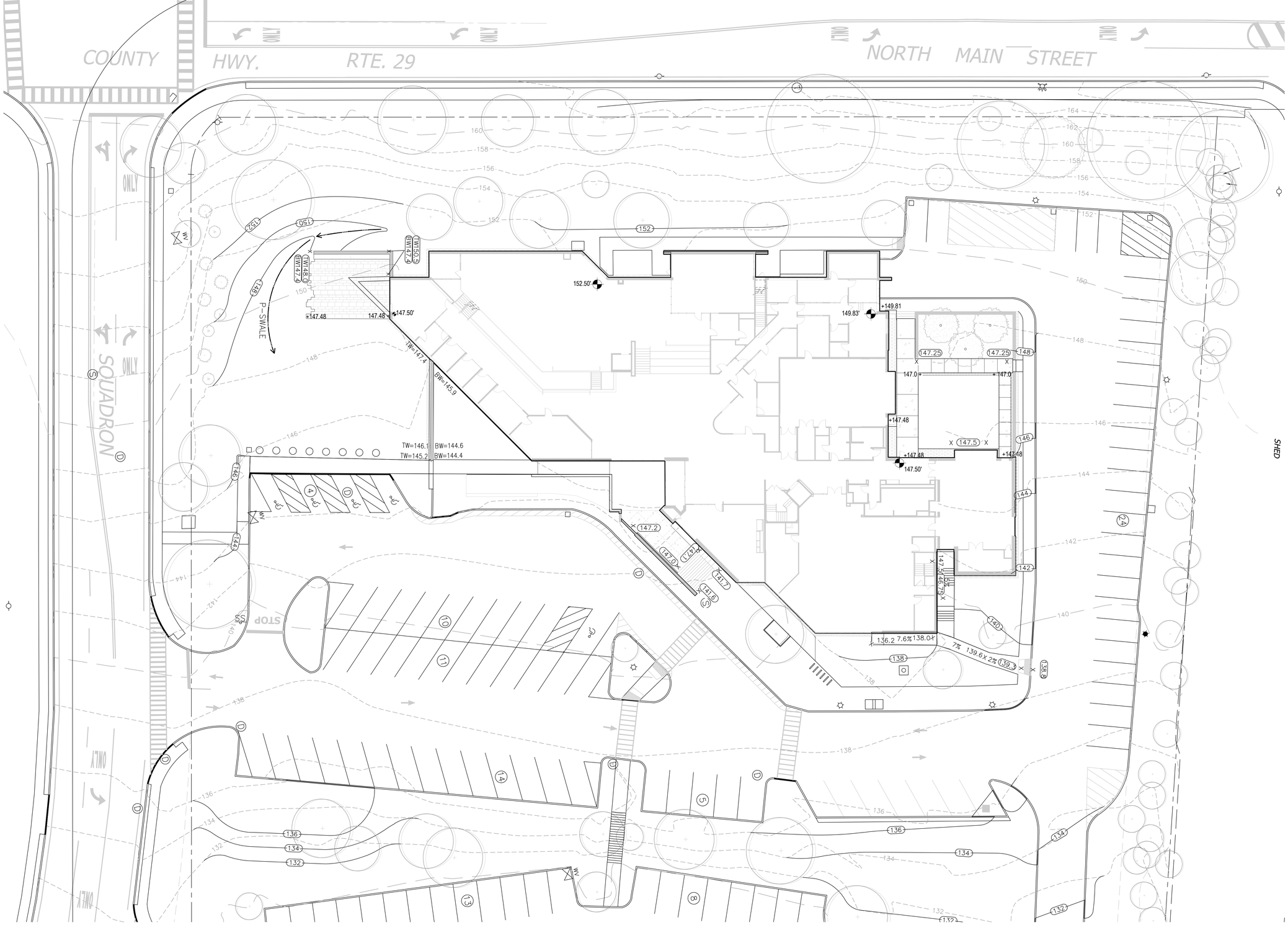
LEGEND

- EXISTING STORM MANHOLE
- 146 EXISTING CONTOUR
- ×145.6 EXISTING SPOT GRADE
- 152 PROPOSED CONTOUR
- +148.0 PROPOSED SPOT GRADE
- EXISTING TREE
- EXISTING TREE OR SHRUB TO BE REMOVED
- PROPOSED TREE
- TRANSPLANTED TREE OR SHRUB
- GRAVEL DRIP EDGE
- TREE PROTECTION
- SOD IN PARK/HYDROSEED LAW
- PRECAST CONCRETE PAVERS
- CONCRETE
- DECOMPOSED GRANITE
- DECORATIVE BOUILDER
- OUTDOOR FURNITURE
- BIKE RACKS

LANDSCAPE - LAYOUT

L102

CONSTRUCTION DOCUMENTS
01.14.2022



GRADING NOTES

1. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START AND SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. GRADING AROUND EXISTING TREES TO BE MINIMIZED.
4. MINIMIZE IMPACT TO EXISTING, REMAINING LANDSCAPE WHILE EXCAVATING. GREAT CARE IS TO BE TAKEN TO AVOID DISTURBING ROOTS OF EXISTING TREES. HAND EXCAVATION AND/OR EXCAVATION WITH AN AIR SPADE WILL BE REQUIRED WHERE EXISTING TREE ROOTS ARE PRESENT.
5. ALL EXISTING UTILITY COVERS AND GRATES WITHIN THE AREA OF DISTURBANCE ARE TO BE ADJUSTED TO MEET PROPOSED GRADES.
6. THE CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED AS PART OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT.
7. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE.
8. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIAL GENERATED BY GRADING OPERATIONS.
9. KEEP WORK SPRINKLED TO PREVENT DUST. PROVIDE, ERECT AND MAINTAIN BARRICADES TO PROTECT THE GENERAL PUBLIC, WORKERS, AND ADJOINING PROPERTY.
10. SLOPE TRANSITION TO BE SMOOTH AND EVEN WITH NO ABRUPT CHANGES IN GRADE. SLOPE ALL SOILS AWAY FROM BUILDING AT MINIMUM OF 2%.
11. ALL GRAVEL, BROKEN GLASS, ASPHALT, WOOD AND CONCRETE CHUNKS SHALL BE REMOVED FROM PLANTING AREAS DURING FINE GRADING PROCEDURES.
12. FINE GRADING PROCEDURES SHALL INCLUDE EVENING OF GRADE AROUND ANY EXISTING UTILITY BOXES AND GRATES.
13. THE CONTRACTOR SHALL PLACE AMENDED ON-SITE STOCKPILED OR IMPORTED TOPSOIL TO ACHIEVE THE FINISH GRADES SHOWN ON THE GRADING AND DRAINAGE PLAN TO WITHIN THE TWO TENTHS OF A FOOT. THE CONTRACTOR IS RESPONSIBLE TO CALCULATE FILL SETTLEMENT.
14. THE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND POSITIVE SURFACE DRAINAGE IN ALL LANDSCAPED AREA.

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New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT BLYTHE YOST 002369 STATE OF NEW YORK

Blythe M Yost, Registered Landscape Architect
NYS # 002369

Checked By BMY
Drawn By EER

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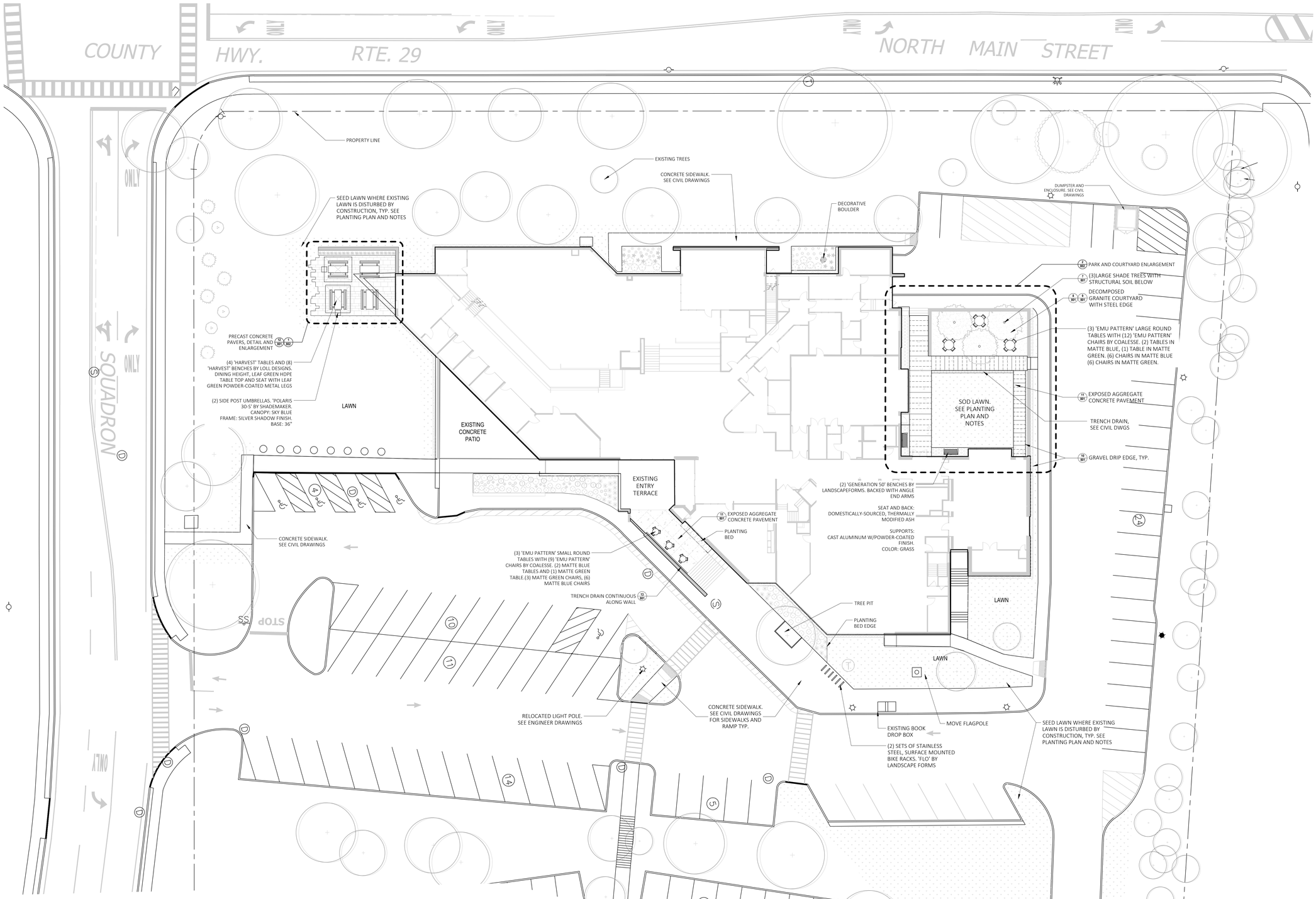
LANDSCAPE - GRADING

L301

CONSTRUCTION DOCUMENTS
01.14.2022



MATERIALS NOTES

1. CONTRACTOR SHALL SUBMIT SAMPLES OF EACH PAVING TYPE, STONE, AND A PHOTO OF THE DECORATIVE BOULDER FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION ACCORDING TO THE SPECIFICATIONS/DETAILS.
2. MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/ OR OTHER MEASURES) DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS TO THE WATER BODIES, EXISTING PARKING LOTS, ETC. ACCORDING TO ALL APPLICABLE FEDERAL/ STATE LAW AND REGULATION.
3. SEE ENGINEERS PLANS AND DETAILS FOR CONCRETE EXPANSION JOINTS AND CONTROL JOINTS (IF APPLICABLE)
4. REFER TO GRADING PLANS FOR PAVEMENT ELEVATIONS. MATCH GRADES WITH EXISTING CONDITIONS. MAKE SURE THAT ABUTTING PAVEMENT SURFACES ARE FLUSH WITHIN 1/8" TOLERANCES. ALL HARDSCAPE SURFACES SHALL HAVE A CROSS SLOPE NO GREATER THAN 2% UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL/ PROTECTION BY LOCALLY APPROVED MEANS AND MAINTAINING EROSION CONTROLS ALREADY IN PLACE. CONTRACTOR SHALL ADHERE TO ALL GOVERNING CODES AND REQUIREMENTS.
6. CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY, RUBBISH AND DEBRIS SHALL BE COLLECTED AND LEGALLY DEPOSITED OFF SITE DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY LANDSCAPE ARCHITECT.
7. THE CONTRACTOR, PRIOR TO BEGINNING ANY UNDERGROUND EXCAVATION, BORING, PILE DRIVING, BLASTING OR PLANTING MUST FIRST OBTAIN AN EXCAVATION PERMIT FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR MUST CALL THE APPROPRIATE AGENCIES AT LEAST 72 HOURS PRIOR TO PLANNED EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH STATE AND LOCAL LAWS AND REGULATIONS REGARDING NOTIFICATION OF EXISTING GAS AND OIL PIPELINES. EVIDENCE OF SUCH NOTICE SHALL BE FURNISHED TO THE CONTRACTOR PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE FULLY WITH THE LANDSCAPE ARCHITECT FOR ALL EXCAVATION PERMITS AND NOTIFICATION NECESSARY PRIOR TO INITIATING ALL WORK.
8. CONTRACTOR TO COORDINATE HER / HIS WORK WITH THE WORK OF THE OTHER CONTRACTORS WORKING ON THIS PROJECT. THE CONTRACTOR SHALL VERIFY THE CONDITION AND COMPLETENESS OF ALL WORK PERFORMED BY OTHERS IN RELATION TO HER / HIS PROJECT WORK RESPONSIBILITIES INCLUDING THE CHECKING OF EXISTING ELEVATIONS OR STRUCTURES PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT IF ANY OF THESE SITE CONDITIONS ARE INCOMPLETE, MISSING OR DAMAGED. ANY ADJUSTMENTS REQUIRED TO THE CONDITION, COMPLETENESS AND/ OR ELEVATION OF HER/ HIS WORK SHALL BE PERFORMED BY OTHERS.
9. ALL PAVEMENT SURFACES SHALL BE CONSTRUCTED TO POSITIVELY DRAIN AWAY FROM VERTICAL ELEMENTS SUCH AS BUILDINGS, WALLS, COLUMNS, ETC. TOWARD AND INTO DRAINAGE STRUCTURES SHOWN ON THE DRAWINGS. WALKWAYS LOCATED WITH EXISTING TREE AREAS SHALL BE LOCATED IN THE FIELD TO MINIMIZE DISTURBANCE OF EXISTING TREES.
10. ALL HARDSCAPE ANGLES ARE 45 DEGREES OR 90 DEGREES UNLESS OTHERWISE NOTED.
11. WALLS, FENCES, RAMPS, STAIRS,WALKS AND TRELLISES ARE TO BE STAKED IN THE FIELD AND FINAL LOCATION IS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
12. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS AND SITE LAYOUT AND GRADING. REFER TO DRAWINGS FOR OVERALL SITE LAYOUT AND GRADING.
13. WRITTEN DIMENSIONS WILL PREVAIL ON THIS PLAN. DO NOT SCALE FROM THESE PLANS.
14. ALL STRUCTURAL ELEMENTS IN THIS DRAWING PACKAGE INCLUDING, BUT NOT LIMITED TO, FOOTINGS, WALLS, COLUMNS, FOUNTAINS, SHALL BE REVIEWED AND VERIFIED OR ADJUSTED IN FIELD BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION OF SUCH ITEMS.
15. CONTRACTOR IS TO PROVIDE SHOP DRAWINGS AND FIELD MOCKUPS TO THE LANDSCAPE ARCHITECT FOR FINAL REVIEW AND APPROVAL PRIOR TO CONSTRUCTION FOR THE FOLLOWING ITEMS: ALL PAVING TYPES, ALL ELEMENT TYPES IN THE SITE FURNISHINGS SCHEDULE,. MOCKUPS WILL BE SET UP IN A SECURED PORTION OF THE SITE FOR REFERENCE THROUGHOUT CONSTRUCTION AND REMAIN UNTIL PROJECT SITE CONSTRUCTION COMPLETION.

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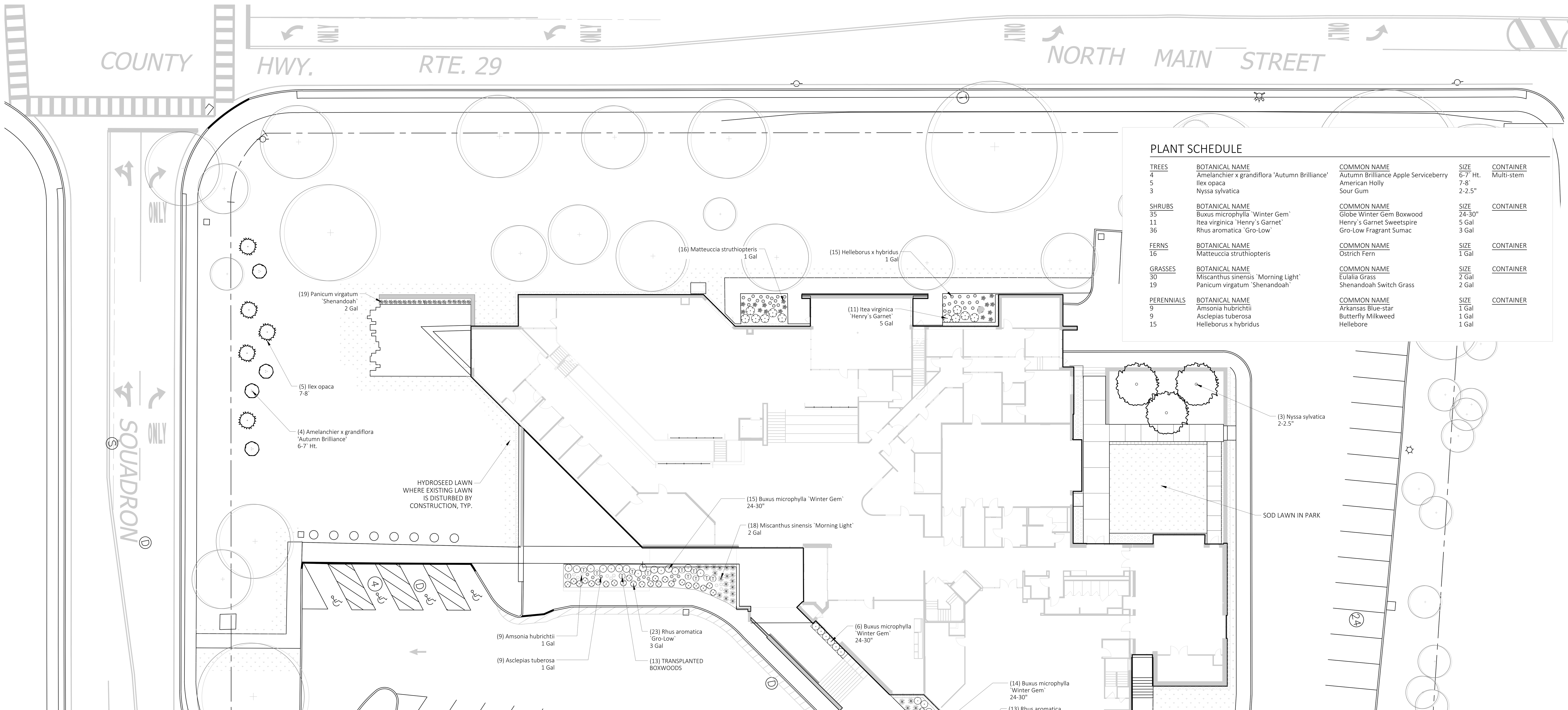
LANDSCAPE - MATERIALS

L401

CONSTRUCTION DOCUMENTS
01.14.2022



PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Apple Serviceberry	6-7` Ht.	Multi-stem
5	Ilex opaca	American Holly	7-8`	
3	Nyssa sylvatica	Sour Gum	2-2.5"	
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
35	Buxus microphylla `Winter Gem`	Globe Winter Gem Boxwood	24-30"	
11	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	5 Gal	
36	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	3 Gal	
FERNS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
16	Matteuccia struthiopteris	Ostrich Fern	1 Gal	
GRASSES	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
30	Miscanthus sinensis `Morning Light`	Eulalia Grass	2 Gal	
19	Panicum virgatum `Shenandoah`	Shenandoah Switch Grass	2 Gal	
PERENNIALS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
9	Amsonia hubrichtii	Arkansas Blue-star	1 Gal	
9	Asclepias tuberosa	Butterfly Milkweed	1 Gal	
15	Helleborus x hybridus	Hellebore	1 Gal	

PLANTING NOTES

PLANTING BED AND LAWN PREPARATION

1. PREPARE SOIL IN ALL AREAS IDENTIFIED ON PLANS AS PROPOSED PLANTING BEDS OR LAWN (SOD), OR AS DIRECTED BY LANDSCAPE ARCHITECT. PROTECT STRUCTURES, UTILITIES, PAVEMENTS, AND OTHER FACILITIES AND EXISTING PLANTS TO REMAIN FROM DAMAGE CAUSED BY PREPARATION OPERATIONS.
2. VEGETATION REMOVALS AND TILLING BY POWERED MECHANICAL EQUIPMENT (ROTO-TILLER OR SIMILAR) IS ALLOWED ONLY WITH OWNER'S PERMISSION AND WILL ONLY BE CONSIDERED IN AREAS OUTSIDE DRIP LINES OF EXISTING TREES.
3. CUT WOODY MATERIALS FLUSH TO THE GROUND IN AREAS TO BE PREPARED, GRUB AND COMPLETELY REMOVE BELOW-GRADE ROOT MASS. DO NOT GRUB OR TILL IF SURFACE SOIL IS EXCESSIVELY WET.
4. FOR PROPOSED PLANTINGS WITHIN EXISTING WOODY OR HERBACEOUS PLANT AREAS, GRUB OUT EXISTING GROUND VEGETATION, UNLESS OTHERWISE INDICATED BY LANDSCAPE ARCHITECT, TO ALLOW FOR PLANTING.
5. IN PROPOSED PLANTING BEDS OR LAWN (SOD) AREAS INDICATED ON PLANS, REMOVE EXISTING LAWN, GROUNDCOVERS, WOODY AND HERBACEOUS VEGETATION AS DIRECTED BY LANDSCAPE ARCHITECT, INCLUDING ROOT MASSES, STICKS, FALLEN AND DEAD WOOD, RUBBISH AND EXTRANEOUS MATTER AND DUFF LAYER. SCARIFY ALL SUBGRADE SURFACES TO BE FILLED SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL. TILL SURFACE SOIL OF PREPARATION AREAS TO A TYPICAL MINIMUM DEPTH OF 6 INCHES, 12 INCHES AT HEAVILY COMPACTED AREAS. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, DEAD WOOD, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
6. IN PROPOSED PLANTING BEDS PLACE AND SPREAD COMPOST TO A MINIMUM DEPTH OF 2 INCHES. DO NOT SPREAD IF COMPOST OR SURFACE SOIL IS EXCESSIVELY WET. MIX THOROUGHLY BY HAND INTO SURFACE SOIL.
7. IN PROPOSED LAWN (SOD) AREAS, PLACE AND SPREAD TOPSOIL IN AREAS TO A DEPTH AS INDICATED ON PLANS, OR AS DIRECTED BY LANDSCAPE ARCHITECT TO ACHIEVE GRADES.
8. FINE GRADE PREPARED PLANTING AND LAWN (SOD) AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. BEFORE BEGINNING PLANT OR LAWN INSTALLATION IN PREPARED AREA, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PREPARED AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
9. DURING PREPARATION, KEEP ANY ADJACENT PAVING AND CONSTRUCTION CLEAN AND WORK AREA IN AN ORDERLY CONDITION. REMOVE SURPLUS SOIL AND WASTE MATERIAL INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, AND DEBRIS AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

PLANTING TREES, SHRUBS AND HERBACEOUS MATERIAL

10. PLANTS SHALL BE SET IN SHADE, PROTECT FROM DAMAGE, AND KEEP MOIST UNTIL INSTALLATION. DO NOT STORE PLANTS OVERNIGHT AT PROJECT SITE UNLESS AGREED TO WITH OWNER, AND ONLY IF PROPERLY SECURED.
11. PACK, TRANSPORT AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. TAKE ALL CUSTOMARY PRECAUTIONS IN PREPARING PLANTS FOR MOVING. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SKINNING, CRACKING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. DO NOT DROP PLANTS OR DAMAGE ROOT BALLS DURING DELIVERY OR PLANTING.
12. ALL PLANTS ARE TO BE LAID OUT AND APPROVED ON SITE WITH LANDSCAPE ARCHITECT AND SET IN THEIR FINAL LOCATIONS BEFORE PLANTING. MAKE MINOR ADJUSTMENTS AS NECESSARY.
13. AFTER INSTALLATION AND BEFORE COMPLETION OF WORK, REMOVE NURSERY TAGS, NURSERY STAKES, TIE TAPE, LABELS, WIRE, BURLAP, ROPE, AND OTHER DEBRIS FROM PLANT MATERIAL, PLANTING AREAS, AND PROJECT SITE AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. LEAVE WATERING BAGS IN PLACE AT COMPLETION OF WORK, ONLY AFTER VERIFYING THAT THEY ARE IN GOOD WORKING ORDER.
14. UNTIL COMPLETION OF WORK, MAINTAIN PLANTINGS BY WATERING (INCLUDING REFILLING AND MAINTAINING WATERING BAGS), WEEDING, MULCHING, RESETTING TO PROPER GRADES OR VERTICAL POSITION, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. FILL IN, AS NECESSARY, SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE SOIL AND MULCH MATERIALS DAMAGED OR LOST IN AREAS OF SUBSIDENCE.
15. THE USE OF MECHANICAL EQUIPMENT (ROTO-TILLERS, AUGERS, MECHANICAL SHOVELS, ETC.) FOR PLANT HOLE EXCAVATION SHALL NOT BE ALLOWED WITHIN DRIP LINES OF EXISTING TREES. USE OF ALL MECHANICAL EQUIPMENT FOR SUCH PURPOSE DURING THE PROJECT TO BE REVIEWED WITH AND APPROVED BY LANDSCAPE ARCHITECT.
16. WARRANTY: INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL DUE TO IMPROPER HANDLING, INSTALLATION, OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. REPLACEMENTS SHALL COMPLY WITH DRAWINGS AND SPECIFICATIONS, AND SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
17. DEATH, UNSATISFACTORY GROWTH, UNHEALTHY OR UNSIGHTLY CONDITION, EXCEPT FOR DEFECTS CAUSED BY OR RESULTING FROM POOR NURSERY STOCK CONDITIONS, ABUSE, LACK OF ADEQUATE MAINTENANCE AFTER SUBSTANTIAL COMPLETION, OR NEGLECT BY OWNER.
18. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
19. WARRANTY PERIODS FOR ALL PLANT MATERIAL: 24 MONTHS FROM DATE OF PROJECT SUBSTANTIAL COMPLETION AND FINAL INSPECTION BY LANDSCAPE ARCHITECT.
20. LANDSCAPE ARCHITECT SHALL INSPECT ALL PLANT MATERIAL PRIOR TO ACCEPTING MATERIAL. TRANSPORTATION OF PLANT MATERIAL TO PLANTING SITE BY INSTALLER SHALL CONSTITUTE ACCEPTANCE OF WARRANTY OBLIGATION FOR PLANT MATERIAL.

INDIVIDUAL TREE AND LARGE SHRUB PLANTING:

21. DO NOT INSTALL PLANTING STOCK IF ROOT BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
22. EXCAVATE A ROUND PLANTING HOLE 36" IN DIAMETER LARGER THAN THE ROOT BALL, WITH SIDES OF PIT WALLS SLOPED INWARD. DEPTH OF HOLE SHOULD ALLOW FOR 1/8 OF BALL TO BE PLANTED ABOVE FINISHED GRADE. AT ITS FINAL PLACEMENT, THE TREE OR SHRUB SHOULD REST ON UNDISTURBED OR COMPACTED EXISTING SOIL IN THE CENTER OF PIT. PRIOR TO INSTALLING PLANT, THE WALLS AND BOTTOM OF PLANTING HOLE SHALL BE SCARIFIED TO REMOVE ALL GLAZING, IF NECESSARY.
23. PLACE PLANT IN HOLE AND STABILIZE. BEFORE PLANTING, VERIFY THAT ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL ACCORDING TO ANSI Z60.1. IF ROOT FLARE IS NOT VISIBLE, PULL BACK BURLAP AT TOP OF ROOT BALL AND REMOVE SOIL IN A LEVEL MANNER FROM THE ROOT BALL TO WHERE THE TOP-MOST ROOT EMERGES FROM THE TRUNK. AFTER SOIL REMOVAL TO EXPOSE THE ROOT FLARE, VERIFY THAT ROOT BALL STILL MEETS SIZE REQUIREMENTS. REMOVE STEM GIRDLING ROOTS AND KINKED ROOTS. REMOVE INJURED ROOTS BY CUTTING CLEANLY; DO NOT BREAK. ADJUST ELEVATION OF TREE OR SHRUB TO ENSURE ROOT FLARE REMAINS ABOVE FINISHED GRADE.
24. CUT AND REMOVE ALL ROPE AROUND TREE AND SHRUB TRUNKS, AND REMOVE ROPE AND/OR WIRE BASKET OFF TOP 1/3 OF ROOT BALL. PULL BURLAP BACK TO EDGE OF ROOT BALL. REMOVE AS MUCH BURLAP, WOVEN PRODUCT AND TWINE AS POSSIBLE. ALL PLASTIC OR SYNTHETIC MATERIAL MUST BE REMOVED FROM ROOT BALL.
25. WHEN PLANTING ON SLOPES, SET THE PLANT SO THE ROOT FLARE ON THE UPHILL SIDE IS FLUSH WITH THE SURROUNDING SOIL ON THE SLOPE; THE EDGE OF THE ROOT BALL ON THE DOWNHILL SIDE WILL BE ABOVE THE SURROUNDING SOIL. APPLY ENOUGH SOIL TO COVER THE DOWNHILL SIDE OF THE ROOT BALL.
26. FOR CONTAINER MATERIAL, CAREFULLY REMOVE ROOT BALL FROM CONTAINER WITHOUT DAMAGING ROOT BALL OR PLANT; SCARIFY ROOT BALL AS NECESSARY TO SPREAD ROOTS. IF ROOT SYSTEMS ARE POT BOUND OR GIRDLING, CUT ROOT BALL CLEANLY WITH A SHARP UTENSIL AT FOUR LOCATIONS EQUALLY LOCATED AROUND THE ROOT MASS. TEASE AND SPREAD ROOTS OUTWARD.
27. BACKFILL PLANTING HOLE WITH SOIL MIXTURE AROUND ROOT BALL TO THE LEVEL OF PLANT ROOT FLARE.
28. FOR PLANTINGS PROPOSED WITHIN NEWLY PREPARED BEDS, BACKFILL IS TO BE MIXTURE OF PREPARED PLANTING BED SOIL AND SOIL EXCAVATED FROM PLANTING HOLE.
29. FOR PLANTINGS IN AREAS OUTSIDE OF PREPARED BEDS, BACKFILL IS TO BE MIXTURE OF 3 PARTS SOIL FROM EXCAVATED PLANTING HOLE AND 2 PARTS OWNER-SUPPLIED COMPOST.
30. THOROUGHLY WATER PLANT UNTIL BACKFILL AND ROOT BALL IS SATURATED AND ALL AIR POCKETS ARE REMOVED. IF SETTLING OF SOIL OCCURS DURING WATERING, BACKFILL LOW SPOTS AND WATER THOROUGHLY.
31. FORM 4" SOIL SAUCER ABOVE EXISTING GRADE, AROUND THE OUTER RIM OF PLANTING PIT. COMPACT SOIL SAUCER TO HOLD WATER.
32. REMOVE ALL TAGS, LABELS AND LOCK SEALS, ETC. FROM TREE.
33. TREES ARE NOT TO BE STAKED.
34. PROVIDE AND INSTALL SLOW-RELEASE WATERING BAGS FOR TREES AND LARGE SHRUBS 5 FEET IN HEIGHT OR ABOVE. FOR SINGLE LEADER TREES BRANCHED 25" MIN. ABOVE GROUND, INSTALL "TREEGATOR ORIGINAL" OR OWNER-APPROVED EQUAL. FOR MULTI-STEM AND LOWER-BRANCHED TREES AND LARGE SHRUBS, INSTALL "TREEGATOR JR. PRO" OR OWNER-APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS, FILL WITH WATER, AND KEEP REFILLED UNTIL SUBSTANTIAL COMPLETION.
35. SHRUB PLANTING IN PREPARED BED AREAS:
36. ALL BED PREPARATION SHALL BE DONE ACCORDING TO 3.0 PLANTING BED AND LAWN AREA PREPARATION PRIOR TO PLACING PLANTS.
37. SET OUT AND SPACE PLANTS AT LOCATIONS DIRECTED IN FIELD, STAKED, OR FLAGGED BY LANDSCAPE ARCHITECT.
38. EXCAVATE ROUND PLANTING HOLE FOR EACH SHRUB A MINIMUM 18" LARGER IN DIAMETER THAN ROOT BALL OR CONTAINER DIAMETER. DEPTH OF HOLE IS TO ALLOW FOR 1/8 OF ROOT BALL OR MASS TO BE PLACED ABOVE FINISHED GRADE OF SOIL. SHRUB SHALL REST ON UNDISTURBED OR COMPACTED SOIL IN THE CENTER OF THE HOLE. WALLS AND BOTTOM OF PLANTING HOLE ARE TO BE SCARIFIED TO REMOVE ALL GLAZING OF SOIL, IF NECESSARY.
39. REFER TO PLANTING NOTES #3 - #8, #10 AND #12 AS PER SECTION J: INDIVIDUAL TREE AND LARGE SHRUB PLANTING.
40. PERENNIALS AND GROUNDCOVER PLANTING:
41. ALL BED PREPARATION SHALL BE DONE ACCORDING TO 3.0 PLANTING BED AND LAWN AREA PREPARATION PRIOR TO PLACING PLANTS.
42. SET OUT AND SPACE PLANTS AT LOCATIONS DIRECTED IN FIELD, STAKED, OR FLAGGED BY LANDSCAPE ARCHITECT.
43. REMOVE PLANT FROM CONTAINER CAREFULLY TO AVOID DISTURBING ROOTS AND DISPLACING SOIL.
44. DIG HOLES TWICE THE DIAMETER OF ROOT MASS AND BACKFILL WITH EXISTING SOIL, WORKING SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS.
45. FOR ROOTED CUTTING PLANTS SUPPLIED IN FLATS, PLANT EACH IN A MANNER THAT MINIMALLY DISTURBS THE ROOT SYSTEM BUT TO A DEPTH NOT LESS THAN TWO NODES.
46. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER PLANT CROWNS WITH WET SOIL

MULCHING

47. BARK MULCH: PLACE AND SPREAD 2-INCH AVERAGE THICKNESS OF BARK MULCH OVER ENTIRE SURFACE OF PREPARED MULCH AREA OR PLANTING AREA (OR TO OUTER EDGE OF BACKFILLED PLANTING PIT EXCAVATIONS FOR STAND-ALONE TREES AND SHRUBS), AND FINISH LEVEL WITH ADJACENT FINISH GRADES. TAPER MULCH TO TRUNKS OR STEMS. DO NOT SPREAD MULCH IF SURFACE SOIL IS EXCESSIVELY WET.

LAWN (SOD) INSTALLATION

48. PREPARE AREAS TO BE SODDED AS INDICATED ON PLANS, AS DESCRIBED IN 2.0 GENERAL GRADING AND EARTHWORK, AND 3.0 PLANTING BED AND LAWN AREA PREPARATION.
49. BEFORE SODDING, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
50. GRASS SPECIES AS GROWN BY TUCKAHOE TURF FARMS, (800).556.6985, OR APPROVED EQUAL, FROM A CULTIVAR SELECTED FROM A NTEP EVALUATED FOR NEW YORK STATE.
51. FULL SUN: PROPORTIONED BY WEIGHT AND CULTIVARS AS FOLLOWS:1. (90) PERCENT TALL FESCUE (LOLIUM ARUNDINACEUM): A MINIMUM OF THREE CULTIVARS WITH A MEAN RATIO OF 5 OR GREATER.2. (10) PERCENT KENTUCKY BLUEGRASS (POA PRATENSIS): A MINIMUM OF TWO CULTIVARS WITH A MEAN RATIO OF 5 OR GREATER.
52. GROWN WITHOUT PLASTIC NETTING.
53. LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR EXCESSIVELY WET OR MUDDY.
54. APPLY STARTER FERTILIZER: APPLY AT RATE OF 20LBS. PER 110 SQ. YD. INTO TOP 1" OF THE SOIL BEFORE SODDING.
55. COMPACT SURFACE SOIL WITH APPROPRIATE WATER FILLED ROLLER TO 85 PERCENT MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
56. MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
57. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SOIL OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SOIL, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD.

LAWN (HYDROSEED) INSTALLATION

58. LAWN SEED SHALL BE SOWN DURING THE MONTHS OF MARCH, APRIL, MAY, SEPTEMBER, OR OCTOBER OR AS APPROVED BY LANDSCAPE ARCHITECT.
59. PRIOR TO SEEDING, THE AREA SHALL BE DISKED TO LOOSEN TOP SIX INCHES OF SOIL. THE DISKED AREA SHALL BE FINE TILLED AND FREE OF ROCKS, ROOTS, TOPGROWTH, OR DEBRIS OVER 2 INCHES IN GREATEST DIMENSION. DO NOT DAMAGE OR REMOVE ROOTS WITHIN TREE CRITICAL ROOT ZONES.
60. ALL SEEDING SHALL BE PERFORMED IN MODERATELY DRY TO MOIST SOIL CONDITIONS AT A TIME WHEN THE WIND VELOCITY DOES NOT EXCEED 5 MILES PER HOUR.

LAWN MAINTENANCE TO ESTABLISHMENT

61. UNTIL PROJECT COMPLETION, MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE LAWN. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION.
62. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
63. WATER LAWN WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE, TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
64. LAWN INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA AS DETERMINED BY LANDSCAPE ARCHITECT: SATISFACTORY SODDED LAWN: A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
65. USE SPECIFIED MATERIALS TO REESTABLISH LAWN THAT DOES NOT COMPLY WITH REQUIREMENTS, AND CONTINUE MAINTENANCE UNTIL LAWN IS SATISFACTORY.
66. OWNER TO ASSUME MAINTENANCE AFTER ACCEPTANCE OF SATISFACTORY ESTABLISHMENT.

PRODUCTS

A. TOPSOIL:
NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF SAND, SILT AND CLAY PARTICLES; PH RANGE OF 5.7-6.8; MINIMUM OF 4% AND MAXIMUM OF 8% ORGANIC MATTER CONTENT BY WEIGHT AS DETERMINED BY LOSS ON IGNITION; ELECTRICAL CONDUCTIVITY LESS THAN 3000 MICROMHOS/CM; UNIFORM IN QUALITY; FREE OF BOULDERS, BIOSOLIDS, CLODS, STIFF CLAYS, SOD, PLASTICS, SLAG, NOXIOUS WEEDS, OBJECTIONABLE SALTS, TOXIC CHEMICALS, PESTICIDES, CONSTRUCTION DEBRIS, AND ANY OTHER DELETERIOUS ELEMENTS WITH A TEXTURAL ANALYSIS OF:

MATERIAL	PARTICLE SIZE	RANGE
ROCKS & STONES	>6.30 MM	0%
GRAVEL*	6.30 - 3.00 MM	<10%
SAND**,***	2.00 - 0.05 MM	60 - 70%
SILT	0.05 - 0.002MM	12 - 31%
CLAY	< 0.002MM	9 - 18%

*AT LEAST 50% OF THE SAND FRACTION SHALL BE MEDIUM SAND OR COARSER IN ACCORDANCE WITH THE USDA PARTICLE SIZE STANDARDS. NO MORE THAN 1% OF THE SOIL MATERIAL CONTAINS EXPANDABLE CLAY MINERALS.
**TOTAL PERCENT OF SAND, SILT & CLAY IS TO BE DETERMINED ON THE MATERIAL PASSING A 2.00 MM SIEVE EXCLUDING GRAVEL.
***GRAVEL IS MEASURED AS A PERCENTAGE OF THE TOTAL SAMPLE, AS IS THE MATERIAL RETAINED ON THE 2.00MM SIEVE.

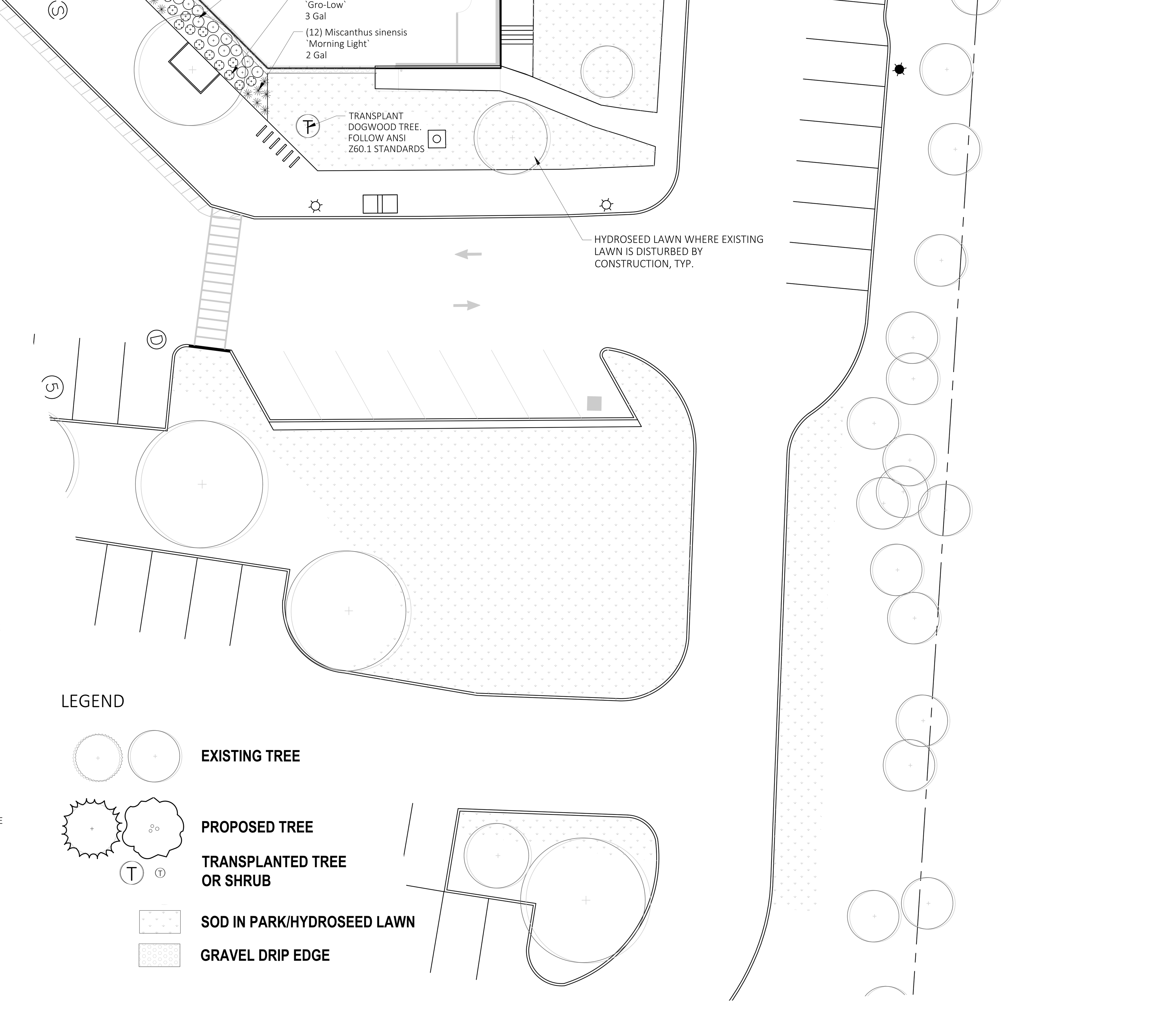
ACCEPTABLE NUTRIENT TEST RESULTS RANGES:

NITRATES	20 -60 PPM
POTASSIUM	8 - 30 PPM
PHOSPHATES	5 - 25 PPM
MAGNESIUM	10 - 30 PPM
AMMONIUM	2 - 10 PPM
CALCIUM	100 - 200 PPM

CONTRACTOR TO PROVIDE TEST RESULTS AND SAMPLES OF TOPSOIL FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
B. BARK MULCH: 100% DOUBLE SHREDDED AND HIGHLY COMPOSTED DARK, ROTTED HARDWOOD BARK, OF UNIFORM SIZE. FREE FROM ROT AND MOLD, WEEDS AND WEED SEEDS, LEAVES, TWIGS STONES AND OTHER DEBRIS. BARK TO BE DOUBLE SHREDDED, STOCKPILED AND COMPOSTED FOR NO LESS THAN 6 MONTHS, BE FREE OF SAPWOOD AND ANY SLABS OVER 1", WITH PH BETWEEN 6.0 AND 7.0. PROVIDE SAMPLE AND SOURCE TO LANDSCAPE ARCHITECT FOR APPROVAL.
C. BURLAP: NON-SYNTHETIC, BIODEGRADABLE.
D. WATERING DEVICES: "TREEGATOR ORIGINAL" AND "TREEGATOR JR. PRO" (AS MANUFACTURED BY SPECTRUM PRODUCTS 1-866-873-3428) OR OWNER-APPROVED EQUAL.
E. LAWN STARTER FERTILIZER: NATURE SAFE 5-6-6 STARTER FERTILIZER - FINE GRADE, MANUFACTURED BY GRIFFIN INDUSTRIES, INC. (800.252.4727) OR OWNER-APPROVED EQUAL.

B. REQUIRED PROJECT SUBMITTALS

A. TOPSOIL: SUPPLIER'S ANALYSIS AND SAMPLE IN A 2 QUART CONTAINER.
B. SOD: SPECIFICATION AND SUPPLIER.
C. HYDROSEED: SPECIFICATION AND SUPPLIER.
D. STARTER FERTILIZER: SPECIFICATION AND SUPPLIER.
E. BARK MULCH: ANALYSIS, AND SAMPLE IN A 2 QUART CONTAINER.
F. WATERING DEVICES: SPECIFICATION AND SUPPLIER.



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New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT · BLYTHE YOST · STATE OF NEW YORK · 002369
Blythe M Yost ASLA | Registered Landscape Architect
NYS # 002369

Checked By BMY
Drawn By EER

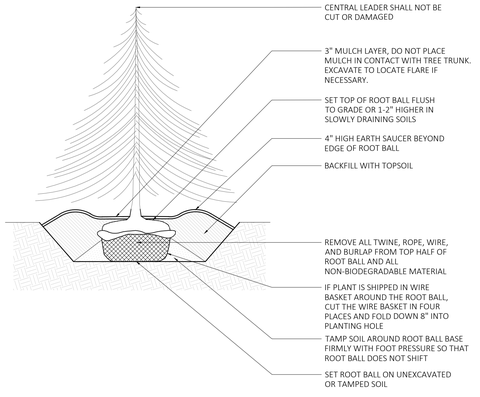
GRAPHIC SCALE - 1/16" = 1'-0"
0 16' - 0" 32' - 0" 48' - 0"

ISSUES AND REVISIONS

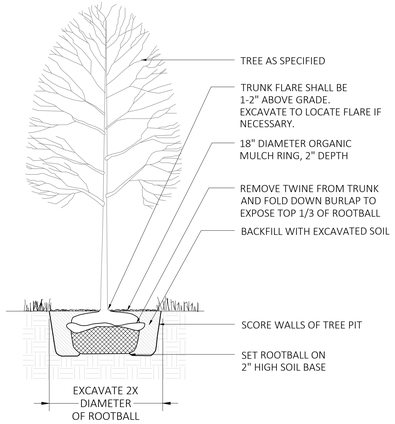
NO.	SUBMITTAL	DATE
	SCHEMATIC DESIGN	03.05.2021
	DESIGN DEVELOPMENT	07.09.2021
	DESIGN DEVELOPMENT REVISION	09.09.2021
	DESIGN DEVELOPMENT REVISION	10.14.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

LANDSCAPE - PLANTING

L701
CONSTRUCTION DOCUMENTS
01.14.2022



1 L-801 EVERGREEN TREE PLANTING
SCALE: 1/4"=1'



2 L-801 DECIDUOUS TREE PLANTING
SCALE: 1/4"=1'

NOTES:

1. SET TREE PLUMB.

2. DO NOT STAKE UNLESS DIRECTED TO DO SO BY LANDSCAPE ARCHITECT

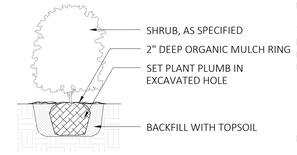
3. REMOVE COMPLETELY ANY NON-BIODEGRADABLE MATERIALS BINDING THE ROOTBALL.

4. REMOVE WIRE BASKET COMPLETELY IF ROOTBALL WILL BARE. OTHERWISE, CLIP AND PEEL BACK WIRE BASKET AT LEAST ONE THIRD OF THE WAY FROM THE TOP OF THE ROOTBALL.

5. SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING AND WATER AS NECESSARY UNTIL IRRIGATION IS INSTALLED.

6. DO NOT ADD ANY SOIL AMENDMENTS OTHER THAN COMPOST UNLESS DIRECTED TO BY LANDSCAPE ARCHITECT.

7. DO NOT ADD ANY SOIL OR MULCH AGAINST TRUNK OF TREE. IF ROOT FLARE IS NOT EXPOSED, REMOVE SOIL AND EXPOSE.



3 L-801 SHRUB PLANTING
SCALE: 1/2"=1'

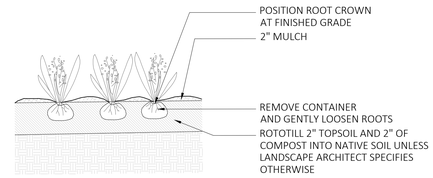
NOTES:

1. FOR B & B PLANT MATERIAL, REMOVE ALL TWINE AND ROLL BACK BURLAP FROM TOP 1/2 OF BALL. IF ANY MATERIALS USED TO BIND THE ROOTBALL ARE NON-BIODEGRADEABLE, REMOVE COMPLETELY INCLUDING WIRE BASKET.

2. FOR CONTAINER GROWN PLANT MATERIAL, REMOVE CONTAINER. TO HELP PREVENT LOOSENING OF SOIL AND SCARIFY BALL TO HELP PREVENT GIRDLING ROOTS.

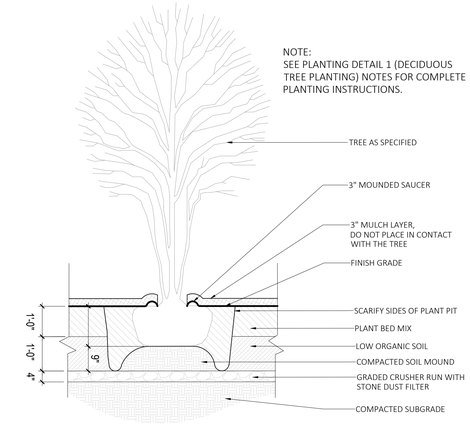
3. SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING, AND WATER AS NECESSARY UNTIL IRRIGATION INSTALLED.

4. NO MULCH OR SOIL SHOULD BE PLACED AGAINST THE PLANT'S TRUNK.

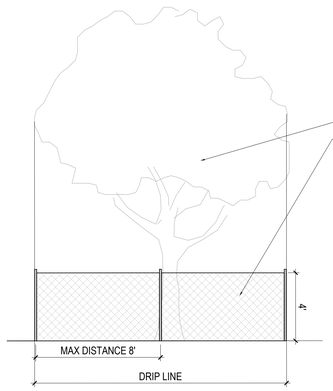


4 L-801 PERENNIAL PLANTING
SCALE:1/2"=1'

NOTE:
SEE PLANTING DETAIL 1 (DECIDUOUS TREE PLANTING) NOTES FOR COMPLETE PLANTING INSTRUCTIONS.



5 L-801 MULTISTEM TREE PLANTING
SCALE: 1/2"=1'



NOTES:

1. ORANGE BARRIER FENCING SHALL BE USED TO PROTECT ALL EXISTING TREES AND ROOT ZONES.

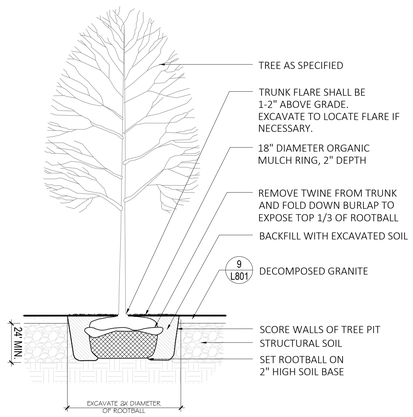
2. FENCING SHALL CREATE A ZONE OF PROTECTION WITH A MINIMUM RADIUS OF 1' FROM TREE TRUNK FOR EVERY 1" OF OF TRUNK DIAMETER (I.E. 12"DBH TREE=12' RADIUS ROOT ZONE PROTECTION)

3. NO CONSTRUCTION MATERIALS OR DEBRIS SHALL BE STORED INSIDE OF THE FENCING.

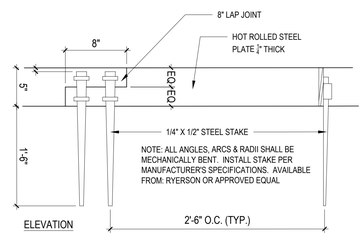
4. THE FENCING SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, AND SHALL BE REMOVED WHEN CONTRUCTION IS COMPLETE.

5. THE OWNER SHALL BE INFORMED IMMEDIATELY OF ANY DAMAGE TO EXISTING TREES TO BE PRESERVED, INCLUDING BARK AND BRANCH DAMAGE.

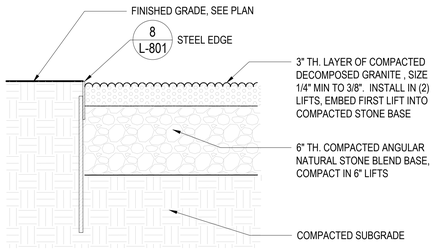
6 L-801 TREE PROTECTION
SCALE: 1/4"=1'



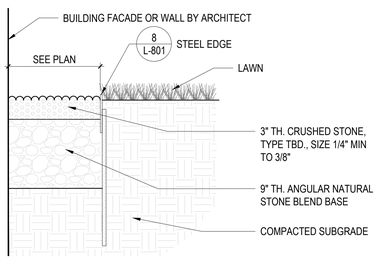
7 L-801 STRUCTURAL SOIL
SCALE: 1/4"=1'



8 L-801 STEEL EDGE
SCALE: 1-1/2"=1'-0"

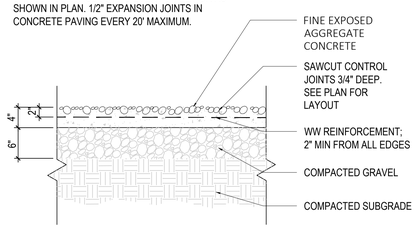


9 L-801 DECOMPOSED GRANITE
SCALE: 1-1/2"=1'-0"

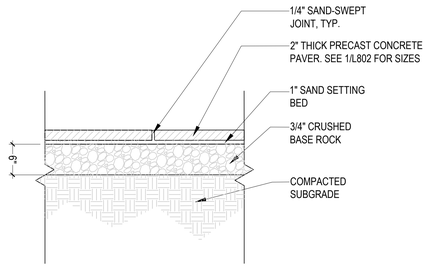


10 L-801 GRAVEL DRIP EDGE AT LAWN
SCALE: 1-1/2"=1'-0"

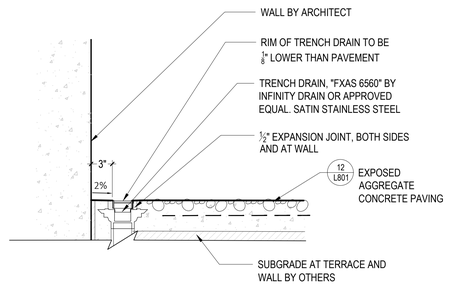
NOTE:
SAWCUT CONTROL JOINTS EVERY 5' FEET OR AS SHOWN IN PLAN. 1/2" EXPANSION JOINTS IN CONCRETE PAVING EVERY 20' MAXIMUM.



11 L-801 PARK WALKWAY - EXPOSED AGGREGATE CONCRETE CAST-IN-PLACE
SCALE1"=1'



12 L-801 PRECAST CONCRETE PAVERS ON STABILIZED AGGREGATE
SCALE: 1"=1'



13 L-801 TRENCH DRAIN AT TERRACE WALL
SCALE: 1"=1'

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New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT BLYTHE MARIE YOST 002369 STATE OF NEW YORK

Blythe M Yost, Registered Landscape Architect
NYS # 002369

Checked By BMY
Drawn By EER

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	SCHEMATIC DESIGN	03.05.2021
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2021

LANDSCAPE - DETAILS

L801

CONSTRUCTION DOCUMENTS
01.14.2022

NOTES:

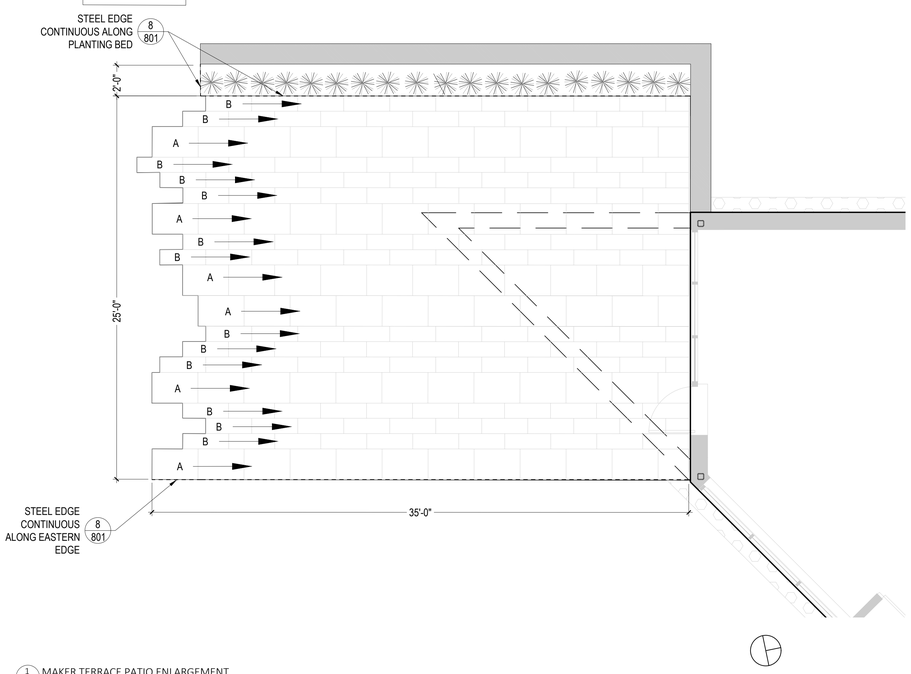
1. CAST STONE PAVERS SHALL BE LAID IN A STAGGERED RUNNING BOND PATTERN, LAYING LINES OF 12" x 36" PAVERS AND LINES OF 24" x 36" PAVERS IN THE REPEATING PATTERN SHOWN BELOW.

2. CAST STONE PAVERS SHALL BE MANUFACTURED BY ARCHITECTURAL STONE LLC. OR APPROVED EQUAL

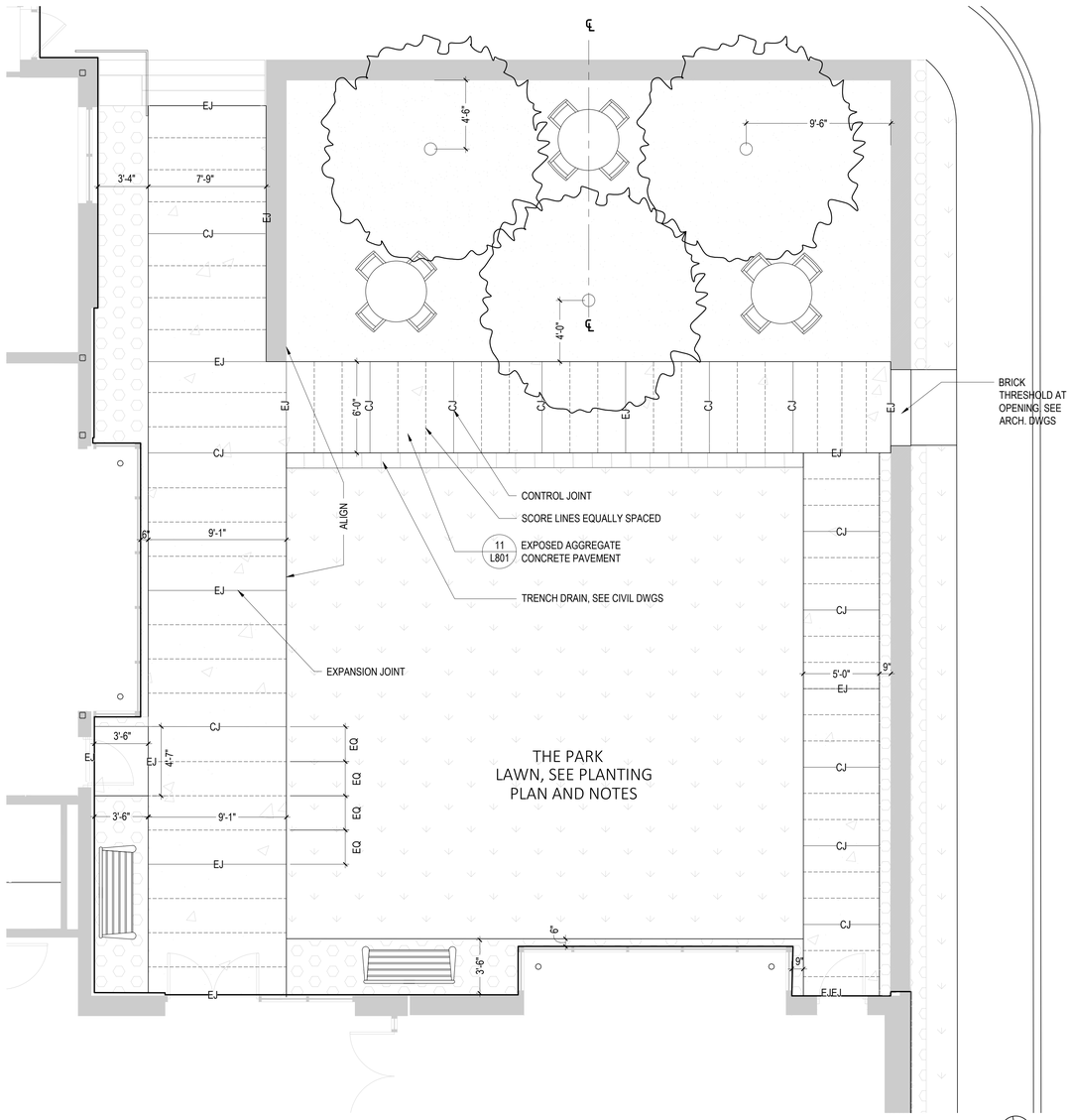
3. SEE 12 / L801 FOR DETAIL

PAVER SIZES

"A" PAVER= 24" x 36"
"B" PAVER= 12" x 36"



1 / L-802 MAKER TERRACE PATIO ENLARGEMENT
SCALE: 1/4"=1'



2 / L-802 PARK AND COURTYARD ENLARGEMENT
SCALE: 1/4"=1'

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New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number 1301

REGISTERED LANDSCAPE ARCHITECT BLYTHE YOST 002389 STATE OF NEW YORK

Blythe M Yost, Registered Landscape Architect
NYS # 002389

Checked By BMY
Drawn By EER

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	SCHEMATIC DESIGN	03.05.2021
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2021

LANDSCAPE - DETAILS

L802

CONSTRUCTION DOCUMENTS
01.14.2022

GENERAL NOTES

1. BUILDING CODE:
   A. THESE PLANS HAVE BEEN PREAPRED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, AND THE 2020 EXISTING BUILDING CODE OF NEW YORK STATE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE, ITS LATEST ADOPTED AMENDMENTS, AND LOCAL REQUIREMENTS.
      a. AMERICAN INSTITUTE OF CIVIL ENGINEERS "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" ASCE 7-16
      b. AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318-14
      c. AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360-16
      d. AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530-14

2. SUBMITTALS:
   A. THE FOLLOWING ITEMS REQUIRE SUBMITTAL OF SHOP AND ERECTION DRAWINGS FOR REVIEW AND APPROVAL:
      a. REINFORCING STEEL FOR CAST-IN-PLACE CONCRETE
      b. STRUCTURAL STEEL
      c. STEEL DECKING AND STUD LAYOUT
      d. COMPOSITE DRAWING OF ALL SLAB PENETRATIONS
      e. CONCRETE CONSTRUCTION AND CONTRACTION JOINTS
      f. SLAB ON GRADE JOINT LAYOUTS
   B. THE FOLLOWING ITEMS REQUIRE SUBMITTAL OF SHOP AND ERECTION DRAWINGS AND STRUCTURAL CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THIS PROJECT FOR REVIEW AND APPROVAL:
      a. EXTERIOR CURTAINWALLS, COLD-FORMED STEEL FRAMING, AND STOREFRONTS.
      b. EXCAVATION SUPPORT, SHEETING, OR BENCHING WHERE SOILS REQUIRE SUCH BY VIRTUE OF OSHA REQUIREMENTS (ALL EXCAVATIONS GREATER THAN 5-FT REQUIRE SPECIFIC TRENCHING CONSIDERATIONS) OR SOIL CONDITIONS.
      c. STRUCTURAL STEEL CONNECTIONS
      d. STEEL RAILINGS, STAIRS, AND MISC. METALS
      e. CONCRETE MIX DESIGNS
   C. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A SUBMITTAL SCHEDULE A MINIMUM OF 15 BUSINESS DAYS PRIOR TO THE ISSUANCE OF THE FIRST SUBMITTAL PACKAGE FOR REVIEW AND APPROVAL.
   D. THE CONTRACTOR SHALL ALLOW FOR A MINIMUM REVIEW TIME OF 10 BUSINESS DAYS ON AVERAGE BY THE ENGINEER OF RECORD PLUS ANY ADDITIONAL TIME REQUIRED BY OTHER DESIGN PROFESSIONALS. SUBMITTAL PACKAGES SHALL BE BROKEN UP AND SCHEDULED SUCH THAT THE RATE OF REVIEW EXPECTED OF THE STRUCTURAL ENGINEER DOES NOT EXCEED THE FOLLOWING:
      a. STRUCTURAL STEEL: 80 SHEETS / WEEK (1 PC / SHEET)
      b. CONCRETE REINFORCEMENT: 20 SHEETS / WEEK
   E. SUBMITTALS ISSUED TO THE DESIGN TEAM FOR REVIEW SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL CERTIFYING THAT ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIAL, ETC. HAVE BEEN VERIFIED AND EACH SHEET HAS BEEN REVIEWED FOR COMPLETENESS, COORDINATION BETWEEN TRADES, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. FURTHER, STRUCTURAL SHOP DRAWINGS WILL ONLY BE REVIEWED ONCE ANY REQUIRED CALCULATION PACKAGES FOR THE ASSOCIATED WORK HAVE BEEN ISSUED ALONG WITH A SIGNED AND SEALED LETTER BY THE CONTRACTOR'S ENGINEER CERTIFYING THAT THE SHOP DRAWINGS HAVE PROPERLY INCORPORATED THEIR DESIGN, IN ACCORDACNE WITH THE 2010 AISC CODE OF STANDARD PRACTICE SECTION 3.1.2 (OPTION 3), OTHERWISE THE SUBMITTAL PACKAGE WILL BE REJECTED.

3. SPECIAL INSPECTIONS:
   A. AS PER IBC CHAPTER 17, THE FOLLOWING ITEMS ARE SUBJECT TO SPECIAL INSPECTION BY AN INDEPENDENT INSPECTION AND/OR TESTING AGENCY HIRED BY THE OWNER AND APPROVED BY THE ARCHITECT AND BUILDING OFFICIAL. OWNER/SPECIAL INSPECTOR SHALL PROVIDE SPECIAL INSPECTION REPORTS WITHIN (5) DAYS OF PERFORMING THE INSPECTION AND IMMEDIATELY NOTIFY THE ENGINEER OF NON-COMPLIANCE ITEMS.
      a. INSPECTION OF OF FABRICATIONS (IBC 1704.2.5)
      b. STEEL CONSTRUCTION (IBC 1705.2)
         • STRUCTURAL STEEL (SEE AISC 360-10 CHAP. N) (IBC 1705.2.1)
      c. CONCRETE CONSTURCTION (IBC 1705.3)
      d. MASONRY CONSTRUCTION (IBC 1705.4)
      e. SOILS (IBC 1705.6)
      f. POST-INSTALLED ANCHORS (ACI 318 17.8.2)

4. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. CONFLICTS IN DIMENSIONS AND INTERFERENCES SHALL BE DIRECTED TO THE ARCHITECT / ENGINEER PRIOR TO CONSTRUCTION OF WORK.
5. CONTRACTOR SHALL VERIFY BUILDING LOCATION WITH REGARD TO PROPERTY LINE AND VERIFY ALL EXISTING CONDITIONS BEFORE EXCAVATION AND SHOP DRAWING PREPARATION. NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES.
6. THE DESIGN AT THE EXISTING PART OF THE BUILDING WHICH WILL REMAIN IS BASED ON IMCOMPLETE INFORMATION ABOUT THE EXISTING STRUCTURE, THE SIZE AND DEPTH OF EXISTING FOUNDATION. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL PROVIDE THE ARCHITECT / ENGINEER WITH FIELD INFORMATION ABOUT THE EXISTING FOUNDATION AND STRUCTURAL MEMBERS AND WILL FOLLOW ANY CHANGES THAT WILL BE REQUIRED BY THE ENGINEER DUE TO UNANTICIPATED FIELD CONDITIONS.
7. IN THE CASE OF CONTRADICTION BETWEEN THE DRAWINGS, SPECIFICATIONS, AND CODES, OR IF ANY CHANGE IS REQUIRED, THE CONTRACTOR SHALL INFORM THE ARCHITECT / ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
8. ALL DIMENSIONS AND DETAILS FOR ESCALATOR AND ELEVATORS SHALL BE VERIFIED WITH ESCALATOR AND ELEVATOR CERTIFIED DRAWINGS PRIOR TO CONSTRUCTION. ADJUST OPENING SIZES, DETAILS, AND FRAMING AS REQUIRED TO CONFORM TO THE CERTIFIED DRAWINGS. CONTRACTOR SHALL SUPPLY ANY SUPPLEMENTAL STEEL FRAMING FOR SUPPORT OF ELEVATORS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
9. THE STABILITY OF THE STRUCTURE, ADJACENT STRUCTURES IMPACTED BY THE WORK, AND SITE SAFETY ARE THE CONTRACTOR'S RESPONSIBILITY UNTIL CONSTRUCTION IS COMPLETE AND THE STRUCTURAL HAS REACHED ITS FINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY BRACING, ERECTION PIECES, CONSTRUCTION SUPPORTS, FALL PROTECTION, DEBRIS CATCHES, TEMPORARY SHORING, ETC. AS REQUIRED TO SAFEGUARD THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION.
10. THE CONTRACTOR SHALL VERIFY THAT ANY CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE.
11. VIBRATION EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS.

DESIGN LOADS

DEAD & LIVE LOADS:
   A. FLOOR LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH CODE FOR GIRDER, COLUMNS, AND FOUNDATIONS.

ROOF SNOW LOAD PARAMETERS:
   A. GROUND SNOW LOAD: P_g = 30 PSF
   B. SNOW EXPOSURE FACTOR: C_e = 1.00
   C. SNOW THERMAL FACTOR: C_t = 1.00
   D. SNOW IMPORTANCE FACTOR : I_S = 1.00
   E. FLAT ROOF SNOW LOAD: P_f = 21 PSF

WIND LOAD PARAMETERS:
   A. ULTIMATE DESIGN WIND SPEED, V_{ULT}: 115 MPH (3-SEC GUST)
   B. NOMINAL DESIGN WIND SPEED, V_{ASD}: 93 MPH (3-SEC GUST)
   C. WIND RISK CATEGROY: II
   D. EXPOSURE CATEGORY: B
   E. INTERNAL PRESSURE COEFF. C_p = ± 0.18

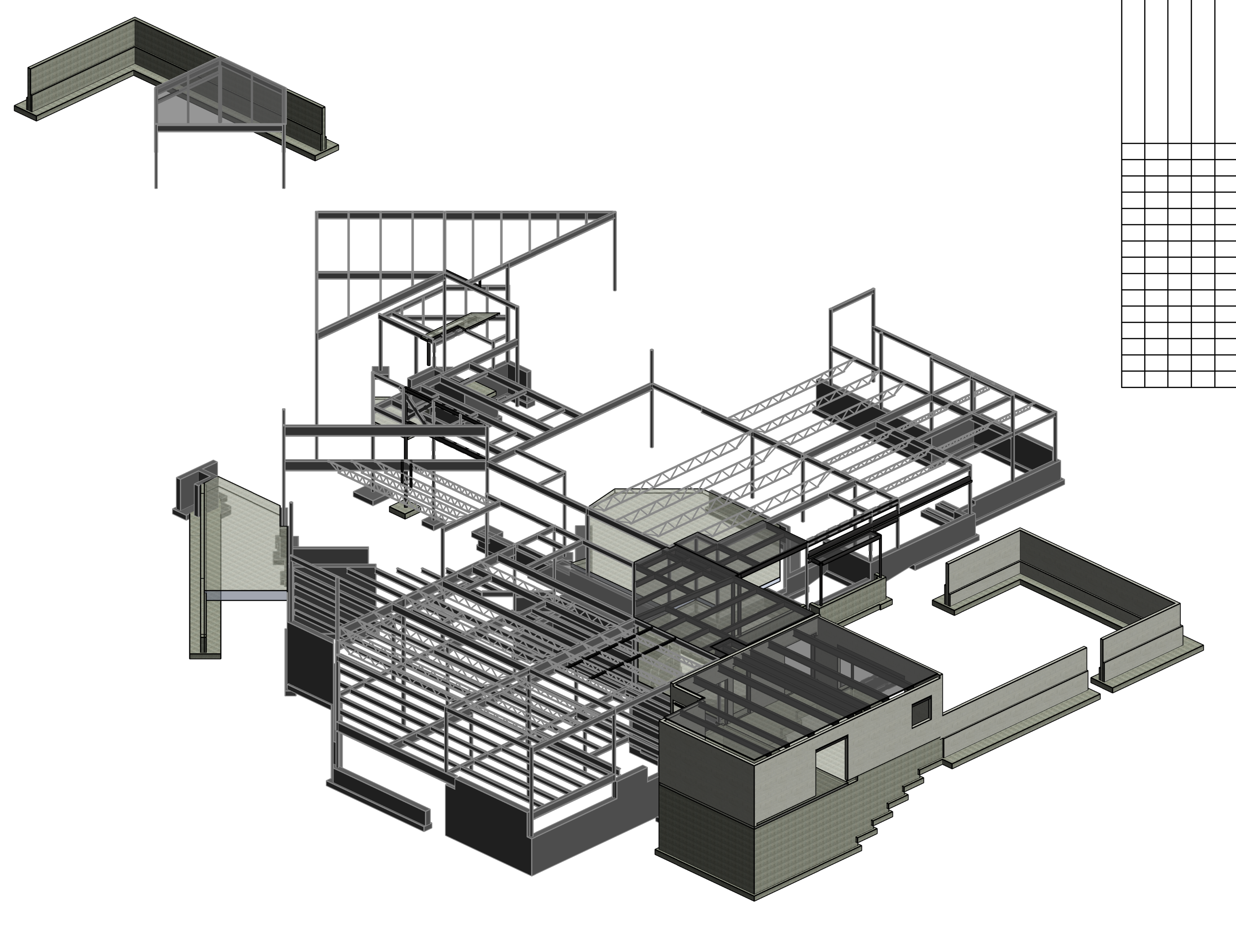
SEISMIC LOAD PARAMETERS:
   A. SEISMIC RISK CATEGORY: II
   B. SITE CLASS: D
   C. SEISMIC DESIGN CATEGORY: B
   D. SEISMIC IMPORTANCE FACTOR: I_e = 1.00
   E. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
      a. 0.2-SEC. SPECTRAL ACCELERATION: S_S = .294g
      b. 1-SEC. SPECTRAL ACCELERATION: S_1 = .0061g
   F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
      a. 0.2-SEC. SPECTRAL ACCELERATION: S_{DS} = .307g
      b. 1-SEC. SPECTRAL ACCELERATION: S_{D1} = .0098g
   G. SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
   H. SEISMIC SP.RESPOSNE COEFFICIENT: C_S = .154
   I. RESPONSE MODIFICATION FACTOR: R = 3.0
   J. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
   K. DESIGN BASE SHEAR: 15.5 KIPS

SERVICABILITY

1. THE NEW STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING DEFLECTION AND DRIFT LIMITS:
   A. LIVE LOAD DEFLECTION: L / 360
   B. LONG-TERM TOTAL LOAD DEFLECTION: L / 240
   C. LATERAL WIND DRIFT: H / 400
   D. LATERAL SEISMIC DRIFT: H / 150
   E. SPANDREL BEAM LIVE LOAD DEFLECTION: ± 0.75"
2. ALL FACADE CURTAINWALLS, STOREFRONTS, AND NEW STRUCTURAL PARTITIONS SHALL BE DESIGNED TO ACCOMODATE BUILDING MOVEMENT.

DEMOLITION NOTES

1. DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION, THE GENERAL CONTRACTOR SHALL MAINTAIN STRUCTURAL INTEGRITY OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN, WITH INTERIOR OR EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES.
2. EXISTING STRUCTURES TO REMAIN SHALL BE SAFED-OFF AND PROTECTED FROM ELEMENTS AT ALL TIMES.
3. CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS CAREFULLY, VISIT THE SITE, AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THEIR PROPOSAL. FAILURE TO VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE SUCCESSFUL BIDDER FROM FURNISHING ALL MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK, IN ACCORDANCE WITH THE DRAWINGS AND WITHOUT ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO ALLOW PROPER PERFORMANCE OF HIS WORK. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING STRUCTURE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASON FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED PER INTENT OF THE CONTRACT DOCUMENTS AT NO EXTRA COST TO THE OWNER.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO WORK WITH THE STRUCTURAL DRAWINGS AND THE ARCHITECTURAL DRAWINGS TO DETERMINE THE FULL EXTENT OF THE WORK. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND OTHER CONTRACT DRAWINGS, THE CONTRACTOR SHALL BRING SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT.
6. WHERE EXISTING WORK IS TO BE CUT, UNDERPINNED AND/OR SHEETED, CONTRACTOR TO PROVIDE ALL SHEETING, SHORING, NEEDLING, BRACING, WEDGING AND DRY-PACKING AND BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING THIS OPERATIONS AT NO EXTRA COST TO THE OWNER.
7. SHORING, UNDERPINNING AND SHEETING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER WITH AT LEAST FIVE YEARS EXPERIENCE IN THE DESIGN OF THE ABOVE AND BE LICENSED IN THE STATE OF NEW YORK.
8. CONTRACTOR SHALL BE REQUIRED TO REPAIR AND PATCH ANY AREAS THAT ARE ALTERED OR DAMAGED DURING THE PROCESS OF THE ALTERATION AT NO EXTRA COST TO THE OWNER.
9. CONTRACTOR IS CAUTIONED TO MAKE CONTINUOUS OBSERVATIONS OF EXISTING STRUCTURE DURING THE PERFORMANCE OF HIS WORK. SHOULD HE BECOME AWARE OF ANY SITUATIONS THAT REQUIRE FURTHER INVESTIGATION OR STUDY (SUCH AS CRACKS IN CONCRETE AND PARTITIONS, DETERIORATION OF EXISTING STRUCTURE TO REMAIN, EXCESSIVE DEFLECTIONS...), HE SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
10. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SHALL NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIALS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.
11. THE LOCATIONS OF THE EXISTING COLUMNS, BEAMS AND GIRDERS ARE INDICATED ON PLANS AND ARE BASED ON AVAILABLE INFORMATION. IF EXISTING CONSTRUCTION IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL BRING VARIATIONS TO THE ATTENTION OF THE ARCHITECT AND PREPARE THE NECESSARY SKETCHES OF THE AS-BUILT CONSTRUCTION AND SUBMIT THE SAME TO THE ARCHITECT FOR REVIEW AND REDESIGN.
12. SHOP DETAILS FOR ALL WORK TO BE SUBMITTED FOR REVIEW.



ISOMETRIC

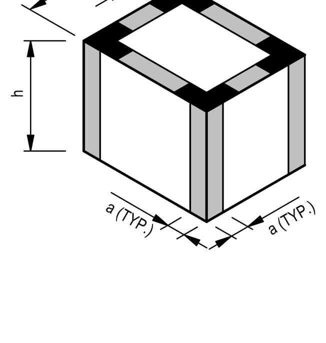
COMPONENTS & CLADDING WIND PRESSURES

TABLE 1 - NEGATIVE WALL & ROOF PRESSURES

WIND AREA	ROOF PRESSURES (PSF)			WALL PRESSURES (PSF)	
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
10 SF	-37.7	-49.7	-67.7	-25.7	-31.7
100 SF	-29.4	-39.1	-46.5	-22.1	-24.6
500 SF	-23.6	-31.7	-31.7	-19.6	-19.6

TABLE 2 - POSITIVE WALL PRESSURES

HEIGHT ABOVE GROUND, Z (FT)	WIND AREA (SQ. FT.)		
	10 SF	100 SF	500 SF
	ZONES 4 & 5 WALL PRESSURES (PSF)		
<15	23.6	20.1	17.6



INTERIOR ZONES
ROOF: ZONE 1
WALLS: ZONE 4

EDGE ZONES
ROOF: ZONE 2
WALLS: ZONE 5

CORNER ZONES
ROOF: ZONE 3
WALLS: n/a

NOTES:

1. "a" DENOTES 10% OF THE SMALLEST HORIZONTAL DIMENSION (NOT LESS THAN 3 FT)
2. "h" DENOTES MEAN ROOF HEIGHT ABOVE GRADE.
3. WHERE ROOF PARAPETS ARE > 3'-0", ZONE 3 PRESSURES MAY BE REDUCED TO ZONE 2 PRESSURES
4. + AND - INDICATE PRESSURE ACTING TOWARD AND AWAR FROM SURFACE, RESPECTIVELY

SHEET INDEX

- ● ISSUED - NEW SHEET
- ◒ ISSUED - REVISION MADE
- ○ ISSUED - NO REVISION MADE
- x SHEET REMOVED

ISSUE: 12/17/2021 - 100% CONSTRUCTION DOCUMENTS	SHEET No.	SHEET TITLE
●	S-001	GENERAL NOTES, ABBREVIATIONS, & SHEET INDEX
●	S-002	GENERAL PROJECT INFORMATION
●	D-100	FOUNDATION DEMO PLAN
●	D-101	MAIN LEVEL DEMO PLAN
●	D-102	MEZZANINE LEVEL DEMO PLAN
●	D-103	ROOF LEVEL DEMO PLAN
●	S-100	FOUNDATION PLAN
●	S-101	MAIN LEVEL FRAMING PLAN
●	S-102	MEZZANINE LEVEL FRAMING PLAN
●	S-103	ROOF LEVEL FRAMING PLAN
●	S-300	TYP FOUNDATION DETAILS
●	S-301	TYP FOUNDATION DETAILS
●	S-310	TYP SUPERSTRUCTURE DETAILS
●	S-320	UNIT MASONRY DETAILS
●	S-330	BUILDING SECTIONS

ABBREVIATIONS

ABV.	ABOVE	LB or #	POUND (FORCE)
ADD'L	ADDITIONAL	LE	LEFT END
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LG.	LONG or LENGTH
ALT.	ALTERNATE	LLH	LONG LEG HORIZONTAL
ARCH.	ARCHITECTURAL	LLV	LONG LEG VERTICAL
B or BOT.	BOTTOM	L.W.	LONG WAY
BAL.	BALANCE	L.P.	LOW POINT
BLDG.	BUILDING	LVL	LAMINATED VENEER LUMBER
BLW.	BELOW	MAX.	MAXIMUM
BM	BEAM	MEP	MECHANICAL, ELECTRICAL, PLUMBING
BP	BEARING PLATE or BASE PLATE	MFGR	MANUFACTURER
BRG.	BEARING	MIN.	MINIMUM
BTW.	BETWEEN	MECH.	MECHANICAL
C	CAMBER	MISC.	MISCELLANEOUS
CANT.	CANTILEVER	MO	MASONRY OPENING
CFMF	COLD-FORMED METAL FRAMING	MOM.	MOMENT
CL or ℄	CENTERLINE	MTL.	METAL
CLR.	CLEAR	NTS	NOT TO SCALE
CIP	CAST-IN-PLACE	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NS	NEAR SIDE
COL.	COLUMN	o/c	ON CENTER
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONN. or CXN.	CONNECTION	OPNG.	OPENING
CONST.	CONSTRUCTION	OPP.	OPPOSITE
CONT.	CONTINUOUS	PAF	POWDER-ACTUATED FASTENER
COORD.	COORDINATE	PL or ⅊	PLATE
DEPR.	DEPRESSION	PSI	POUNDS PER SQUARE INCH
DEG. or °	DEGREE	PSF	POUNDS PER SQUARE FOOT
DFT	DRY FILM THICKNESS	PSL	PARALLEL STRAND LUMBER
DIA. or Ø	DIAMETER	PT	POST-TENSIONED
DIM(S)	DIMENSION(S)	QTY.	QUANTITY
DWG	DRAWING	R	RADIUS
DWL(S)	DOWEL(S)	RE	RIGHT END
EA.	EACH	REINF.	REINFORCING
EE	EACH END	REF.	REFERENCE
EF	EACH FACE	REQ'D	REQUIRED
EL. or ELEV.	ELEVATION	SC	SLIP CRITICAL
EOS	EDGE OF SLAB	SCHED.	SCHEDULE
EQ	EQUAL	SIM.	SIMILAR
EW	EACH WAY	SOG	SLAB ON GRADE
EX. or EXIST.	EXISTING	SS	STAINLESS STEEL
EXP.	EXPANSION	STIFF.	STIFFENER
FLR.	FLOOR	STL.	STEEL
F.O.	FACE OF	STRUCT.	STRUCTURE or STRUCTURAL
FRP	FIBERGLASS REINFORCING POLYMER	SYMM.	SYMMETRY or SYMMETRICAL
FS	FAR SIDE	S.W.	SHORT WAY
FT or '	FOOT (FEET)	T	TOP
FTG.	FOOTING	TG	TRANSFER GIRDER
Fy	YIELD STRESS	THK.	THICK or THICKNESS
GA.	GAGE	TLS	TENSION LAP SPLICE
GALV.	GALVANIZED	TYP.	TYPICAL
GR.	GRADE	U.O.N.	UNLESS OTHERWISE NOTED
HOR.	HORIZONTAL	VA.	VARIES
H.P.	HIGH POINT	VERT.	VERTICAL
ID	INSIDE DIAMETER	VIF	VERIFY IN FIELD
IN or "	INCH(ES)	W/	WITH
INT.	INTERMEDIATE	WP	WORK POINT
JT.	JOINT	WWF	WELDED WIRE FABRIC
K	KIPS (1 KIP = 1,000 POUNDS)		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		

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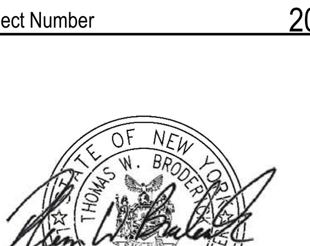
McLaren ENGINEERING GROUP

New City Library

VMDO

NEW CITY LIBRARY

Client Project Number
VMDO Project Number 201049



Checked By AT
Drawn By DAB

GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

GENERAL NOTES, ABBREVIATIONS, & SHEET INDEX

S-001

FOUNDATION NOTES

1. GENERAL
   A. THE FOUNDATIONS HAVE BEEN DESIGNED TO AN ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF BASED ON A SOILS REPORT ISSUED BY CARLIN-SIMPSON & ASSOCIATES DATED MAY 26, 2021. THIS CAPACITY SHALL BE VERIFIED BY A REGISTERED SOILS ENGINEER. SHOULD CONDITIONS VARY FROM THOSE ASSUMED, NOTIFY THE ARCHITECT / ENGINEER PRIOR TO CONTINUATION OF WORK.
   B. ALL FOOTINGS SHALL BE PLACED DIRECTLY ON COMPETENT NATURAL, GRANULAR SOILS OR ENGINEERED CERTIFIED COMPACTED FILL OVER COMPETENT NATURAL SOILS.
   C. ALL FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS (MAXIMUM) COMPACTED WITH VIBRATORY ROLLERS. FILL MATERIAL SHALL BE TESTED BY MODIFIED PROCTOR DENSITY METHOD (ASTM D1557) AND MUST QUALIFY AS SELECT, WITH LESS THAN 10% PASSING THROUGH THE NO. 200 SIEVE. SOIL SHALL BE PLACED WITH MOISTURE CONTENT AND ENERGY TO PROVIDE 92% OF MAXIMUM DRY DENSITY BELOW SLABS ON GRADE AND 95% BELOW FOOTINGS. IN PLACE DENSITY TESTS SHALL BE TAKEN FOR EACH 10,000 S.F. IN EACH LIFT. FOR ACCEPTANCE OF SOIL, AVERAGE OF DENSITY TESTS MUST EXCEED THE SPECIFIED COMPACTION. NO TESTS SHALL BE PERMITTED TO FALL BELOW 88% COMPACTION BELOW SLABS ON GRADE OR 90% COMPACTION BELOW FOOTINGS.

2. SHALLOW FOUNDATIONS
   A. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 42 INCHES BELOW FINAL GRADE WHEN BEARING ON SOIL.
   B. WHERE NECESSARY, FOOTING STEPS SHALL BE CONSTRUCTED AT MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTAL.
   C. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN A BUILDING FOUNDATION BEARING ON SOIL, SUCH OUTCROPPING OR INTERFERENCE SHALL BE REMOVED TO A DEPTH 12 INCHES BELOW BOTTOM OF FOOTING AND REPLACED WITH CLEAN GRANULAR MATERIAL CONTAINING LESS THAN 15% SILT, COMPACTED TO 95% MAXIMUM DENSITY PER MODIFIED PROCTOR METHOD. MAINTAIN A MINIMUM COVER OF 12 INCHES TO BOTTOM OF CONCRETE.
   D. WHERE SOLID UNFRACTURED ROCK IS ENCOUNTERED FOR A WALL LENGTH OF AT LEAST 25 FEET, WALLS MAY BE PLACED WITHOUT FOOTINGS BY TRENCHING 6 INCHES INTO THE ROCK AND PINNING THE WALL TO ROCK WITH DOWELS TO MATCH VERTICAL REINFORCING. GROUTED INTO ROCK, EXTENDING 24 BAR DIAMETERS INTO ROCK. NO FROST PROVISIONS ARE REQUIRED FOR THIS DETAIL. PROVIDE CONTROL JOINT IN WALL AT ANY TRANSITION BETWEEN ROCK BEARING AND SOIL BEARING CONDITIONS.
   E. EXCAVATIONS SHALL BE DEWATERED TO ALLOW INSTALLATION OF FOOTINGS IN DRY ATMOSPHERE.
   F. DIFFERENTIAL BACKFILL AGAINST FOUNDATION WALLS SHALL NOT EXCEED FOUR FEET UNTIL TOP BRACING SLAB OR FORMWORK HAS BEEN IN PLACE FOR A MINIMUM OF THREE DAYS. CANTILEVERED RETAINING WALLS MAY BE BACKFILLED AFTER 14 DAYS FROM CONCRETE PLACEMENT, BUT IN NO CASE SHALL DIFFERENTIAL OF BACKFILL, ON OPPOSITE SIDES OF THE WALL, EXCEED THE FINAL DESIGN DIFFERENTIAL.
   G. ALL BOTTOM OF FOOTING ELEVATIONS ARE SUBJECT TO CHANGE UPON INSPECTION OF SOIL CONDITION. ELEVATION OF ADJACENT FOOTING BOTTOMS SHALL NOT EXCEED A SLOPE OF:
      1H:1V FOR COHESIVE SOILS WITH AN UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF.
      1 1/2H:1V FOR COHESIVE SOILS WITH AN UNCONFINED COMPRESSIVE STRENGTH OF 0.5 TSF OR LESS.
   H. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE BOTTOM OF FOOTING ELEVATION IS CHANGED AND OBTAIN REVISED DESIGN OF FOUNDATION AND RETAINING WALLS AS REQUIRED.

CONCRETE REBAR LAP SPLICE & HOOK LENGTHS (INCHES)

BAR SIZE	d_b (in)	TENSION CONCRETE STRENGTH ($f'c$), PSI 4,000	TENSION 5,000	COMPRESSION ≥ 3,000	STANDARD 90° HOOK
#3	0.375	19	17	12	6
#4	0.25	25	22	15	8
#5	0.625	31	28	19	10
#6	0.75	37	33	23	12
#7	0.875	54	49	27	14
#8	1.00	62	53	30	16
#9	1.125	70	63	34	19
#10	1.27	79	71	39	22
#11	1.56	87	78	43	24

NOTE: SPLICE LENGTHS INDICATED ABOVE SHALL BE MULTIPLIED BY THE FOLLOW FACTORS:
A. BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW LAP..... 1.3
B. CLEAR COVER < d_b.....1.5
C. CLEAR COVER < d_b, FOR BARS ENCLOSED BY STIRRUPS OR CLEAR COVER < 2 x d_b, FOR ALL OTHER BARS..... 1.5
D. LIGHTWEIGHT CONCRETE..... 1.3

CAST-IN-PLACE CONCRETE

1. GENERAL
   A. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE ACI BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (ACI 318-1.4. ULTIMATE STRENGTH DESIGN).
   B. 28-DAY MINIMUM COMPRESSIVE STRENGTH AND RELATED PROPERTIES FOR CONCRETE SHALL BE AS FOLLOWS:

	F'_c	MAX W/C RATIO	MAX DENSITY
FOOTINGS	4,500 PSI	0.40	NWC (145 PCF)
SLAB ON GRADE	4,000 PSI	0.40	NWC (145 PCF)
WALLS	4,500 PSI	0.40	NWC (145 PCF)
SLABS ON M.D.	4,000 PSI	0.40	LWC (110 PCF)

   C. CONCRETE COVERING OF REINFORCING STEEL (INCLUDING TIES AND STIRRUPS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
      3/4" SLABS AND WALLS WITH INTERIOR EXPOSURE
      1-1/2" SLABS AND WALLS WITH EXTERIOR EXPOSURE FOR #5 OR SMALLER, 2" OTHERWISE
      2" FOUNDATION WALL, FOOTING & GRADE BEAM FACES NOT CAST AGAINST EARTH
      3" CONCRETE CAST AGAINST EARTH
   D. ALL CONCRETE, INCLUDING FOUNDATIONS, EXPOSED TO WEATHER AND/OR OUTSIDE THE BUILDING ENVELOPE SHALL BE AIR ENTRAINED, 6% ± 1.5% BY VOLUME FOR 3/4" COARSE AGGREGATE, AND 7.5% ± 1.5% BY VOLUME FOR 3/8" LIGHT WEIGHT AGGREGATE. AIR ENTRAINING ADMIXTURE TO COMPLY WITH ASTM C260.
   E. ALL PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
   F. ALL NORMAL WEIGHT AND LIGHT WEIGHT CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33 AND ASTM C330 RESPECTIVELY.
   G. MAXIMUM CONCRETE SLUMP SHALL BE 4" FOR CONCRETE NOT RECEIVING HIGH-RANGE WATER REDUCING ADMIXTURES.
   H. ALL BARS MARKED CONTINUOUS SHALL BE LAPPED AT SPLICES AND CORNERS IN ACCORDANCE WITH THE SCHEDULE SHOWN ON THESE DRAWINGS, EXCEPT AS OTHERWISE SHOWN OR REQUIRED.
   I. WELDING OR REINFORCEMENT IS PROHIBITED U.O.N.
   J. ALL REINFORCING BARS SHALL BE OF NEW BILLET STEEL CONFORMING TO ASTM A615, WITH THE FOLLOWING GRADE.
      #3 THROUGH #10 - GRADE 60 (F_y = 60,000 PSI)
      #11 AND GREATER - GRADE 75 (F_y = 75,000 PSI)
   K. VERTICAL CONSTRUCTION JOINTS USING APPROVED BULKHEADS MAY BE MADE WITHIN THE MIDDLE THIRD OF BEAM, WALL, OR SLAB SPANS WHERE STOP IN CONCRETE WORK IS NECESSARY. A PLAN SHOWING PROPOSED JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY AS SHOWN ON DRAWINGS. CONSTRUCTION JOINTS SHALL CONFORM TO ACI 318, SECTION 6.4. ALL REINFORCING STEEL SHALL BE CONTINUOUS THROUGH JOINTS U.O.N. FOR ALL CONSTRUCTION JOINTS BELOW WATER TABLE, PROVIDE WATERSTOPS.
   L. VERTICAL JOINTS SHALL NOT BE PLACED IN CONCRETE SHEAR WALLS UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER.
   M. ALL HORIZONTAL JOINTS IN CONCRETE POURS (WHERE SHOWN ON STRUCTURAL DRAWINGS OR EXPLICITLY APPROVED BY THE ENGINEER IN WRITING) SHALL BE RAKED TO 1/4" AMPLITUDE WHILE CONCRETE IS FRESH.
   N. ALL CONCRETE SHALL BE MIXED, TRANSPORTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS 318 AND 304.
   O. ALL REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE TO ACI 315.
   P. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
   Q. SYNTHETIC FIBER REINFORCEMENT SHALL BE OF MACRO SYNTHETIC "COARSE" FIBERS MADE FROM VIRGIN POLYOLEFIN, BY STRUX 90/40 BY GCP APPLIED TECHNOLOGIES (OR APPROVED EQUIVALENT), AT A MINIMUM DOSAGE RATE AS SPECIFIED IN SPECIFICATIONS, U.O.N..
   R. TEST CYLINDERS SHALL BE TAKEN FROM THE MIXER IN ACCORDANCE WITH ASTM C172 AND THE PROJECT SPECIFICATIONS.
   S. STONE AGGREGATE USED IN CONCRETE MIX SHALL BE FREE OF MATERIALS WITH HARMFUL REACTIVITY TO ALKALI IN CEMENT. THE MAXIMUM WATER SOLUBLE CHLORIDE ION (CL-) CONTENT IN CONCRETE FROM ALL INGREDIENTS SHALL BE LESS THAN 0.06% OF WEIGHT OF CEMENT, PER ASTM C1218.

2. CONCRETE FOR FOUNDATIONS
   A. SLAB ON GRADE SHALL BE FIBER REINFORCED CONCRETE CONFORMING TO ACI 544.2R. SLAB SHALL BE FINISHED IN ACCORDANCE WITH ACI STANDARD 302.1R FOR CLASS 2 FLOORS, TYPE II CEMENT AND 1" COARSE AGGREGATE (SIZE NO. 57) SHALL BE USED.
   B. ALL VERTICAL SURFACES OF CONCRETE SHALL BE FORMED FOR WALLS, FOOTINGS, AND GRADE BEAMS.
   C. CONTRACTOR SHALL PROVIDE A MINIMUM AREA OF STEEL REINFORCEMENT EQUAL TO .0018 TIMES THE GROSS CONCRETE AREA IN CONCRETE SLABS AND FOOTINGS, EXCEPT WHERE CONCRETE IS PRESTRESSED. PROVIDE MINIMUM BONDED REINFORCEMENT FOR PRESTRESSED CONCRETE IN ACCORDANCE WITH ACI 318 - SECTION 18.9. FOR WALLS, PROVIDE MINIMUM REINFORCING IN ACCORDANCE WITH ACI 318 - SECTION 14.3..

CONCRETE MASONRY UNITS (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530.1-13 SPECIFICATION FOR MASONRY STRUCTURES.
2. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90, GRADE N-TYPE I WITH MINIMUM COMPRESSIVE STRENGTH OF UNITS = 1900 PSI ON NET AREA, WITH ASSUMED DESIGN COMPRESSIVE STRENGTH, F'_m = 1500 PSI. UNITS MAY BE FABRICATED EITHER WITH NORMAL WEIGHT AGGREGATE (C33) OR LIGHTWEIGHT AGGREGATE (C331).
3. ALL UNITS SHALL BE PLACED IN RUNNING BOND.
4. MORTAR SHALL BE TYPE M OR S. MORTAR SHALL MEET ASTM C270.
5. GROUT SHALL COMPLY WITH ASTM C476. SLUMP SHALL BE 8 TO 11 INCHES, STRENGTH SHALL BE EQUAL TO 3000 PSI.
6. STORE ALL UNITS OFF GROUND TO PREVENT CONTAMINATION. COVER MATERIALS TO PROTECT FROM THE ELEMENTS.
7. NO AIR-ENTRAINING ADMIXTURES OR ANTIFREEZE COMPOUNDS, SUCH AS CALCIUM CHLORIDE SHALL BE ADDED TO MORTAR.
8. ALL WALLS OR PILASTERS SUPPORTING STEEL AT BEARING PLATES SHALL BE GROUTED SOLID FOR FOUR COURSES IN DEPTH FOR A WIDTH OF 32".
9. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL MORTAR HAS ATTAINED MAXIMUM STRENGTH. WHERE BACKFILL IS PLACED AGAINST FOUNDATION WALLS BEFORE FLOOR CONSTRUCTION IS IN PLACE, PROVIDE TEMPORARY BRACING.
10. THE FIRST BLOCK COURSE ON FOOTING SHALL BE FILLED SOLID WITH CONCRETE, UNLESS OTHERWISE NOTED ON DRAWINGS.
11. VERTICAL CONTROL JOINTS SHALL BE PLACED SUCH THAT THE RATIO OF JOINT SPACING (S) DIVIDED BY WALL HEIGHT (H) DOES NOT EXCEED 1.5. IN NO CASE SHALL SPACING EXCEED 25 FT. CONTROL JOINTS SHALL BE CONSTRUCTED USING SASH BLOCKS AND DUR-O-WAL PREFORMED REGULAR RAPID CONTROL JOINT (OR EQUAL OF EXTRUDED RUBBER). VERTICAL JOINTS SHALL BE LOCATED AS FOLLOWS:
    A. CHANGES IN WALL HEIGHT OR THICKNESS
    B. AT CONSTRUCTION JOINTS IN FOUNDATION, IN ROOF, AND IN FLOORS
    C. AT CHASES AND RECESSES FOR PIPING, COLUMNS, FIXTURES, ETC.
    D. AT ABUTMENT OF WALL AND COLUMNS
    E. WITHIN S/2 OF CORNERS OF WALLS OR COLUMNS
    F. NO CLOSER THAN 2'-0" TO EDGE OF ANY OPENING IN WALL
12. CMU WALLS SHALL BE REINFORCED WITH 3/16" DIA. TRUSS TYPE LADDER REINFORCING ASTM A82 WIRE, HOT DIPPED GALVANIZED, AT 16" ON CENTER (VERTICALLY), AND AT THE FIRST AND SECOND BED JOINTS ABOVE AND BELOW WALL OPENINGS.
13. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO RESIST WIND LOADS OF 25 PSF. NOTE THAT FLOOR AND ROOF DIAPHRAGMS WILL PROVIDE ULTIMATE STABLITY FOR WALLS. MASONRY WALLS SHALL NOT BE BUILT HIGHER THAN 10 TIMES THEIR THICKNESS WITHOUT BRACING.
14. ALL CMU CORES WITH VERTICAL REINFORCEMENT MUST BE FULLY GROUTED.
15. LINTELS (UNLESS OTHERWISE NOTED ON THE PLANS)
    A. STEEL LINTELS ALONG EXTERIOR FACE OF BUILDING SHALL BE HOT DIP GALVANIZED.
    B. STEEL LINTELS SHALL BE REQUIRED AT OPENINGS IN MASONRY WALLS. SEE TYPICAL MASONRY DETAILS FOR FURTHER INFORMATION.

STRUCTURAL STEEL

1. GENERAL
   A. STEEL CONSTRUCTION SHALL CONFORM TO AISC "STEEL CONSTRUCTION MANUAL", FIFTEENTH EDITION, AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS ADOPTED JUNE 15, 2016.
   B. MATERIALS FOR STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, U.O.N.:

SHAPE	ASTM	MIN. YIELD STRENGTH
WIDE FLANGE SHAPE	A992	50 KSI
CHANNELS, ANGLES, M, S-SHAPES	A36	36 KSI
PLATE, BAR, AND MISC. STEEL	A36	36 KSI
RECTANGULAR HSS	A1085	50 KSI OR
	A500, GR. C	50 KSI
STEEL PIPE (TYPE E OR S)	A53, GR. B	35 KSI

   C. ALL BOLTED CONNECTIONS SHALL BE MADE USING ASTM F3125 GR. A325/A490 (CONVENTIONAL) BOLTS, OR F1852/F2280 (TWIST OFF TYPE TENSION-CONTROL) BOLTS, 3/4" MIN. DIAMETER. ALL LATERAL SYSTEM (BRACING AND MOMENT FRAME) BOLTED CONNECTIONS SHALL BE PRETENSIONED FOR STANDARD BOLT HOLES AND SLIP-CRITICAL FOR OVERSIZED OR SLOTTED BOLT HOLES (IN THE DIRECTION OF THE LOAD). ALL BOLTED CONNECTIONS SHAL BE INSTALLED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, U.O.N.
   D. BOLTED CONNECTIONS DESIGNATED AS PRETENSIONED OR SLIP CRITICAL SHALL BE PRETENSIONED AND INSPECTED AS PER THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
   E. ANCHOR RODS SHALL BE OF ASTM F155 GRADE 55 "WELDABLE" AS PER THE 'S1' SUPPLEMENT.
   F. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS. SHOP DRAWINGS ARE PREPARED AND USED BY THE CONTRACTOR AS INSTRUMENTS TO SEQUENCE HIS WORK AND TO FACILITATE FABRICATION AND ERECTION. REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL DETAIL AND ARRANGEMENT ONLY. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR DIMENSIONS, PROPER FIT AND DETAILED DESIGN OF CONNECTIONS. THEIR APPROVAL BY THE STRUCTURAL ENGINEER IS NOT TO BE CONSTRUED AS A WAIVER OF CONSTRUCTION CONTRACT REQUIREMENTS OR RESPONSIBILITIES, UNLESS THE CONTRACTOR HAS BEEN GRANTED A DEVIATION IN WRITING.
   G. ALL SHEAR CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR SERVICE LEVEL (ASD) VALUES INDICATED ON PLANS. IF NO VALUES ARE GIVEN ON PLANS, SEE TYPICAL CONNECTION DETAILS FOR DESIGN FORCES. ALL BEAM WEB SHEAR CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT THE DEPTH OF THE CONNECTION PLATES OR ANGLES ARE NOT LESS THAN ONE-HALF OF THE BEAMS "T" DIMENSION. NO CONNECTION SHALL BE DESIGNED AND DETAILED TO SUPPORT LESS THAN 6 KIPS SERVICE LEVEL REACTION. WHERE POSSIBLE, THE CONTRACTOR SHALL SELECT A SIMPLE SHEAR CONNECTION FROM THE TABLES IN PART 10 OF THE AISC STEEL CONSTRUCTION MANUAL "15TH EDITION ASD."
   H. THE FORCES INDICATED ON THE PLANS/ELEVATIONS ARE THE MEMBER DESIGN FORCES. LATERAL MOMENT FRAME CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR THE GREATER OF THE FORCES SHOWN ON PLANS/ELEVATIONS OR AS REQUIRED BY AISC 341 FOR THE SEISMIC RESPONSE MODIFICATION FACTOR (R) AND BASIC SEISMIC FORCE RESISTING SYSTEM SHOWN IN THE GENERAL NOTES. THE CONTRACTOR SHALL PROVIDE ANY REINFORCEMENT NECESSARY (STIFFENER PLATES, DOUBLER PLATES, ETC.) REQUIRED TO CONSTRUCT THESE CONNECTIONS.
   I. DURING ERECTION, APPROVED TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO PREVENT DISTORTION OR DAMAGE TO THE FRAMEWORK DUE TO ERECTION FORCES.
   J. STEEL SHOP DRAWINGS SHALL BE COORDINATED WITH STAIR DETAILS.
   K. PROVIDE FITTED WELDED STIFFENER PLATES 1/4" THICK MIN. IN SUPPORT BEAMS ALONGSIDE HANGER LOCATIONS, AT SUPPORT POSTS, AND AT STAIR STRINGER BEAM BEARING POINTS.
   L. ALL INTERIOR STRUCTURAL STEEL SHALL BE CLEANED TO SSPC-SP3 AND SHALL RECEIVE THE FOLLOWING SHOP PRIMER, EXCEPT WHERE FIELD WELDING OR SLIP CRITICAL BOLTING IS TO BE DONE. WHERE STEEL IS TO RECEIVE SPRAY APPLIED FIREPROOFING, OR WHERE SPECIFIED TO BE GALVANIZED:
      a. BUILDING INTERIOR STEEL: TNEMEC 10-99 PRIMER AT 2.5 MILS DFT, OR APPROVED EQUAL.
      b. BUILDING PERIMETER STEEL: TNEMEC 394 PERIMEPRIME AT 3.0 MILS DFT, OR APPROVED EQUAL.
      c. ALL WELDS AND BARE SPOTS SHALL RECEIVE TOUCHUP PAINT.
   M. ALL EXTERIOR OR EXPOSED STRUCTURAL STEEL, MISCELLANEOUS COMPONENTS, AND HARDWARE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, EXCEPT THE FOLLOWING LOCATIONS: WHERE FIELD WELDING OR SLIP CRITICAL BOLTING IS TO BE DONE AND ON A490 BOLTS. ALL WELDS AND BARE SPOTS SHALL RECEIVE ZRC COLD GAVANIZING COMPOUND (OR APPROVED EQUIVALENT), WITH SURFACE PREPARATION AND APPLICATION IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. ALL A490 BOLTS SHALL RECEIVE ZINC RICH/ALUMINUM COATING IN ACCORDANCE WITH ASTM F2833 GR. 1 (MAGNI 565 OR APPROVED EQUIVALENT).
   N. ALL STEEL BELOW GRADE SHALL BE ENCASED WITH 4" OF CONCRETE OR PAINTED WITH BITUMINOUS PAINT.
   O. ALL STEEL PAINTING REQUIREMENTS SHALL BE COORDINATED WITH THE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS. NOTIFY THE ENGINEER FOR ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS FOR STEEL PAINTING REQUIREMENTS FOR DIRECTION PRIOR TO STEEL FABRICATION.

2. WELDING
   A. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARDS OF THE AMERICAN WELDING SOCIETY. ELECTRODES MUST MEET E70XX SERIES REQUIREMENTS. LOW HYDROGEN, WITH MINIMUM TENSILE STRESS OF 70,000 PSI. ELECTRODES SHALL BE PRODUCED AND STORED IN ACCORDANCE WITH AWS D1.1 SECTIONS 5.3.
   B. STEEL ERECTOR SHALL PROVIDE A FIRE WATCH DURING ALL FIELD WELDING OPERTATIONS.
   C. ALL WELDERS ARE TO BE LICENSED AND CERTIFIED TO AWS STANDARDS OR THOSE REQUIRED BY APPLICABLE BUILDING CODE.
   D. ALL WELDS SHALL BE VISUALLY INSPECTED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL RECEIVE RADIOGRAPHIC OR ULTRASONIC TESTING. MAGNETIC PARTICLE TEST 20% OF ALL MULTI-PASS FILLET WELDS.
   E. REPORTS OF EACH TEST SHALL BE GIVEN TO THE STRUCTURAL ENGINEER. NO FAILED WELD SHALL BE PERMITTED TO REMAIN IN SERVICE. IT IS THE RESPONSIBILITY OF THE TESTING LABORATORY TO PROVIDE TIMELY NOTICE OF FAILED TESTS TO THE CONTRACTOR.
   F. WELDING SHALL PROGRESS IN A MANNER WHICH BALANCES THE STRESSES IN THE MEMBERS, IN ACCORDANCE WITH AWS.
   G. PREHEATING REQUIREMENTS FOR BASE METAL SHALL FOLLOW AWS GUIDELINES.

3. STAIRS
   A. STAIRS SHALL BE STEEL, PAN TYPE CONCRETE TREAD, OR PRECAST CONCRETE TREAD ON STEEL RISERS, DESIGNED FOR 100 PSF LIVE LOAD.
   B. DESIGN OF STAIRS AND LANDINGS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR AND SHALL CONFORM TO OSHA SAFETY IMPROVEMENTS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
   C. SURROUNDING STRUCTURAL FRAMING HAS BEEN DESIGNED TO CARRY STAIR LOADS BASED ON THE LOADING ASSUMPTIONS AND LOCAL REINFORCEMENT AS PER THE STRUCTURAL STEEL NOTES. ATTACHMENT POINTS OUTSIDE OF THESE REQUIREMENTS WILL REQUIRE BRACING BY THE STAIR CONTRACTOR TO RESOLVE ECCENTRIC FORCES ON THE BUILDING STRUCTURE WITH APPROVAL OF THE ARCHITECT AND ENGINEER.

4. STEEL DECK AND SHEAR STUDS
   A. ROOF DECK SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653 COATING CLASS G90. UNITS SHALL BE WELDED TO JOISTS OR BEAMS WITH 5/8" PUDDLE WELDS IN A 36/4 PATTERN, U.O.N. SIDE LAPS ARE TO BE WELDED AT A MAXIMUM SPACING OF 36" ON CENTER, U.O.N. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 2 SPANS.
   B. FLOOR DECK SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653 COATING CLASS G60. UNITS SHALL BE WELDED TO JOISTS OR BEAMS WITHIN 5/8" PUDDLE WELDS A 36/4 PATTERN. SIDE LAPS ARE TO BE WELDED AT A MAXIMUM SPACING OF 36" ON CENTER. U.O.N. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 2 SPANS.
   C. AS AN ALTERNATE TO PUDDLE WELDING OF STEEL DECKING, HILTI X-HSN OR X-ENP 19 POWDER ACTUATED FASTENERS (PAFs) WITH EQUIVALENT OR GREATER CAPACITY TO SPECIFIED ATTACHMENT CAN BE INSTALLED. IF PAFs ARE USED, USE HILTI S-SLC SIDELAP CONNECTORS. THE CONTRACTOR SHALL SUBMIT ALTERNATIVE FASTENING PATTERN TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.
   D. PAFs SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE CERTIFIED AND TRAINED BY THE MANUFACTURER'S REPRESENTATIVE FOR PROPER USE AND INSTALLATION OF PAFs.
   E. SHEAR CONNECTOR SHALL BE HEADED STUD TYPE, ASTM A108 GRADE 1015 OR 1020 COLD FINISHED CARBON STEEL. PROVIDE STUDS OF THE SIZE AND SPACING AS SPECIFIED ON DRAWINGS OR A MAXIMUM SPACING OF 1'-0" O.C. EVEN IF THIS EXCEEDS THE NUMBER CALLED FOR ON THE DRAWINGS.
   F. DECK UNITS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH CURRENT "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS" PUBLISHED BY THE STEEL DECK INSTITUTE.
   G. DECKING CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL ANGLE SUPPORTS AT ALL COLUMNS AND ELSEWHERE WHERE FRAMING OR CONNECTIONS INTERFERE OR INTERRUPT SEATING OF MORE THAN ONE DECK RIB. PERMANENT ANGLES SHALL BE PAINTED.
   H. PROVIDE SUPPORTS FOR METAL DECKING AT ALL OPENINGS.

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Checked By AT
Drawn By DAB

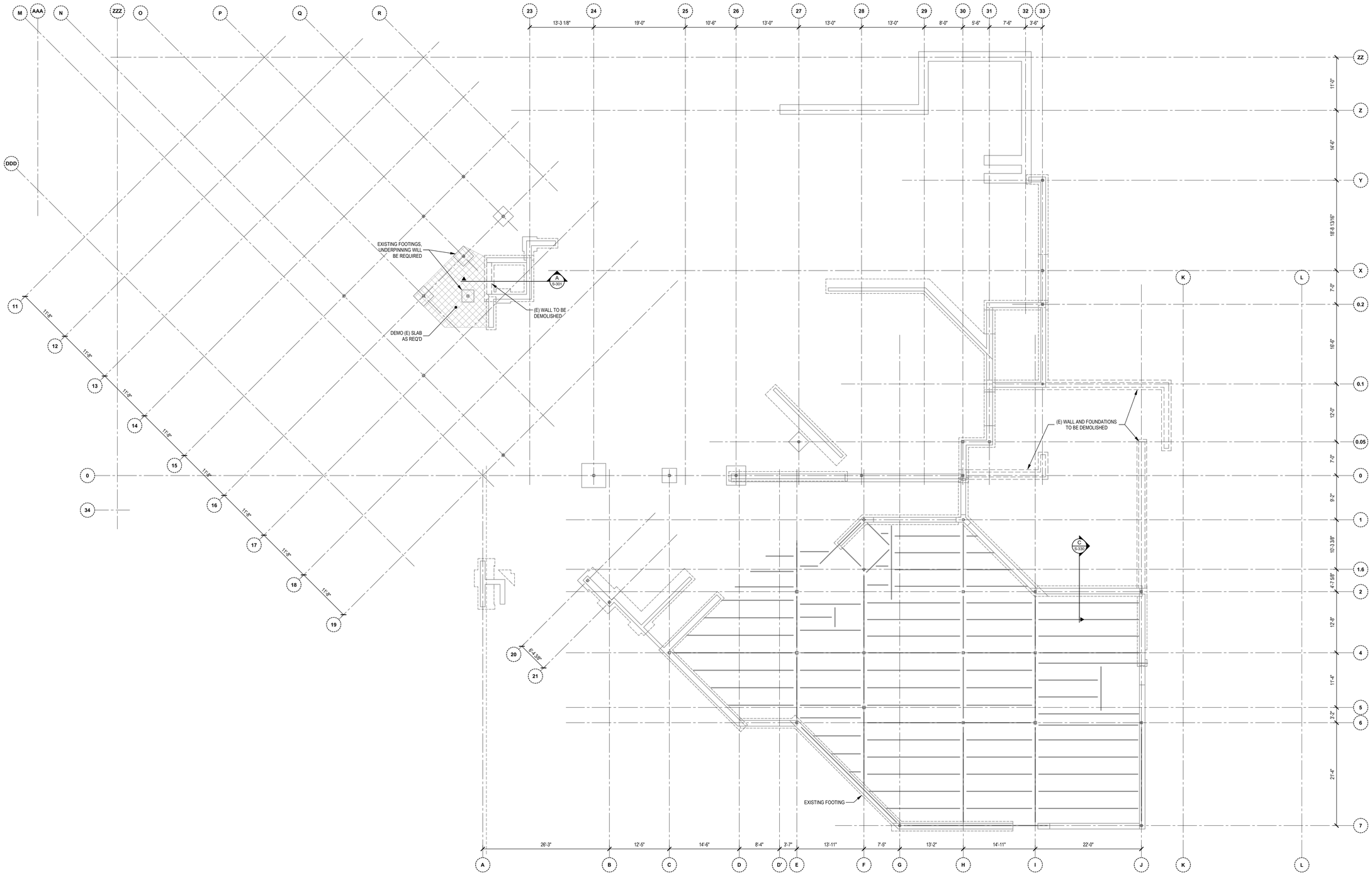
GRAPHIC SCALE - 12" = 1'-0"
0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

GENERAL PROJECT INFORMATION

S-002



FOUNDATION DEMO PLAN

1/8" = 1'-0"

FOUNDATION PLAN DEMO NOTES:

1. SEE DEMO NOTES ON GENERAL NOTES, S-001
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMO NOTES.

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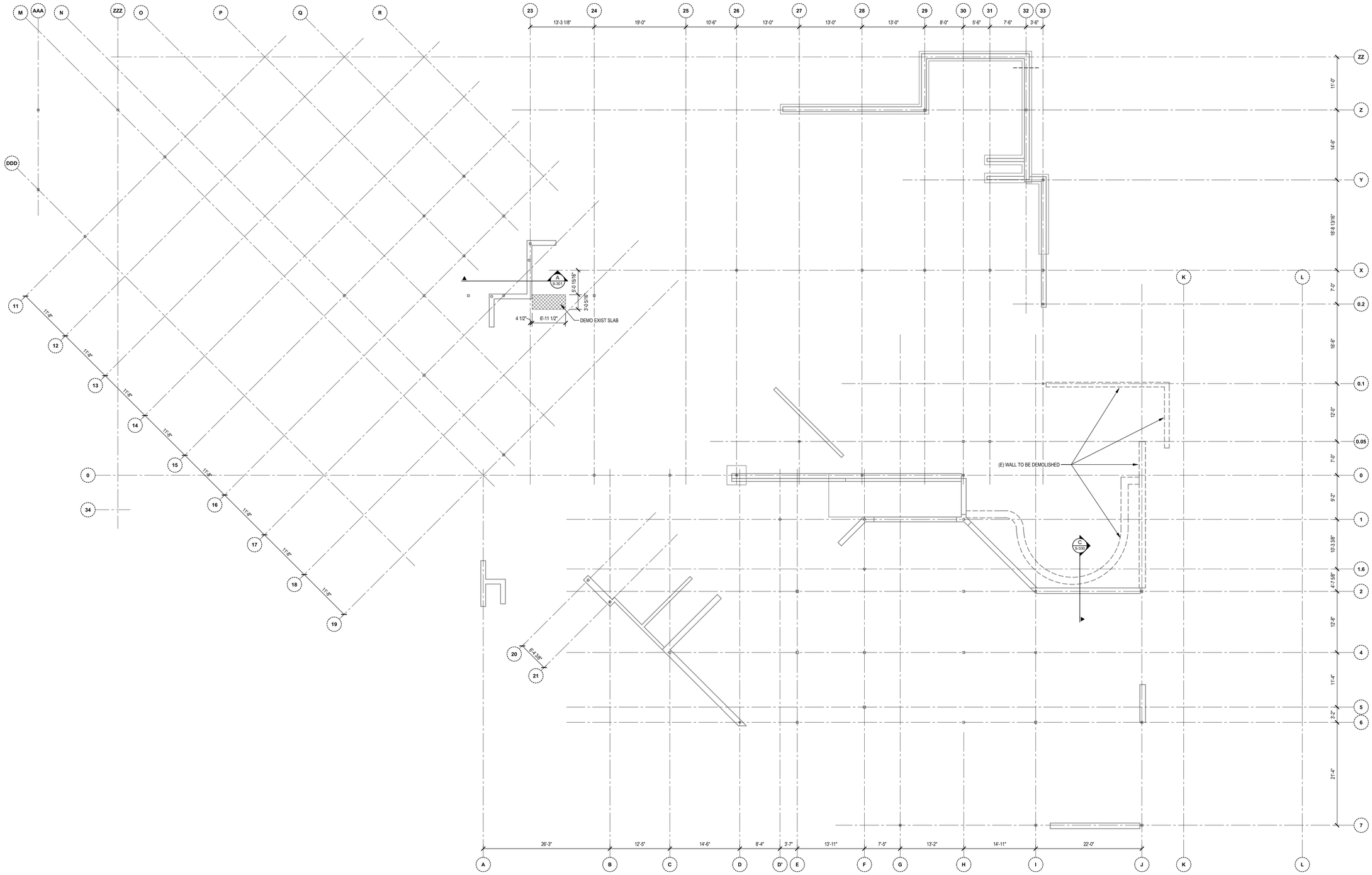
GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

FOUNDATION DEMO PLAN

D-100



MAIN LEVEL DEMO PLAN

1/8" = 1'-0"

PLAN DEMO NOTES:

1. SEE DEMO NOTES ON GENERAL NOTES, S-001
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMO NOTES.

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GRAPHIC SCALE - 12" = 1'-0"

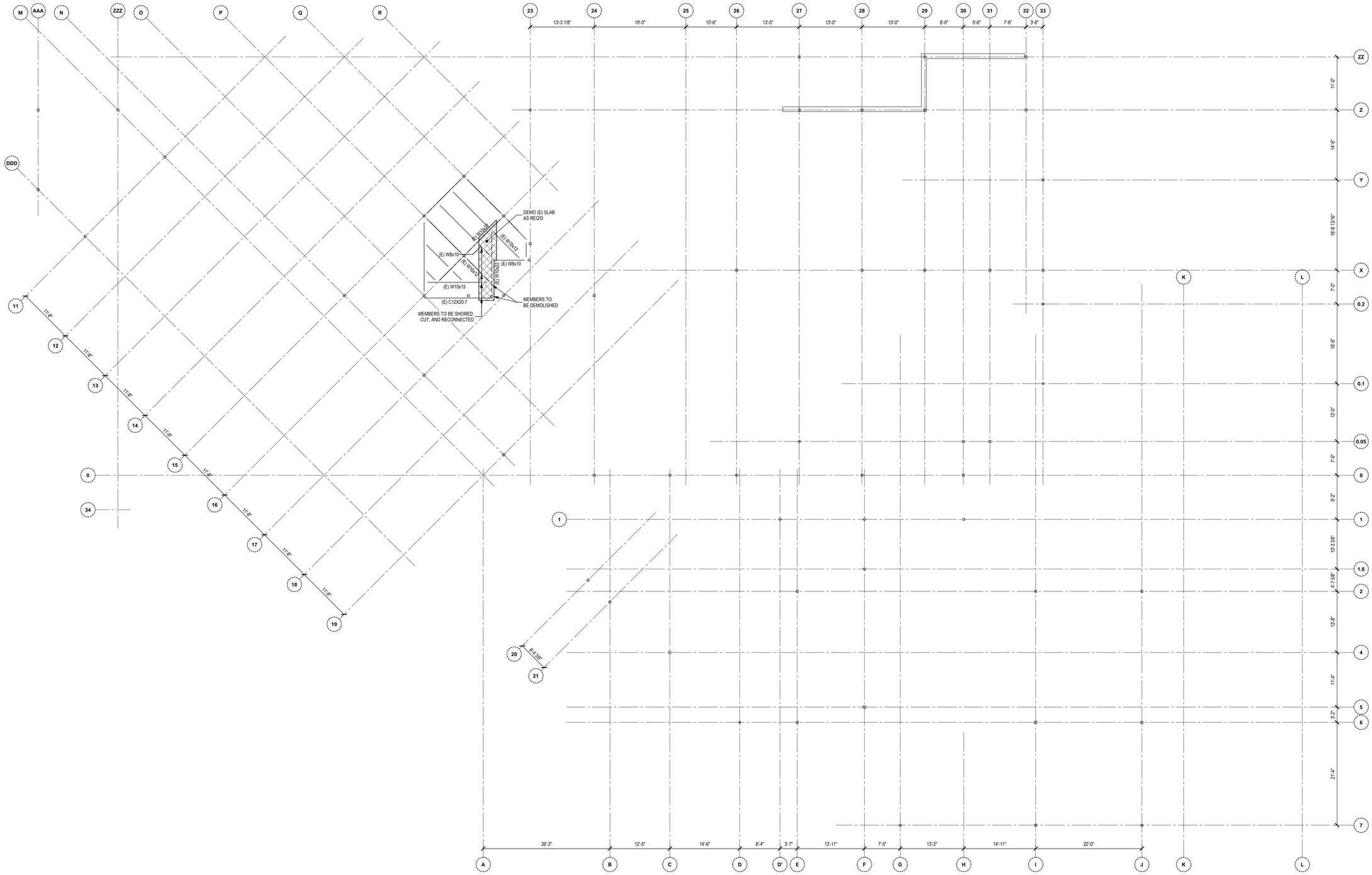
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

MAIN LEVEL DEMO PLAN

D-101



MEZZANINE LEVEL DEMO PLAN

1/8" = 1'-0"

PLAN DEMO NOTES:

1. SEE DEMO NOTES ON GENERAL NOTES, S-001
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMO NOTES.

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Checked By AK
Drawn By PZ

GRAPHIC SCALE - 12" = 1'-0"

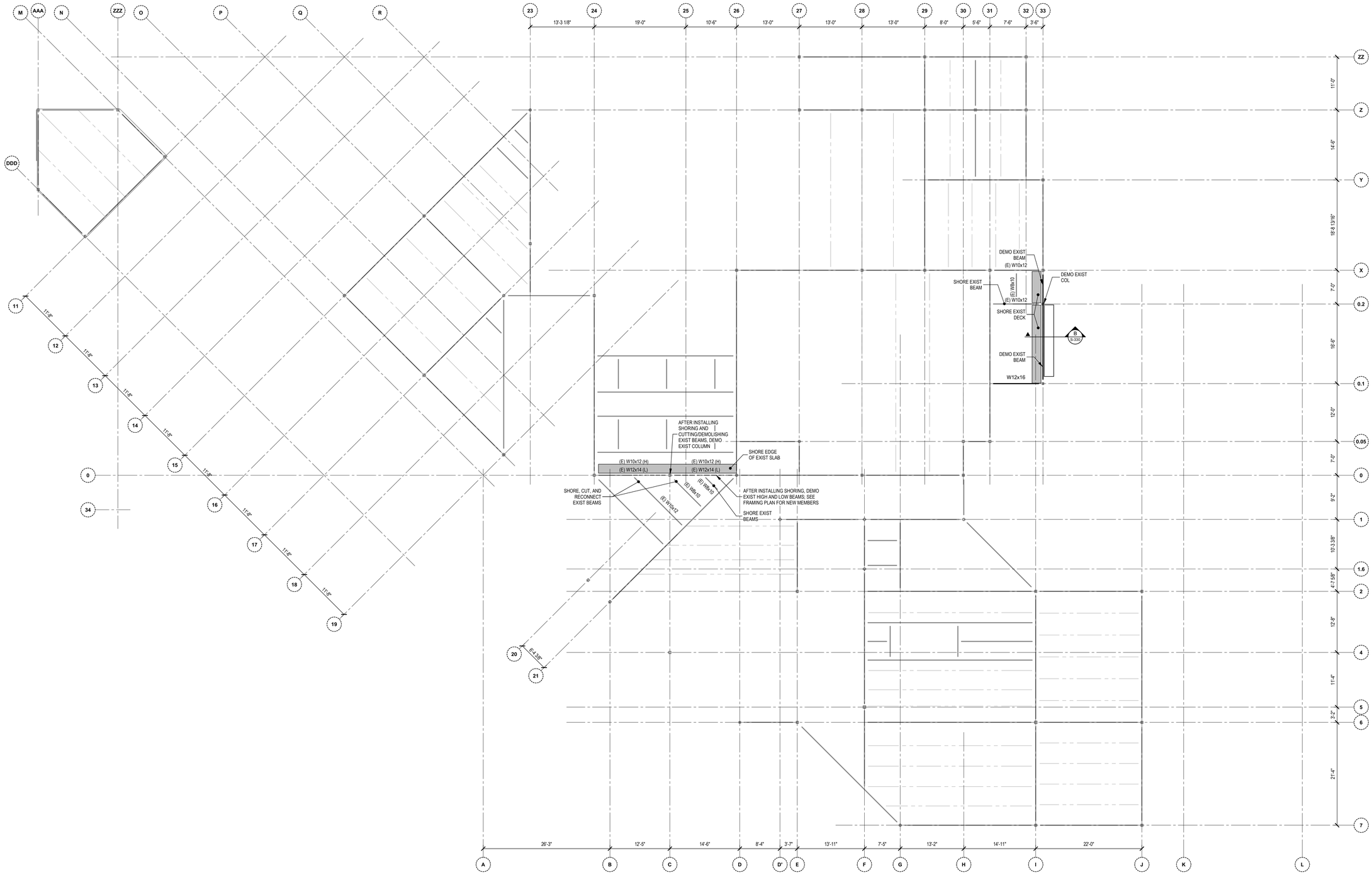
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

MEZZANINE LEVEL DEMO PLAN

D-102



MAIN ROOF DEMO PLAN

1/8" = 1'-0"

PLAN DEMO NOTES:

1. SEE DEMO NOTES ON GENERAL NOTES, S-001
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMO NOTES.

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Client Project Number
VMDO Project Number 201049

STATE OF NEW YORK · THOMAS W. BROWN · No. 065994 · LICENSED PROFESSIONAL ENGINEER

Checked By AK
Drawn By PZ

GRAPHIC SCALE - 12" = 1'-0"

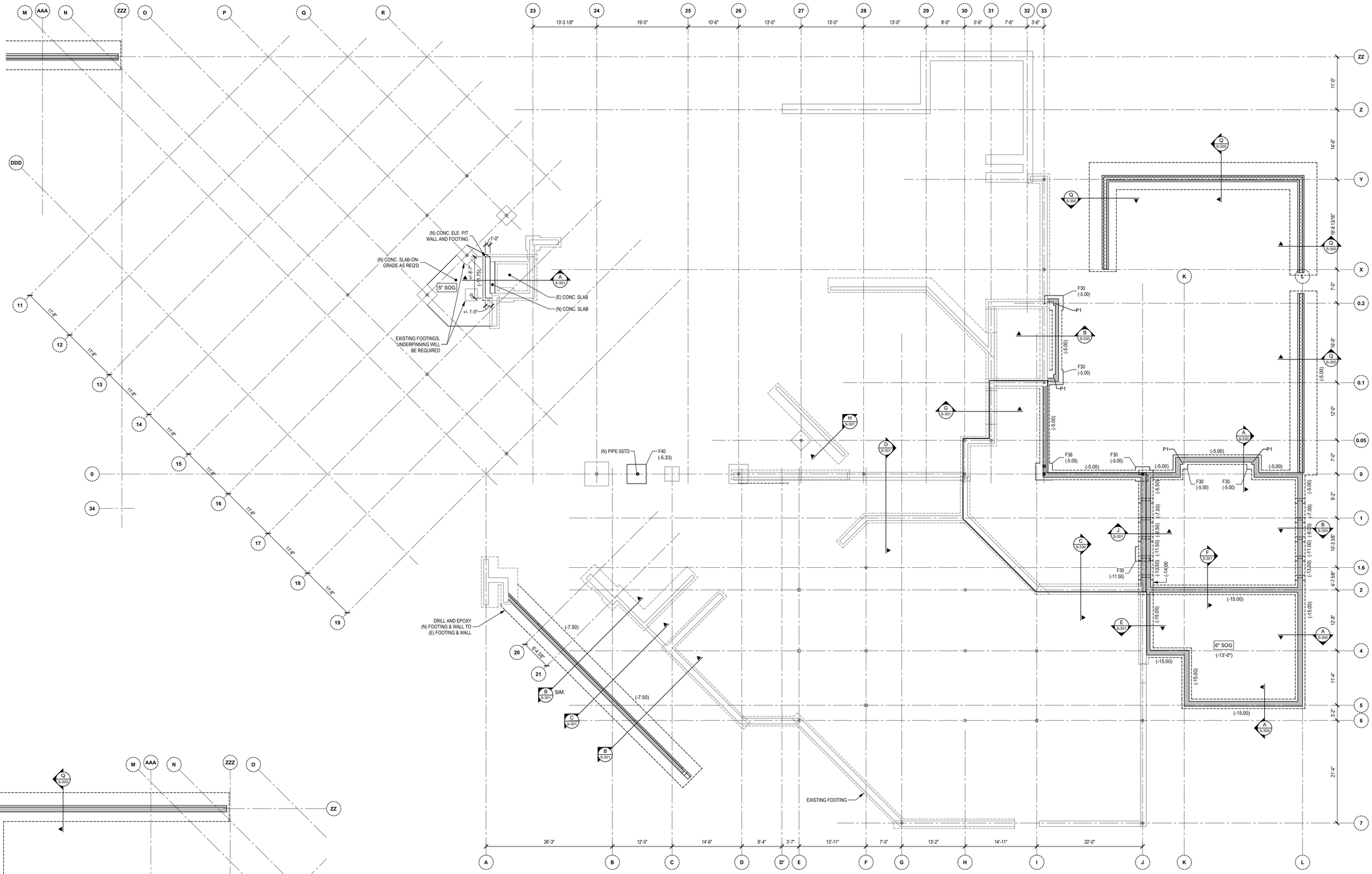
0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

ROOF LEVEL DEMO PLAN

D-103



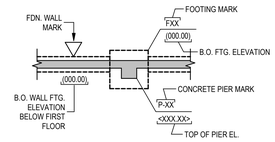
FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE (4ksf BEARING)					
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT	REMARKS
F30	3'-0"	3'-0"	1'-0"	(4)-#4 E.W. (BOT.)	
F36	3'-6"	3'-6"	1'-0"	(5)-#4 E.W. (BOT.)	

CONCRETE PIER SCHEDULE					
MARK	SIZE	REINFORCEMENT			REMARKS
		VERT. BARS	TIE SIZE	TIE SPACING	
P1	12" x 12"	(8)-#5	#3	12" O.C.	

FOUNDATION PLAN LEGEND

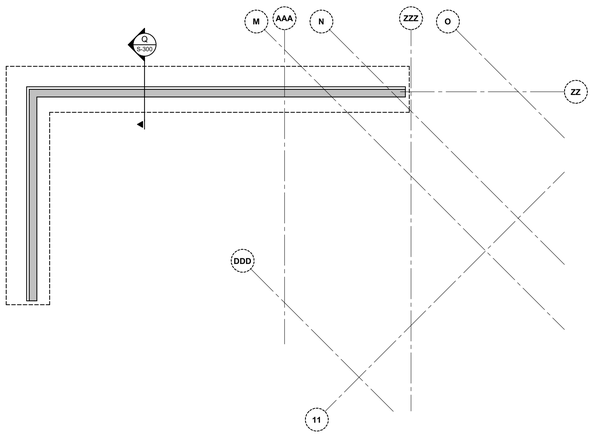


FOUNDATION WALL TYPE:

- REINFORCED CONCRETE
- CMU (ASTM C-90 BLOCK)
- WALL BELOW SLAB (REFER TO MARK OR DETAIL)

FOUNDATION PLAN NOTES

1. DATUM ELEVATION = 134.50 (NAVD 88).
   A. ELEVATIONS INDICATED ON PLAN THUS: ◆ (-1') ARE IN RELATION TO THIS DATUM ELEVATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, EXTENTS, AND DEPTHS OF SLAB DEPRESSIONS.
3. SLAB ON GRADE SHALL BE 6" NORMALWEIGHT CONCRETE REINFORCED WITH 6"x6"-W2.1/W2.1 WWF OVER 10-MIL VAPOR BARRIER OVER 6" POROUS FILL.
   A. SEE GENERAL NOTES FOR CONCRETE STRENGTHS AND ADDITIONAL REQUIREMENTS.
   B. PROVIDE CONTROL JOINTS IN SLAB IN ACCORDANCE WITH DETAIL M / S-300. SPACING BETWEEN JOINTS SHALL NOT EXCEED 15'-0".
   C. PROVIDE ISOLATION JOINTS AT COLUMNS IN ACCORDANCE WITH DETAIL N / S-300 .
   D. PROVIDE MACRO-SYNTHETIC FIBER REINFORCING IN LIEU OF STEEL REINFORCING SPECIFIED ABOVE AT CONTRACTOR'S OPTION. REFER TO SPECIFICATIONS.
4. UNLESS OTHERWISE NOTED, WALL FOOTINGS SHALL BE 12" THICK BY THE WIDTH OF THE WALL PLUS 12" (6" PROJECTION ON EACH SIDE OF WALL) REINFORCED WITH 2-#5 CONT.
5. COORDINATE FLOOR SLOPES AND FLOOR DRAIN LOCATIONS WITH ARCH. AND MEP DRAWINGS.
6. DO NOT BACKFILL CONCRETE BASEMENT WALLS PRIOR TO FRAMED LEVEL SLAB AT TOP OF WALL BEING IN PLACE WITHOUT TEMPORARY WALL BRACING. DESIGN OF TEMPORARY SHORING TO BE PROVIDED BY THE CONTRACTOR.
7. COORDINATE SIZE AND LOCATIONS OF ALL FLOOR DRAINS AND SLAB PENETRATIONS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. OPENINGS SHALL BE REINFORCED OR SUPPORTED IN ACCORDANCE WITH DETAIL L / S-310 UNLESS OTHERWISE NOTED.



FOUNDATION PLAN PART PLAN - SOUTH GL. AAA

1/8" = 1'-0"

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Drawn By	DAB

GRAPHIC SCALE - 12" = 1'-0"

0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

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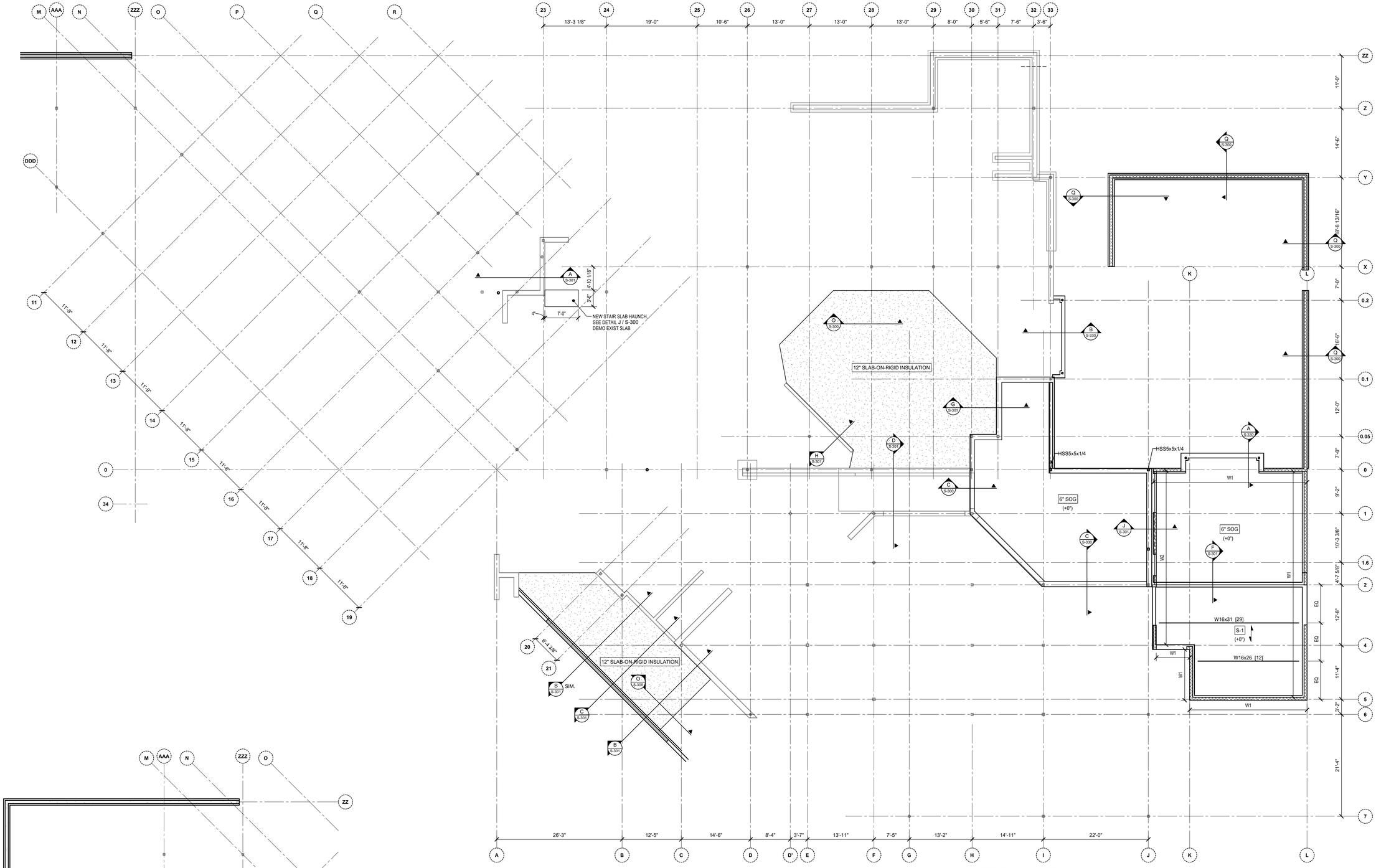
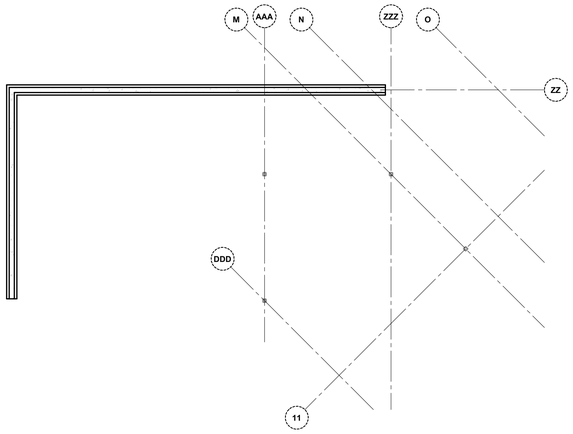
FOUNDATION PLAN

S-100



MAIN LEVEL PART PLAN - SOUTH OF GL. AAA

1/8" = 1'-0"

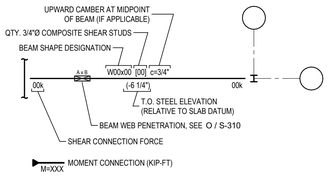


MANSONRY WALL REINFORCEMENT SCHEDULE		
WALL MARK	WALL THICKNESS	VERTICAL REINFROCEMENT
W1	8"	#5@16
W2	8"	#5@8

MAIN LEVEL FRAMING PLAN

1/8" = 1'-0"

STEEL FRAMING SYMBOL LEGEND



PLAN NOTES:

1. DATUM ELEVATION = 147.50 (NAVD 88).
   A. ELEVATIONS INDICATED ON PLAN THUS: (-1") ARE IN RELATION TO THIS DATUM ELEVATION.
   B. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, EXTENTS, AND DEPTHS OF SLAB DEPRESSIONS.
2. TOP OF STEEL DATUM ELEVATION = 000.00 (NAVD 88).
3. ELEVATION TOP OF STEEL BEAMS AND BOTTOM OF ROOF DECK INDICATION ON PLAN THUS (-0") IS MEASURED FROM ELEVATION 000.00
4. STRUCTURAL SLAB SHALL BE 3 1/2" LIGHTWEIGHT CONCRETE REINFORCED WITH 6"x6"-W2.1xW2.1 WWF OVER 3"x18 GAGE COMPOSITE METAL DECK (TOTAL THICKNESS = 6 1/2").
5. 3/4" Ø x 4 1/2" LONG COMPOSITE SHEAR STUDS SHALL BE RESISTANCE WELDED THROUGH METAL DECK TO THE TOP FLANGE OF THE STEEL FRAMING. PROVIDE A MINIMUM OF (1) STUD PER FOOT UNLESS OTHERWISE NOTED.
6. STRUCTURAL ROOF DECK SHALL BE 1.5" x 18 GAGE TYPE B GALVANIZED METAL ROOF DECK.
7. COORDINATE SIZE AND LOCATIONS OF ALL FLOOR DRAINS AND SLAB PENETRATIONS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. OPENINGS SHALL BE REINFORCED OR SUPPORTED IN ACCORDANCE WITH DETAIL L / S-310 UNLESS OTHERWISE NOTED.
8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LCOATION AND SIZES OF ROOF PENETRATIONS. PROVIDE SUPPORT FOR DECK AT OPENINGS AS SHOWN IN DETAIL L / S-310 .

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GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

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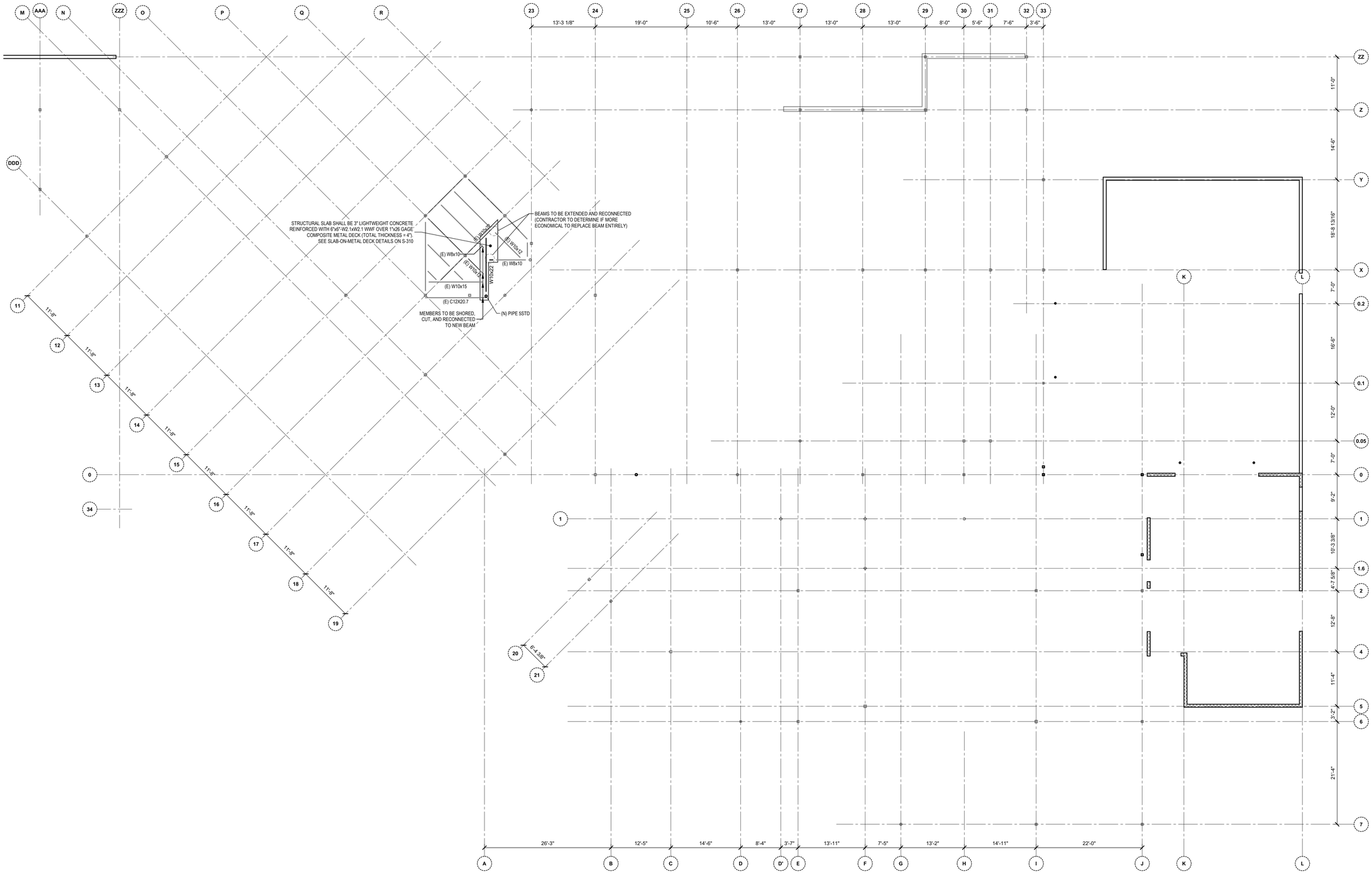
MAIN LEVEL FRAMING PLAN

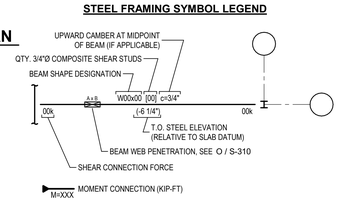
S-101



MEZZANINE LEVEL FRAMING PLAN

1/8" = 1'-0"

STEEL FRAMING SYMBOL LEGEND



PLAN NOTES:

1. DATUM ELEVATION = 147.50 (NAVD 88).
   A. ELEVATIONS INDICATED ON PLAN THUS: ◆ (-1") ARE IN RELATION TO THIS DATUM ELEVATION.
   B. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, EXTENTS, AND DEPTHS OF SLAB DEPRESSIONS.
2. TOP OF STEEL DATUM ELEVATION = 000.00 (NAVD 88).
3. ELEVATION TOP OF STEEL BEAMS AND BOTTOM OF ROOF DECK INDICATION ON PLAN THUS (-0") IS MEASURED FROM ELEVATION 000.00
4. STRUCTURAL SLAB SHALL BE 3 1/2" LIGHTWEIGHT CONCRETE REINFORCED WITH 6"x6"-W2.1xW2.1 WWF OVER 3"x18 GAGE COMPOSITE METAL DECK (TOTAL THICKNESS = 6 1/2").
5. 3/4" Ø x 4 1/2" LONG COMPOSITE SHEAR STUDS SHALL BE RESISTANCE WELDED THROUGH METAL DECK TO THE TOP FLANGE OF THE STEEL FRAMING. PROVIDE A MINIMUM OF (1) STUD PER FOOT UNLESS OTHERWISE NOTED.
6. STRUCTURAL ROOF DECK SHALL BE 1.5" x 18 GAGE TYPE B GALVANIZED METAL ROOF DECK.
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8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LCOATION AND SIZES OF ROOF PENETRATIONS. PROVIDE SUPPORT FOR DECK AT OPENINGS AS SHOWN IN DETAIL L / S-310 .

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GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

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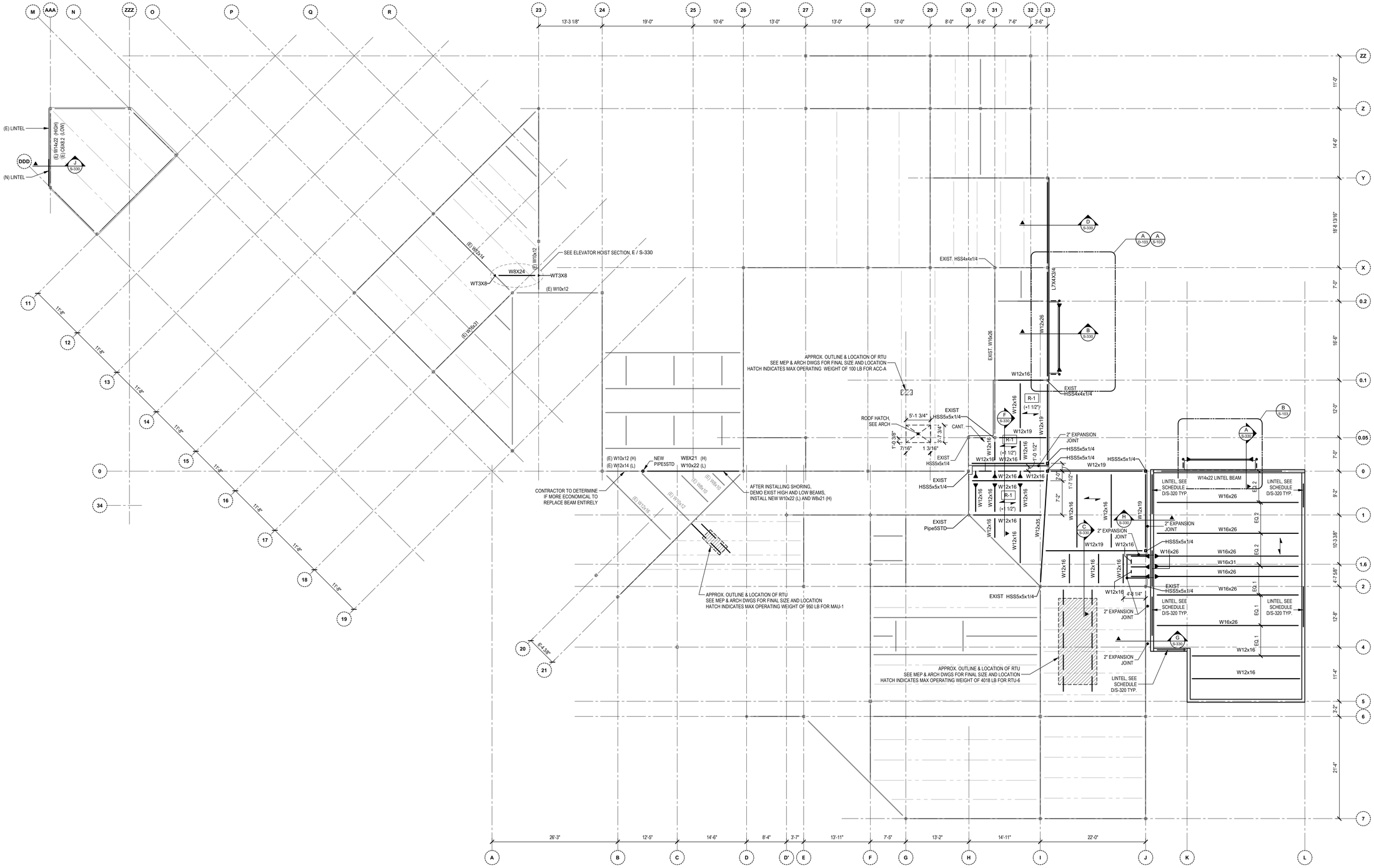
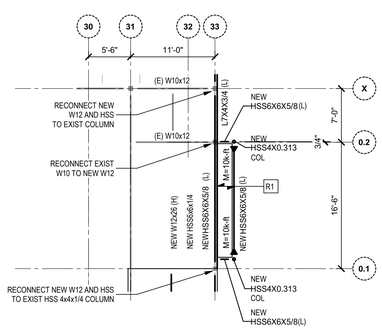
MEZZANINE LEVEL FRAMING PLAN

S-102



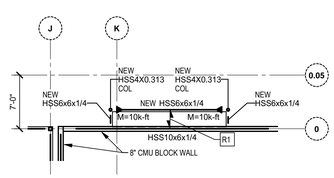
MAIN ROOF FRAMING PLAN

1/8" = 1'-0"



A MEETING ROOM SF - NEW CONSTRUCTION

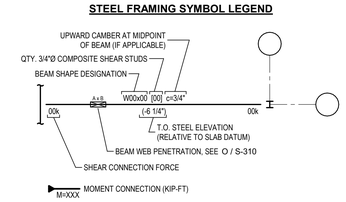
S-103 1/8" = 1'-0"



B CHILDREN'S MEETING ROOM SF - NEW CONSTRUCTION

S-103 1/8" = 1'-0"

STEEL FRAMING SYMBOL LEGEND



PLAN NOTES:

1. DATUM ELEVATION = 147.50 (NAVD 88).
   A. ELEVATIONS INDICATED ON PLAN THUS: (-1") ARE IN RELATION TO THIS DATUM ELEVATION.
   B. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, EXTENTS, AND DEPTHS OF SLAB DEPRESSIONS.
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5. 3/4" Ø x 4 1/2" LONG COMPOSITE SHEAR STUDS SHALL BE RESISTANCE WELDED THROUGH METAL DECK TO THE TOP FLANGE OF THE STEEL FRAMING. PROVIDE A MINIMUM OF (1) STUD PER FOOT UNLESS OTHERWISE NOTED.
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8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LCOATION AND SIZES OF ROOF PENETRATIONS. PROVIDE SUPPORT FOR DECK AT OPENINGS AS SHOWN IN DETAIL L / S-310 .

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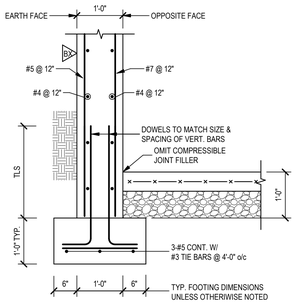
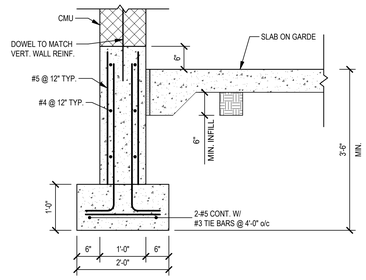
ROOF LEVEL FRAMING PLAN

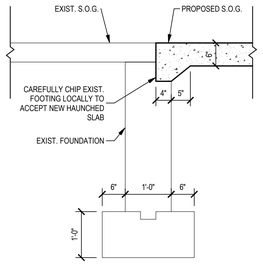
S-103



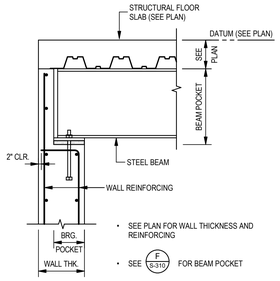
A S-300 BASEMENT WALL FOOTING
3/4" = 1'-0"



B S-300 TYPICAL FOUNDATION WALL DETAIL
3/4" = 1'-0"

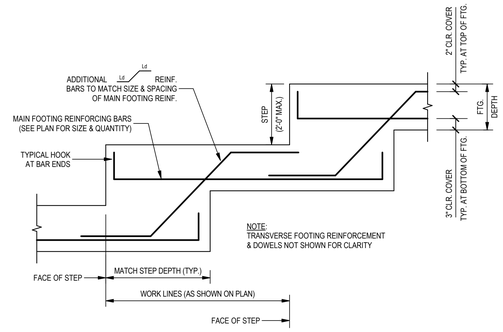


C S-300 NEW SLAB ON GRADE ON EXIST. FOUNDATION
3/4" = 1'-0"

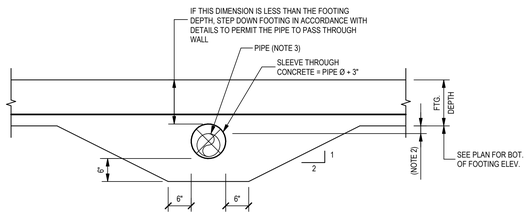


- SEE PLAN FOR WALL THICKNESS AND REINFORCING
- SEE F/S-310 FOR BEAM POCKET

D S-300 TYP. STEEL BEAM BEARING AT FOUNDATION WALL
3/4" = 1'-0"



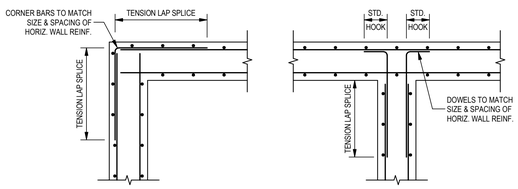
E S-300 STEPPED WALL FOOTING
3/4" = 1'-0"



NOTES:

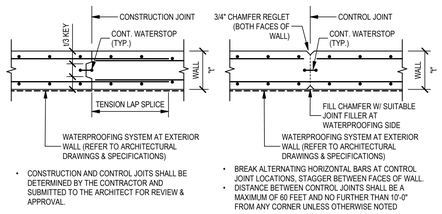
1. TRANSVERSE FOOTING REINFORCEMENT & DOWELS NOT SHOWN FOR CLARITY.
2. WHEN PIPE IS MORE THAN 12" BELOW THE BOTTOM OF FOOTING ELEVATION SHOWN ON PLAN, STEP FOOTING DOWN TO PERMIT PIPE TO PASS DIRECTLY BELOW FOOTING AS SHOWN ABOVE.
3. SEE MEP AND CIVIL DRAWINGS FOR SIZE, LOCATION, AND ELEVATION OF PIPES.

F S-300 PIPE THROUGH WALL FOOTING
3/4" = 1'-0"



WALL CORNER

WALL INTERSECTION



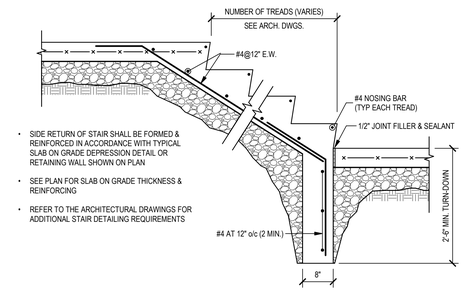
- CONSTRUCTION AND CONTROL JOITS SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT FOR REVIEW & APPROVAL.

CONSTRUCTION JOINT

- BREAK ALTERNATING HORIZONTAL BARS AT CONTROL JOINT LOCATIONS, STAGGER BETWEEN FACES OF WALL.
- DISTANCE BETWEEN CONTROL JOINTS SHALL BE A MAXIMUM OF 60 FEET AND NO FURTHER THAN 10'-0" FROM ANY CORNER UNLESS OTHERWISE NOTED

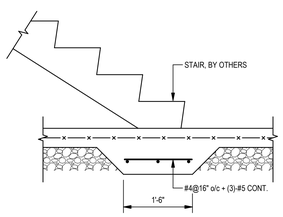
CONTROL JOINT

G S-300 TYPICAL CONCRETE WALL DETAILS
3/4" = 1'-0"

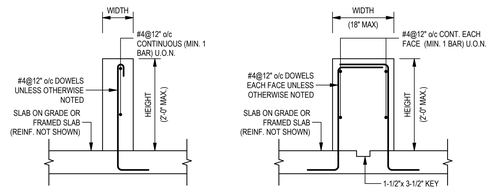


- SIDE RETURN OF STAIR SHALL BE FORMED & REINFORCED IN ACCORDANCE WITH TYPICAL SLAB ON GRADE DEPRESSION DETAIL OR RETAINING WALL SHOWN ON PLAN
- SEE PLAN FOR SLAB ON GRADE THICKNESS & REINFORCING
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL STAIR DETAILING REQUIREMENTS

H S-300 TYPICAL EXTERIOR SOG STAIR
3/4" = 1'-0"



J S-300 STAIR ON THICKENED SOG
3/4" = 1'-0"

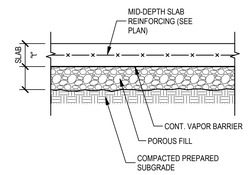


WIDTH = 8" OR LESS

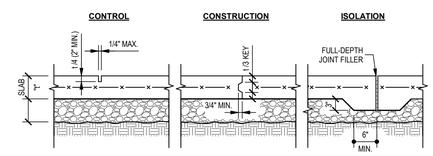
WIDTH GREATER THAN 8"

- REFER TO ARCHITECTURAL DRAWINGS, STRUCTURAL PLANS AND DETAILS FOR SIZES AND LOCATIONS OF CURBS
- DOWELS MAY BE POST-INSTALLED INTO BASE SLAB USING HILTI HY-200 ADHESIVE WITH A MINIMUM EMBEDMENT OF 5"

K S-300 TYP. CONCRETE CURB DETAILS
3/4" = 1'-0"

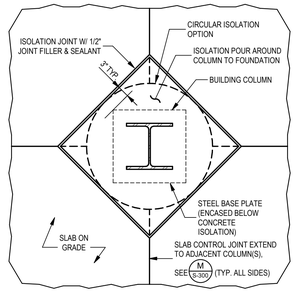


L S-300 TYPICAL SLAB ON GRADE
3/4" = 1'-0"

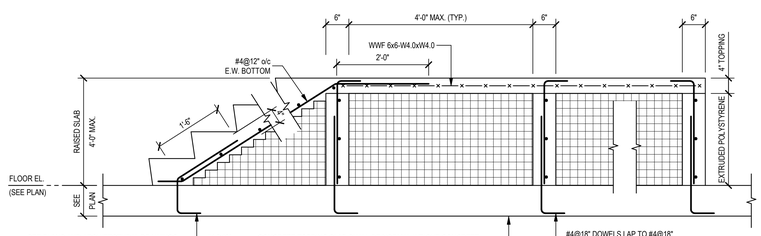


- CONTRACTOR TO PROVIDE A JOINT LAYOUT DRAWING FOR REVIEW AND APPROVAL OF THE ARCHITECT AND ENGINEER PRIOR TO PLACING THE SLAB
- MAXIMUM CONTROL JOINT SPACING = 36 x "t"
- CONSTURCTION JOINTS SHALL BE BULKHEADED AND DEFINE THE LIMITS OF THE POUR PANELS
- SAW-CUT CONTROL JOINTS SHALL BE PLACED WITH 12-HOURS OF CONCRETE PLACEMENT

M S-300 TYP. SLAB ON GRADE JOINTS
3/4" = 1'-0"



N S-300 SOG COL. ISOLATION - STEEL COL.
3/4" = 1'-0"



- SEE PLANS AND ARCHITECTURAL DRAWINGS FOR EXTENT AND DIMENSIONS OF RAISED SLAB
- SEE ARCHITECTURAL DRAWINGS FOR NUMBER OF RISERS, TREADS, AND DIMENSIONS
- PROVIDE DETAIL WHERE OVERALL HEIGHT OF RAISED SLAB IS GREATER THAN 1'-0"
- CAN PROVIDE DRILLED AND EPOXY ALT.

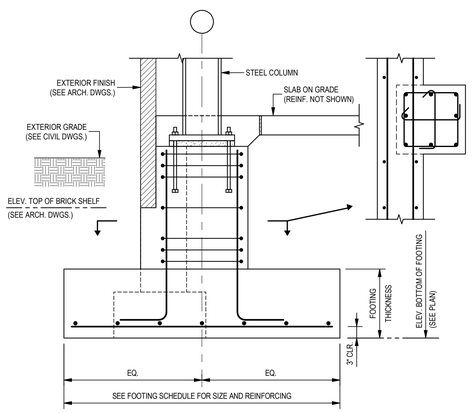
#4@12" DOWELS

- CONCRETE TOPPING SLAB SHALL BE NORMAL WEIGHT CONCRETE
- FILL BELOW TOPPING SLAB SHALL BE OWENS CORNING FOAMULAR 400 HIGH DENSITY EXTRUDED POLYSTYRENE RIGID INSULATION OR APPROVED EQUIVALENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 40 PSI (PER ASTM D1621), MINIMUM COMPRESSIVE MODULUS OF 1,400 PSI (PER ASTM D1621), AND MINIMUM FOUNDATION MODULUS "K" OF 300 PCI

#4@18" DOWELS LAP TO #4@18" VERTICAL BARS + #4@12" CONT. HORIZ. BARS

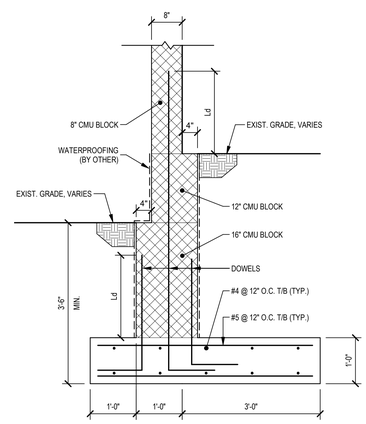
STRUCTURAL FLOOR SLAB OR SIDEWALK SLAB (REINFORCING NOT SHOWN FOR CLARITY)

O S-300 TYPICAL SLAB-ON-RIGID INSULATION DETAIL
3/4" = 1'-0"



CONCRETE PEDESTAL SCHEDULE						
MARK	SIZE	REINFORCING				
		VERT. BARS	TIE SIZE	SPACING	TOP TIES	BOT. TIES
P1	12"x12"	(4)-#6	#3	9" O.C.	(3) @ 3"	(3) @ 3"

P S-300 TYPICAL FOOTING AT EXTERIOR STEEL COLUMN
3/4" = 1'-0"



NOTE:
SEE MASONRY SCHEDULE FOR REINF.

Q S-300 WALL DETAIL
3/4" = 1'-0"

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Client Project Number
VMDO Project Number 201049

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Drawn By DAB

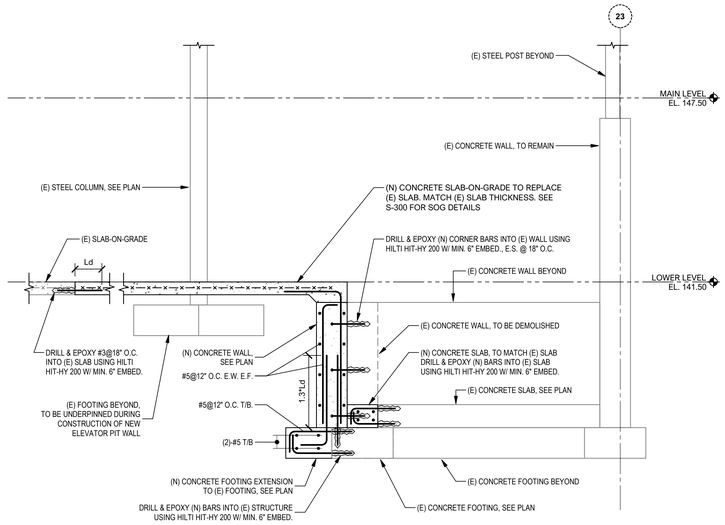
GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

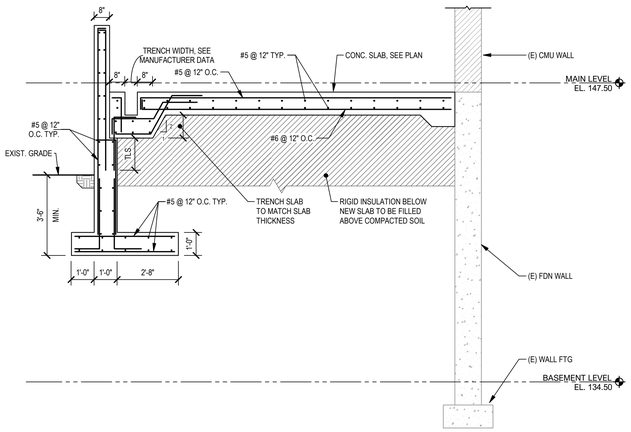
NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

TYP FOUNDATION DETAILS

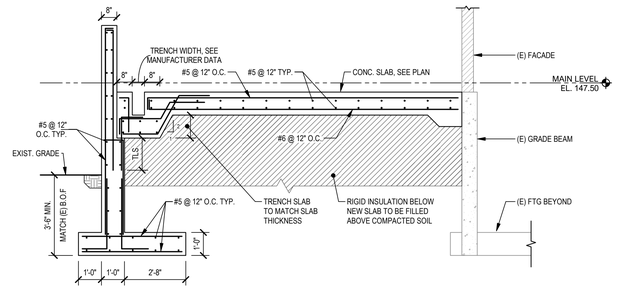
S-300



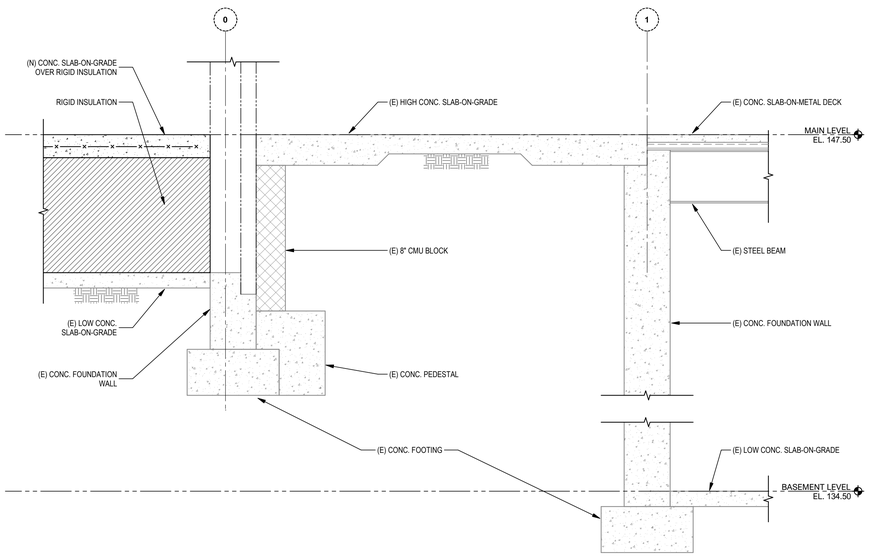
A S-301 **ELEVATOR PIT SECTION**
1/2" = 1'-0"



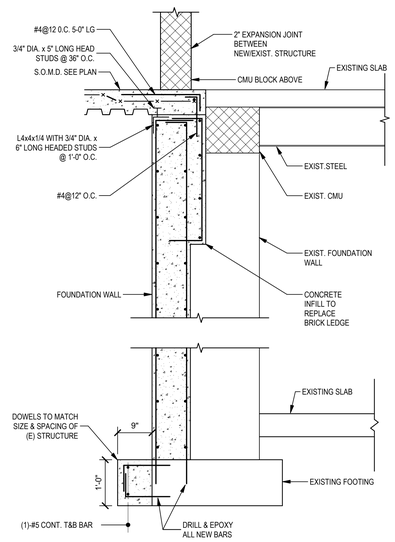
B S-301 **TERRACE STAIR DETAIL 1**
3/8" = 1'-0"



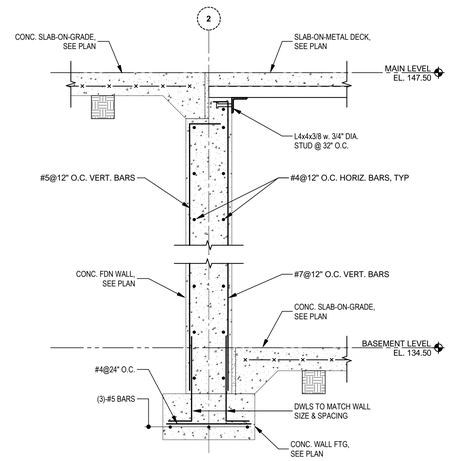
C S-301 **TERRACE STAIR DETAIL 2**
3/8" = 1'-0"



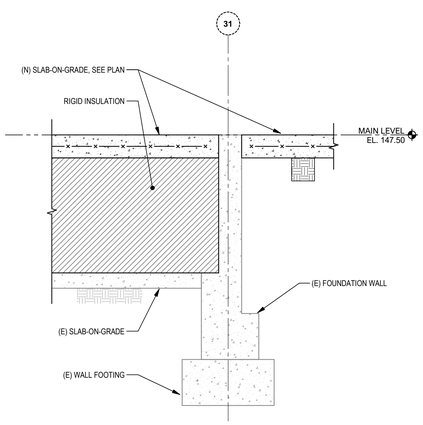
D S-301 **SLAB INFILL SECTION - 1**
3/4" = 1'-0"



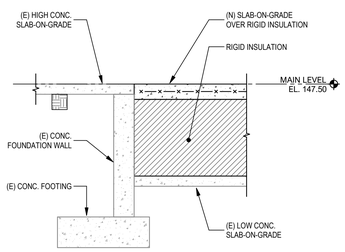
E S-301 **TYPICAL FOOTING DETAIL AT EXISTING FOOTING**
3/4" = 1'-0"



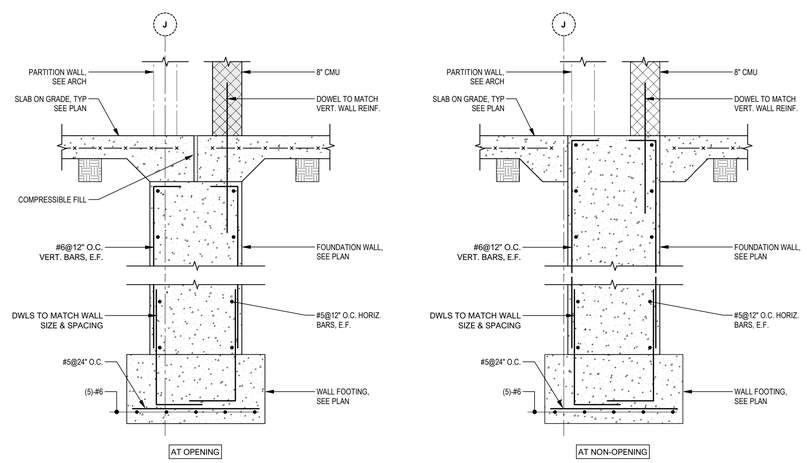
F S-301 **FOUNDATION WALL SECTION AT BASEMENT**
3/4" = 1'-0"



G S-301 **SLAB INFILL SECTION - 2**
3/4" = 1'-0"



H S-301 **SLAB INFILL SECTION - 3**
1/2" = 1'-0"



J S-301 **FOUNDATION WALL SECTION AT CHILDREN'S MEETING ROOM**
3/4" = 1'-0"

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Checked By	AK
Drawn By	PZ

GRAPHIC SCALE - 12" = 1'-0"
0 · 0' - 1" · 0' - 2" · 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

TYP FOUNDATION DETAILS

S-301

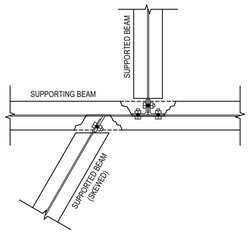


TABLE #2		
BEAM SIZE	MIN. ROWS OF BOLTS	MIN. SHEAR CAPACITY (ASD)
W8, C8, C9	2	10 k
W10, C10	2	15 k
W12, C12	3	25 k
W14, C15	3	35 k
W16	3	45 k
W18	3	60 k
W21	4	70 k
W24	4	75 k
W27	5	90 k
W30	5	115 k
W33	6	135 k
W36	6	160 k
W40	6	185 k
W44	7	210 k

- PROVIDE STANDARD AISC DOUBLE ANGLE CONNECTIONS OR SINGLE PLATE CONNECTIONS AT ALL BEAM TO BEAM CONNECTIONS
- ALL SHEAR CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR BASED ON THE SHEAR VALUES INDICATED ON FRAMING PLANS. IF NO REACTIONS ARE INDICATED, CONNECTIONS SHALL BE DESIGNED FOR THE MINIMUM REQUIREMENTS INDICATED IN TABLE #2 (ABOVE)
- CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW UNDER SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT
- CONNECTION DESIGNS SHALL BE BASED ON THE PROVISIONS OF PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION (SEE GENERAL NOTES FOR EDITION)
- BOLTS STRENGTH BASED ON BEARING CAPACITY UNLESS OTHERWISE NOTED
- ALL HSS CONNECTIONS TO BE DESIGNED FOR 15 KIPS SHEAR UNLESS OTHERWISE NOTED.

A S-310 TYP. SHEAR CONNECTION AT BEAM
3/4" = 1'-0"

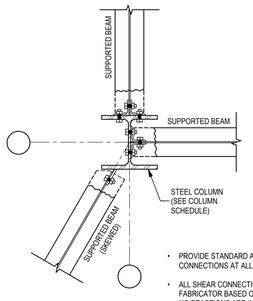
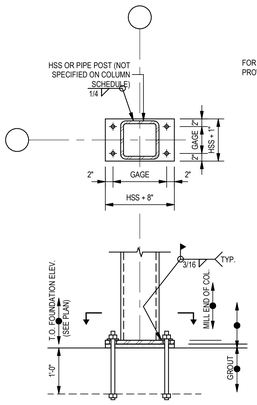


TABLE #1		
BEAM SIZE	MIN. ROWS OF BOLTS	MIN. SHEAR CAPACITY (ASD)
W8, C8, C9	2	10 k
W10, C10	2	15 k
W12, C12	3	25 k
W14, C15	3	35 k
W16	4	45 k
W18	5	60 k
W21	6	70 k
W24	7	75 k
W27	7	90 k
W30	8	115 k
W33	9	135 k
W36	10	160 k
W40	11	185 k
W44	12	210 k

- PROVIDE STANDARD AISC DOUBLE ANGLE CONNECTIONS OR SINGLE PLATE CONNECTIONS AT ALL BEAM TO BEAM CONNECTIONS
- ALL SHEAR CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR BASED ON THE SHEAR VALUES INDICATED ON FRAMING PLANS. IF NO REACTIONS ARE INDICATED, CONNECTIONS SHALL BE DESIGNED FOR THE MINIMUM REQUIREMENTS INDICATED IN TABLE #1 (ABOVE)
- CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW UNDER SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT
- CONNECTION DESIGNS SHALL BE BASED ON THE PROVISIONS OF PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION (SEE GENERAL NOTES FOR EDITION)
- BOLTS SHALL BE FULLY PRETENSIONED WITH STRENGTH BASED ON BEARING CAPACITY UNLESS OTHERWISE NOTED

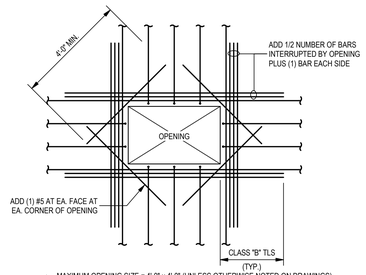
B S-310 TYP. SHEAR CONNECTION AT COLUMN
3/4" = 1'-0"



FOR ALL HSS POSTS NOT SPECIFIED ON COLUMN SCHEDULE, PROVIDE THE FOLLOWING UNLESS OTHERWISE NOTED:

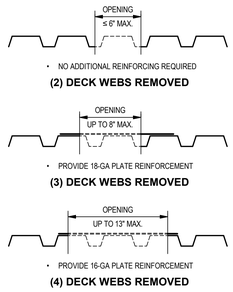
- 1" THK. BASE PLATE (SEE PLAN DETAIL FOR LENGTH & WIDTH) WITH OVERSIZED HOLES
- (4) - 3/4" Ø F1554 GR. 55 "WELDABLE" ANCHOR RODS WITH 3" SQUARE x 1/4" PLATE WASHERS WITH STANDARD HOELS.
- 1" NON-SHRINK GROUT BETWEEN BOTTOM OF BASE PLATE AND TOP OF CONCRETE/FOUNDATION

C S-310 TYP. HSS BASE PLATE DETAIL
3/4" = 1'-0"

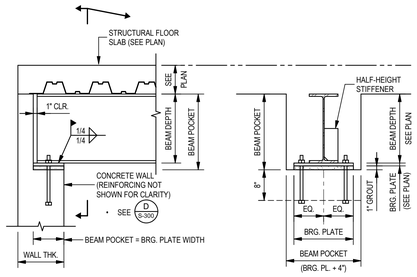


- MAXIMUM OPENING SIZE = 4'-0" x 4'-0" (UNLESS OTHERWISE NOTED ON DRAWINGS)
- SEE ARCH. AND/OR MEP DRAWINGS FOR OPENINGS NOT SHOWN

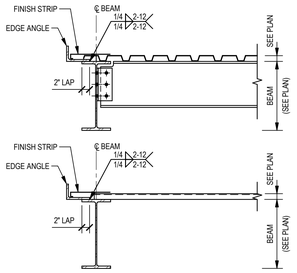
D S-310 TYPICAL CONCRETE WALL OPENING
3/4" = 1'-0"



E S-310 TYP. ROOF DECK OPENING
1 1/2" = 1'-0"

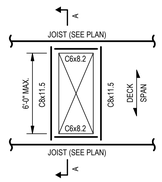


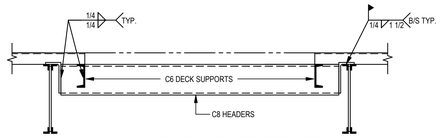
F S-310 TYP. STEEL BEAM BEARING POCKET
3/4" = 1'-0"



- SEE PLAN / DETAIL FOR EDGE ANGLE OR BENT PLATE SIZE
- 20 GAGE. FINISH STRIP TO BE PROVIDED BY METAL DECK SUPPLIER
- FASTEN STRIP TO METAL DECK WITH 1" FILLET WELD OR #10 SHEET METAL SCREWS AT 12" o/c

G S-310 TYP ROOF DECK AT EDGE BEAM
3/4" = 1'-0"

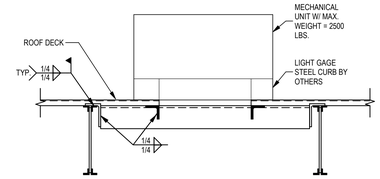




- L8x4x1/2 x 0'-8" CLIP ANGLES (LLV) EACH OF OF HEADERS. SIMPLE SHEAR CONNECTION MAY BE USED IN LIEU OF CLIP ANGLES AT CONTRACTOR'S OPTION
- COORDINATE FRAME DIMENSION WITH ARCHTIECTURAL AND MEP DRAWING REQUIREMENTS. CHANNEL FRAME MAY BE FIELD ASSEMBLED AT CONTRACTOR'S OPTION

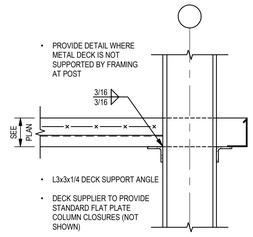
SECTION A-A

H S-310 TYP. METAL ROOF DECK HATCH OPENING
3/4" = 1'-0"



- CONTRACTOR TO COORDINATE DIMESIONS AND LOCATION OF SUPPORT FRAMING WITH MEP DWGS. AND CERTIFIED EQUIPMENT SHOP DRAWINGS
- WERE ROOF TOP UNIT WEIGHT IS LESS THAN 500LBS, REFER TO "TYP ROOF OPENING FRAME DETAIL"

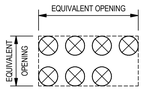
J S-310 TYP. MECH. EQUIP. SUPPORT FRAMING DETAIL
3/4" = 1'-0"



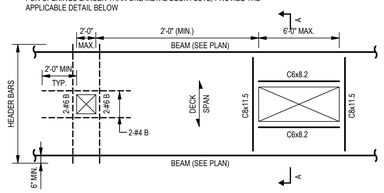
- PROVIDE DETAIL WHERE METAL DECK IS NOT SUPPORTED BY FRAMING AT POST
- L3x3x1/4 DECK SUPPORT ANGLE
- DECK SUPPLIER TO PROVIDE STANDARD FLAT PLATE COLUMN CLOSURES (NOT SHOWN)

K S-310 TYP. SOMD AT POST
3/4" = 1'-0"

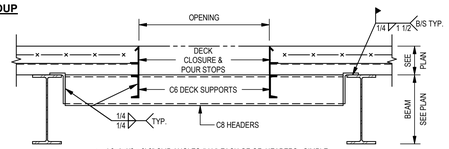
- REINFORCING NOT REQUIRED PROVIDED THE OPENING CAN FIT WITHIN ONE METAL DECK FLUTE & THE CLEAR DISTANCE BETWEEN ADJACENT OPENINGS IS GREATER THAN 2'-0". FOR OPENINGS THAT DO NOT SATISFY THIS CRITERIA, PROVIDE THE APPLICABLE REINFORCING/FRAMED DETAIL BELOW
- MULTIPLE PENETRATIONS GROUPED WITH LESS THAN 2'-0" CLEAR SPACING BETWEEN SHALL BE TREATED AS ONE LARGE OPENING FOR SLAB REINFORCEMENT OR CHANNEL FRAMING
- ANY SLAB REINFORCEMENT INTERRUPTED BY OPENINGS SHALL BE DISTRIBUTED EQUALLY TO EITHER SIDE OF OPENING IN ADDITION TO THE REINFORCEMENT OR OR CHANNEL FRAMING
- FOR OPENINGS LARGER THAN ONE METAL DECK FLUTE, PROVIDE THE APPLICABLE DETAIL BELOW



PENETRATION GROUP



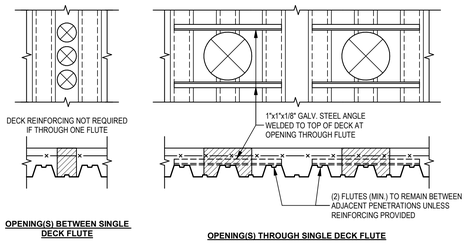
OPENINGS SMALLER THAN 24" x 24" | **OPENINGS LARGER THAN 24" x 24"**



- L8x4x1/2 x 0'-8" CLIP ANGLES (LLV) EACH OF OF HEADERS. SIMPLE SHEAR CONNECTION MAY BE USED IN LIEU OF CLIP ANGLES AT CONTRACTOR'S OPTION
- PROVIDE DECK CLOSURE AND POUR STOPS IN ACCORDANCE WITH TYPICAL SLAB EDGE DETAIL
- COORDINATE FRAME DIMENSION WITH ARCHTIECTURAL AND MEP DRAWING REQUIREMENTS. CHANNEL FRAME MAY BE FIELD ASSEMBLED AT CONTRACTOR'S OPTION

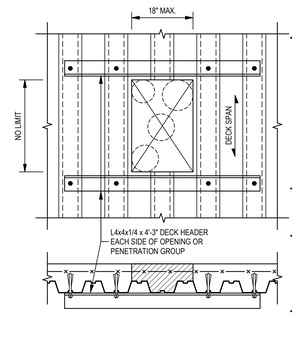
SECTION A-A

L S-310 TYP. SLAB ON METAL DECK OPENING
3/4" = 1'-0"



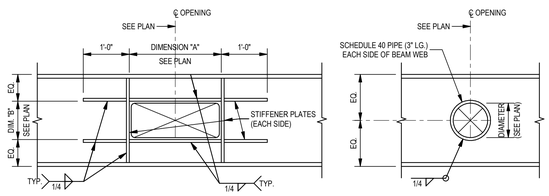
OPENING(S) BETWEEN SINGLE DECK FLUTE | **OPENING(S) THROUGH SINGLE DECK FLUTE**

M S-310 TYP. SLAB ON METAL DECK OPENING (ALT)
3/4" = 1'-0"



- SLEEVES MAY BE CORED THROUGH EXISTING OR IN-PLACE SLABS ON METAL DECK WITHOUT ADDITIONAL REINFORCING (HEADERS) SHOWN ABOVE IF THE FOLLOWING CRITERIA ARE MET:
  A. INDIVIDUAL SLEEVES UP TO 8" DIAMETER AND (3) x DIAMETER CLEAR DISTANCE TO ADJACENT SLEEVES MAY BE INSTALLED AT ANY LOCATION
  B. SINGLE ROW OF SLEEVES UP TO 8" DIAMETER AND AT LEAST (1) x DIAMETER CLEAR DISTANCE FROM ADJACENT SLEEVES IN A LINE OF PARALLEL DECK FLUTES
- WHERE CRITERIA ABOVE IS NOT MET, PROVIDE DECK HEADERS AS SHOWN IN THIS DETAIL. HEADERS SHALL BE IN PLACE PRIOR TO CUTTING OPENING(S).
- WHERE SLAB OPENING OR SLEEVE GROUP IS LARGER THAN PERMITTED IN THIS DETAIL, PROVIDE SECONDARY FRAMING IN ACCORDANCE WITH L S-310
- DECK HEADERS AND/OR SECONDARY FRAMING SHALL BE IN PLACE PRIOR TO CUTTING SLAB & DECK FOR OPENING

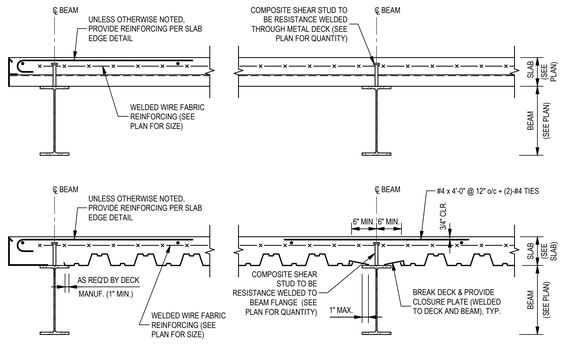
N S-310 TYP. SLAB ON METAL DECK OPENING (POST-INSTALLED ALT)
3/4" = 1'-0"



RECTANGULAR | **CIRCULAR**

- SEE PLAN FOR DIMS "A" & "B", AND PLAN LOCATION OF CENTERLINE OF OPENING(S)
- STIFFENER PLATES SHALL BE 12"x3/4" FOR GIRDERS AND 8"x3/8" FOR FLOOR BEAMS
- WHERE MECHANICAL, ELECTRICAL, AND/OR PLUMBING DRAWINGS SHOW OPENINGS NOT IDENFIED ON THE STRUCTURAL DRAWINGS, NOTIFY THE ARCHITECT IN WRITING FOR DIRECTION
- ALL OPENINGS SHALL BE CENTERED ON THE DEPTH OF THE BEAM UNLESS OTHERWISE NOTED

O S-310 STEEL BEAM WEB PENETATION DETAIL
3/4" = 1'-0"



P S-310 TYP. SLAB ON METAL DECK
3/4" = 1'-0"

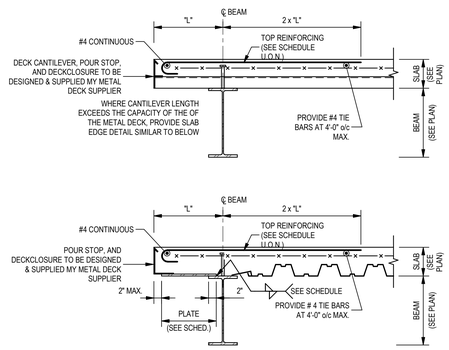


PLATE & REINF. SCHEDULE				
CANTILEVER "L"	PLATE THKNS.	WELD SIZE	WELD PITCH	TOP REINF.
L ≤ 1'-0"	PLATE NOT REQ'D			#4@12
1'-0" < L ≤ 1'-6"	1/4"	3/16	3-12	#4@12
1'-6" < L ≤ 2'-0"	3/8"	1/4	3-12	#4@12
2'-0" < L ≤ 2'-5"	1/2"	1/4	4-12	#4@12

- SEE PLANS FOR LOCATION OF SLAB EDGE, FRAMING, AND SLAB INFORMATION
- THIS DETAIL IS NOT APPLICABLE TO CURTAIN WALL ATTACHMENT LOCATIONS, OR WHERE OSLAB EDGE IS OTHERWISE DETAILED WITH ALTERNATE POUR STOPS
- GAGE METAL POUR STOPS SHALL BE DESIGNED AND SUPPLIED BY THE METAL DECK SUPPLIER (14 GAGE MINIMUM)
- TOP REINFORCING AT SLAB EDGE IS TO BE PROVIDED UNLESS OTHERWISE NOTED ON FRAMING PLANS OR DETAILS
- FOR SLAB EDGE/POUR STOP CONDITIONS AT COLUMNS, SLAB CORNERS, OR OTHER OBSTRUCTIONS, SEE ADDITIONAL TYPICAL DETAILS OR NOTES

Q S-310 TYP. SLAB ON METAL DECK EDGE
3/4" = 1'-0"

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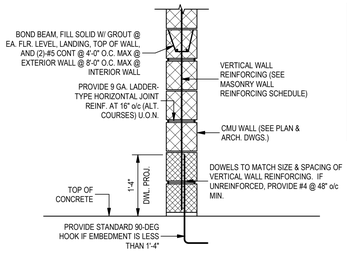
GRAPHIC SCALE - 12" = 1'-0"
0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

TYP SUPERSTRUCTURE DETAILS

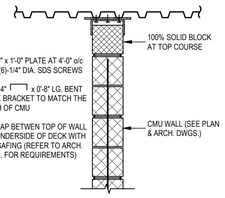
S-310



MASONRY WALL REINF. SCHEDULE			
WALL LOCATION	MAXIMUM WALL HEIGHT	MINIMUM BLOCK SIZE & TYPE	VERTICAL REINF.
INTERIOR	UP TO 10-FT	8" ASTM C90	NONE
EXTERIOR	UP TO 20-FT	8" ASTM C90	#4 @ 48" o/c
	UP TO 10-FT	8" ASTM C90	#5 @ 32" o/c
	UP TO 15-FT	8" ASTM C90	#5 @ 16" o/c
	UP TO 20-FT	12" ASTM C90	#5 @ 16" o/c
	UP TO 25-FT	16" ASTM C90	#5 @ 16" o/c

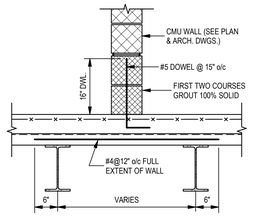
- REINFORCING APPLIES ONLY TO BRACED NON-STRUCTURAL MASONRY WALLS UNLESS OTHERWISE NOTED. DETAIL DOES NOT APPLY TO FREESTANDING SCREEN WALLS, PARAPETS, FOUNDATION, BEARING OR OTHER STRUCTURAL WALLS.
- SEE PLAN AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION
- REFER TO ARCHITECTURAL DRAWINGS TO SIZE AND LOCATION OF PARTITION WALLS NOT SHOWN ON STRUCTURAL PLANS. WHERE LARGER BLOCK SIZE IS SHOWN BY ARCHITECTURAL DRAWINGS, PROVIDE SIZE INDICATED BY ARCHITECT.

A S-320 TYP. MASONRY WALL REINFORCING
3/4" = 1'-0"

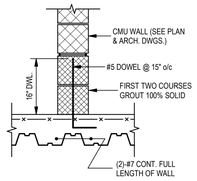


- 1/4" x8" x 1'-0" PLATE AT 4'-0" o/c WITH (6)-1/4" DIA. SDS SCREWS
- 1/4" x 4" ⌐ x 0'-8" LG. BENT PLATE BRACKET TO MATCH THE WIDTH OF CMU
- FILL GAP BETWEEN TOP OF WALL AND UNDERSIDE OF DECK WITH FIRE SAFING (REFER TO ARCH. DWGS. FOR REQUIREMENTS)

INTERIOR PARTITION



PARTITION PERPENDICULAR TO DECK SPAN



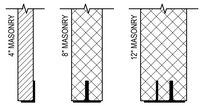
PARTITION PARALLEL TO DECK SPAN

B S-320 TYP. MASONRY WALL BRACE
3/4" = 1'-0"

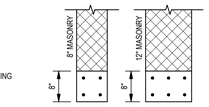
C S-320 TYP. MASONRY WALL ON SLAB ON METAL DECK
3/4" = 1'-0"

MASONRY WALL LINTEL SCHEDULE		
CLEAR OPENING SIZE	OPTION "A" STEEL ANGLE	OPTION "B" PRECAST CONCRETE
≤ 4'-0"	L3 1/2x 3 1/2x 5/16 (LLV) FOR EA. 4" OF WALL	(1)-#3 T&B FOR EA. 4" OF WALL
> 4'-0" ≤ 6'-0"	L5 x 3 1/2x 5/16 (LLV) FOR EA. 4" OF WALL	(1)-#4 T&B FOR EA. 4" OF WALL
> 6'-0" ≤ 8'-0"	L5 x 3 1/2x 5/16 (LLV) FOR EA. 4" OF WALL	(1)-#5 T&B FOR EA. 4" OF WALL
> 8'-0" ≤ 10'-0"	L5 x 3 1/2x 3/8 (LLV) FOR EA. 4" OF WALL	(1)-#6 T&B FOR EA. 4" OF WALL
> 10'-0"	AS DETAILED OR SHOWN ON PLAN	

- STEEL LINTELS SHALL HAVE A MIN. 4" END BEARING UNLESS OTHERWISE NOTED
- PRECAST CONCRETE LINTELS SHALL HAVE A MIN. 8" END BEARING UNLESS OTHERWISE NOTED
- WHERE 10" BLOCK IS USED, USE (2)-L6x4x5/16 LLV
- CONCRETE FOR PRECAST LINTELS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 3,000 PSI
- REFER TO ARCHITECTURAL DRAWINGS TO SIZE AND LOCATION OF PARTITION WALLS NOT SHOWN ON STRUCTURAL PLANS. WHERE LARGER BLOCK SIZE IS SHOWN BY ARCHITECTURAL DRAWINGS, PROVIDE SIZE INDICATED BY ARCHITECT.

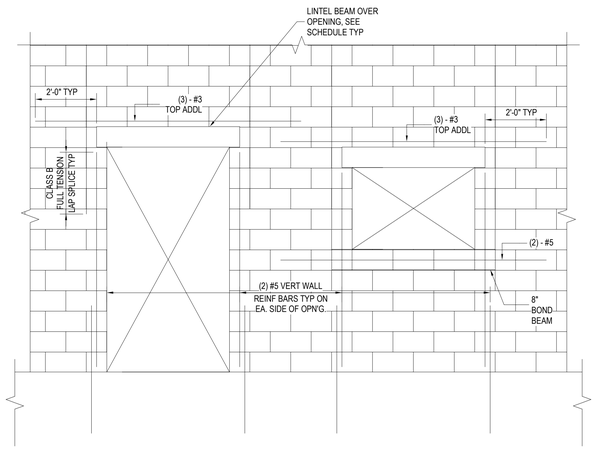


OPTION "A" - STEEL ANGLE

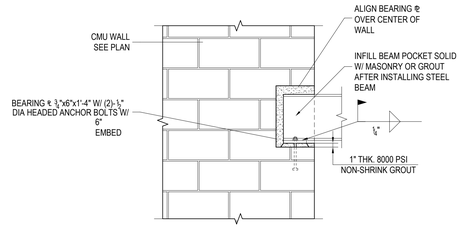


OPTION "B" - PRECAST CONCRETE

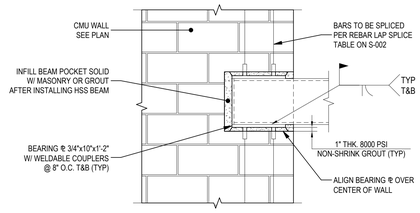
D S-320 TYP. MASONRY WALL REINFORCING
3/4" = 1'-0"



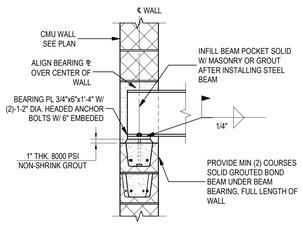
E S-320 TYP. WALL OPENING IN REINFORCED MASONRY WALL-ELEVATION DETAIL
1/2" = 1'-0"



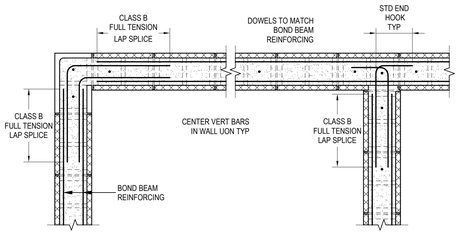
F S-320 TYP STEEL BEAM CMU WALL DETAIL
3/4" = 1'-0"



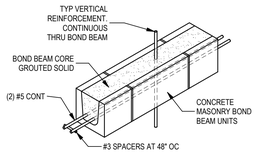
G S-320 TYP HSS BEAM CMU WALL DETAIL
3/4" = 1'-0"



H S-320 TYP STEEL BEAM EMBED CMU WALL DETAIL
3/4" = 1'-0"



J S-320 TYP CMU WALL BOND BEAM JOINT DETAIL
3/4" = 1'-0"



NOTES:
1. BOND BEAMS LOCATED AT FLOOR AND ROOF LEVELS TO HAVE REINFORCING CONTINUOUS THROUGH CONTROL JOINTS.
2. INTERMEDIATE BOND BEAMS TO HAVE HORIZONTAL DISCONTINUOUS REINFORCING AT CONTROL JOINTS.

K S-320 TYP CMU BOND BEAM DETAIL
3/4" = 1'-0"

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GRAPHIC SCALE - 12" = 1'-0"
0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

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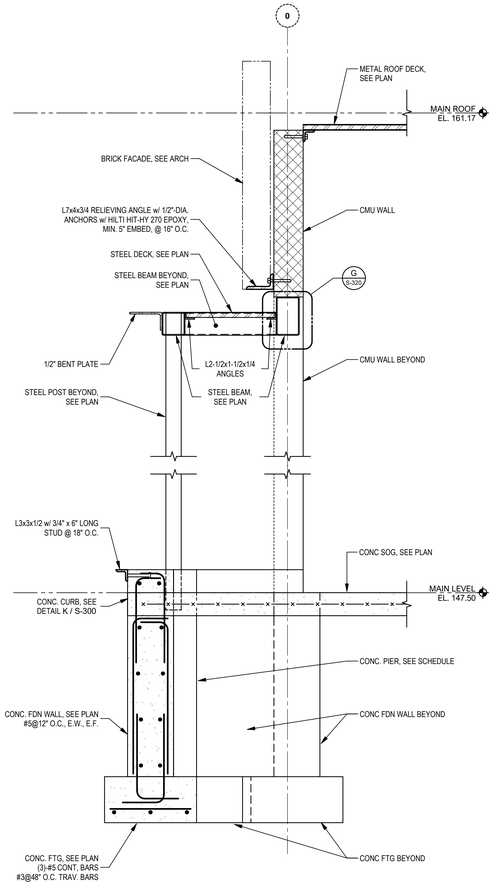
1	100% CONSTRUCTION DOCUMENTS	01.14.2022

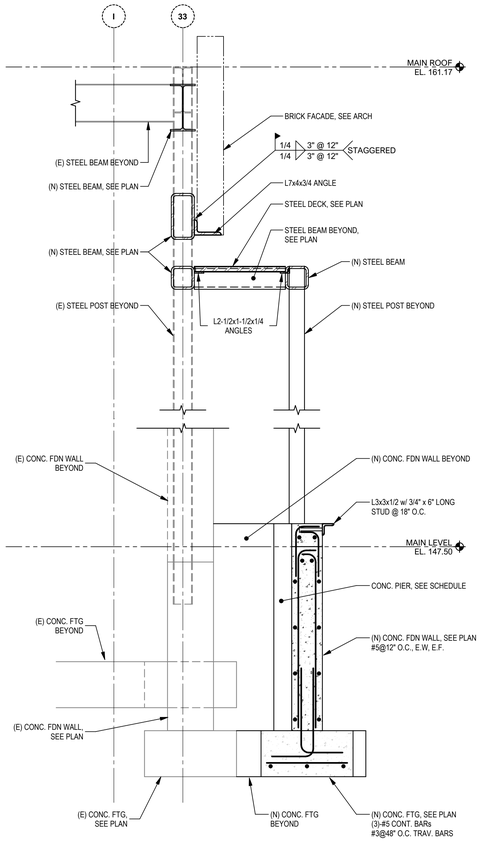
UNIT MASONRY DETAILS

S-320



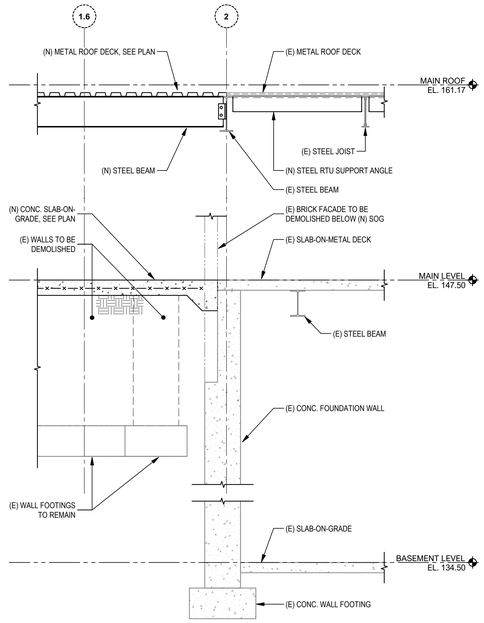
NOTE:
ALL STEEL AND ACCESSORIES ARE TO BE HOT-DIPPED GALVANIZED

A S-330 STOREFRONT SECTION - 1
3/4" = 1'-0"

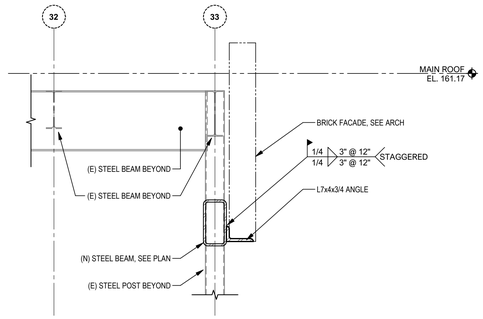


NOTE:
ALL EXPOSED STEEL AND ACCESSORIES ARE TO BE HOT-DIPPED GALVANIZED.

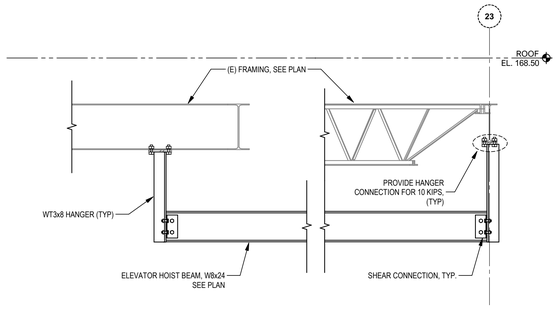
B S-330 STOREFRONT SECTION - 2
3/4" = 1'-0"



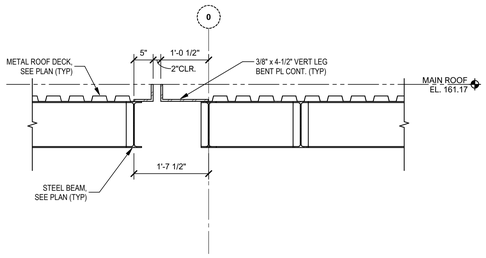
C S-330 EXISTING TO NEW BUILDING SECTION
1/2" = 1'-0"



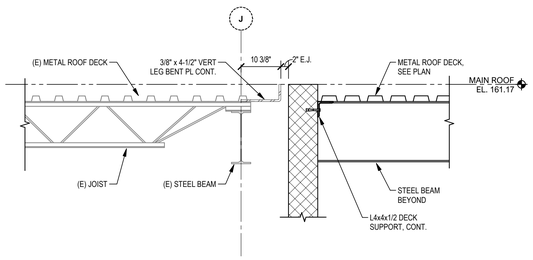
D S-330 STOREFRONT SECTION - 3
3/4" = 1'-0"



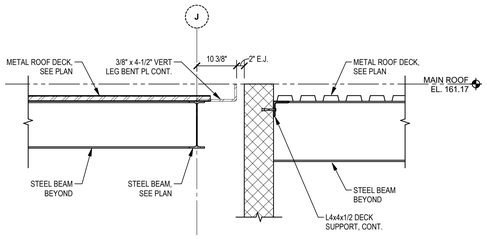
E S-330 ELEVATOR HOIST BEAM SECTION
3/4" = 1'-0"



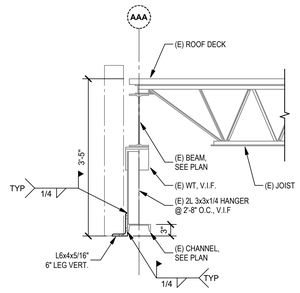
F S-330 EXPANSION JOINT SECTION - 1
3/4" = 1'-0"



G S-330 EXPANSION JOINT SECTION - 2
3/4" = 1'-0"



H S-330 EXPANSION JOINT SECTION - 3
3/4" = 1'-0"



NOTE:
IF 2L HANGERS AND WT DO NOT EXIST OVER NEW DOOR, PROVIDE PER SPACING CALLOUT. PROVIDE 1/4" FILLET WELD ALL AROUND AS REQ'D.

J S-330 MAKERS SPACE LINTEL SECTION
3/4" = 1'-0"

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BUILDING SECTIONS

S-330

ABBREVIATIONS

A/C	AIR CONDITIONING
ABV.	ABOVE
ACC.	ACCESSORIES
APC / ACT	ACOUSTICAL PANEL CEILING
A.D.	AREA DRAIN
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDILING UNIT
ALT.	ALTERNATE
ALUM.	ALUMINIUM
ANOD.	ANODIZED
ARCH.	ARCHITECTURAL
APPROX.	APPROXIMATELY
BBT	BIO-BASED TILE
B.C.	BRICK COURSE
B/N	BETWEEN
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.O. --	BOTTOM OF --
BRG.	BEARING
CAB.	CABINET
C.I.	CAST IRON
C.I.P.	CAST IN PLACE
C.L.	CENTER LINE
CFMF	COLD FORMED METAL FRAMING
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
COORD.	COORDINATE
CPT.	CARPET
C.T.	CERAMIC TILE
CTR	CENTER
DBL.	DOUBLE
DEMO.	DEMOLITION
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION(S)
DISP.	DISPENSER
D.M.B.	DAVE MATTHEWS BAND
DN.	DOWN
DOC.	DOCUMENT(S)
DR.	DOOR
D.S.	DOWNSPOUT
DTL.	DETAIL
DW.	DISHWASHER
DWG.	DRAWING
EA.	EACH
E.B.	EXPANSION BOLT
EGD	ENVIRONMENTAL GRAPHIC DESIGN
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.O.P.	EDGE OF PAVEMENT
E.P.	ELECTRICAL PANEL
E.O.S.	EDGE OF SLAB
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
EX., EXIST.	EXISTING
EXTG.	
E.T.R.	EXISTING TO REMAIN
EXP.	EXPANSION
EXPD.	EXPOSED
EXT.	EXTERIOR
F.E.C.	FIRE EXSTINGUISHER CABINET
F.D.	FLOOR DRAIN
F.F.	FINISHED FLOOR
FIN.	FINISH, FINISHED
F.O. --	FACE OF --
FLR.	FLOOR
F.R.T.W.	FIRE RETARDANT TREATED WOOD
F.S.	FRAME SIZE
FT.	FOOT, FEET
FTG.	FOOTING
'G	ING (SUFFIX)
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.L.	GRID LINE
GYP.	GYPSUM
GWB	GYPSUM WALL BOARD
HDWD.	HARDWOOD
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HVAC	HEATING / VENTILATION / AIR CONDITIONING
INCL.	INCLUDE (D), (ING)
INFO	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
J.C.	JANITOR CLOSET
JT.	JOINT
LAM.	LAMINATE
LOC.	LOCATION
LVR	LOUVER
MANUF.	MANUFACTURER
MAS.	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MEZZ.	MEZZANINE
M.D.F.	MEDIUM DENSITY FIBER BOARD
MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NSMF	NON-STRUCTURAL METAL FRAMING
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OCC.	OCCUPANCY, OCCUPANT(S)
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
OH.	OVERHEAD
OPP.	OPPOSITE
OPNG.	OPENING
PERF.	PERFORATED
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PNL.	PANEL
POLY.	POLYETHYLENE
PR.	PAIR
PTD.	PAINTED
P.T.	PRESSURE TREATED
Q.T.	QUARRY TILE
QTY.	QUANTITY
R.	RISER / RADIUS
RCP	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
REFL.	REFLECTED
REINF.	REINFORCING, REINFORCED
REQ'D.	REQUIRED
REV.	REVISION
RFG.	ROOFING
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RM.	ROOM
S.A.T.M.	SELF-ADHERED TRANSISTION MEMBRANE
S.C.	SOLID CORE
S.F.	SQUARE FEET / STOREFRONT
SFI / AB	SPRAY FOAM INSULATION / AIR BARRIER
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SHT.	SHEET
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ.FT.	SQUARE FOOT
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SS.	STAINLESS STEEL
SUSP.	SUSPENDED
T&G	TONGUE AND GROOVE
TEMP.	TEMPORARY
THK.	THICK
T.O. --	TOP OF --
T.O.S.	TOP OF SLAB, TOP OF SLAB (AS APPLICABLE)
TYP.	TYPICAL
T.O.W.	TOP OF WALL
T.W.F.	THROUGH WALL FLASHING
U.N.O.	UNLESS NOTED OTHERWISE
U.O.N.	UNLESS OTHERWISE NOTED
U.G.	UNDER GROUND
VP	VAPOR BARRIER
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
V.T.R.	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
WK.PT.	WORK POINT
WP.	WATERPROOF
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

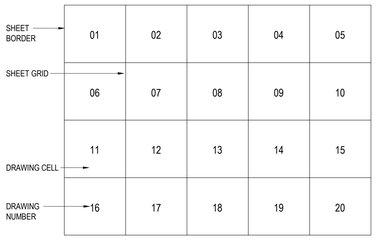
GENERAL NOTES

1. COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR IS TO VERIFY ALL EXISTING FLOOR GRADES/ELEVATIONS AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES. NEW FLOOR LEVELS ARE INTENDED TO ALIGN WITH EXISTING FLOOR LEVELS UNLESS NOTED.
3. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND FOR VERIFICATION OF EXISTING DIMENSIONS SHOWN ON DRAWINGS. ANY DISCREPANCIES IN DRAWINGS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
4. DO NOT SCALE DRAWINGS.
5. VERIFY AND PROVIDE ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THE CONTRACT OR IN OTHERS.
6. REPETITIVE FEATURES MAY BE DRAWN ONLY ONCE AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.

SYMBOL LEGEND

	DRAWING BREAK LINE
1 / A112	DRAWING MATCH LINE
0'-0"	SPOT ELEVATION
FLOOR LEVEL NAME +0'-0"	LEVEL ELEVATION
1 A102 SIM / 1 A102 SIM	BUILDING SECTION KEY
1 A102 SIM	WALL SECTION KEY
1 A102 SIM	SECTION DETAIL KEY
1 A101 SIM	PLAN DETAIL KEY
1 A101	INTERIOR ELEVATION KEY
1 A101	BUILDING ELEVATION KEY
XX.X	GRID LINE (NUMERICAL DESIGNATION @ VERT. COL. LINES)
XX.X	GRID LINE (ALPHABETICAL DESIGNATION @ HORIZ. COL. LINES)
000000A	DOOR TYPE INDICATOR
G6	PARTITION TYPE INDICATOR SEE A 002 SHEET AND PLAN VIEWS
G6 1.5	FIRE RATED PARTITION TYPE INDICATOR SEE A 002 SHEET AND PLAN VIEWS
B1	EXTERIOR ASSEMBLY TYPE INDICATOR SEE A 500 SHEET AND SECTION VIEWS
R1	ROOF TYPE INDICATOR SEE A 500 SHEET AND SECTION VIEWS
C1	STOREFRONT / WINDOW TYPE INDICATOR. SEE ELEVATION VIEWS FOR EXTERIOR STOREFRONT, SEE PLAN VIEWS AND INTERIOR ELEVATION VIEWS FOR INTERIOR STOREFRONT
	EXISTING WALLS
	DEMOLISHED WALLS - RED DASHED LINES
	NEW WALLS
	TEMPORARY OR ALTERNATE LOCATION WALLS
	NORTH ARROW: BOLD = PROJECT NORTH DASHED = TRUE NORTH
1 A101	INTERIOR RAILING ELEVATION KEY

SHEET ORGANIZATION DIAGRAM



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ABBREVIATIONS & NOTES

A001

CONSTRUCTION DOCUMENTS
01.14.2022

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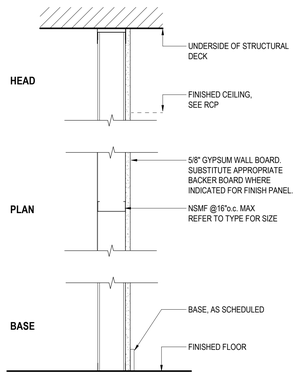
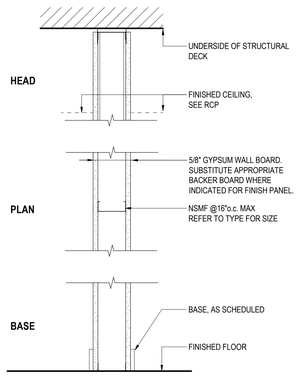
NON-RATED STL FRAMED PARTITIONS





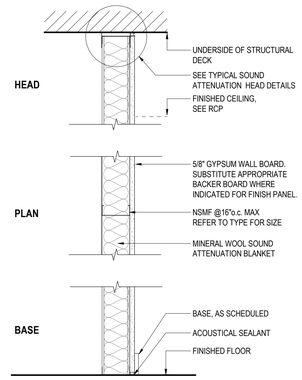
1-SIDED FURRING PARTITIONS

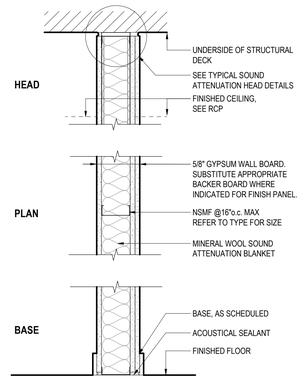
- N1B — 1 5/8" NSMF, 1 LAYER GWB
- N2B — 2 1/2" NSMF, 1 LAYER GWB
- N3B — 3 5/8" NSMF, 1 LAYER GWB
- N6B — 6" NSMF, 1 LAYER GWB

2-SIDED PARTITIONS

- N1A — 1 5/8" NSMF, 1 LAYER GWB, BOTH SIDES
- N2A — 2 1/2" NSMF, 1 LAYER GWB, BOTH SIDES
- N3A — 3 5/8" NSMF, 1 LAYER GWB, BOTH SIDES
- N6A — 6" NSMF, 1 LAYER GWB, BOTH SIDES

NON-RATED STL FRAMED SOUND ATTENUATED PARTITIONS





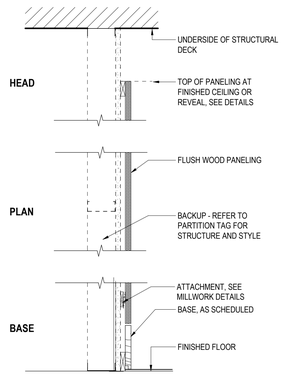
1-SIDED FURRING PARTITIONS

- N3H — 3 5/8" NSMF, 1 LAYER GWB W/ SOUND ATTENUATION BLANKET
- N3L — 3 5/8" NSMF, 2 LAYERS GWB W/ SOUND ATTENUATION BLANKET
- N6H — 6" NSMF, 1 LAYER GWB W/ SOUND ATTENUATION BLANKET
- N6L — 6" NSMF, 2 LAYERS GWB W/ SOUND ATTENUATION BLANKET

2-SIDED PARTITIONS

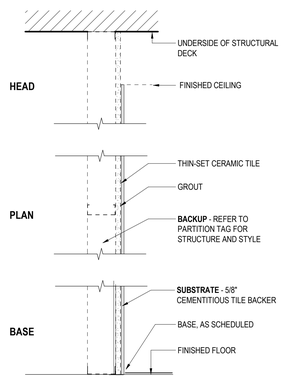
- N3G — 3 5/8" NSMF, 1 LAYER GWB ON BOTH SIDES — **STC 45**
- N3J — 3 5/8" NSMF, 2 LAYERS GWB ON BOTH SIDES
- N3K — 3 5/8" NSMF, 2 LAYERS GWB ON ONE SIDE, 1 LAYER GWB ON OPPOSITE SIDE
- N6G — 6" NSMF, 1 LAYER GWB ON BOTH SIDES
- N6J — 6" NSMF, 2 LAYERS GWB ON BOTH SIDES
- N6K — 6" NSMF, 2 LAYERS GWB ON ONE SIDE, 1 LAYER GWB ON OPPOSITE SIDE

FINISH - WOOD PANELING



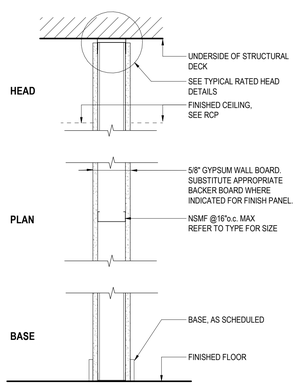
FINISH STYLE **"WD-1"** SPEC SECTION: **06 4023D**

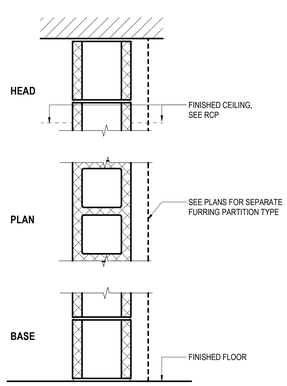
FINISH - CERAMIC TILE



FINISH STYLE **"CT"** SPEC SECTION: **09 3000**

RATED PARTITIONS





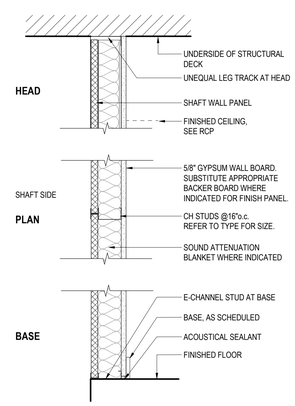
STANDARD DRYWALL PARTITION

- N3A | 60 — 3 5/8" NSMF - GWBX — **UL U419**

MASONRY PARTITION

- M4 | 1.0 — 4" MASONRY
- M6 | 1.0 — 6" MASONRY
- M8 | 1.0 — 8" MASONRY

SHAFT WALL - RATED

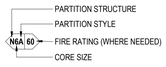


- S4G | 60 — 4" C-H STUD, GWBX W/ SOUND ATTENUATION BLANKET — **UL U415**

INTERIOR PARTITION TYPES GENERAL NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR GROUTING &/OR REINFORCING REQUIRED AT ALL MASONRY PARTITIONS.
2. REFER TO FIRE PROTECTION PLANS FOR FIRE RESISTANCE RATINGS OF BUILDINGS' ELEMENTS.
3. REFER TO WALL SECTIONS FOR ADDITIONAL DIMENSIONS BETWEEN GRID LINES, CENTER LINES OF STRUCTURE, SHEATHING & EXTERIOR FINISH FACE.
4. PARTITION STRUCTURE DESCRIBES CORE CONSTRUCTION ONLY. SUBSTRATE MATERIAL SHALL BE DETERMINED BY FINISH. SEE A900 FINISH SCHEDULE FOR MATERIAL SELECTIONS.
5. PARTITIONS EXTEND TO UNDERSIDE OF DECK UNLESS NOTED.

PARTITION TAG DIAGRAM



PARTITION STRUCTURE:

N. NON-STRUCTURAL METAL FRAMING (NSMF)
M. CONCRETE MASONRY
S. SHAFT WALL

CORE SIZE:

0 = 0 7/8" 4 = 4"
1 = 1 5/8" 5 = 5 1/2"
2 = 2 1/2" 6 = 6" (NOM. @ MASONRY)
3 = 3 5/8" 8 = 8" (NOM. @ MASONRY)

FINISH STYLE:

CT CERAMIC TILE
WD WOOD PANELING
WC WALL COVERING
AWP ACOUSTIC PANEL

FIRE RATING:

30 = 30 MIN.
45 = 45 MIN.
60 = 60 MIN.
90 = 90 MIN.
2 = 2 HOUR

PARTITION STYLE:

A. (1) SUBSTRATE + CORE + (1) SUBSTRATE
B. (1) SUBSTRATE + CORE
~~C. CORE ONLY~~
D. (2) SUBSTRATE + CORE + (2) SUBSTRATE
E. (2) SUBSTRATE + CORE + (1) SUBSTRATE
F. (2) SUBSTRATE + CORE
G. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
H. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION
~~I. NOT USED~~
J. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (2) SUBSTRATE
K. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
L. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION

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PARTITION & FLOOR TYPES

A002

CONSTRUCTION DOCUMENTS
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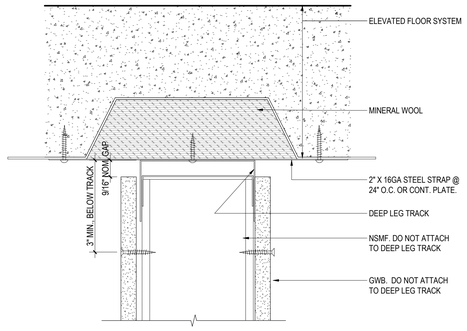
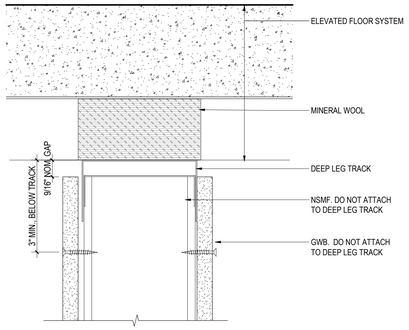
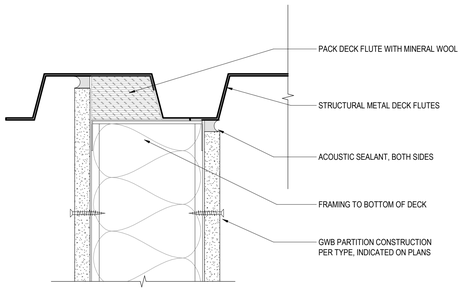


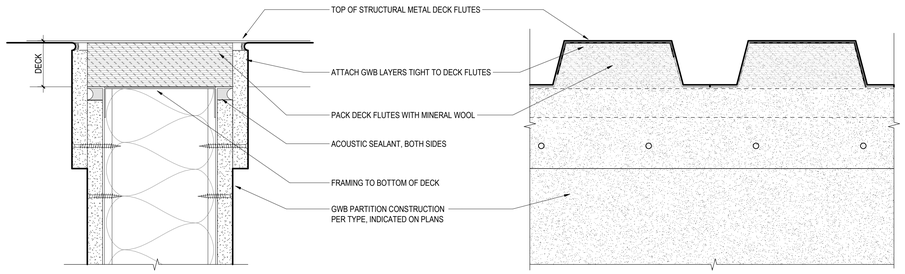
1 A003 | A003 TYP. FIRE RATED DETAIL - HEAD (FLUTES PARALLEL)
6" = 1'-0"



2 A003 | A003 TYP. FIRE RATED DETAIL - HEAD (PERPENDICULAR)
6" = 1'-0"



3 A003 | A003 ACOUSTIC PARTITION DETAIL - HEAD (FLUTES PARALLEL)
6" = 1'-0"



4 A003 | A003 ACOUSTIC PARTITION DETAIL - HEAD (PERPENDICULAR)
6" = 1'-0"

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TYPICAL, FIRE PROTECTION & SOUND ATTENUATION DETAILS

A003

CONSTRUCTION DOCUMENTS
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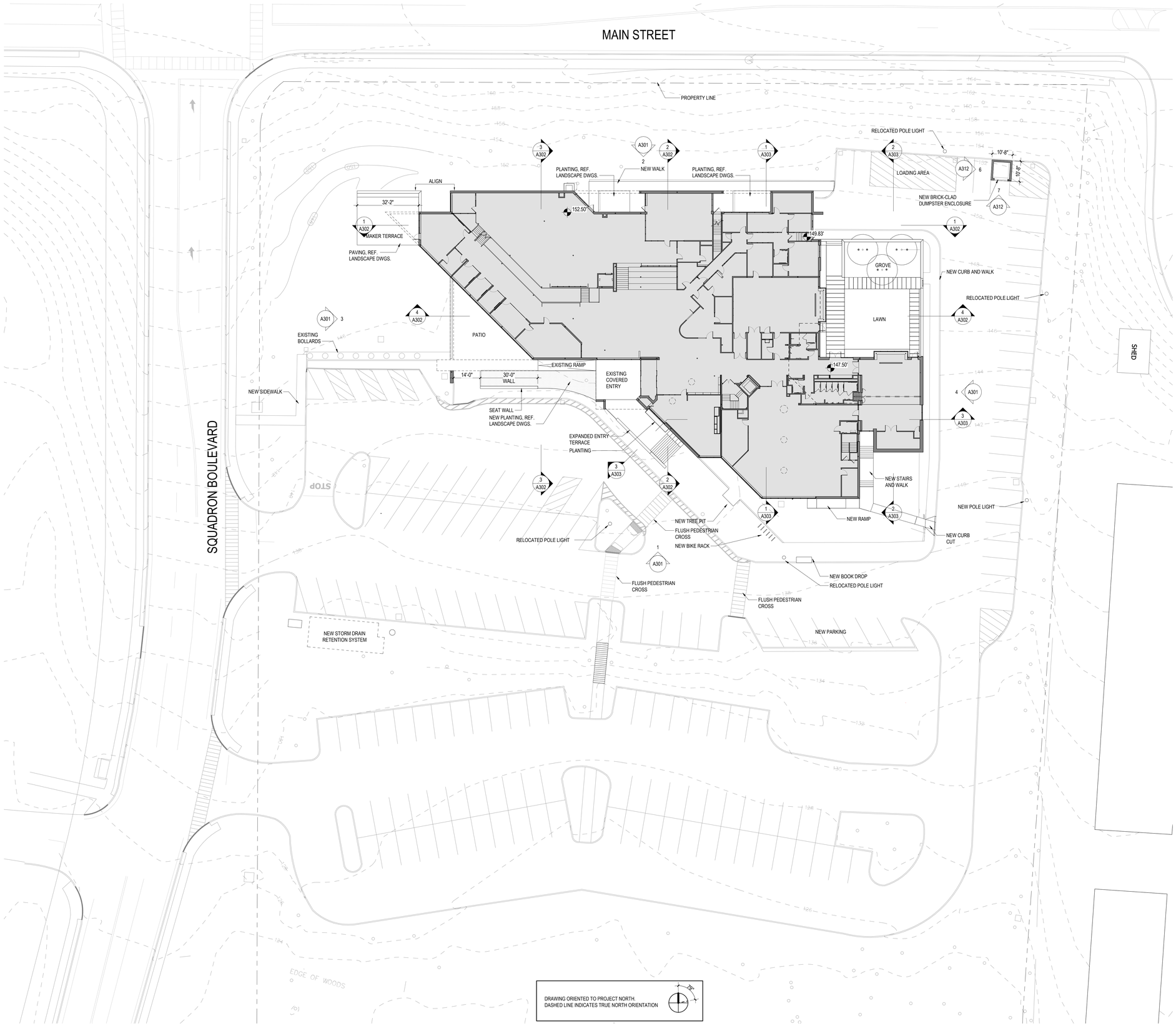

2 A010 SITE PLAN
1" = 20'-0"

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GRAPHIC SCALE - 1:20
0 20' - 0" 40' - 0" 60' - 0"

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ARCHITECTURAL SITE PLAN

A010

CONSTRUCTION DOCUMENTS
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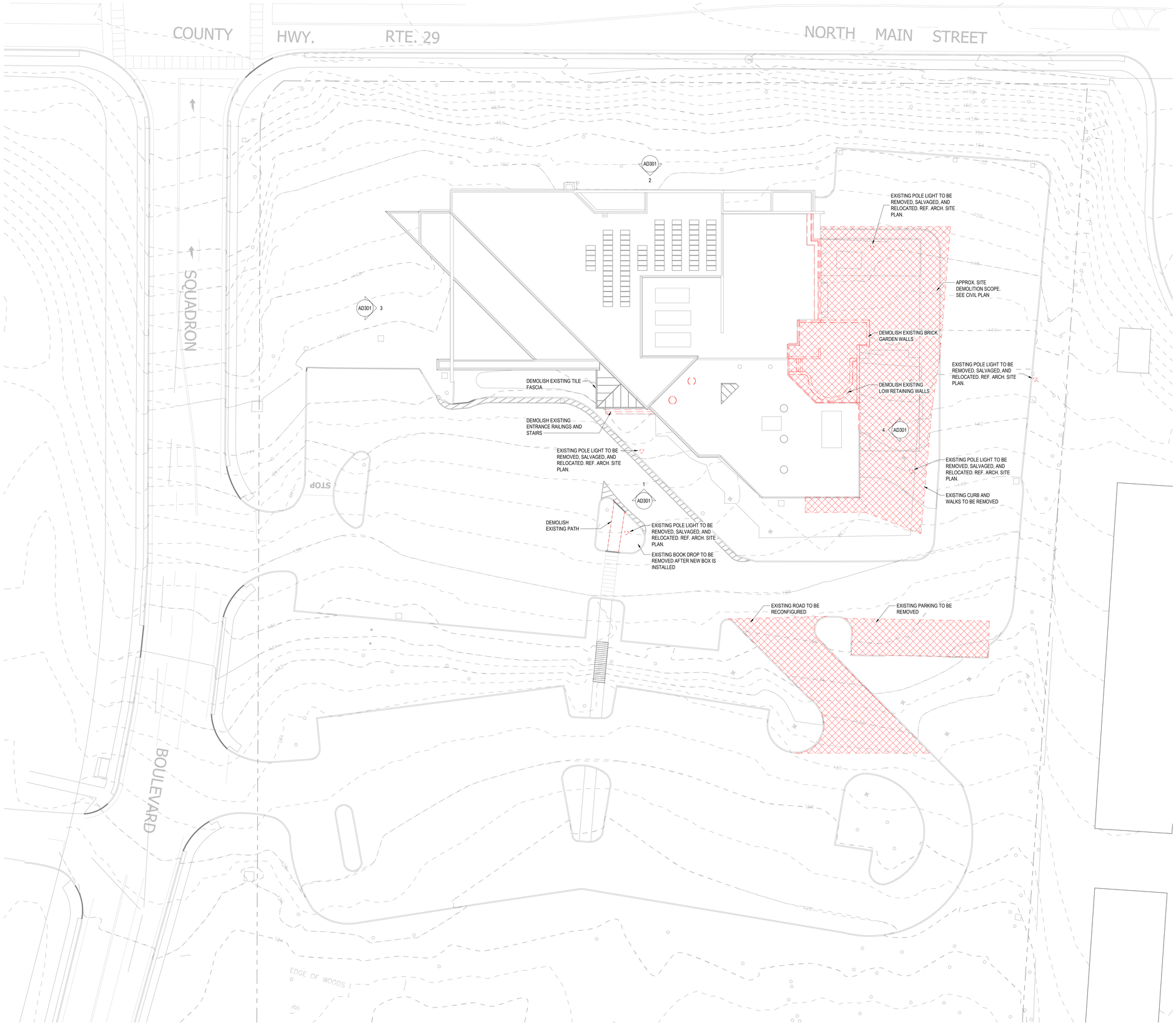

1 AD001 SITE DEMOLITION PLAN
1" = 20'-0"

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GRAPHIC SCALE - 1:20
0 20' - 0" 40' - 0" 60' - 0"

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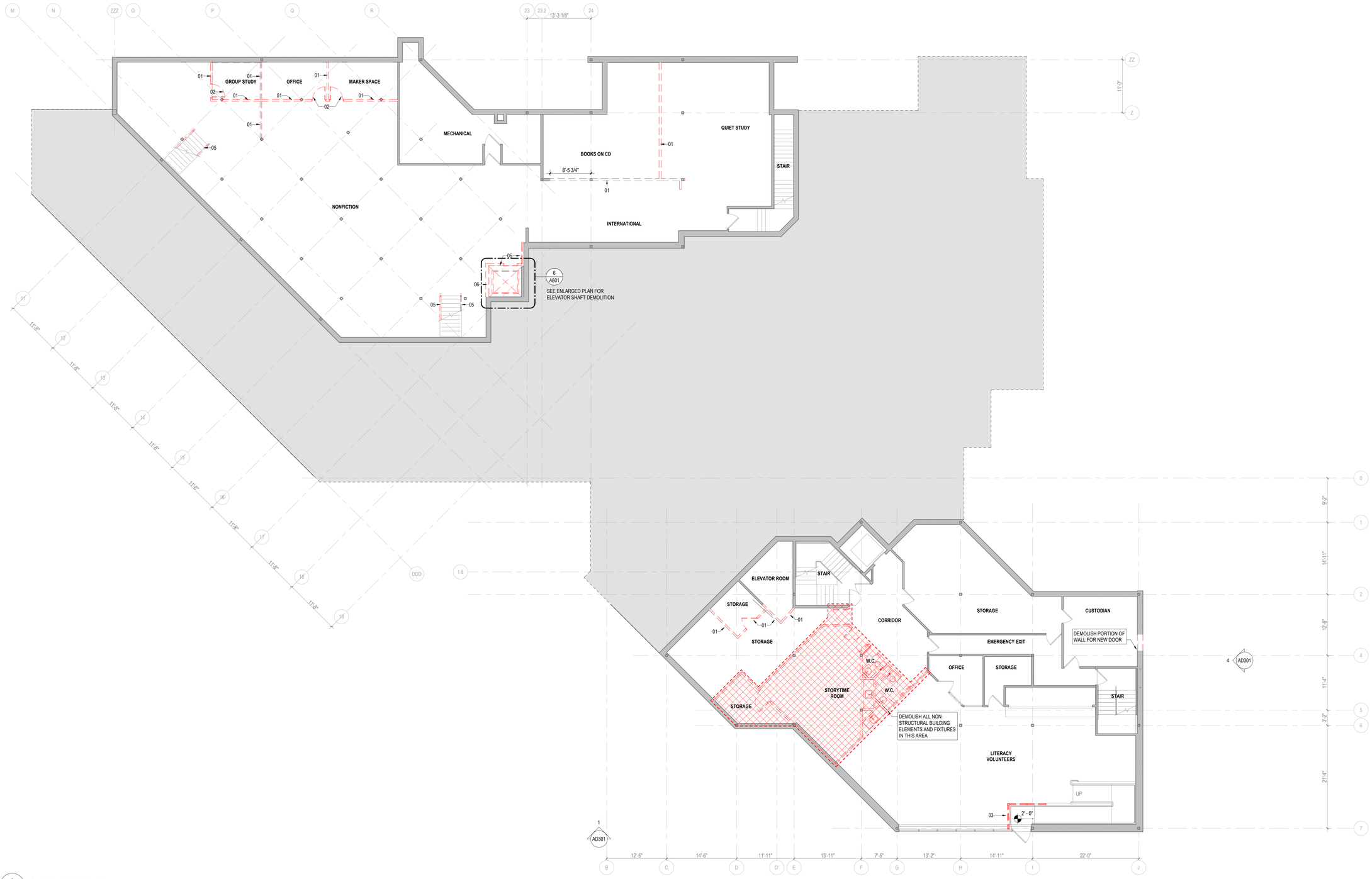
SITE DEMOLITION PLAN

AD001

CONSTRUCTION DOCUMENTS
01.14.2022



1 AD101 LOWER LEVEL DEMO PLANS
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. BOOK SHELVES NOT SHOWN FOR CLARITY. ALL BOOK SHELVES ARE TO BE MOVED AND STORED IN A DESIGNATED AREA TBD

DEMOLITION NOTES

01	DEMOLISH EXISTING INTERIOR WALL AND/OR STOREFRONT IN ITS ENTIRETY. DEMOLISH ASSOCIATED DOORS AND FRAMES. WHERE PRESENT PROTECT STRUCTURAL ELEMENTS UNLESS OTHERWISE NOTED.
02	DEMOLISH EXISTING HM DOOR AND FRAME
03	DEMOLISH EXISTING INTERIOR STOREFRONT. SURROUNDING WALL CONSTRUCTION TO REMAIN
04	DEMOLISH EXISTING INTERIOR BRICK WALL. BACKUP WALL TO REMAIN WHERE INDICATED
05	DEMOLISH AND/OR REPLACE RAILINGS AS INDICATED
06	PARTIALLY DEMOLISH EXISTING ELEVATOR SHAFT. SEE DETAILS AND STRUCTURAL DRAWINGS FOR FULL DEMO SCOPE
07	DEMOLISH EXISTING COLUMN, SEE STRUCTURAL DRAWINGS FOR FULL DEMO AND SHORING DETAILS
08	DEMOLISH ALL NON- STRUCTURAL ELEMENTS OF EXISTING EXTERIOR WALL
09	DEMOLISH EXISTING EXTERIOR BRICK WALL AND STOREFRONT WINDOW
10	DEMOLISH EXISTING EXTERIOR STOREFRONT FRAME AND DOOR
20	DEMOLISH EXISTING LIGHT FIXTURE
21	DEMOLISH EXISTING ACOUSTIC PANEL CEILING
22	DEMOLISH EXISTING PLASTER CEILING
23	DEMOLISH WOODEN WINDOW SILL

DEMOLITION LEGEND

- AREA OF FULL INTERIOR DEMOLITION. FLOOR SLAB AND STRUCTURE TO REMAIN U.N.O.
- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
- DOORS & FIXTURES TO BE DEMOLISHED

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GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

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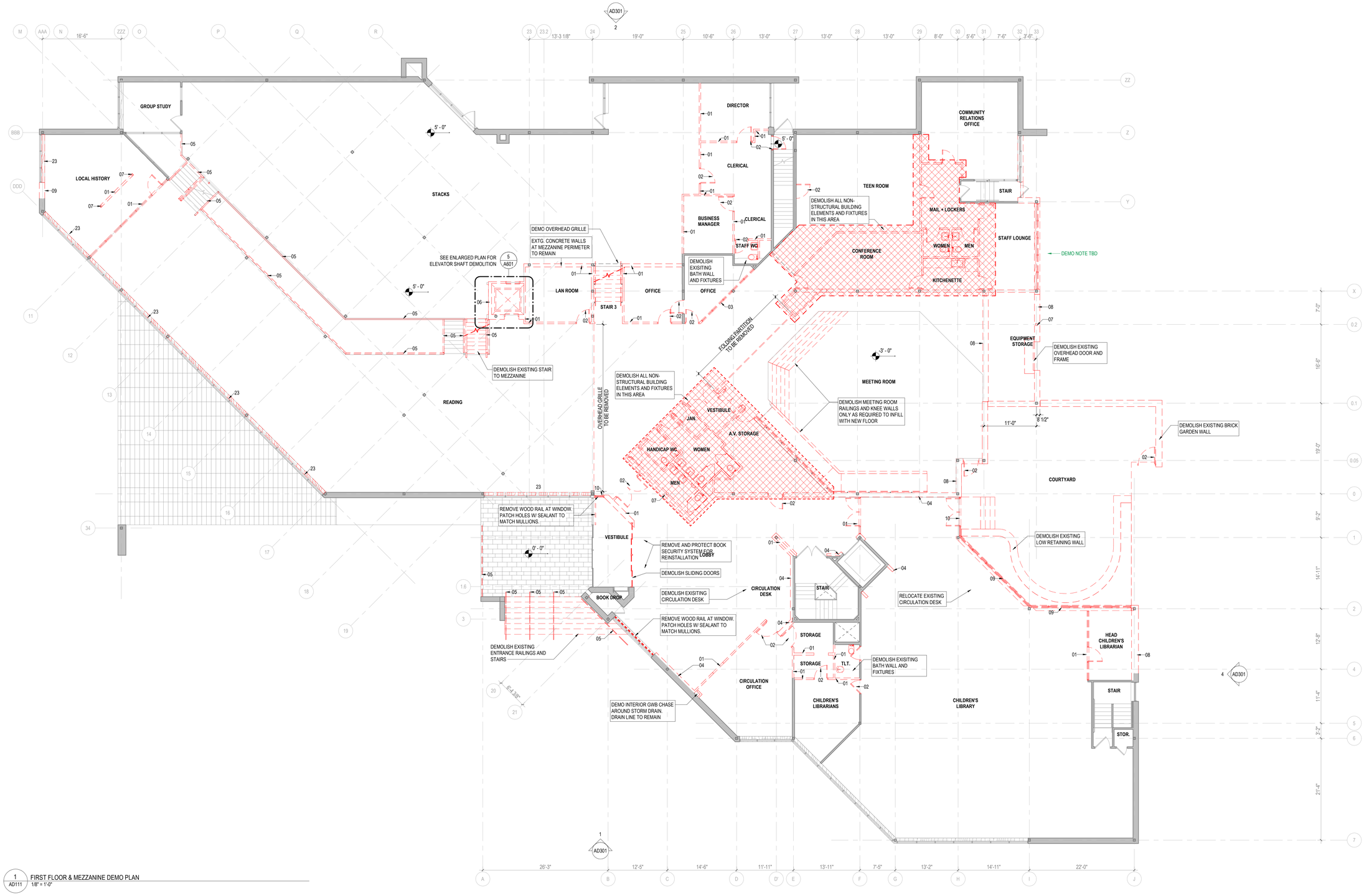
DEMOLITION PLAN - LOWER LEVEL & BASEMENT

AD101

CONSTRUCTION DOCUMENTS
01.14.2022



1 AD111 FIRST FLOOR & MEZZANINE DEMO PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. BOOK SHELVES NOT SHOWN FOR CLARITY. ALL BOOK SHELVES ARE TO BE MOVED AND STORED IN A DESIGNATED AREA TBD

DEMOLITION NOTES

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06	PARTIALLY DEMOLISH EXISTING ELEVATOR SHAFT. SEE DETAILS AND STRUCTURAL DRAWINGS FOR FULL DEMO SCOPE
07	DEMOLISH EXISTING COLUMN. SEE STRUCTURAL DRAWINGS FOR FULL DEMO AND SHORING DETAILS
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23	DEMOLISH WOODEN WINDOW SILL

DEMOLITION LEGEND

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- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
- DOORS & FIXTURES TO BE DEMOLISHED

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0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

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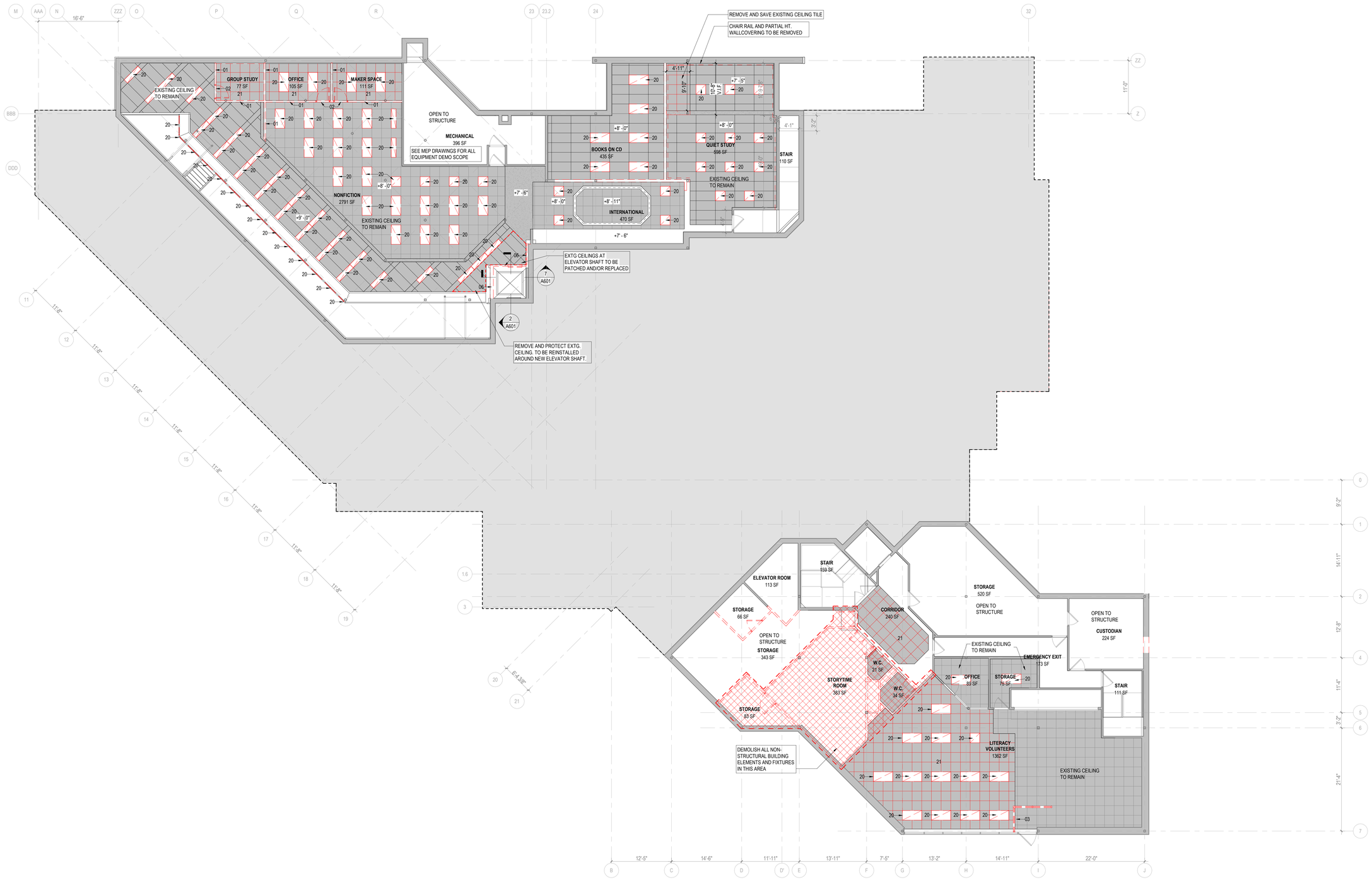
	100% CONSTRUCTION DOCUMENTS	01.14.2022

DEMOLITION PLAN - FIRST FLOOR & MEZZANINE

AD111

CONSTRUCTION DOCUMENTS
01.14.2022



1 AD201 EXISTING RCP LOWER LEVELS DEMO
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. BOOK SHELVES NOT SHOWN FOR CLARITY. ALL BOOK SHELVES ARE TO BE MOVED AND STORED IN A DESIGNATED AREA TBD

DEMOLITION NOTES

01	DEMOLISH EXISTING INTERIOR WALL AND/OR STOREFRONT IN ITS ENTIRETY. DEMOLISH ASSOCIATED DOORS AND FRAMES. WHERE PRESENT PROTECT STRUCTURAL ELEMENTS UNLESS OTHERWISE NOTED.
02	DEMOLISH EXISTING HM DOOR AND FRAME
03	DEMOLISH EXISTING INTERIOR STOREFRONT. SURROUNDING WALL CONSTRUCTION TO REMAIN
04	DEMOLISH EXISTING INTERIOR BRICK WALL. BACKUP WALL TO REMAIN WHERE INDICATED
05	DEMOLISH AND/OR REPLACE RAILINGS AS INDICATED
06	PARTIALLY DEMOLISH EXISTING ELEVATOR SHAFT. SEE DETAILS AND STRUCTURAL DRAWINGS FOR FULL DEMO SCOPE
07	DEMOLISH EXISTING COLUMN. SEE STRUCTURAL DRAWINGS FOR FULL DEMO AND SHORING DETAILS
08	DEMOLISH ALL NON- STRUCTURAL ELEMENTS OF EXISTING EXTERIOR WALL
09	DEMOLISH EXISTING EXTERIOR BRICK WALL AND STOREFRONT WINDOW
10	DEMOLISH EXISTING EXTERIOR STOREFRONT FRAME AND DOOR
20	DEMOLISH EXISTING LIGHT FIXTURE
21	DEMOLISH EXISTING ACOUSTIC PANEL CEILING
22	DEMOLISH EXISTING PLASTER CEILING
23	DEMOLISH WOODEN WINDOW SILL

DEMOLITION LEGEND

- AREA OF FULL INTERIOR DEMOLITION. FLOOR SLAB AND STRUCTURE TO REMAIN U.N.O.
- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
- DOORS & FIXTURES TO BE DEMOLISHED

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NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT
Drawn By JH

GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

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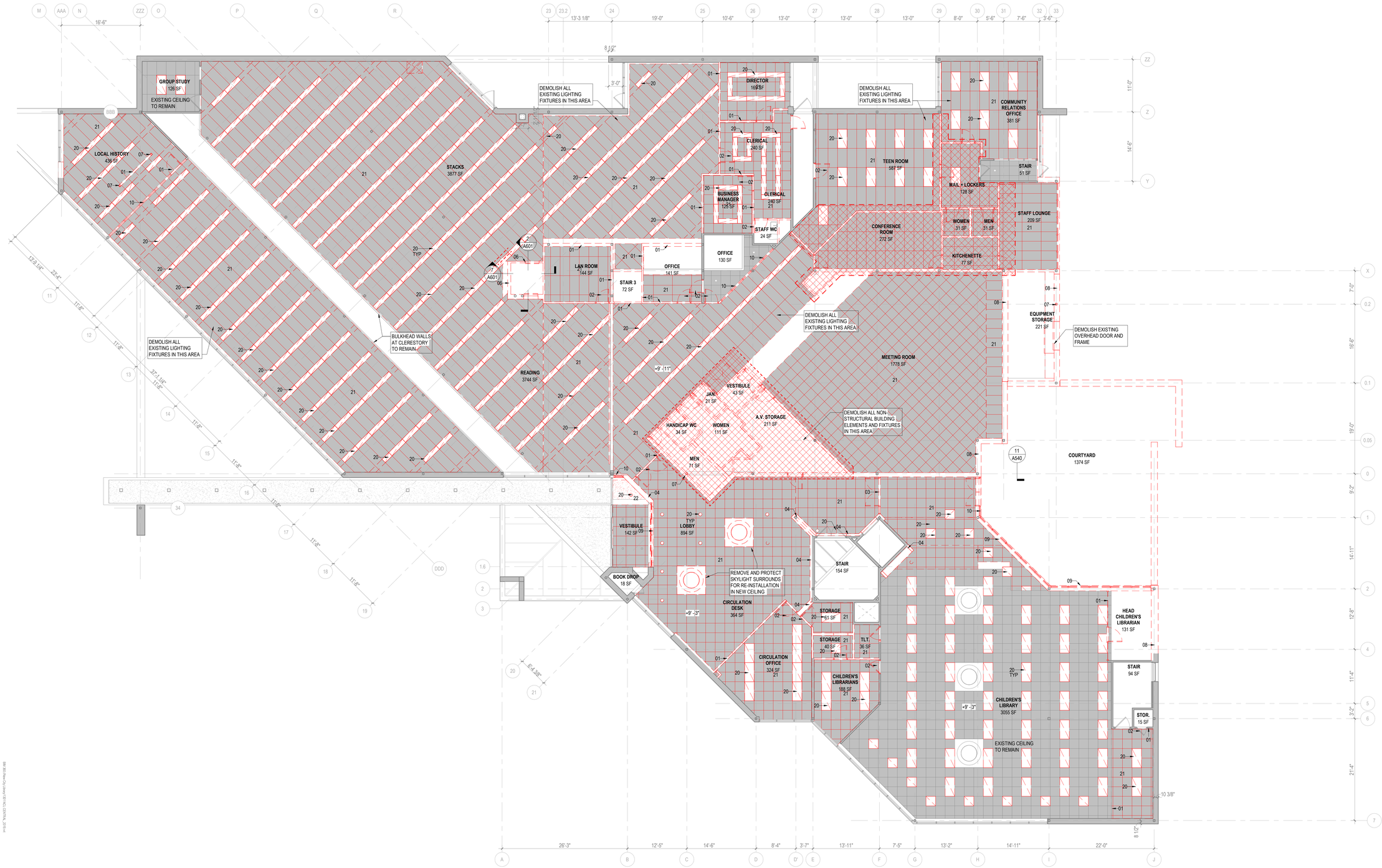
DEMOLITION RCP - LOWER LEVEL & BASEMENT

AD201

CONSTRUCTION DOCUMENTS
01.14.2022



1 AD202 EXISITNG RCP FIRST FLOOR AND MEZZANINE DEMO
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DEMOLITION NOTES

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21	DEMOLISH EXISTING ACOUSTIC PANEL CEILING
22	DEMOLISH EXISTING PLASTER CEILING
23	DEMOLISH WOODEN WINDOW SILL

DEMOLITION LEGEND

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- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
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DEMOLITION RCP - FIRST FLOOR & MEZZANINE

AD202

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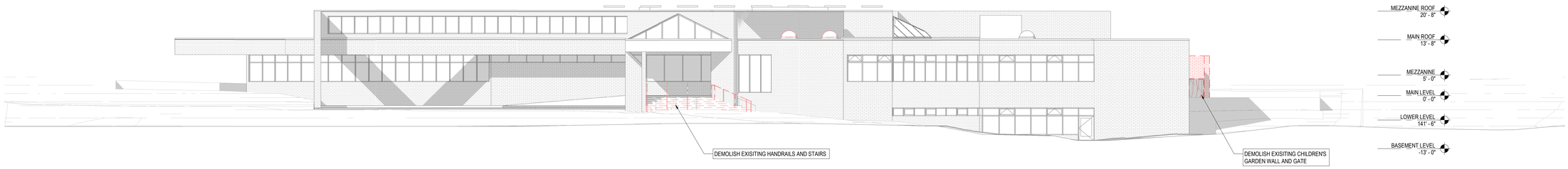
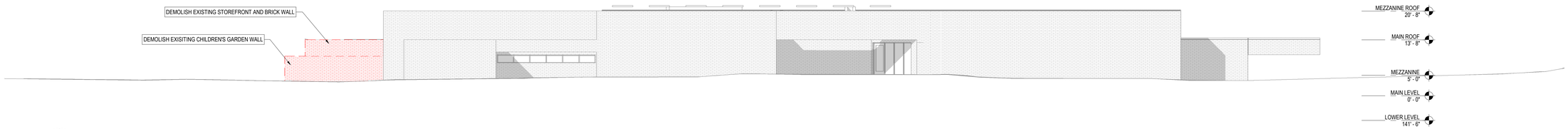
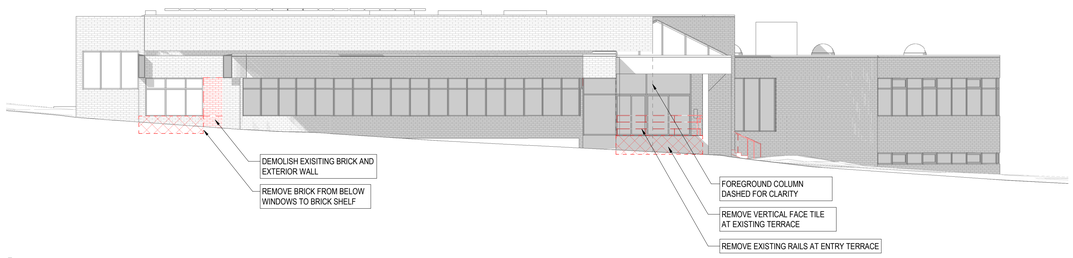


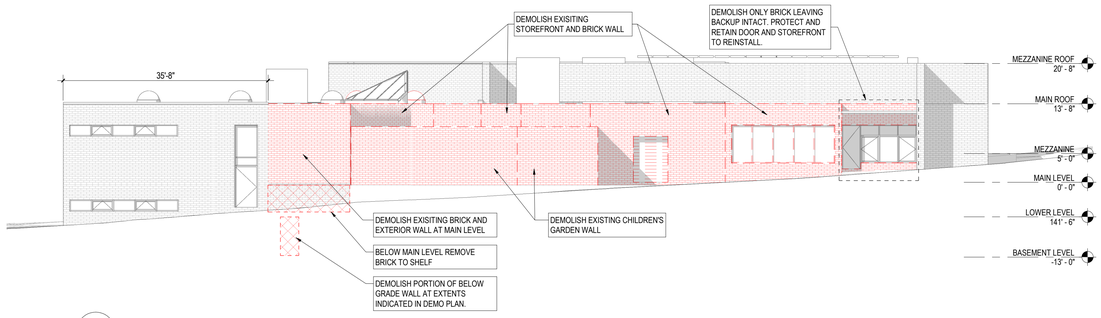
1 OVERALL SOUTH ELEVATION - DEMOLITION
AD001 | AD301 3/32" = 1'-0"



2 OVERALL NORTH ELEVATION - DEMOLITION
AD001 | AD301 3/32" = 1'-0"



3 OVERALL EAST ELEVATION - DEMOLITION
AD001 | AD301 3/32" = 1'-0"



4 OVERALL WEST ELEVATION - DEMOLITION
AD001 | AD301 3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

1. BOOK SHELVES NOT SHOWN FOR CLARITY. ALL BOOK SHELVES ARE TO BE MOVED AND STORED IN A DESIGNATED AREA TBD

DEMOLITION LEGEND

- AREA OF FULL INTERIOR DEMOLITION. FLOOR SLAB AND STRUCTURE TO REMAIN U.N.O.
- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
- DOORS & FIXTURES TO BE DEMOLISHED

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GRAPHIC SCALE - 3/32" = 1'-0"
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KEY DEMOLITION ELEVATIONS

AD301

CONSTRUCTION DOCUMENTS
01.14.2022

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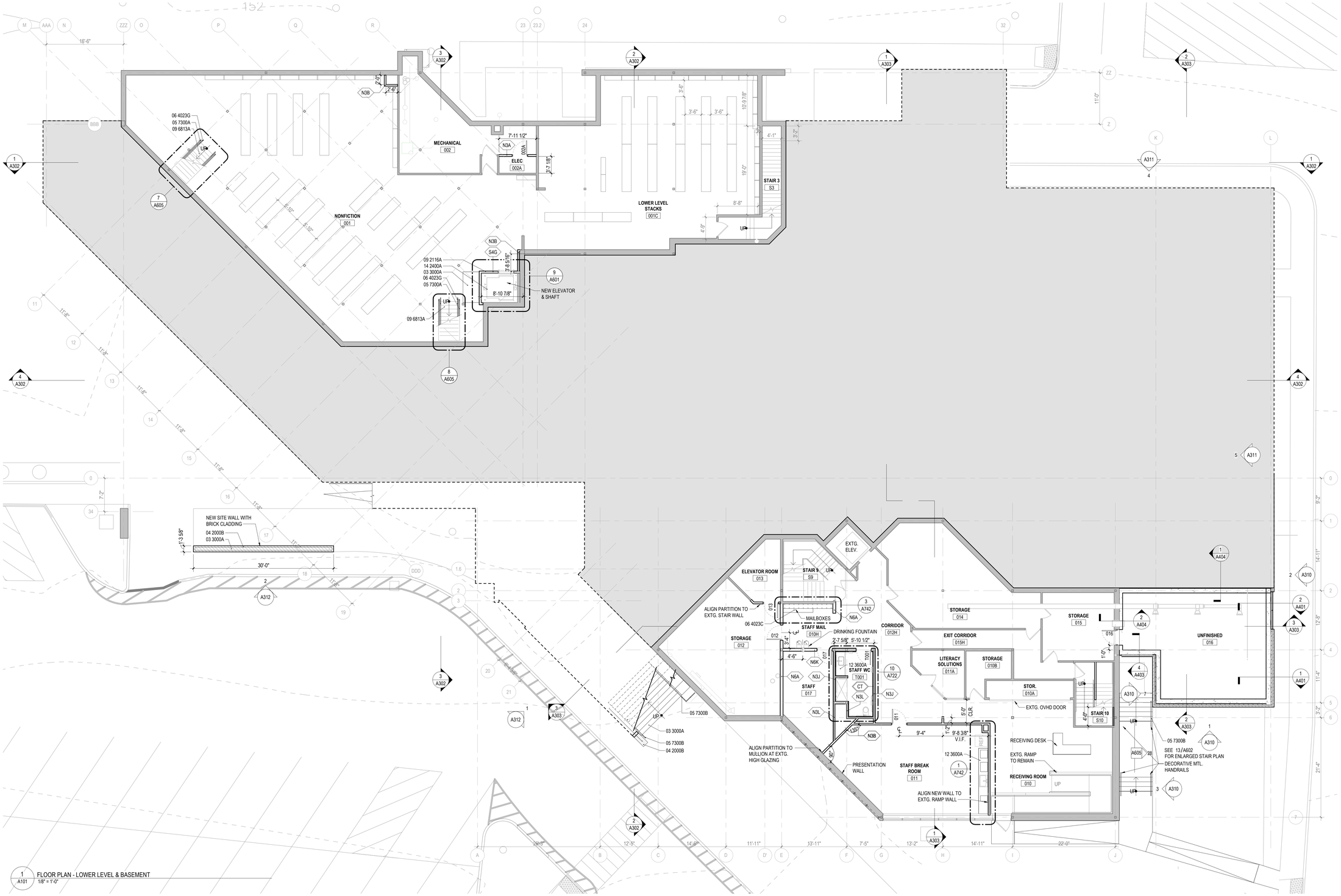
V:\2022\01-1301-AD.rvt



1 A101 FLOOR PLAN - LOWER LEVEL & BASEMENT
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE LANDSCAPE DRAWINGS FOR HARDSCAPE ELEMENTS, PAVING AND SITE WALL ADJACENT TO THE BUILDING.
2. LOCATE ROUGH OPENINGS FOR DOORS 4" FROM INSIDE FACE OF INTERSECTING WALL UNLESS OTHERWISE NOTED.
3. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL RATED CONSTRUCTION INFORMATION.
4. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, MASONRY OPENING, AND OUTSIDE EDGE OF DOOR FRAME (NOMINAL), U.N.O.
5. PROVIDE ACCESS PANELS / DOORS IN PARTITIONS AT ALL LOCATIONS REQUIRING ACCESS. PANELS SHALL MAINTAIN FIRE RATING.
6. PROVIDE WOOD BLOCKING OR 18 GAUGE METAL STRAPPING BEHIND G.W.B. WHERE REQUIRED TO SUPPORT FIXTURES OR EQUIPMENT PROVIDED IN THE CONTRACT OR BY OTHERS.
7. WHERE METAL FRAMING REQUIRES SUPPORT AT COLUMNS & BEAMS, PROVIDE METAL STAND-OFFS PRIOR TO APPLYING FIREPROOFING.
8. ALL M.E.P. AND I.T. SYSTEMS ARE TO BE CONCEALED WITHIN WALL OR CEILING CAVITY, U.N.O.
9. ALL INTERIOR PARTITIONS ARE TYPE **N3A** U.N.O. SEE T002 FOR PARTITION TYPES.
11. SEE SHEET A002 FOR PARTITION TYPES.
12. DIMENSIONS ARE TO FINISHED FACE OF PARTITION TYPE AS DEFINED ON SHEET A002. FINISH TYPES (TILE, WOOD PANELING, WAINSCOT, WALL COVERINGS, ETC.) ARE NOT INCLUDED.
13. SEE ELEVATION SHEETS A300 FOR EXTERIOR FRAME TYPE TAGS. SEE A800 SERIES FOR FRAME TYPES.
14. SEE PLANS & INTERIOR ELEVATION A700 SHEETS FOR INTERIOR FRAME TYPE TAGS. SEE A800 SHEETS FOR FRAME TYPES.

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
04 2000B	BRICK VENEER COLOR 2
05 7300A	DECORATIVE METAL RAILINGS - INTERIOR
05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
06 4023C	INTERIOR ARCHITECTURAL WOODWORK - PLAM ARCH. CABINETS
06 4023G	INTERIOR ARCHITECTURAL WOODWORK - WOOD STAIR RAILING
09 2116A	GYPSUM BOARD SHAFT WALL ASSEMBLIES
09 6813A	TILE CARPETING
12 3600A	COUNTERTOPS - SOLID SURFACE
14 2400A	HYDRAULIC ELEVATORS

PARTITION TAG DIAGRAM

PARTITION STRUCTURE
PARTITION STYLE
N6A 60 — FIRE RATING (WHERE NEEDED)
CORE SIZE

FINISH STYLE
XX

PARTITION STRUCTURE:

N. NON-STRUCTURAL METAL FRAMING (NSMF)
M. CONCRETE MASONRY
S. SHAFT WALL

FINISH STYLE:

CT	CERAMIC TILE
WD	WOOD PANELING
WC	WALL COVERING
AWP	ACOUSTIC PANEL

CORE SIZE:

0 = 0 7/8"	4 = 4"
1 = 1 5/8"	5 = 5 1/2"
2 = 2 1/2"	6 = 6" (NOM. @ MASONRY)
3 = 3 5/8"	8 = 8" (NOM. @ MASONRY)

FIRE RATING:

30 = 30 MIN.
45 = 45 MIN.
60 = 60 MIN.
90 = 90 MIN.
2 = 2 HOUR

PARTITION STYLE:

A. (1) SUBSTRATE + CORE + (1) SUBSTRATE
B. (1) SUBSTRATE + CORE
~~C. CORE ONLY~~
D. (2) SUBSTRATE + CORE + (2) SUBSTRATE
E. (2) SUBSTRATE + CORE + (1) SUBSTRATE
F. (2) SUBSTRATE + CORE
G. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
H. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION
~~I. NOT USED~~
J. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (2) SUBSTRATE
K. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
L. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION

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FLOOR PLAN - LOWER LEVEL & BASEMENT

A101

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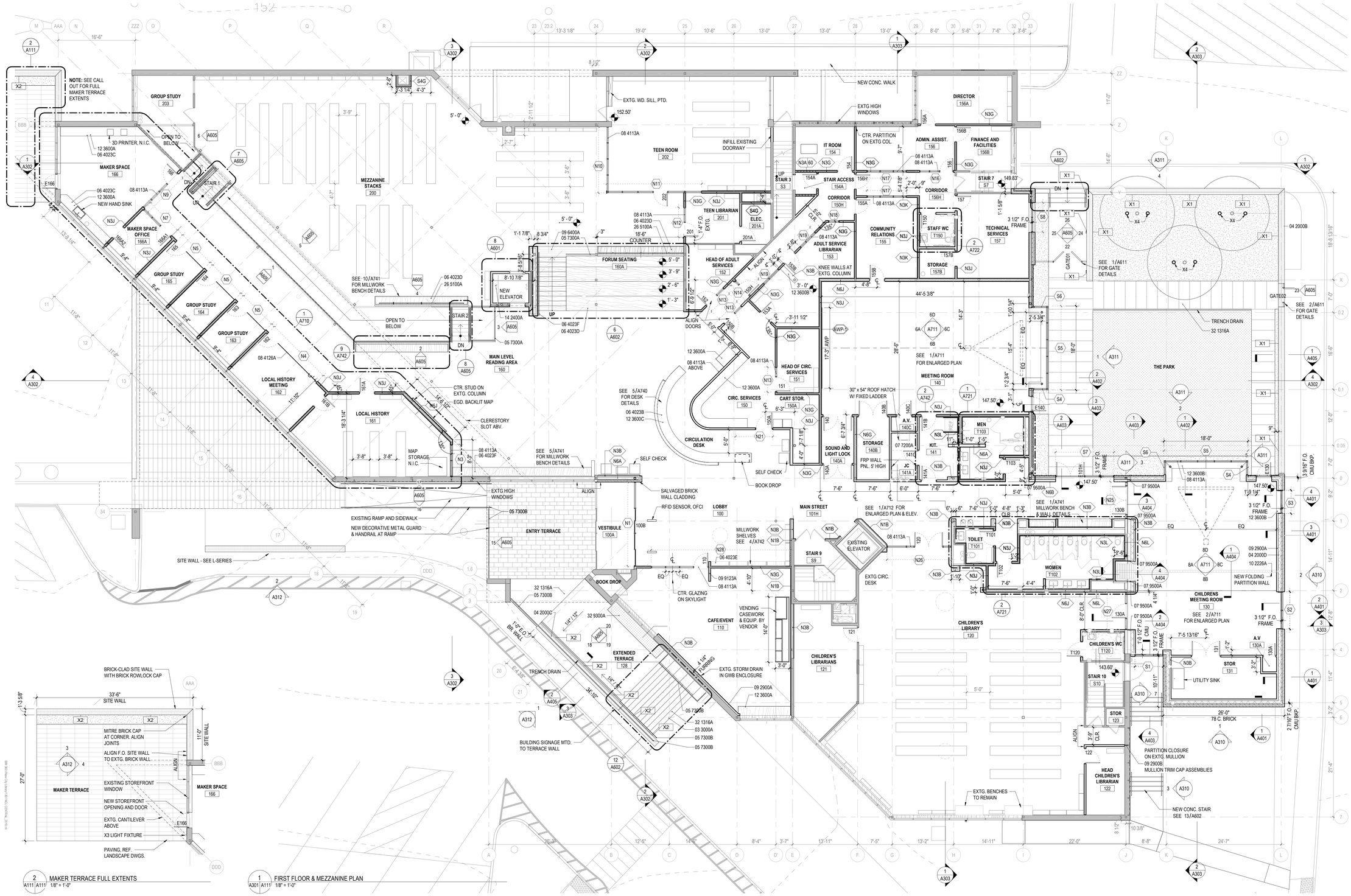

2 A111 | A111' MAKER TERRACE FULL EXTENTS 1/8" = 1'-0"

1 A301 | A111' FIRST FLOOR & MEZZANINE PLAN 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE LANDSCAPE DRAWINGS FOR HARDSCAPE ELEMENTS, PAVING AND SITE WALL ADJACENT TO THE BUILDING.
2. LOCATE ROUGH OPENINGS FOR DOORS 4" FROM INSIDE FACE OF INTERSECTING WALL UNLESS OTHERWISE NOTED.
3. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL RATED CONSTRUCTION INFORMATION.
4. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, MASONRY OPENING, AND OUTSIDE EDGE OF DOOR FRAME (NOMINAL), U.N.O.
5. PROVIDE ACCESS PANELS / DOORS IN PARTITIONS AT ALL LOCATIONS REQUIRING ACCESS. PANELS SHALL MAINTAIN FIRE RATING.
6. PROVIDE WOOD BLOCKING OR 18 GAUGE METAL STRAPPING BEHIND G.W.B. WHERE REQUIRED TO SUPPORT FIXTURES OR EQUIPMENT PROVIDED IN THE CONTRACT OR BY OTHERS.
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13. SEE ELEVATION SHEETS A300 FOR EXTERIOR FRAME TYPE TAGS. SEE A800 SERIES FOR FRAME TYPES.
14. SEE PLANS & INTERIOR ELEVATION A700 SHEETS FOR INTERIOR FRAME TYPE TAGS. SEE A800 SHEETS FOR FRAME TYPES.

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
04 2000B	BRICK VENEER COLOR 2
04 2000C	BRICK VENEER ROWLOCK
04 2000D	CONCRETE MASONRY UNITS
05 7300A	DECORATIVE METAL RAILINGS - INTERIOR
05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
06 4023B	INTERIOR ARCHITECTURAL WOODWORK - WOOD CABINETS
06 4023C	INTERIOR ARCHITECTURAL WOODWORK - PLAM ARCH. CABINETS
06 4023D	INTERIOR ARCHITECTURAL WOODWORK - FLUSH WOOD PANELING
06 4023E	INTERIOR ARCHITECTURAL WOODWORK - WOOD SHELVING
06 4023F	INTERIOR ARCHITECTURAL WOODWORK - WOOD SEATING
07 9500A	EXPANSION CONTROL - INTERIOR
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 4126A	ALL-GLASS ENTRANCES AND STOREFRONTS
09 2900A	GYPSUM BOARD
09 2900B	MULLION TRIM CAP ASSEMBLIES
09 6400A	WOOD FLOORING
09 9123A	INTERIOR PAINTING

KEYNOTES

10 2226A	FOLDING PANEL PARTITIONS
12 3600A	COUNTERTOPS - SOLID SURFACE
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS
12 3600C	COUNTERTOPS - QUARTZ AGGLOMERATE
14 2400A	HYDRAULIC ELEVATORS
26 5100A	INTERIOR LIGHTING
32 1316A	DECORATIVE CONCRETE PAVING
32 9300A	PLANTS

PARTITION TAG DIAGRAM

N6A 60 XX

- PARTITION STRUCTURE
- PARTITION STYLE
- FIRE RATING (WHERE NEEDED)
- CORE SIZE
- FINISH STYLE

PARTITION STRUCTURE:

N. NON-STRUCTURAL METAL FRAMING (NSMF)
M. CONCRETE MASONRY
S. SHAFT WALL

FINISH STYLE:

CT CERAMIC TILE
WD WOOD PANELING
WC WALL COVERING
AWP ACOUSTIC PANEL

PARTITION STYLE:

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B. (1) SUBSTRATE + CORE
C. CORE ONLY
D. (2) SUBSTRATE + CORE + (2) SUBSTRATE
E. (2) SUBSTRATE + CORE + (1) SUBSTRATE
F. (2) SUBSTRATE + CORE
G. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
H. (1) SUBSTRATE + CORE W/ SOUND ATTENUATION
I. NOT USED
J. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (2) SUBSTRATE
K. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION + (1) SUBSTRATE
L. (2) SUBSTRATE + CORE W/ SOUND ATTENUATION

CORE SIZE:

0 = 0 7/8" 4 = 4"
1 = 1 5/8" 5 = 5 1/2"
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60 = 60 MIN.
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FLOOR PLAN - FIRST FLOOR & MEZZANINE

A111

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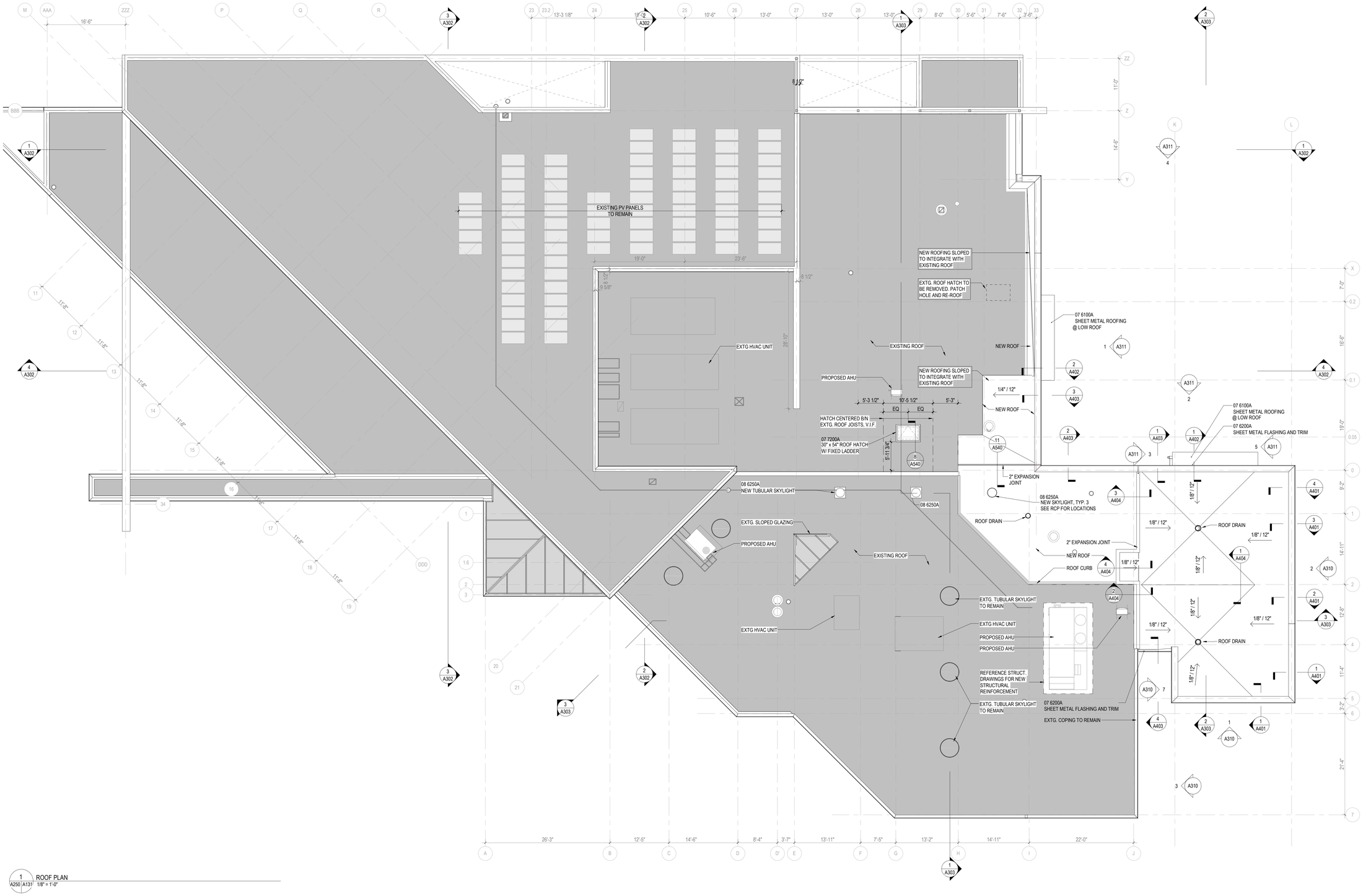

1 A250 A131 ROOF PLAN 1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ALL TAPERED ROOFING INSULATION SHALL HAVE A MINIMUM DEPTH OF **????** AT DRAINS & SLOPE TO DRAIN AT 1/4" PER FOOT, TYPICAL.
2. PROVIDE CRICKETS AT ALL OBSTRUCTIONS TO MAINTAIN POSITIVE DRAINAGE.
3. ALL BLOCKING SHALL BE PRESSURE TREATED. PROVIDE FLEXIBLE FLASHING THAT IS COMPATIBLE WITH SPECIFIED ROOF MEMBRANE AS A SEPARATION FROM STEEL DECKING.
4. ALL ROOF-MOUNTED MECHANICAL EQUIPMENT THAT REQUIRES SERVICE SHALL BE LOCATED MORE THAN 10 FEET FROM EDGE OF ROOF. IF ANY MECHANICAL EQUIPMENT REQUIRING SERVICE CANNOT BE LOCATED 10 FEET FROM EDGE OF ROOF, CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE PROCEEDING.
5. PROVIDE WALKWAY PADS AT ALL ROOF ACCESS POINTS AND TO ALL ROOFTOP MOUNTED MECHANICAL UNITS.
6. COORDINATE ALL ROOF PENETRATIONS W/ MECH., PLUMB., ELEC. AND STRUCTURAL DRAWINGS. SEE M.E.P. DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS NOT SHOWN.
7. FLASH & SEAL ALL PENETRATIONS & CURBS PER ROOFING MANUFACTURER'S RECOMMENDED DETAILS AND APPLICABLE NRCA PLATES.
8. PROVIDE CONTINUOUS ROOF MEMBRANE OVER ALL CURBS AND EQUIPMENT PADS. PAD & CURB SIZES ARE TO BE DETERMINED BY EQUIPMENT REQUIREMENTS.
9. ROOF EXPANSION JOINTS TO BE COORDINATED W/ CEILING, WALL & FLOOR EXPANSION JOINTS.
10. PROVIDE CONTINUOUS FLASHING & COUNTER FLASHING AT ALL ROOF TO WALL CONDITIONS & PARAPET CONDITIONS.
11. REFER TO ROOFING MANUFACTURER'S REQUIREMENTS FOR CAP SHEET FLASHING, BASE TIE-INS AND SEALANT BEADS.
12. REFER TO APPLICABLE FACTORY MUTUAL LISTING FOR FASTENING METHODS AND SPACING.
13. REFER TO TYPICAL ROOF ASSEMBLIES FOR TYPICAL ROOF TYPES
14. SLOPE ALL COPINGS TOWARD ROOF U.N.O.

KEYNOTES

07 6100A	SHEET METAL ROOFING
07 6200A	SHEET METAL FLASHING AND TRIM
07 7200A	ROOF ACCESSORIES - ROOF CURBS
08 6250A	TUBULAR DAYLIGHT DEVICES

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ROOF PLAN

A131

CONSTRUCTION DOCUMENTS
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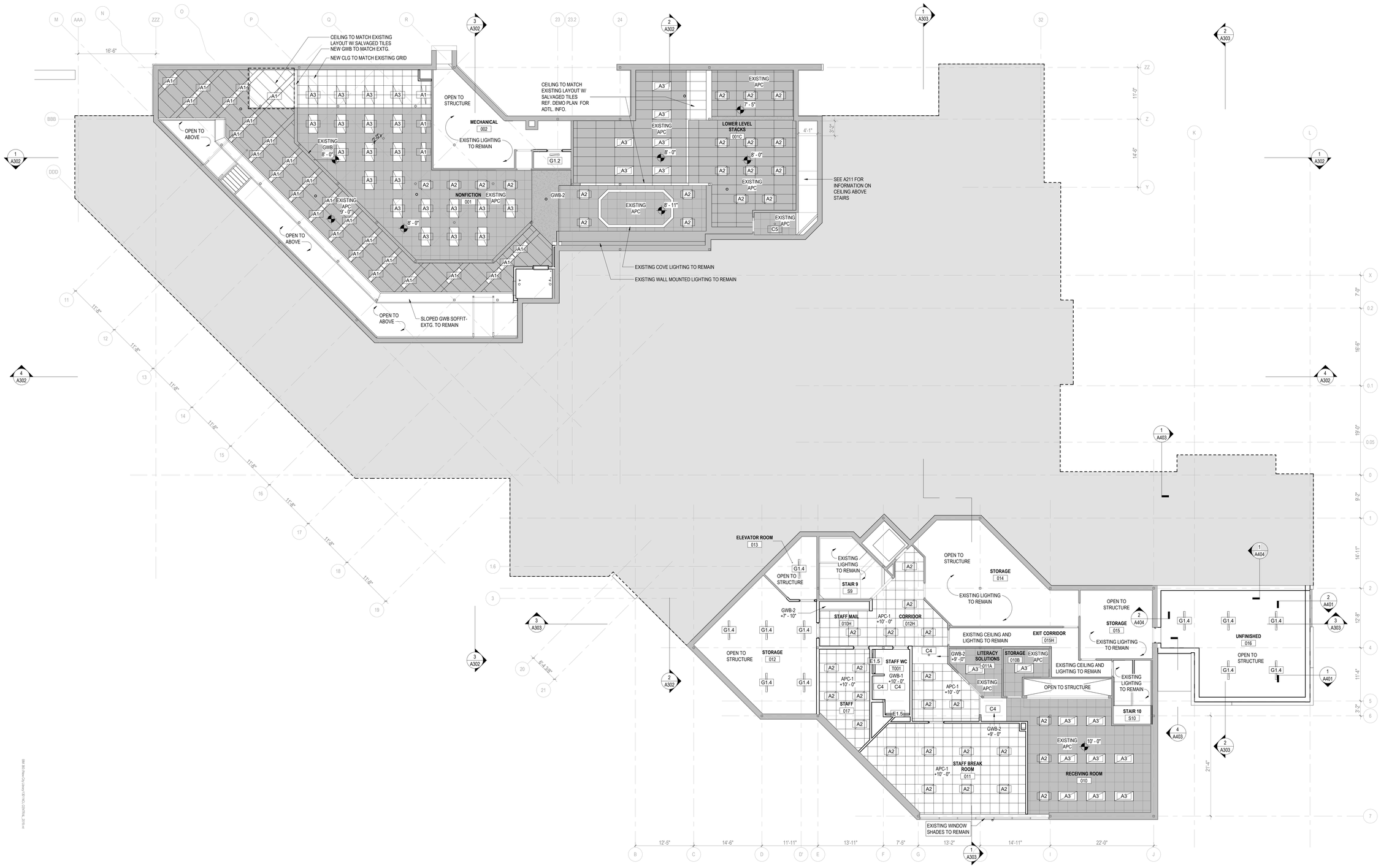

1 A201 RCP LOWER LEVELS
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. CEILING HEIGHTS ARE MEASURED FROM FINISHED FLOOR.
2. REFER TO REFLECTED CEILING PLANS FOR GRID LAYOUTS AND FIXTURE LOCATIONS & COORDINATE WITH MEP. IN CASE OF CONFLICT, CONSULT ARCHITECT. SEE ELECTRICAL FOR SPECIFIC LIGHT FIXTURE TYPE DESIGNATION.
3. PAINT ALL STRUCTURE AND INFRASTRUCTURE COMPONENTS AND SURFACES AT OPEN OR EXPOSED CEILINGS.
4. SPRINKLERS, WHERE SHOWN, INDICATE PREFERRED RELATIONSHIP TO ADJACENT BUILDING ELEMENTS ONLY. ALL SPRINKLER PIPING IS TO BE CONCEALED IN WALL OR CEILING CAVITIES. CONSULT WITH ARCHITECT ON CONFLICTS.
5. ALL SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE CENTERED IN EACH ROOM PER THE REFLECTED CEILING PLAN U.N.O.
6. CENTER SPRINKLER HEADS, MECHANICAL AIR DEVICES, LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES IN ACOUSTICAL CEILING PANELS, U.N.O.
7. LOCATE M.E.P. COMPONENTS REQUIRING ACCESS AT ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE. WHERE CEILINGS ARE INACCESSIBLE, PROVIDE ACCESS PANELS.
8. SOME M.E.P. COMPONENTS, ELECTRICAL DEVICES AND PLUMBING DEVICES MAY NOT BE SHOWN. REFER TO M.E.P. DRAWINGS.
9. PROVIDE VERTICAL GYP. BD. AT ALL CEILING HEIGHT TRANSITIONS, U.N.O.

LEGEND - CEILING TYPE

GWB-01	5/8" GYP. BOARD ON SUSPENSION SYSTEM	SDG-01	SUSPENDED LINEAR WOOD CEILING
GWB-02	5/8" GYP. BOARD ON STRUCTURE		
APC-01	2' x 2' ACOUSTIC PANEL CEILING	WD-01	WOOD PANEL CEILING
APC-02	2' x 4' ACOUSTIC PANEL CEILING		EXISTING ACOUSTIC PANEL CEILING TO REMAIN WHERE INDICATED VARIOUS SIZES
APC-03	SUSPENDED BAFFLE CEILING		

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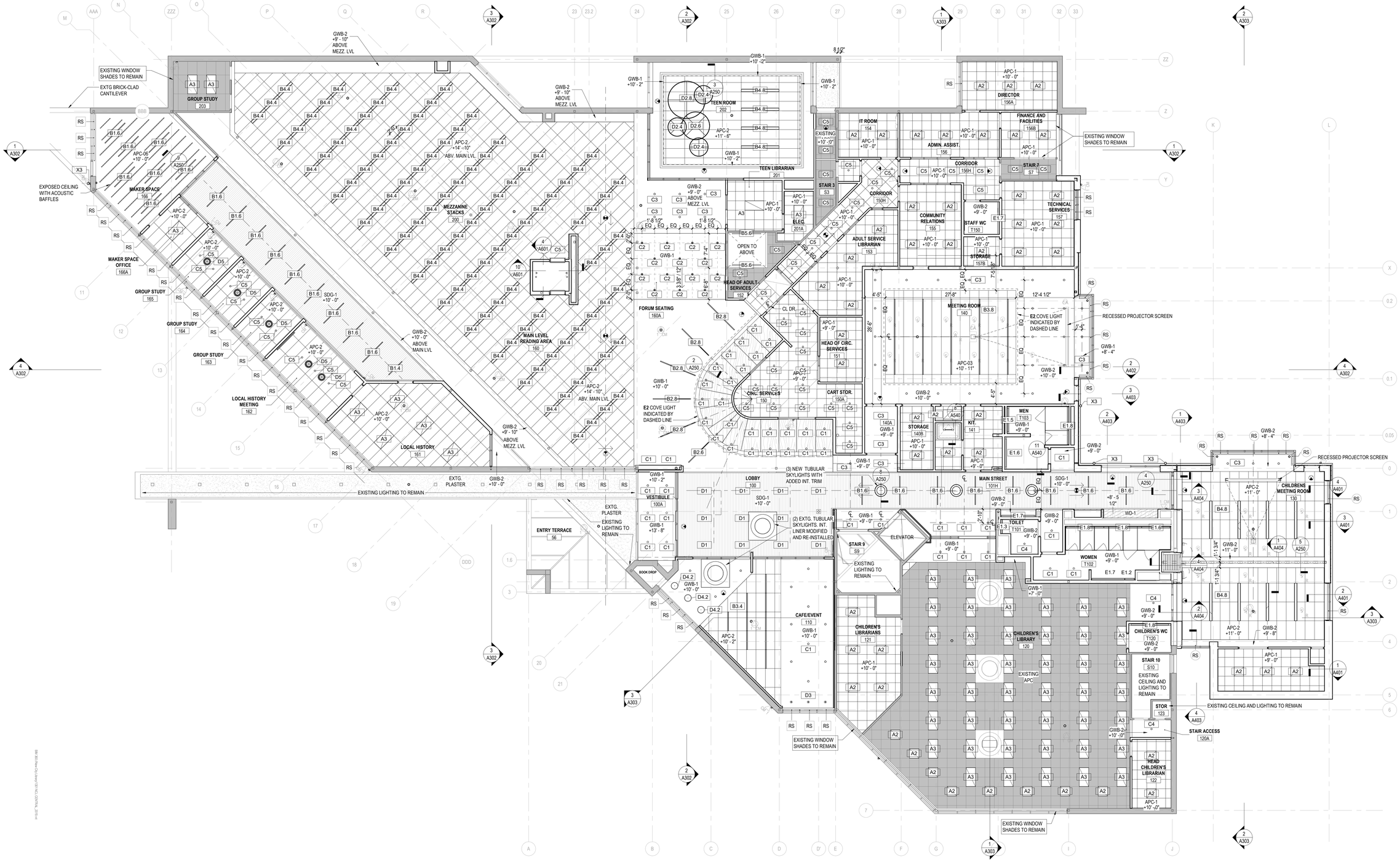
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

REFLECTED CEILING PLAN - LOWER LEVEL & BASEMENT

A201

CONSTRUCTION DOCUMENTS
01.14.2022



1 A211 RCP FIRST FLOOR AND MEZZANINE
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. CEILING HEIGHTS ARE MEASURED FROM FINISHED FLOOR.
2. REFER TO REFLECTED CEILING PLANS FOR GRID LAYOUTS AND FIXTURE LOCATIONS & COORDINATE WITH MEP. IN CASE OF CONFLICT, CONSULT ARCHITECT. SEE ELECTRICAL FOR SPECIFIC LIGHT FIXTURE TYPE DESIGNATION.
3. PAINT ALL STRUCTURE AND INFRASTRUCTURE COMPONENTS AND SURFACES AT OPEN OR EXPOSED CEILINGS.
4. SPRINKLERS, WHERE SHOWN, INDICATE PREFERRED RELATIONSHIP TO ADJACENT BUILDING ELEMENTS ONLY. ALL SPRINKLER PIPING IS TO BE CONCEALED IN WALL OR CEILING CAVITIES. CONSULT WITH ARCHITECT ON CONFLICTS.
5. ALL SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE CENTERED IN EACH ROOM PER THE REFLECTED CEILING PLAN U.N.O.
6. CENTER SPRINKLER HEADS, MECHANICAL AIR DEVICES, LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES IN ACOUSTICAL CEILING PANELS, U.N.O.
7. LOCATE M.E.P. COMPONENTS REQUIRING ACCESS AT ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE. WHERE CEILINGS ARE INACCESSIBLE, PROVIDE ACCESS PANELS.
8. SOME M.E.P. COMPONENTS, ELECTRICAL DEVICES AND PLUMBING DEVICES MAY NOT BE SHOWN. REFER TO M.E.P. DRAWINGS.
9. PROVIDE VERTICAL GYP. BD. AT ALL CEILING HEIGHT TRANSITIONS, U.N.O.

LEGEND - CEILING TYPE

GWB-01	5/8" GYP. BOARD ON SUSPENSION SYSTEM
GWB-02	5/8" GYP. BOARD ON STRUCTURE
APC-01	2' x 2' ACOUSTIC PANEL CEILING
APC-02	2' x 4' ACOUSTIC PANEL CEILING
APC-03	SUSPENDED BAFFLE CEILING
SDG-01	SUSPENDED LINEAR WOOD CEILING
WD-01	WOOD PANEL CEILING
	EXISTING ACOUSTIC PANEL CEILING TO REMAIN WHERE INDICATED VARIOUS SIZES

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GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

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REFLECTED CEILING PLAN - FIRST FLOOR & MEZZANINE

A211

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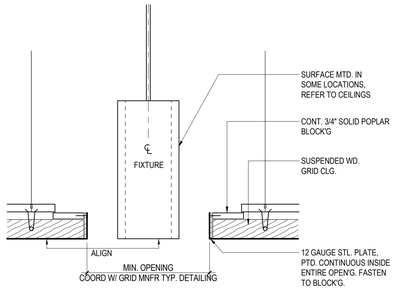
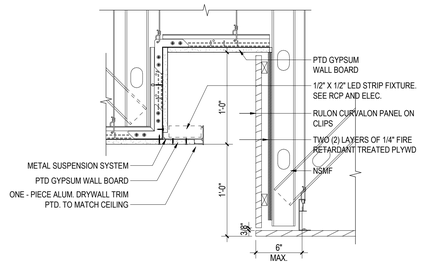
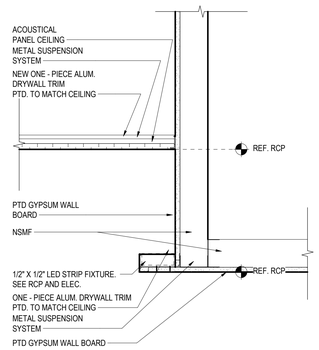


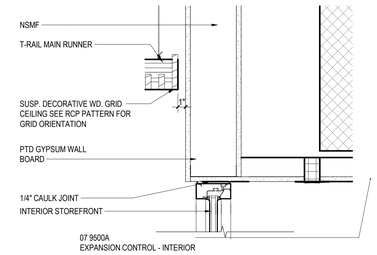
1 A250 TYP. CLG. DTL. SECTION - @ DECOR. WD. GRID & SQUAR PENDANT DOWNLIGHT D1
N.T.S.



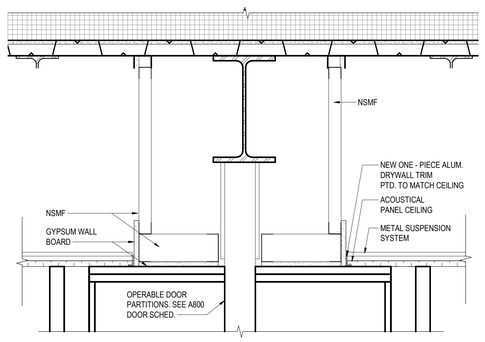
2 A211 A250 WOOD CEILING COVE DETAIL AT CIRCULATION DESK
1 1/2" = 1'-0"



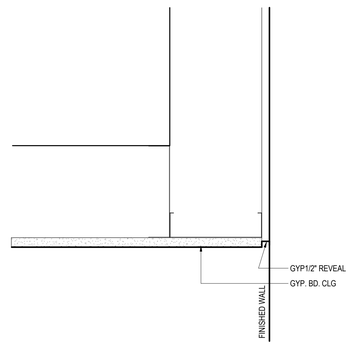
3 A211 A250 DETAIL AT CEILING CLOUD EDGE
1 1/2" = 1'-0"



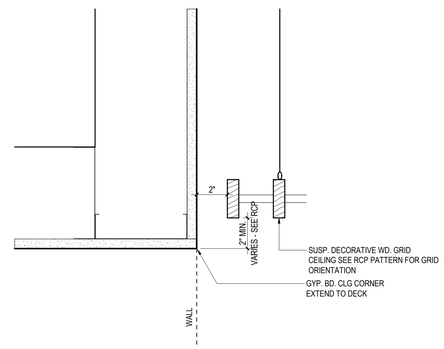
4 A211 A250 CEILING DETAIL AT STOREFRONT AND WOOD GRILLE CEILING
1 1/2" = 1'-0"



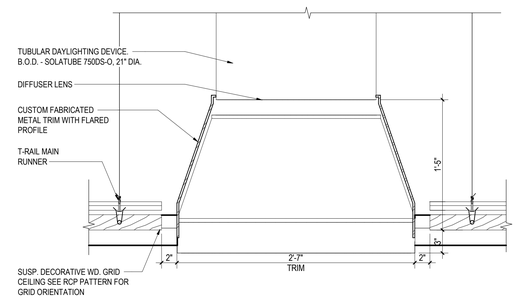
5 A211 A250 CEILING DETAIL AT FOLDING PARTITION
1 1/2" = 1'-0"



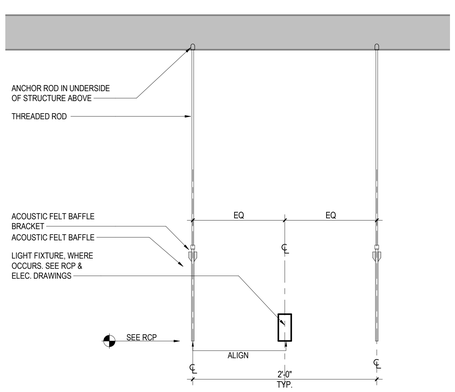
6 A250 TYP. CLG. DTL. SECTION - TRANSITION GWB TO FINISHED WALL
N.T.S.



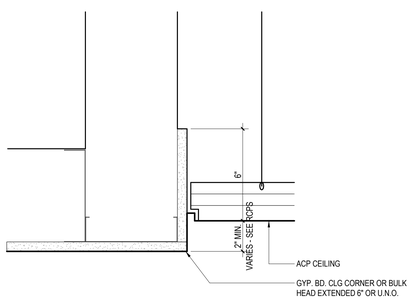
7 A712 A250 TYP. CLG. DTL. SECTION - TRANSITION GWB TO DECOR. WD. GRID
N.T.S.



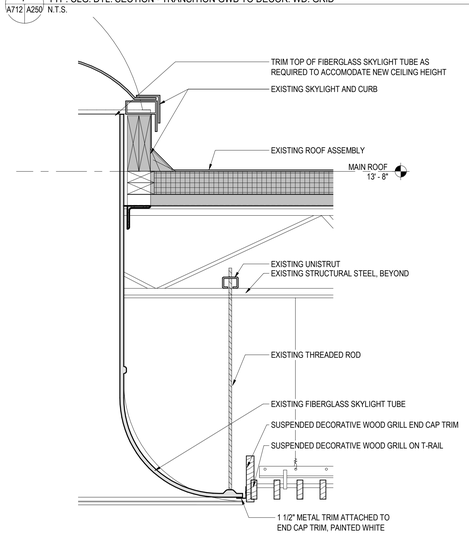
8 A211 A250 TYPICAL DETAIL AT SKYLIGHT AND WOOD GRILLE
1 1/2" = 1'-0"



9 A211 A250 CEILING DETAIL AT MAKER SPACE ACOUSTIC BAFFLE
1 1/2" = 1'-0"



10 A250 TYP. CLG. DTL. SECTION - TRANSITION GWB TO ACP
N.T.S.



11 A250 DETAIL @ EXISTING FIBERGLASS SKYLIGHT TUBE
1 1/2" = 1'-0"

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Drawn By JH

GRAPHIC SCALE - 1 1/2" = 1'-0"
0 0' - 8" 1' - 4" 2' - 0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

CEILING DETAILS

A250

CONSTRUCTION DOCUMENTS
01.14.2022

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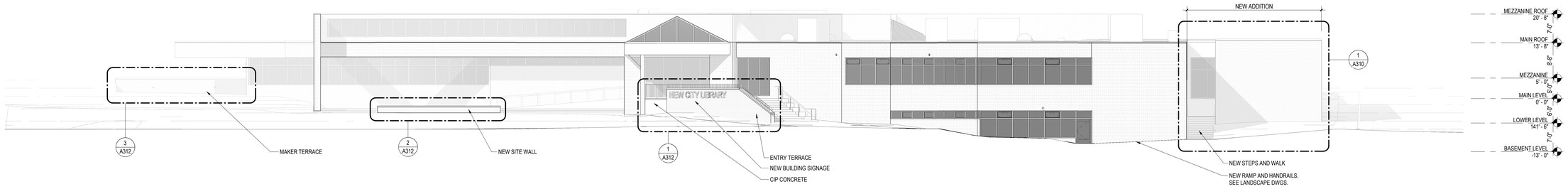
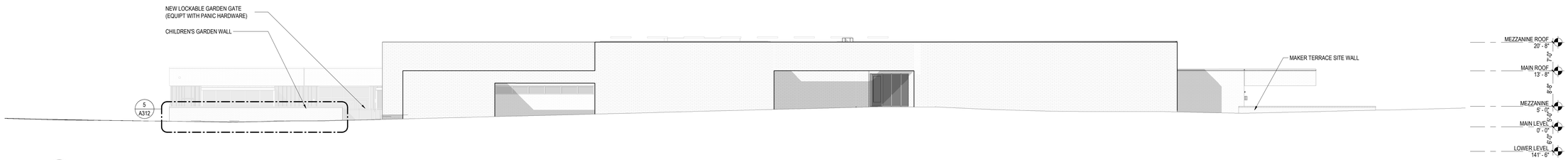
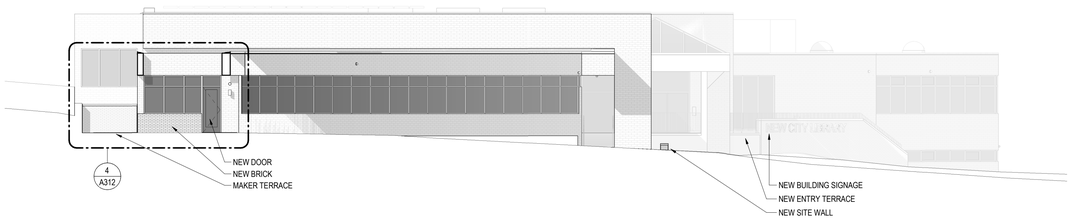


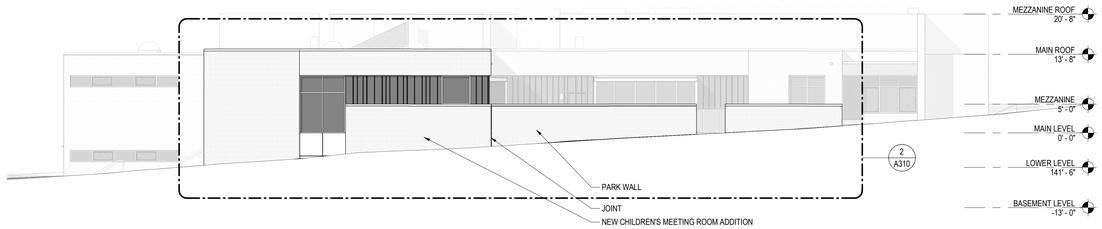
1 A010 A301 OVERALL EAST ELEVATION
3/32" = 1'-0"



2 A010 A301 OVERALL WEST ELEVATION
3/32" = 1'-0"



3 A010 A301 OVERALL SOUTH ELEVATION
3/32" = 1'-0"



4 A010 A301 OVERALL NORTH ELEVATION
3/32" = 1'-0"

GRAPHIC SCALE - 3/32" = 1'-0"
0 8' - 8" 17' - 4" 26' - 0"

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STATE OF NEW YORK

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Drawn By HO

ISSUES AND REVISIONS

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KEY EXTERIOR ELEVATIONS

A301

CONSTRUCTION DOCUMENTS
01.14.2022

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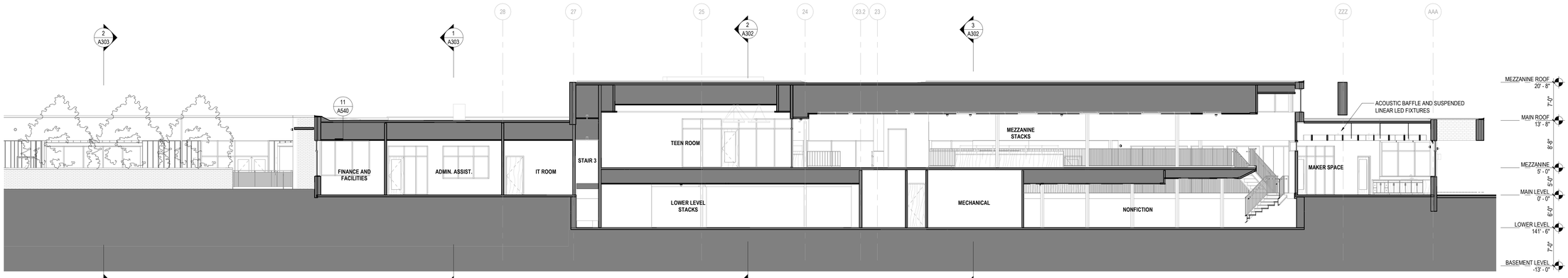
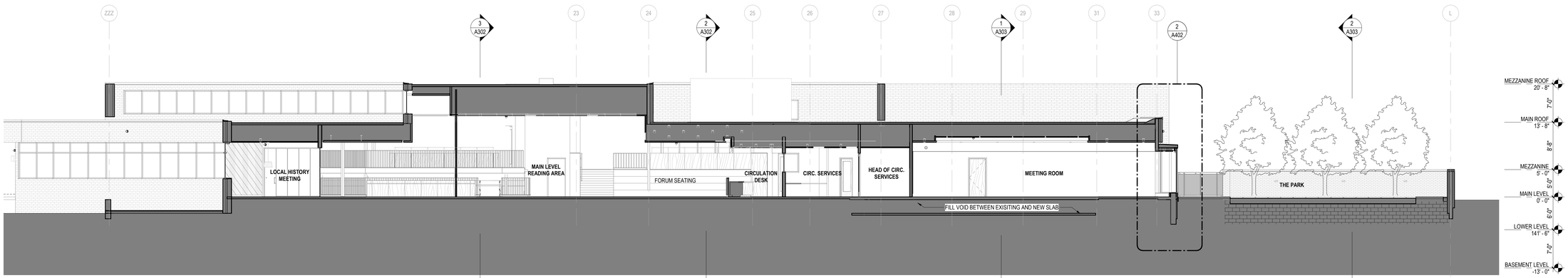
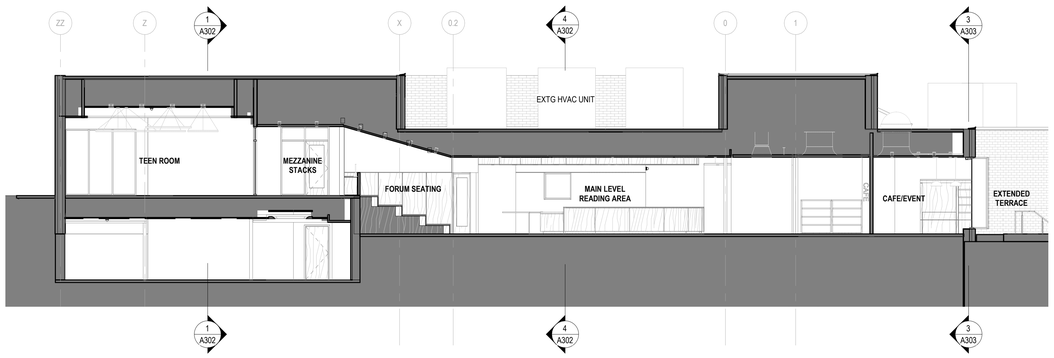
Rev 21.0.0.20220-1-5-5



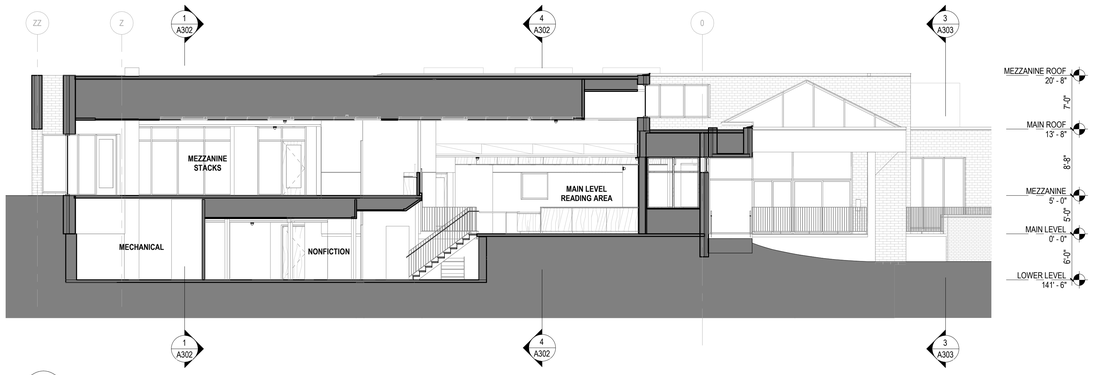
1 A010 A302 BUILDING SECTION THROUGH MEZZANINE - NS
1/8" = 1'-0"



4 A010 A302 BUILDING SECTION THROUGH EVENT SPACE - NS
1/8" = 1'-0"



2 A010 A302 BUILDING SECTION THROUGH FORUM SEATING - EW
1/8" = 1'-0"



3 A010 A302 BUILDING SECTION THROUGH MEZZANINE - EW
1/8" = 1'-0"

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GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

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KEY BUILDING SECTIONS

A302

CONSTRUCTION DOCUMENTS
01.14.2022

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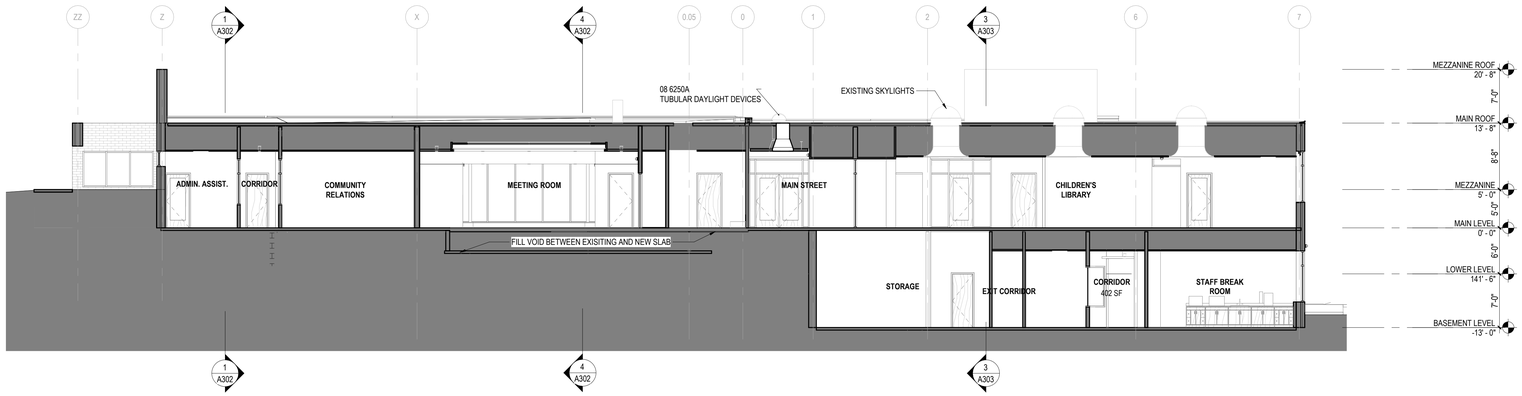
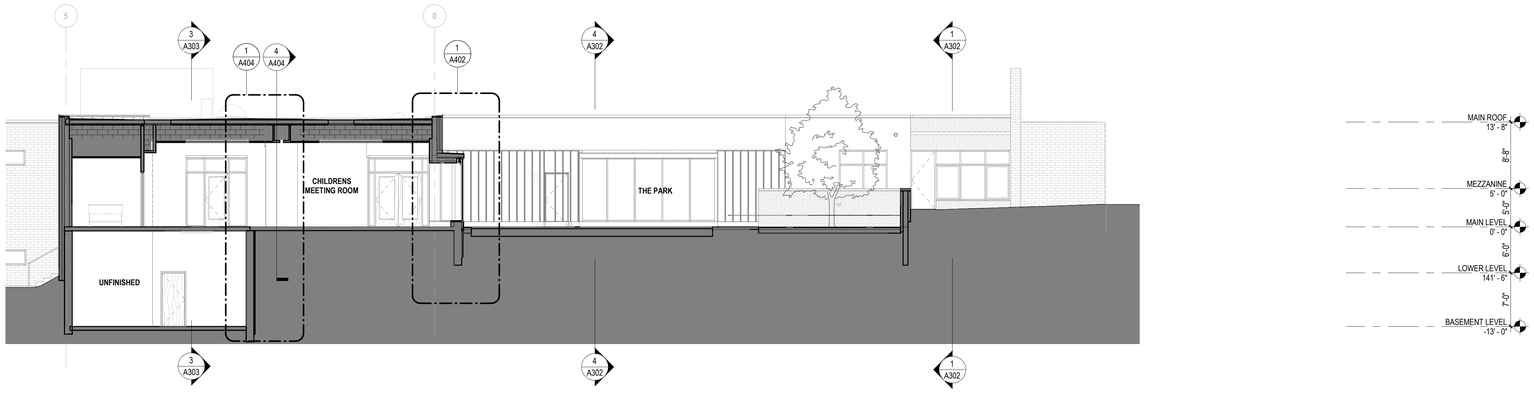
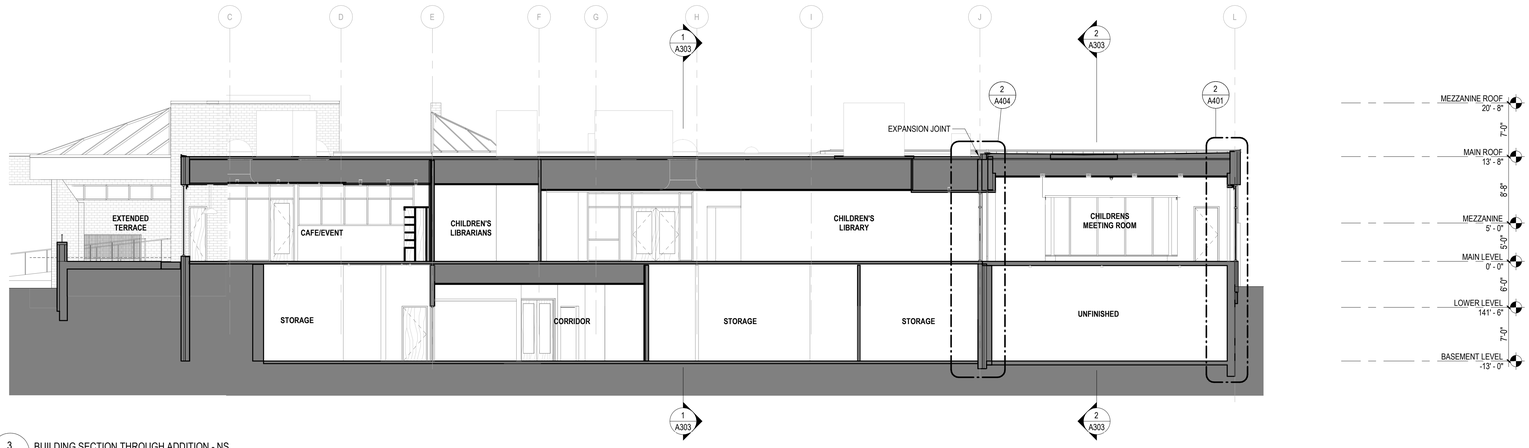


1 A010 | A303 BUILDING SECTION THROUGH CHILDREN'S LIBRARY - EW
1/8" = 1'-0"



2 A010 | A303 BUILDING SECTION THROUGH ADDITION - EW
1/8" = 1'-0"



3 A010 | A303 BUILDING SECTION THROUGH ADDITION - NS
1/8" = 1'-0"

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GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

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KEY BUILDING SECTIONS

A303

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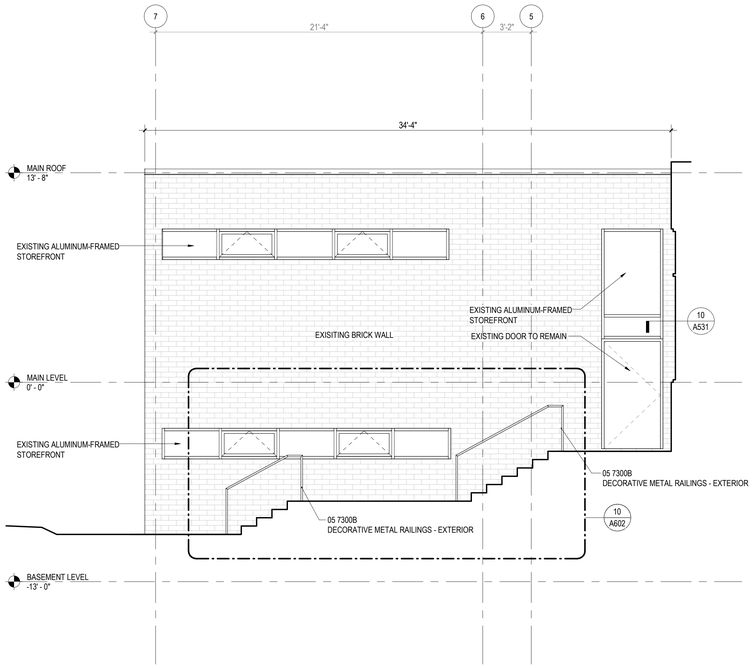
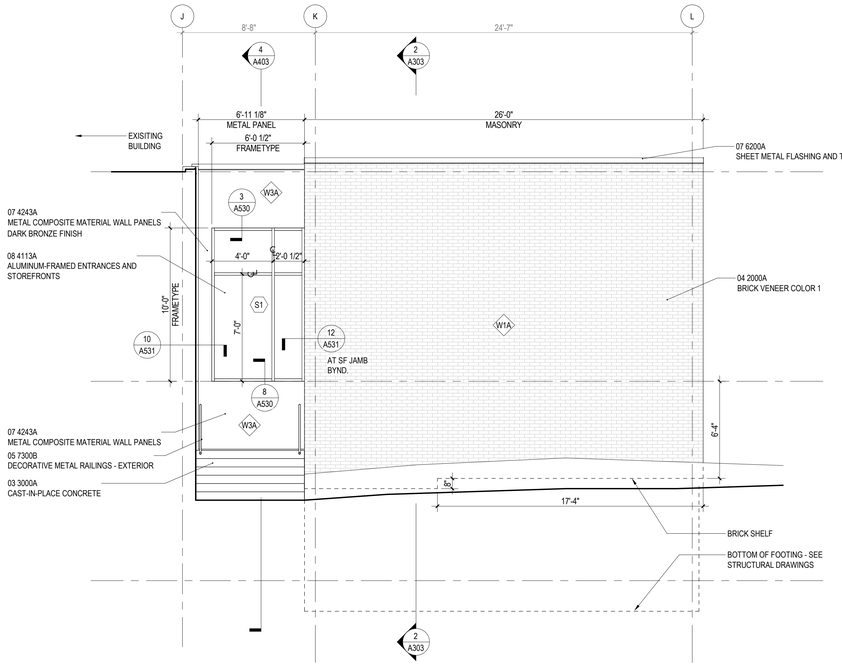
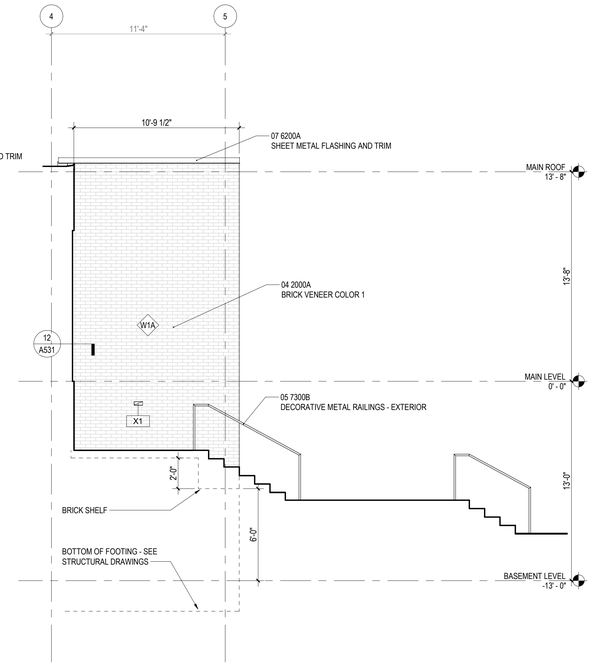
01.14.2022



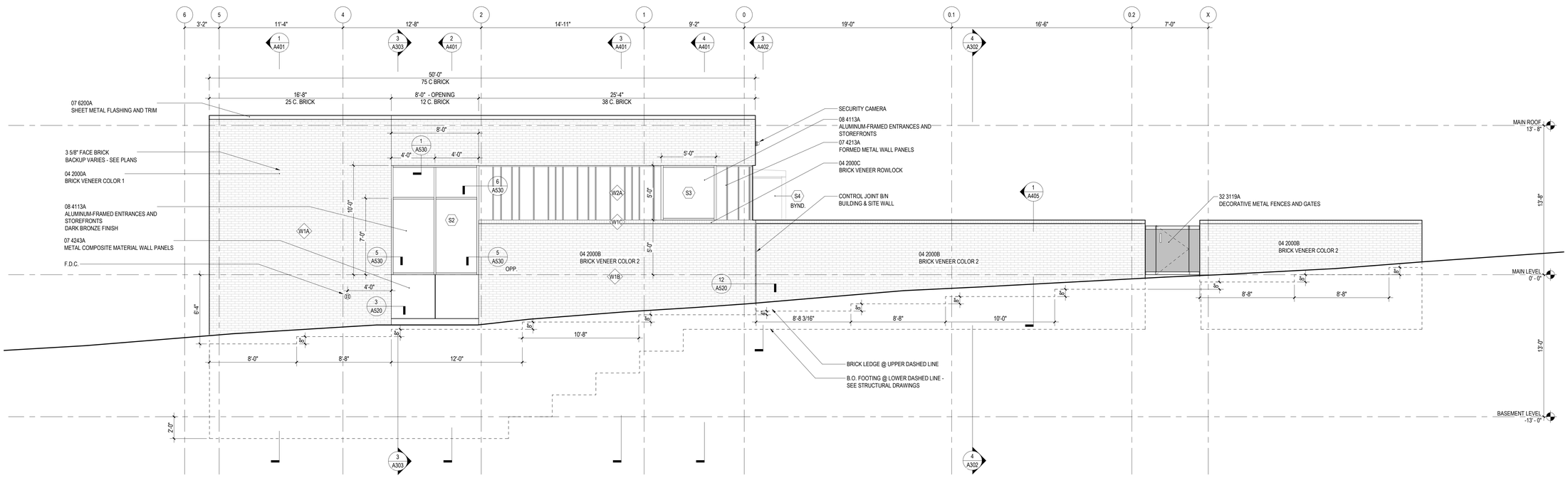
3 A101 A310 NORTH ELEVATION AT EXISTING AND ADDITION GAP
1/4" = 1'-0"



1 A101 A310 ADDITION EAST ELEVATION
1/4" = 1'-0"



7 A101 A310 ADDITION SOUTH ELEVATION AT GAP
1/4" = 1'-0"



2 A101 A310 ADDITION NORTH ELEVATION
1/4" = 1'-0"

ELEVATION / BUILDING SECTION GENERAL NOTES

1. ON SYMMETRICAL DRAWINGS, ALL NOTES AND DIMENSIONS SHOWN ON ONE-HALF OF DRAWING SHALL APPLY TO BOTH HALVES OF DRAWINGS.
2. PROVIDE HIGH PERFORMANCE COATINGS AT ALL EXTERIOR FERROUS METALS (STRUCTURAL AND DECORATIVE).
3. INTERIOR VIEWS IN BUILDING SECTIONS ARE TYPICALLY SIMPLIFIED FOR CLARITY. REFER TO LARGER SCALED INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. FOOTINGS AND FOUNDATIONS ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF WORK.
5. ALL DOWNSPOUTS ARE TO BE 6" TYPICAL, U.N.O.
6. REFERENCE MEP & CIVIL DRAWINGS FOR FULL SCOPE OF M.E.P. AND CIVIL WORK.
7. PROVIDE CAST IRON BOOTS AT ALL DOWNSPOUTS AT GRADE, U.N.O.

FRAME TYPE GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION.
2. DIMENSIONS SHOWN ARE NOMINAL AND/OR ROUGH OPENINGS. CONTRACTOR TO ACCOUNT FOR JOINTS, SHIMS, SEALANT, ETC.
3. CONTRACTOR RESPONSIBLE TO COORDINATE ALL ALUMINUM FRAMES WITH ALL RELEVANT DETAILS DEPICTED THROUGHOUT DRAWINGS.
4. COORDINATE ALL ALUMINUM FRAMES WITH SPECIFICATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO PROVIDING ENGINEERING TO VERIFY REQUIRED WIND LOADING CRITERIA IS MET IN ALL CASES.
5. ALUMINUM FRAME DRAWINGS REPRESENT DESIGN INTENT. SHOP DRAWINGS ARE REQUIRED PRIOR TO FABRICATION.
6. SOME FRAME TYPES ARE REPEATED AS SIMILAR OR OPPOSITE. SEE ELEVATIONS FOR QUANTITIES, LOCATIONS, AND INSTALLATION.
7. COORDINATE ALL HARDWARE WITH DOOR SCHEDULE AND SPECIFICATIONS.
8. SEE DOOR SCHEDULE FOR TYPICAL DOOR TYPES, WHICH INCLUDE ALUMINUM DOORS INSTALLED IN ALUMINUM FRAMES.

SAFETY GLAZING NOTES

REFER TO THE BUILDING CODE OF NEW YORK STATE (BCNYS 2020, CHAPTER 24) FOR DEFINITION OF "HAZARDOUS LOCATIONS" AND LIST OF LOCATIONS WHERE SAFETY GLAZING IS REQUIRED.

FOR WINDOWS AND DOORS SCHEDULED ON THIS PROJECT, SAFETY GLAZING IS REQUIRED IN HAZARDOUS LOCATIONS THAT MEET ALL OF THE FOLLOWING CRITERIA:

1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQ. FT.
2. THE EXPOSED BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR.
3. THE TOP EDGE IS GREATER THAN 36" ABOVE WALKING SURFACE, AND
4. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36" HORIZONTALLY OF THE PANE OF GLAZING .(EXCEPTION: THE OUTBOARD PANE OF INSULATED GLASS UNITS WHERE THE BOTTOM EDGE OF GLASS IS 25' OR MORE ABOVE GRADE, ROOF OR WALKING SURFACE OR OTHER HORIZONTAL OR SLOPED SURFACE.)

GLAZING TYPES

GL-01	CLEAR	
GL-01T	CLEAR, FULLY TEMPERED	
GL-03T	CLEAR, FULLY TEMPERED	
GL-05	ULTRACLEAR, ANNEALED INSULATING GLASS UNITS	
GL-05T	ULTRACLEAR, ANNEALED INSULATING GLASS UNITS, FULLY TEMPERED	

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
04 2000A	BRICK VENEER COLOR 1
04 2000B	BRICK VENEER COLOR 2
04 2000C	BRICK VENEER ROWLOCK
05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
07 4243A	METAL COMPOSITE MATERIAL WALL PANELS
07 6200A	SHEET METAL FLASHING AND TRIM
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
32 3119A	DECORATIVE METAL FENCES AND GATES

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NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By JT
Drawn By JT

GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

EXTERIOR ELEVATIONS

A310

CONSTRUCTION DOCUMENTS
01.14.2022

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Charlottesville, VA 22902
1200 18th Street NW Ste 700
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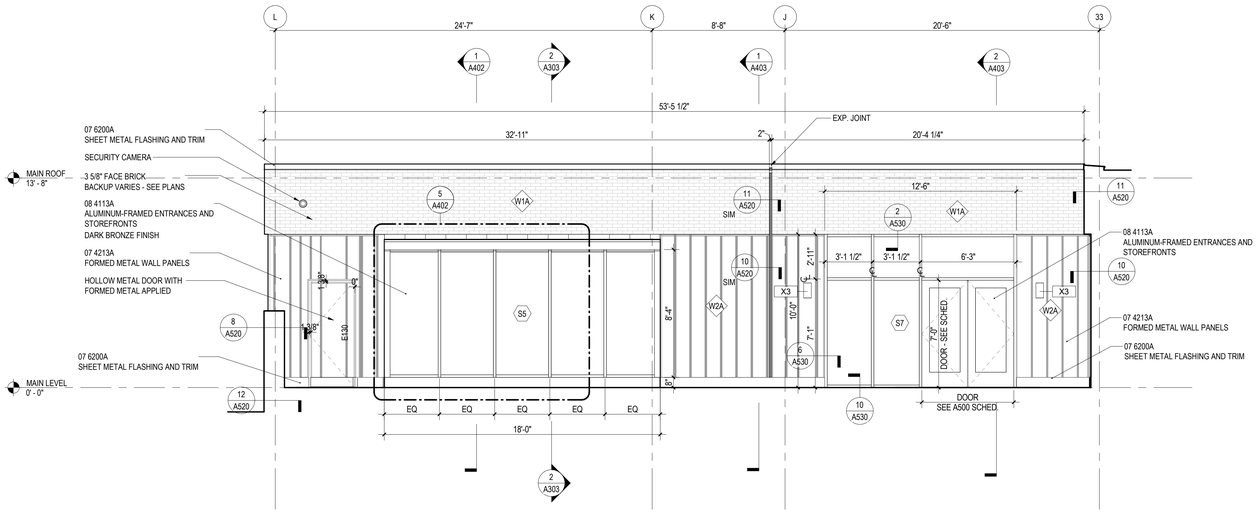

2 A111 A311 ADDITION WEST ELEVATION AT PARK
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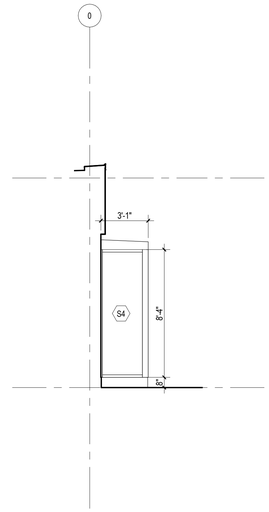
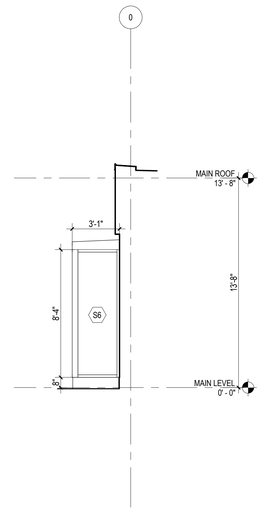
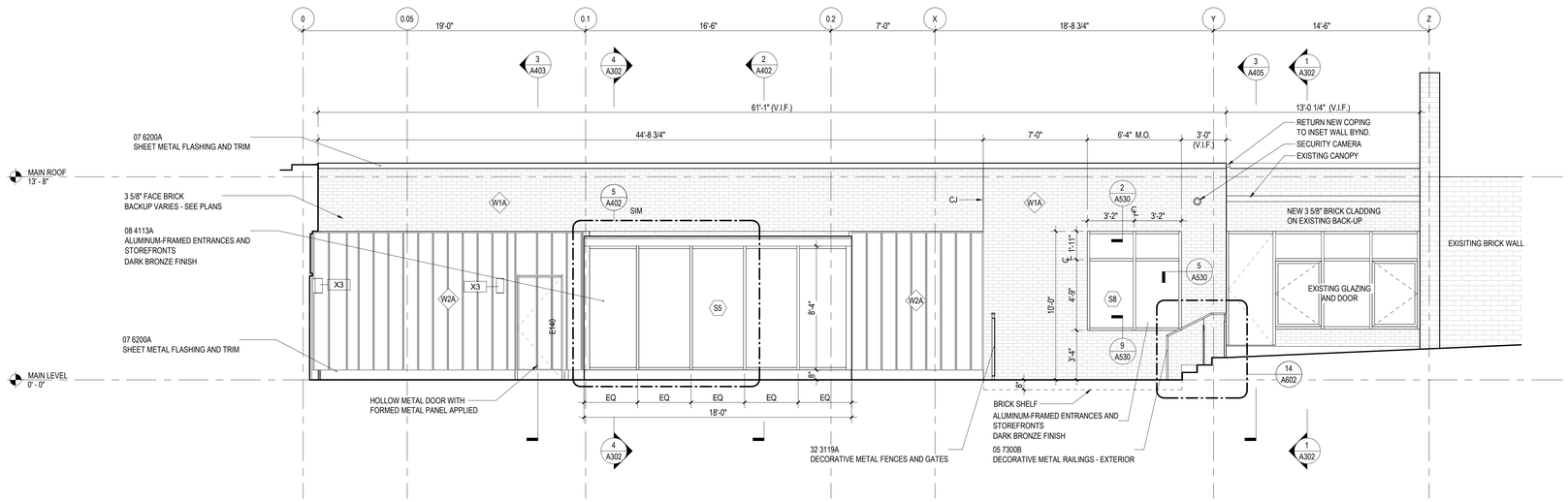


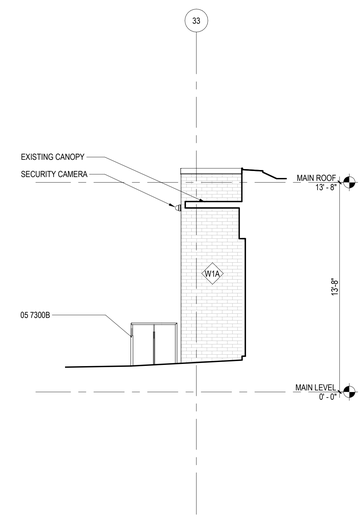
5 A101 A311 ELEVATION AT NORTH SIDE OF ADDITION STOREFRONT BAY
1/4" = 1'-0"



3 A111 A311 ELEVATION AT SOUTH SIDE OF ADDITION STOREFRONT BAY
1/4" = 1'-0"



1 A111 A311 ADDITION NORTH ELEVATION AT PARK
1/4" = 1'-0"



4 A101 A311 EAST ELEVATION AT RE-CLAD WALL
1/4" = 1'-0"

GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

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ELEVATION / BUILDING SECTION GENERAL NOTES

1. ON SYMMETRICAL DRAWINGS, ALL NOTES AND DIMENSIONS SHOWN ON ONE-HALF OF DRAWING SHALL APPLY TO BOTH HALVES OF DRAWINGS.
2. PROVIDE HIGH PERFORMANCE COATINGS AT ALL EXTERIOR FERROUS METALS (STRUCTURAL AND DECORATIVE).
3. INTERIOR VIEWS IN BUILDING SECTIONS ARE TYPICALLY SIMPLIFIED FOR CLARITY. REFER TO LARGER SCALED INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. FOOTINGS AND FOUNDATIONS ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF WORK.
5. ALL DOWNSPOUTS ARE TO BE 6" TYPICAL, U.N.O.
6. REFERENCE MEP & CIVIL DRAWINGS FOR FULL SCOPE OF M.E.P. AND CIVIL WORK.
7. PROVIDE CAST IRON BOOTS AT ALL DOWNSPOUTS AT GRADE, U.N.O.

FRAME TYPE GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION.
2. DIMENSIONS SHOWN ARE NOMINAL AND/OR ROUGH OPENINGS. CONTRACTOR TO ACCOUNT FOR JOINTS, SHIMS, SEALANT, ETC.
3. CONTRACTOR RESPONSIBLE TO COORDINATE ALL ALUMINUM FRAMES WITH ALL RELEVANT DETAILS DEPICTED THROUGHOUT DRAWINGS.
4. COORDINATE ALL ALUMINUM FRAMES WITH SPECIFICATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO PROVIDING ENGINEERING TO VERIFY REQUIRED WIND LOADING CRITERIA IS MET IN ALL CASES.
5. ALUMINUM FRAME DRAWINGS REPRESENT DESIGN INTENT. SHOP DRAWINGS ARE REQUIRED PRIOR TO FABRICATION.
6. SOME FRAME TYPES ARE REPEATED AS SIMILAR OR OPPOSITE. SEE ELEVATIONS FOR QUANTITIES, LOCATIONS, AND INSTALLATION.
7. COORDINATE ALL HARDWARE WITH DOOR SCHEDULE AND SPECIFICATIONS.
6. SEE DOOR SCHEDULE FOR TYPICAL DOOR TYPES, WHICH INCLUDE ALUMINUM DOORS INSTALLED IN ALUMINUM FRAMES.

SAFETY GLAZING NOTES

REFER TO THE BUILDING CODE OF NEW YORK STATE (BCNYS 2020, CHAPTER 24) FOR DEFINITION OF "HAZARDOUS LOCATIONS" AND LIST OF LOCATIONS WHERE SAFETY GLAZING IS REQUIRED.

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GLAZING TYPES

GL-01	CLEAR
GL-01T	CLEAR, FULLY TEMPERED
GL-03T	CLEAR, FULLY TEMPERED FOR ALL GLASS
GL-05	ULTRACLEAR ANNEALED INSULATING GLASS UNITS
GL-05T	ULTRACLEAR ANNEALED INSULATING GLASS UNITS, FULLY TEMPERED

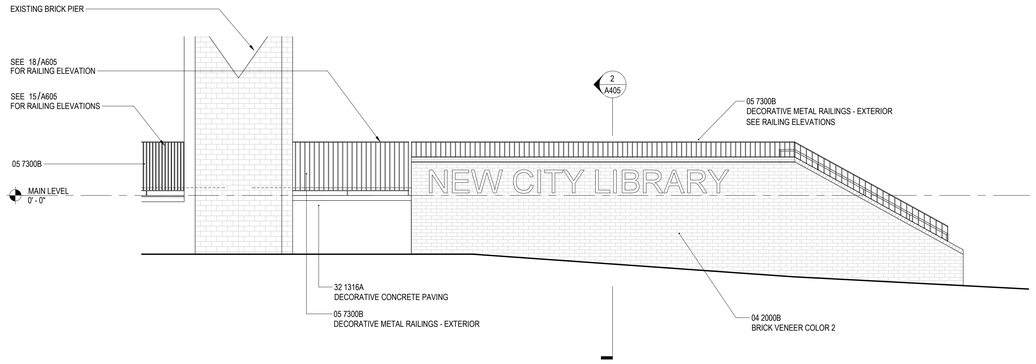
KEYNOTES

05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
07 4213A	FORMED METAL WALL PANELS
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
32 3119A	DECORATIVE METAL FENCES AND GATES

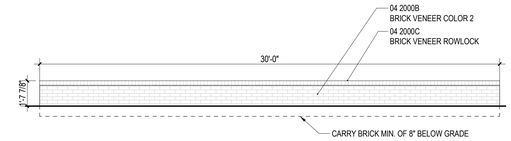
EXTERIOR ELEVATIONS

A311

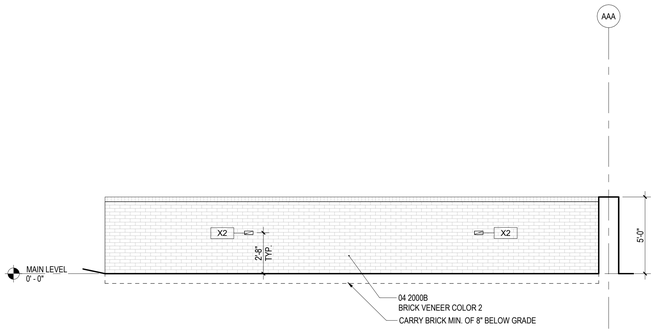
CONSTRUCTION DOCUMENTS
01.14.2022



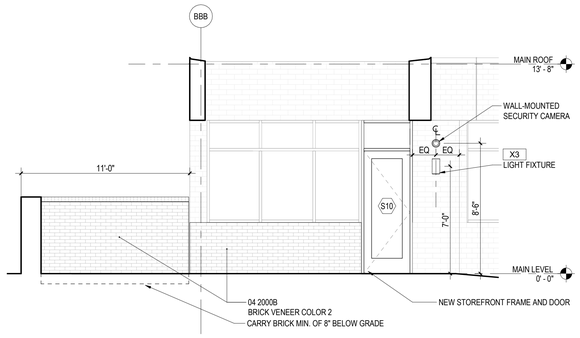
1 A101 A312 ELEVATION AT NEW ENTRY TERRACE WALL
1/4" = 1'-0"



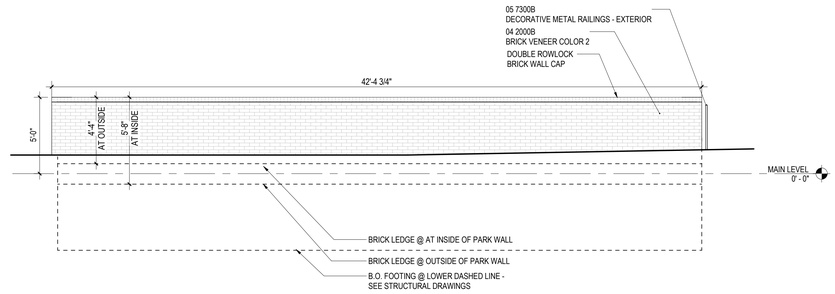
2 A101 A312 ELEVATION AT ENTRY SEAT WALL
1/4" = 1'-0"



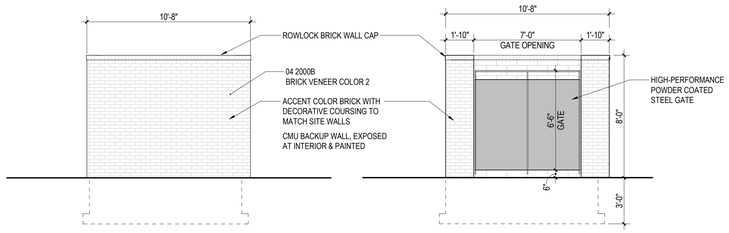
3 A111 A312 EAST ELEVATION AT MAKER TERRACE SITE WALL
1/4" = 1'-0"



4 A111 A312 SOUTH ELEVATION AT MAKER TERRACE SITE WALL
1/4" = 1'-0"



5 A101 A312 WEST ELEVATION AT PARK WALL
1/4" = 1'-0"



6 A010 A312 DUMPSTER ENCLOSURE - OVERALL
1/4" = 1'-0"

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7. PROVIDE CAST IRON BOOTS AT ALL DOWNSPOUTS AT GRADE, U.N.O.

KEYNOTES

04 2000B	BRICK VENEER COLOR 2
04 2000C	BRICK VENEER ROWLOCK
05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
32 1316A	DECORATIVE CONCRETE PAVING

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GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

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EXTERIOR ELEVATIONS - SITE WALLS

A312

CONSTRUCTION DOCUMENTS
01.14.2022

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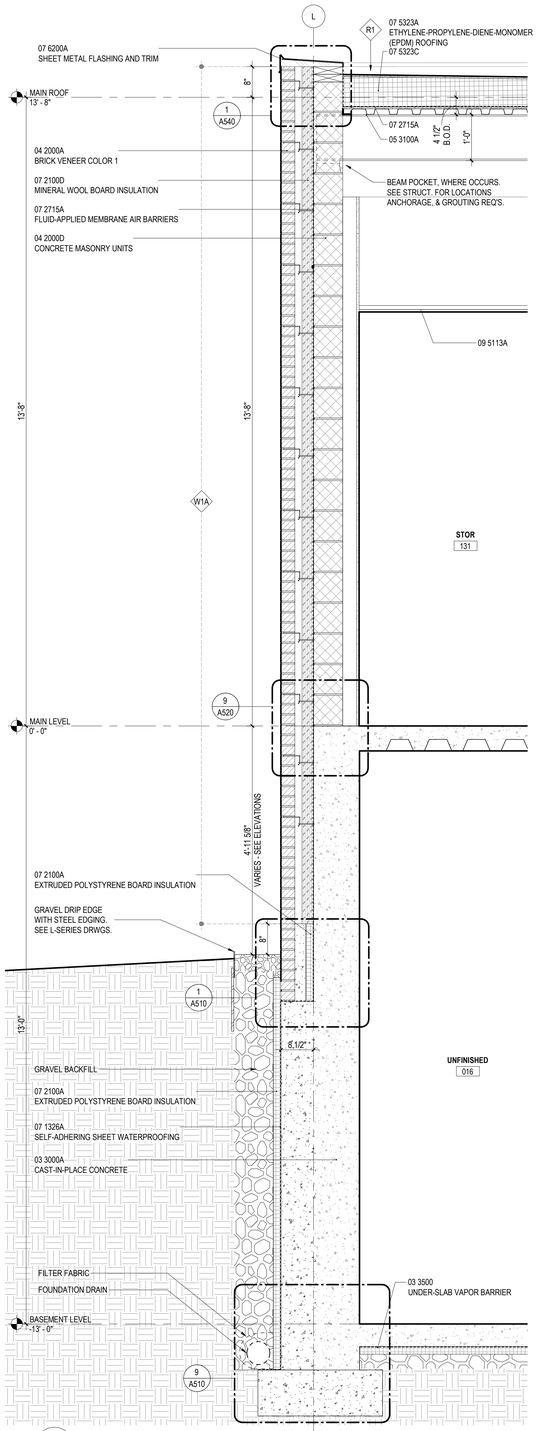
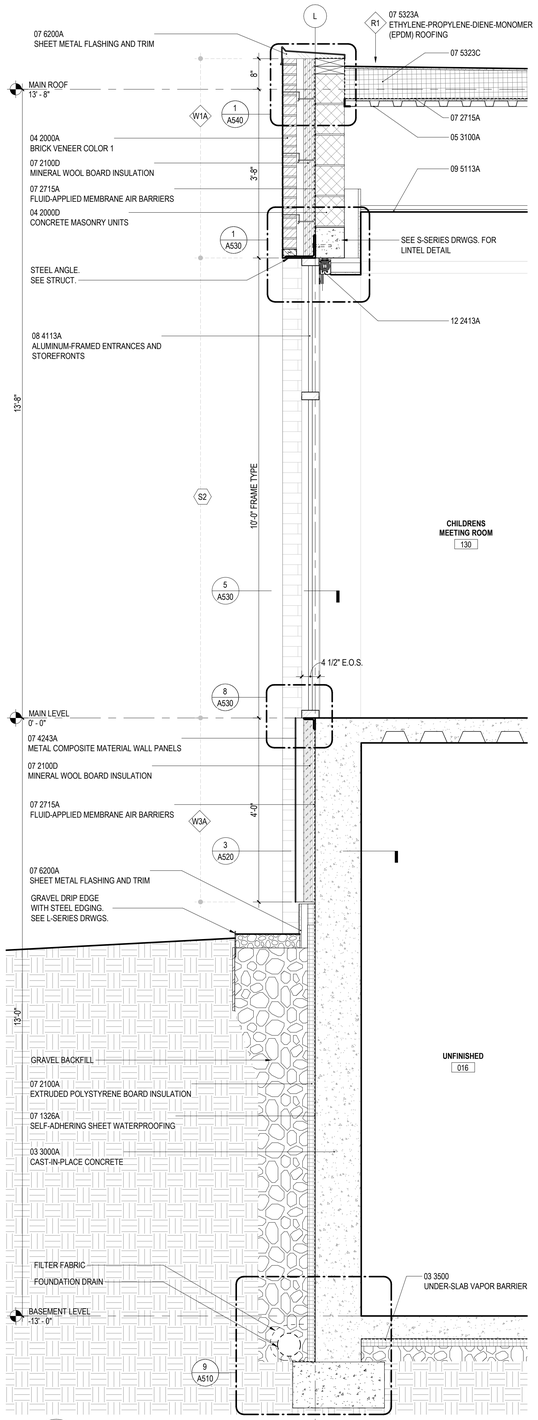
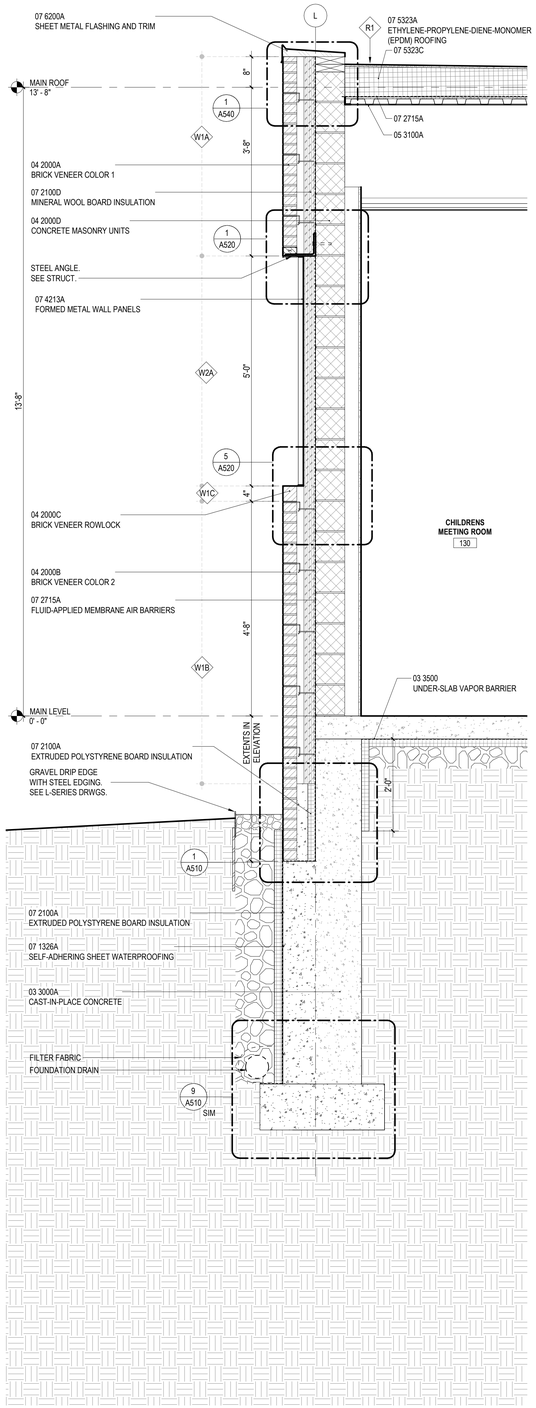


1 A101 A401 WALL SECTION AT ADDITION MASONRY WALL
3/4" = 1'-0"



2 A101 A401 WALL SECTION AT ADDITION GLAZING
3/4" = 1'-0"



3 A111 A401 WALL SECTION AT ADDITION MASONRY AND METAL PANELING
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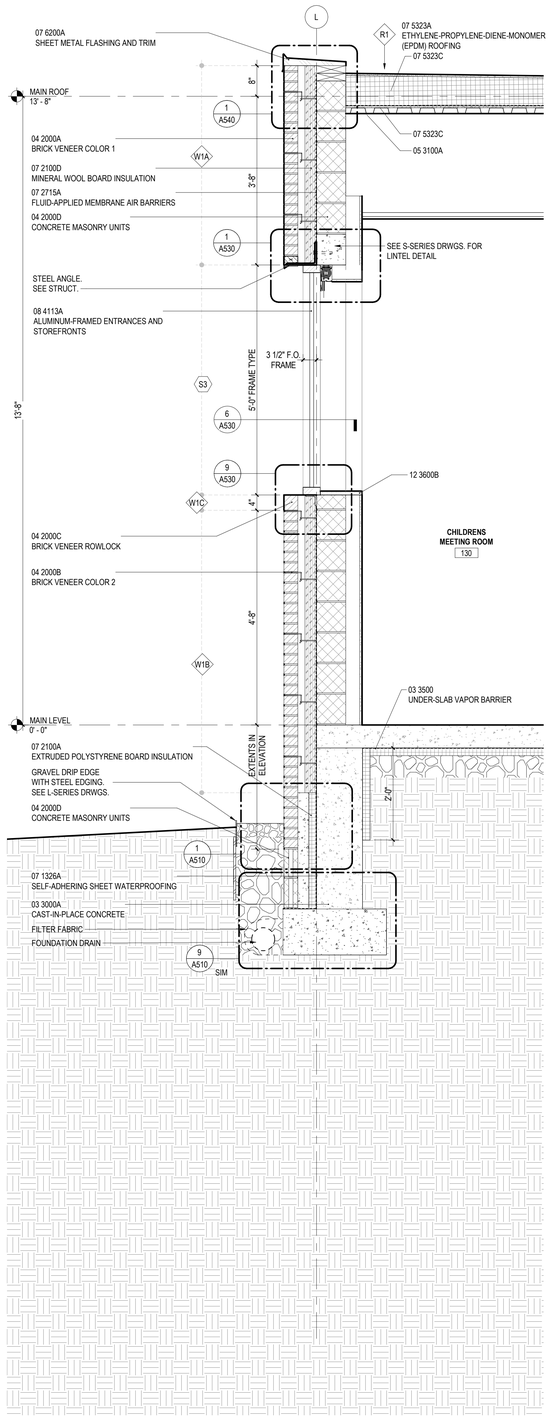

4 A111 A401 WALL SECTION AT ADDITION PUNCHED OPENING
3/4" = 1'-0"

WALL SECTION GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATION, SIZE, REINFORCING AND DETAILS OF FOOTINGS, FOUNDATIONS AND STRUCTURAL FRAMING.
2. MASONRY UNITS ARE SIZED NOMINALLY. CONCRETE MASONRY ON ARCHITECTURAL PLANS AND SECTIONS IS SHOWN DIAGRAMMATICALLY. SEE STRUCTURAL DRAWINGS FOR CMU BOND BEAMS, REINFORCING, AND GROUTING REQUIREMENTS.
3. WHERE WATERPROOFING SYSTEMS ARE NOT CALLED FOR, PROVIDE DAMPPROOFING SYSTEM AT ALL MASONRY AND CONCRETE WALLS IN CONTACT WITH EARTH OR OTHER FILL.
4. PROVIDE CONTINUOUS AIR BARRIER SYSTEM FROM FOUNDATION TO ROOF.
5. REFER TO FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
6. AT SUSPENDED CEILING SYSTEMS, HANGER WIRE IS TYPICALLY OMITTED FOR CLARITY.
7. PROVIDE HIGH PERFORMANCE COATINGS AT ALL EXTERIOR FERROUS METALS (STRUCTURAL AND DECORATIVE).
8. COLD FORMED METAL FRAMING KICKERS MAY NOT BE SHOWN IN ALL WALL SECTIONS. PROVIDE KICKERS AND BRACING AS REQ'D.
9. WHERE METAL FRAMING REQUIRES SUPPORT AT COLUMNS & BEAMS, PROVIDE METAL STAND-OFFS PRIOR TO APPLYING FIREPROOFING.
10. ALL STEEL FRAMING REQUIRED TO BE RATED IS TO RECEIVE SPRAY APPLIED FIRE PROOFING, U.N.O. SEE FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
11. PROVIDE 12" HIGH CAVITY DRAINAGE MATERIAL AT ALL CAVITY WALL THROUGH WALL FLASHING, FULL DEPTH OF CAVITY.
12. PROVIDE COLD FORMED METAL FRAMING AND ½" SHEATHING WHERE CMU BACKUP IS INTERRUPTED BY STEEL BEAMS, COLUMNS, AND BRACING, U.N.O.
13. SEE INTERIOR ELEVATIONS & FINISH SCHEDULE FOR INTERIOR FINISHES.

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
03 3500	UNDER-SLAB VAPOR BARRIER
04 2000A	BRICK VENEER COLOR 1
04 2000B	BRICK VENEER COLOR 2
04 2000C	BRICK VENEER ROWLOCK
04 2000D	CONCRETE MASONRY UNITS
05 3100A	STEEL DECKING
07 1326A	SELF-ADHERING SHEET WATERPROOFING
07 2100A	EXTRUDED POLYSTYRENE BOARD INSULATION
07 2100D	MINERAL WOOL BOARD INSULATION
07 2715A	FLUID-APPLIED MEMBRANE AIR BARRIERS
07 4213A	FORMED METAL WALL PANELS
07 4243A	METAL COMPOSITE MATERIAL WALL PANELS
07 5323A	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING
07 5323C	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - 5" MIN. (R30) POLYISO INSULATION
07 6200A	SHEET METAL FLASHING AND TRIM
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
09 5113A	ACOUSTICAL PANEL CEILINGS
12 2413A	ROLLER WINDOW SHADES
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS

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Drawn By HO

GRAPHIC SCALE - 3/4" = 1'-0"
0 1' - 4" 2' - 8" 4' - 0"

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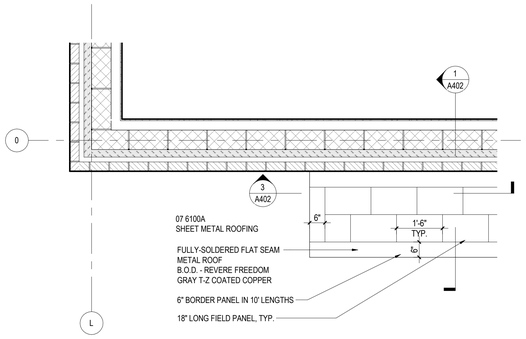
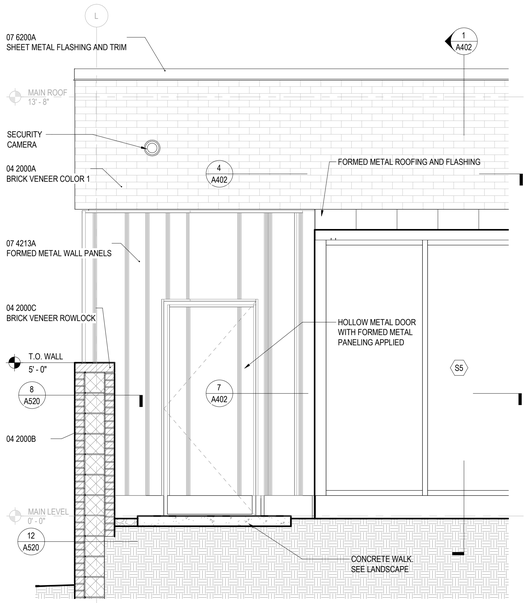
WALL SECTIONS

A401

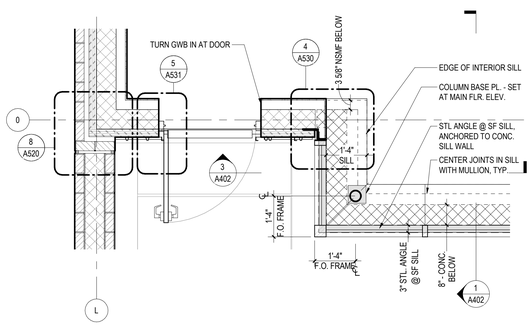
CONSTRUCTION DOCUMENTS
01.14.2022



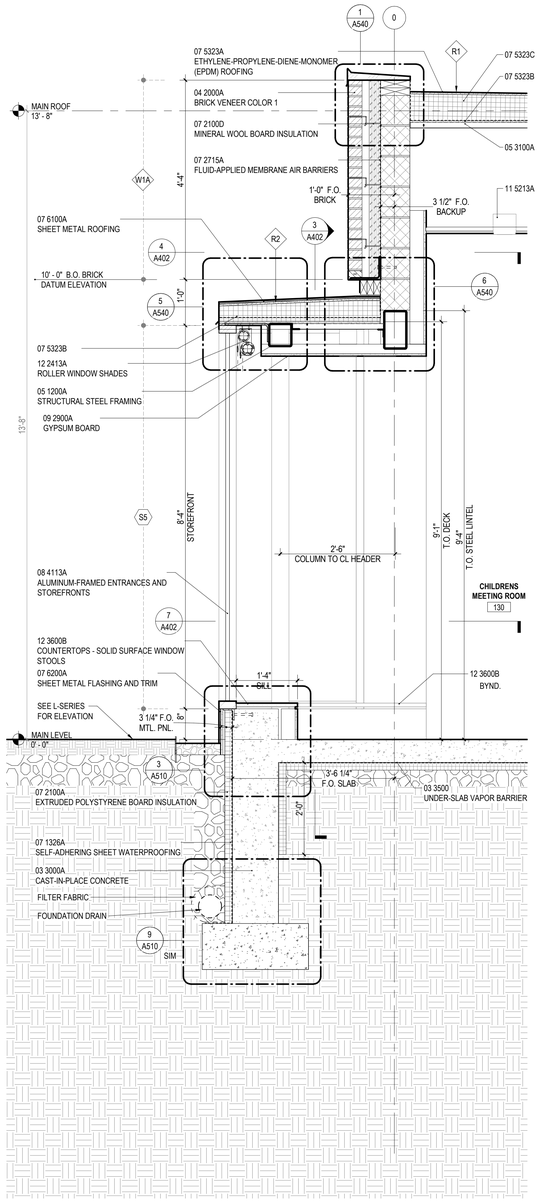
4 A402 | A402 ENLARGED PLAN - CUT ABOVE STOREFRONT BAY ROOF
1/2" = 1'-0"



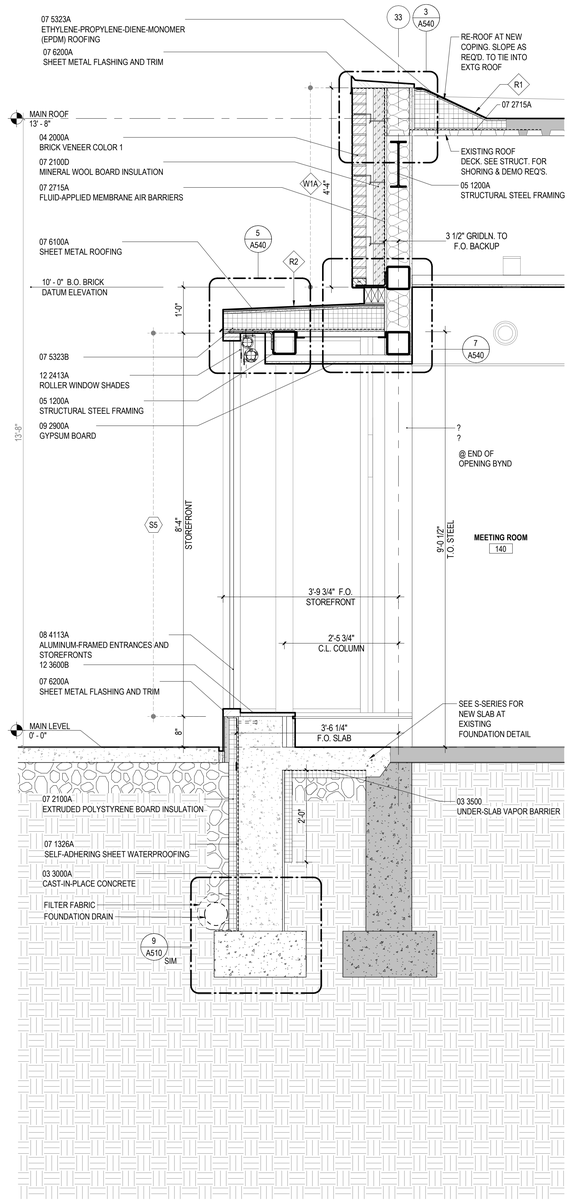
5 A311 | A402 ELEVATION DETAIL AT STOREFRONT BAY AND SITE WALL
1/2" = 1'-0"



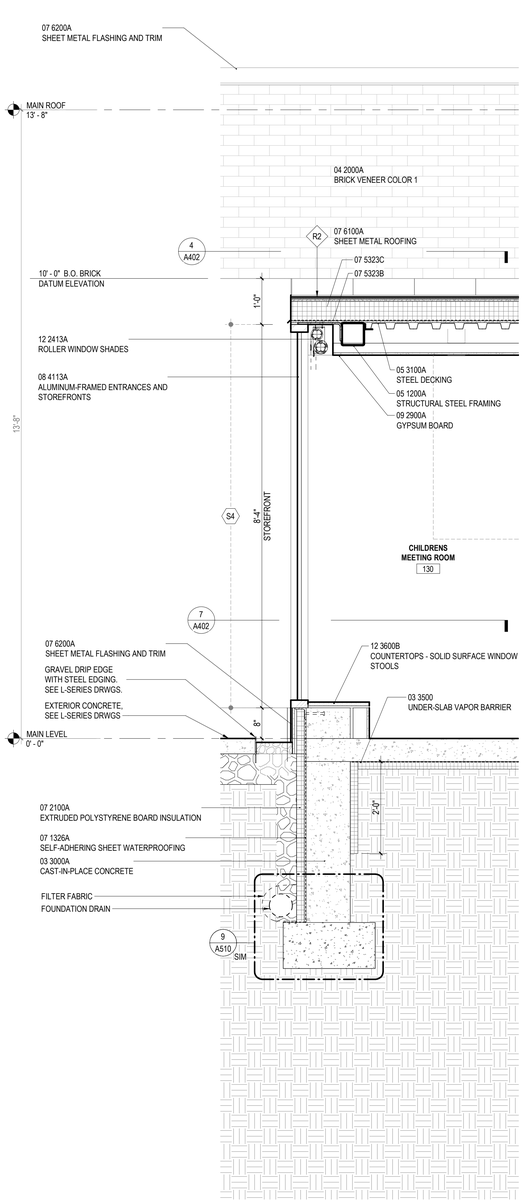
7 A402 | A402 ENLARGED PLAN - CUT ABOVE STOREFRONT BAY SILL
1/2" = 1'-0"



1 A111 | A402 WALL SECTION AT BAY WINDOW AND ADDITION
3/4" = 1'-0"



2 A111 | A402 WALL SECTION AT BAY WINDOW AND EXTG. BUILDING
3/4" = 1'-0"



3 A310 | A402 LONGITUDINAL WALL SECTION AT BAY WINDOW
3/4" = 1'-0"

WALL SECTION GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATION, SIZE, REINFORCING AND DETAILS OF FOOTINGS, FOUNDATIONS AND STRUCTURAL FRAMING.
2. MASONRY UNITS ARE SIZED NOMINALLY. CONCRETE MASONRY ON ARCHITECTURAL PLANS AND SECTIONS IS SHOWN DIAGRAMMATICALLY. SEE STRUCTURAL DRAWINGS FOR CMU BOND BEAMS, REINFORCING, AND GROUTING REQUIREMENTS.
3. WHERE WATERPROOFING SYSTEMS ARE NOT CALLED FOR, PROVIDE DAMPPROOFING SYSTEM AT ALL MASONRY AND CONCRETE WALLS IN CONTACT WITH EARTH OR OTHER FILL.
4. PROVIDE CONTINUOUS AIR BARRIER SYSTEM FROM FOUNDATION TO ROOF.
5. REFER TO FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
6. AT SUSPENDED CEILING SYSTEMS, HANGER WIRE IS TYPICALLY OMITTED FOR CLARITY.
7. PROVIDE HIGH PERFORMANCE COATINGS AT ALL EXTERIOR FERROUS METALS (STRUCTURAL AND DECORATIVE).
8. COLD FORMED METAL FRAMING KICKERS MAY NOT BE SHOWN IN ALL WALL SECTIONS. PROVIDE KICKERS AND BRACING AS REQ'D.
9. WHERE METAL FRAMING REQUIRES SUPPORT AT COLUMNS & BEAMS, PROVIDE METAL STAND-OFFS PRIOR TO APPLYING FIREPROOFING.
10. ALL STEEL FRAMING REQUIRED TO BE RATED IS TO RECEIVE SPRAY APPLIED FIRE PROOFING, U.N.O. SEE FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
11. PROVIDE 12" HIGH CAVITY DRAINAGE MATERIAL AT ALL CAVITY WALL THROUGH WALL FLASHING, FULL DEPTH OF CAVITY.
12. PROVIDE COLD FORMED METAL FRAMING AND ½" SHEATHING WHERE CMU BACKUP IS INTERRUPTED BY STEEL BEAMS, COLUMNS, AND BRACING, U.N.O.
13. SEE INTERIOR ELEVATIONS & FINISH SCHEDULE FOR INTERIOR FINISHES.

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
03 3500	UNDER-SLAB VAPOR BARRIER
04 2000A	BRICK VENEER COLOR 1
04 2000B	BRICK VENEER COLOR 2
04 2000C	BRICK VENEER ROWLOCK
05 1200A	STRUCTURAL STEEL FRAMING
05 3100A	STEEL DECKING
07 1326A	SELF-ADHERING SHEET WATERPROOFING
07 2100A	EXTRUDED POLYSTYRENE BOARD INSULATION
07 2100D	MINERAL WOOL BOARD INSULATION
07 2715A	FLUID-APPLIED MEMBRANE AIR BARRIERS
07 4213A	FORMED METAL WALL PANELS
07 5323A	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING
07 5323B	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - VAPOR RETARDER
07 5323C	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - 5" MIN. (R30) POLYISO INSULATION

KEYNOTES

07 6100A	SHEET METAL ROOFING
07 6200A	SHEET METAL FLASHING AND TRIM
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
09 2900A	GYPSUM BOARD
11 5213A	PROJECTION SCREENS
12 2413A	ROLLER WINDOW SHADES
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS

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REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By	JT
Drawn By	JT

GRAPHIC SCALE - 3/4" = 1'-0"
0 | 1' - 4" | 2' - 8" | 4' - 0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
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WALL SECTIONS

A402

CONSTRUCTION DOCUMENTS
01.14.2022

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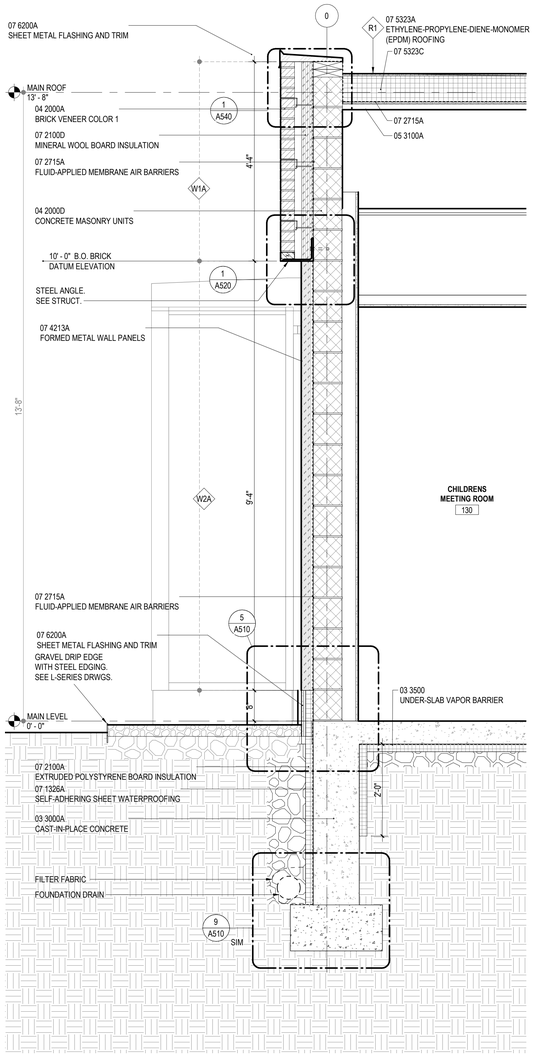

1 A111 A403 WALL SECTION AT COURTYARD METAL PANELING
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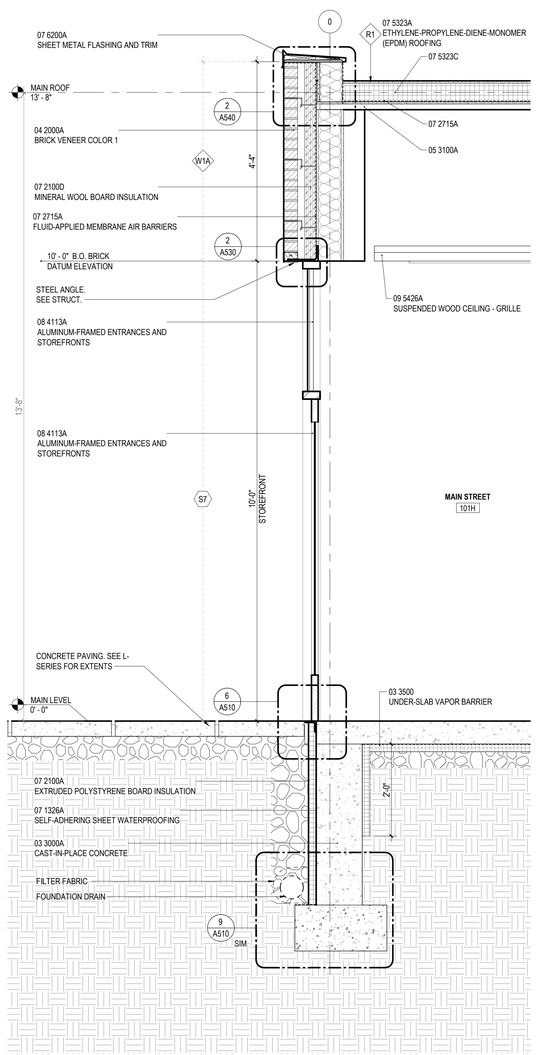

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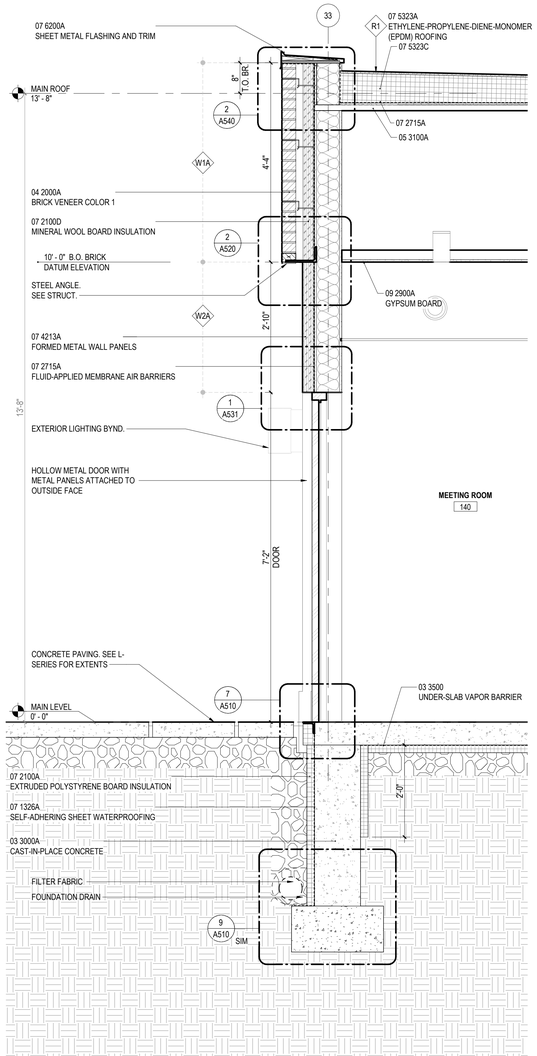
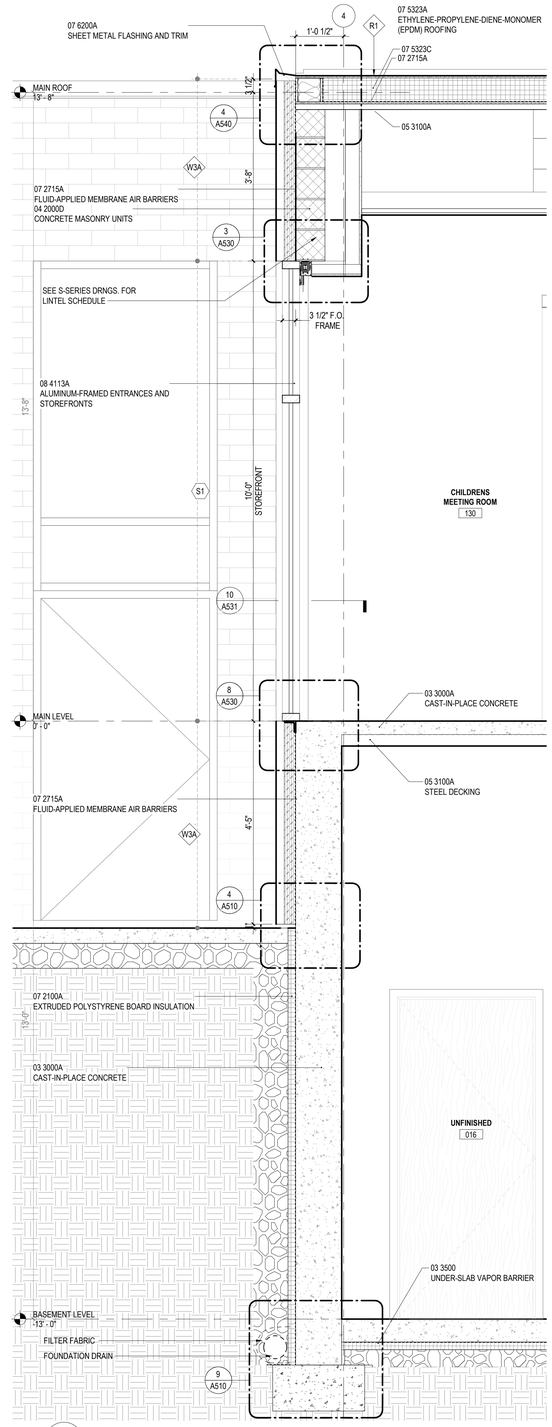


3 A111 A403 WALL SECTION AT COURTYARD METAL PANELING THROUGH DOOR
3/4" = 1'-0"



4 A101 A403 WALL SECTION AND ELEVATION AT WEST ADDITION SLOT
3/4" = 1'-0"

WALL SECTION GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATION, SIZE, REINFORCING AND DETAILS OF FOOTINGS, FOUNDATIONS AND STRUCTURAL FRAMING.
2. MASONRY UNITS ARE SIZED NOMINALLY. CONCRETE MASONRY ON ARCHITECTURAL PLANS AND SECTIONS IS SHOWN DIAGRAMMATICALLY. SEE STRUCTURAL DRAWINGS FOR CMU BOND BEAMS, REINFORCING, AND GROUTING REQUIREMENTS.
3. WHERE WATERPROOFING SYSTEMS ARE NOT CALLED FOR, PROVIDE DAMPPROOFING SYSTEM AT ALL MASONRY AND CONCRETE WALLS IN CONTACT WITH EARTH OR OTHER FILL.
4. PROVIDE CONTINUOUS AIR BARRIER SYSTEM FROM FOUNDATION TO ROOF.
5. REFER TO FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
6. AT SUSPENDED CEILING SYSTEMS, HANGER WIRE IS TYPICALLY OMITTED FOR CLARITY.
7. PROVIDE HIGH PERFORMANCE COATINGS AT ALL EXTERIOR FERROUS METALS (STRUCTURAL AND DECORATIVE).
8. COLD FORMED METAL FRAMING KICKERS MAY NOT BE SHOWN IN ALL WALL SECTIONS. PROVIDE KICKERS AND BRACING AS REQ'D.
9. WHERE METAL FRAMING REQUIRES SUPPORT AT COLUMNS & BEAMS, PROVIDE METAL STAND-OFFS PRIOR TO APPLYING FIREPROOFING.
10. ALL STEEL FRAMING REQUIRED TO BE RATED IS TO RECEIVE SPRAY APPLIED FIRE PROOFING, U.N.O. SEE FIRE PROTECTION PLANS FOR FULL EXTENT OF RATED CONSTRUCTION.
11. PROVIDE 12" HIGH CAVITY DRAINAGE MATERIAL AT ALL CAVITY WALL THROUGH WALL FLASHING, FULL DEPTH OF CAVITY.
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KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
03 3500	UNDER-SLAB VAPOR BARRIER
04 2000A	BRICK VENEER COLOR 1
04 2000D	CONCRETE MASONRY UNITS
05 3100A	STEEL DECKING
07 1326A	SELF-ADHERING SHEET WATERPROOFING
07 2100A	EXTRUDED POLYSTYRENE BOARD INSULATION
07 2100D	MINERAL WOOL BOARD INSULATION
07 2715A	FLUID-APPLIED MEMBRANE AIR BARRIERS
07 4213A	FORMED METAL WALL PANELS
07 5323A	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING
07 5323C	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - 5" MIN. (R30) POLYISO INSULATION
07 6200A	SHEET METAL FLASHING AND TRIM
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
09 2900A	GYPSUM BOARD
09 5426A	SUSPENDED WOOD CEILING - GRILLE

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WALL SECTIONS

A403

CONSTRUCTION DOCUMENTS
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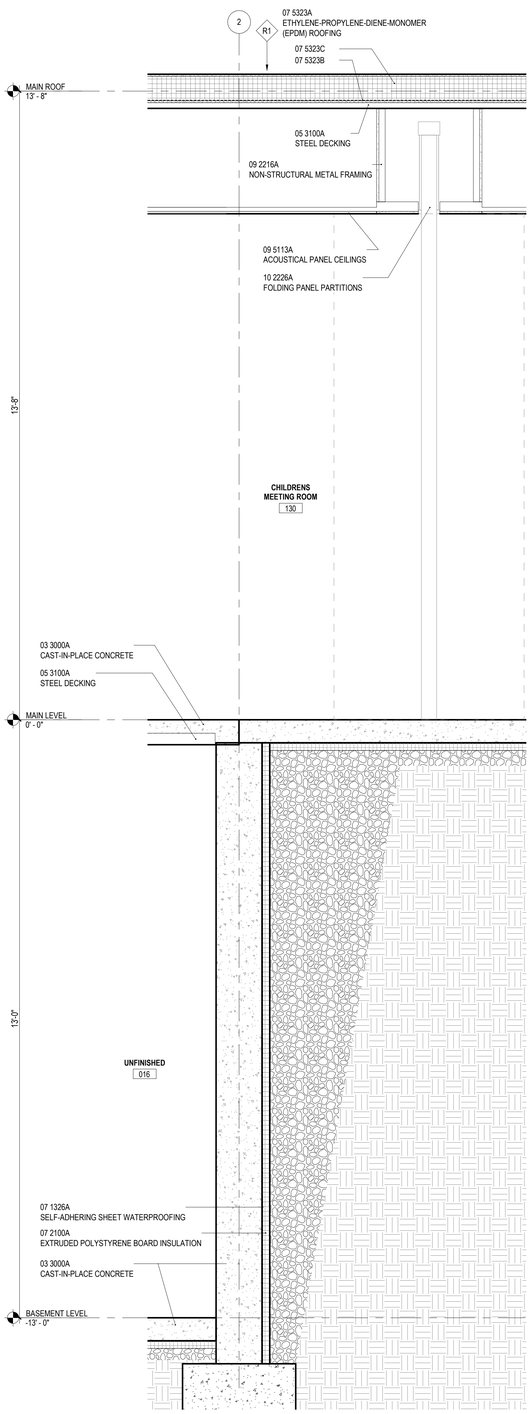
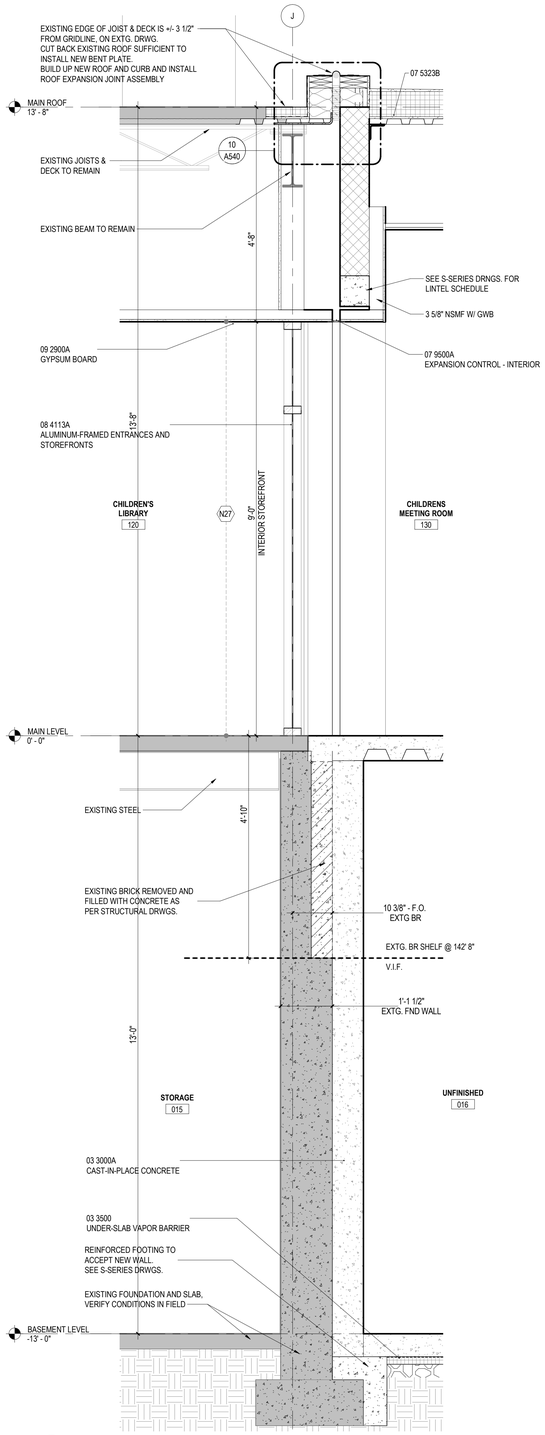
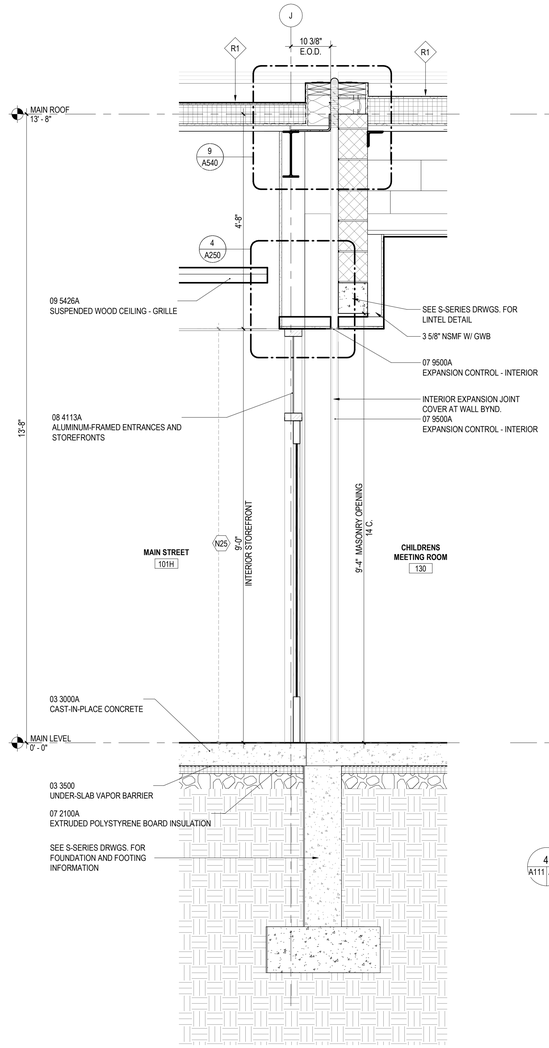


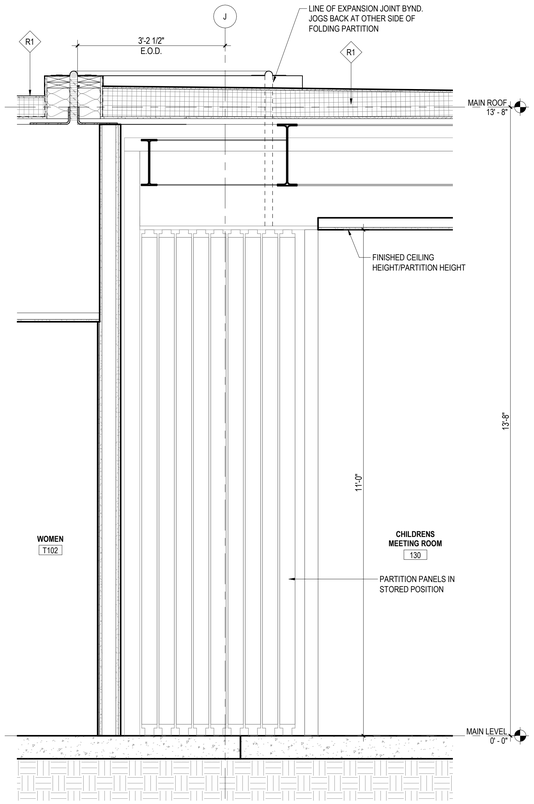
1 A101 A404 WALL SECTION AT BASEMENT RETAINING WALL
3/4" = 1'-0"



2 A101 A404 WALL SECTION AT E.J.BETWEEN EX. BUILDING & ADDITION
3/4" = 1'-0"



3 A111 A404 WALL SECTION AT E.J. BETWEEN NEW INFILL AND ADDITION
3/4" = 1'-0"



4 A111 A404 WALL SECTION AT EJ AND FOLDING PARTITION
3/4" = 1'-0"

WALL SECTION GENERAL NOTES

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KEYNOTES

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03 3500	UNDER-SLAB VAPOR BARRIER
05 3100A	STEEL DECKING
07 1326A	SELF-ADHERING SHEET WATERPROOFING
07 2100A	EXTRUDED POLYSTYRENE BOARD INSULATION
07 5323A	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING
07 5323B	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - VAPOR RETARDER
07 5323C	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING - 5" MIN. (R30) POLYISO INSULATION
07 9500A	EXPANSION CONTROL - INTERIOR
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
09 2216A	NON-STRUCTURAL METAL FRAMING
09 2900A	GYPSUM BOARD
09 5113A	ACOUSTICAL PANEL CEILINGS
09 5426A	SUSPENDED WOOD CEILING - GRILLE

KEYNOTES

10 2226A	FOLDING PANEL PARTITIONS

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WALL SECTIONS

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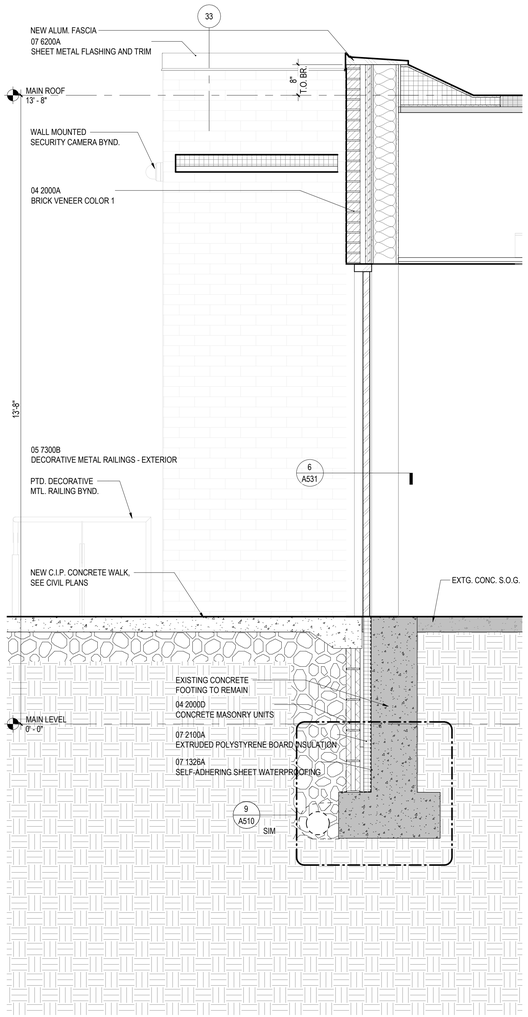
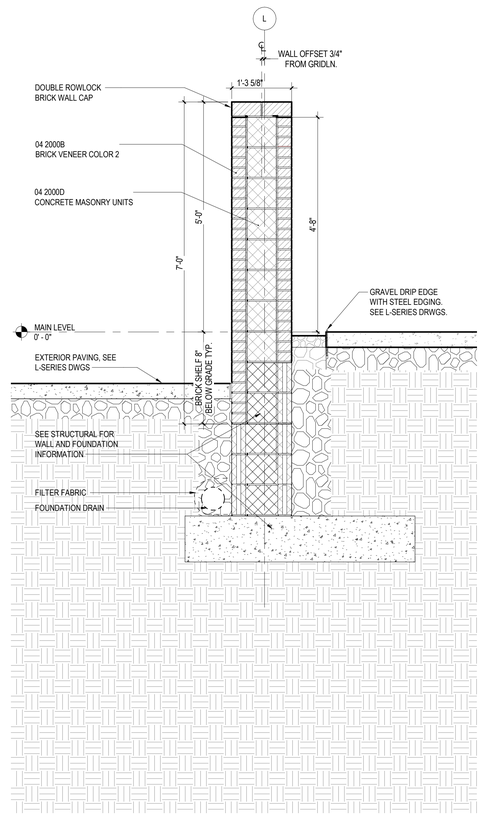
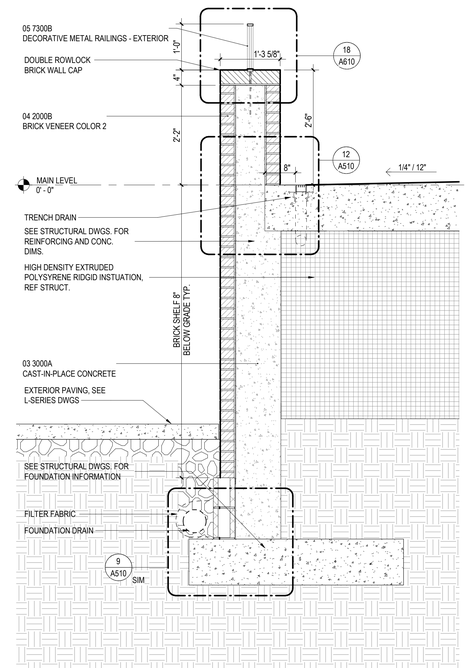


3 A311 A405 WALL SECTION AT EXISTING DOOR AND ROOF CANOPY
3/4" = 1'-0"



1 A111 A405 WALL SECTION AT COURTYARD MASONRY WALL
3/4" = 1'-0"



2 A111 A405 WALL SECTION AT ENTRY TERRACE
3/4" = 1'-0"

WALL SECTION GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATION, SIZE, REINFORCING AND DETAILS OF FOOTINGS, FOUNDATIONS AND STRUCTURAL FRAMING.
2. MASONRY UNITS ARE SIZED NOMINALLY. CONCRETE MASONRY ON ARCHITECTURAL PLANS AND SECTIONS IS SHOWN DIAGRAMMATICALLY. SEE STRUCTURAL DRAWINGS FOR CMU BOND BEAMS, REINFORCING, AND GROUTING REQUIREMENTS.
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13. SEE INTERIOR ELEVATIONS & FINISH SCHEDULE FOR INTERIOR FINISHES.

KEYNOTES

03 3000A	CAST-IN-PLACE CONCRETE
04 2000A	BRICK VENEER COLOR 1
04 2000B	BRICK VENEER COLOR 2
04 2000D	CONCRETE MASONRY UNITS
05 7300B	DECORATIVE METAL RAILINGS - EXTERIOR
07 1326A	SELF-ADHERING SHEET WATERPROOFING
07 2100A	EXTRUDED POLYSTYRENE BOARD INSULATION
07 6200A	SHEET METAL FLASHING AND TRIM

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WALL SECTIONS

A405

CONSTRUCTION DOCUMENTS

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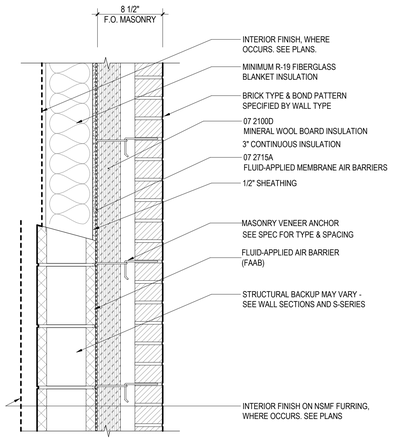


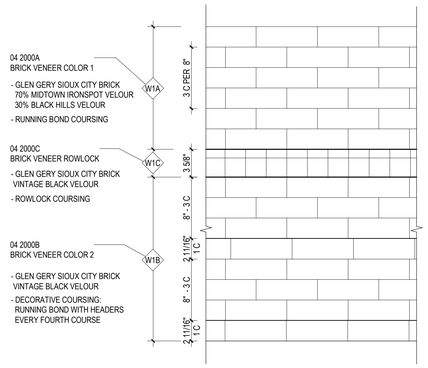
WALL TYPE W1A — 04 2000A
BRICK VENEER COLOR 1
- RUNNING BOND COURSING

W1B — 04 2000B
BRICK VENEER COLOR 2
- DECORATIVE COURSING

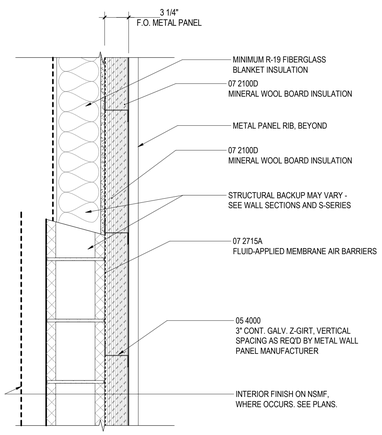
W1C — 04 2000C
BRICK VENEER ROWLOCK
- ROWLOCK COURSING

WALL ASSEMBLY U-VALUE ACCORDING TO TABLE A3.3 OF ASHRAE 90.1
U - 0.047

WALL ASSEMBLY U-VALUE ACCORDING TO ASHRAE 90.1 - APP. A
U - 0.068

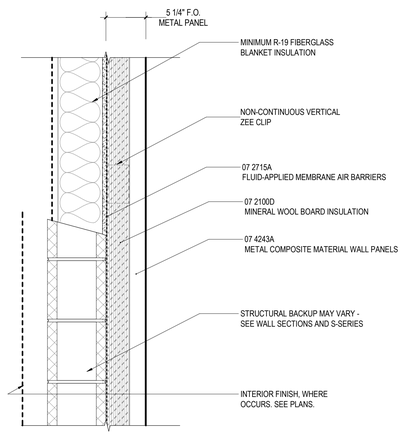


BRICK COURSING ELEVATION DIAGRAM
B.O.D. MANUF. GLEN GERY, MODULAR BRICK SIZE



WALL TYPE W2A — 07 4213A
FORMED METAL WALL PANELS

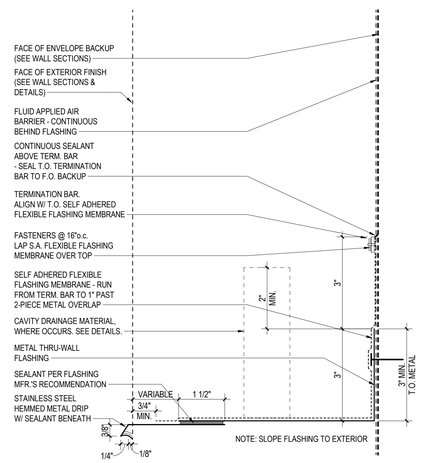
WALL ASSEMBLY U-VALUE ACCORDING TO TABLE A3.3 OF ASHRAE 90.1
U - 0.047



WALL TYPE W3A — 07 4243A
METAL COMPOSITE MATERIAL WALL PANELS

WALL ASSEMBLY U-VALUE ACCORDING TO TABLE A3.3 OF ASHRAE 90.1
U - 0.047

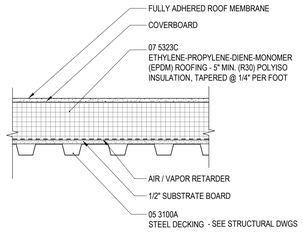
1 A500 TYPES - EXTERIOR ASSEMBLY
1 1/2" = 1'-0"



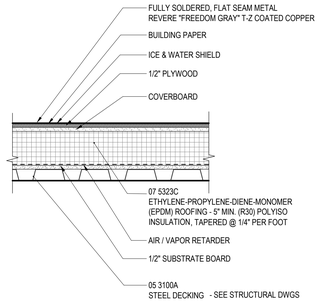
NOTE: AT SUPPORTED LOCATIONS, 2 PIECE METAL FLASHING MAY BE REDUCED TO 1 PIECE METAL DRIP W/ FLEXIBLE FLASHING - ALL DIMENSIONS ABOVE STILL APPLY TO 1 PIECE METAL FLASHING

2 A500 TYP. 2-PIECE METAL THRU-WALL FLASHING
6" = 1'-0"

ROOF TYPES:



ROOF TYPE R1 — 07 5323A
ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING



ROOF TYPE R2 — 07 6100A
SHEET METAL ROOFING

EXTERIOR WALL TYPES GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATION, SIZE, REINFORCING AND DETAILS OF FOOTINGS, FOUNDATIONS AND STRUCTURAL FRAMING.
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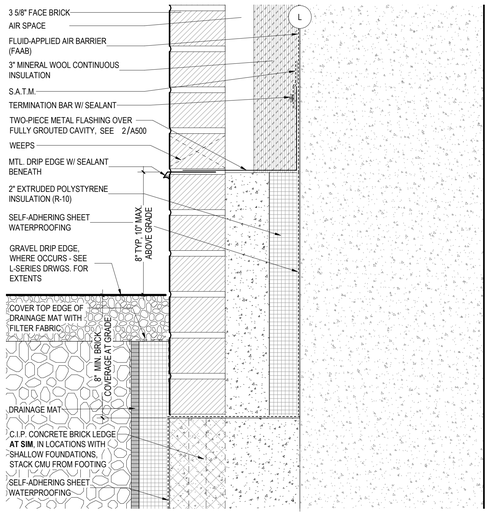
GRAPHIC SCALE - 1 1/2" = 1'-0"
0 0' - 8" 1' - 4" 2' - 0"

ISSUES AND REVISIONS

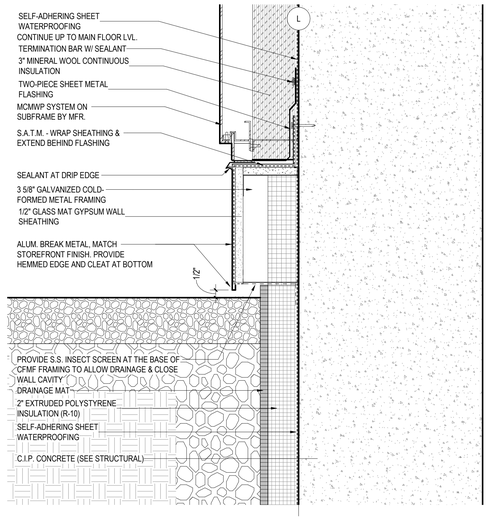
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

EXTERIOR ASSEMBLY TYPES

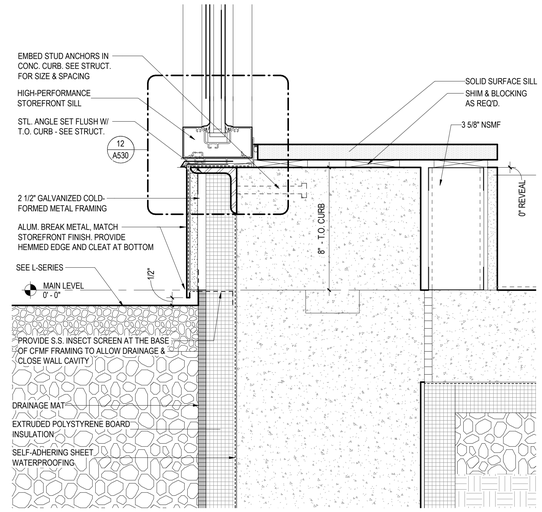
A500
CONSTRUCTION DOCUMENTS
01.14.2022



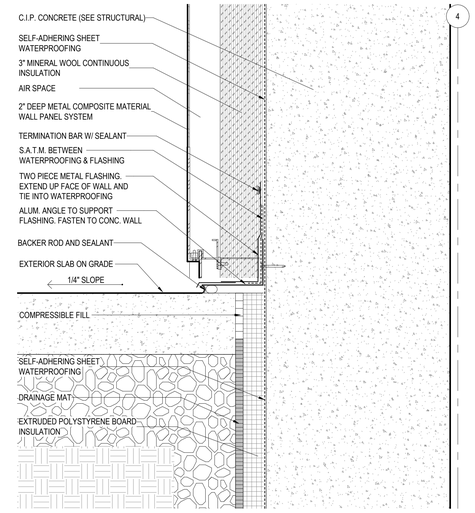
1 A401 A510 DETAIL AT BRICK VENEER OVER C.I.P. CONC. AT GRADE
3" = 1'-0"



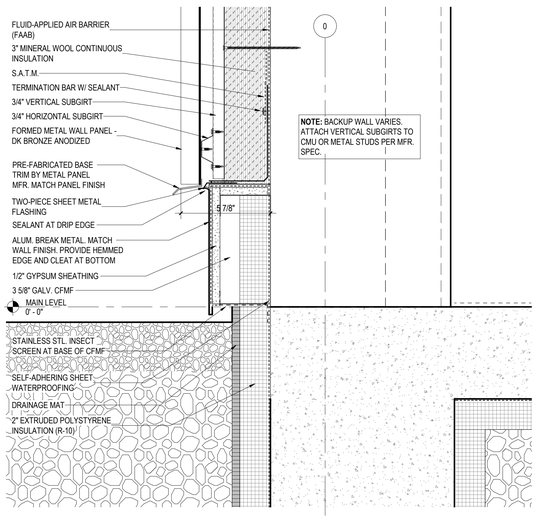
2 A510 DETAIL AT MCMWP AT GRADE
3" = 1'-0"



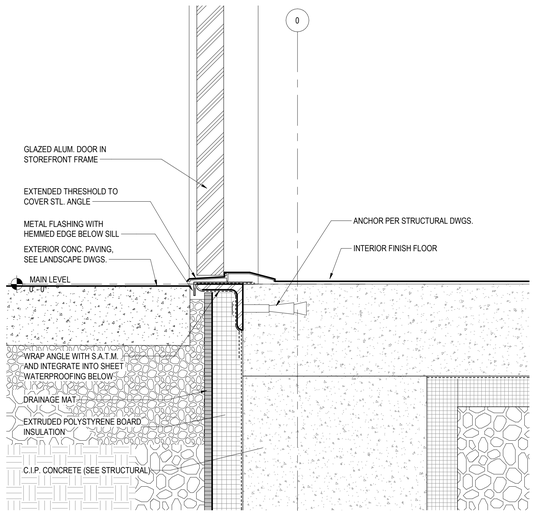
3 A402 A510 DETAIL AT GLASS BAY FOUNDATION
3" = 1'-0"



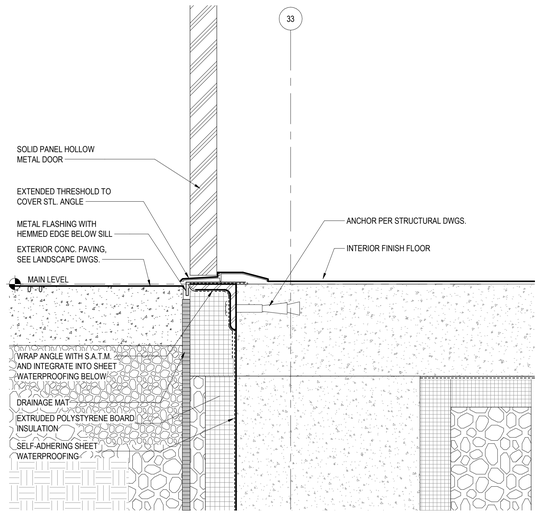
4 A403 A510 DETAIL AT MCMWP BASE AT CONC. WALK
3" = 1'-0"



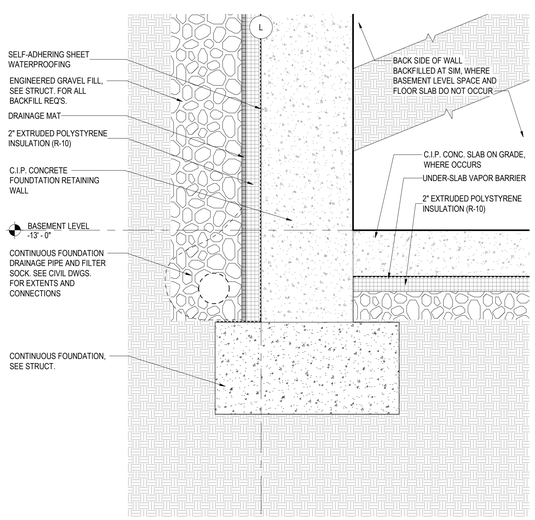
5 A403 A510 DETAIL AT FORMED METAL PANEL AT GRADE
3" = 1'-0"



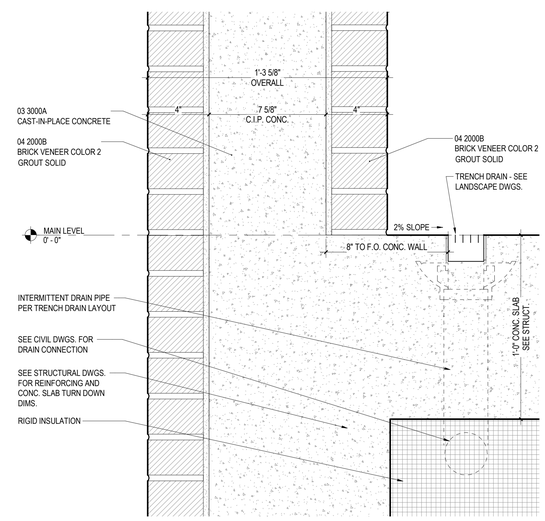
6 A403 A510 DETAIL AT STOREFRONT DOOR THRESHOLD
3" = 1'-0"



7 A403 A510 DETAIL AT HOLLOW METAL DOOR
3" = 1'-0"



9 A401 A510 DETAIL AT C.I.P. CONCRETE FOUNDATION BELOW GRADE
1 1/2" = 1'-0"



12 A405 A510 DETAIL OF TERRACE WALL AT MAIN LEVEL
3" = 1'-0"

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Drawn By JT

GRAPHIC SCALE - 3" = 1'-0"

0 | 0' - 4" | 0' - 8" | 1' - 0"

ISSUES AND REVISIONS

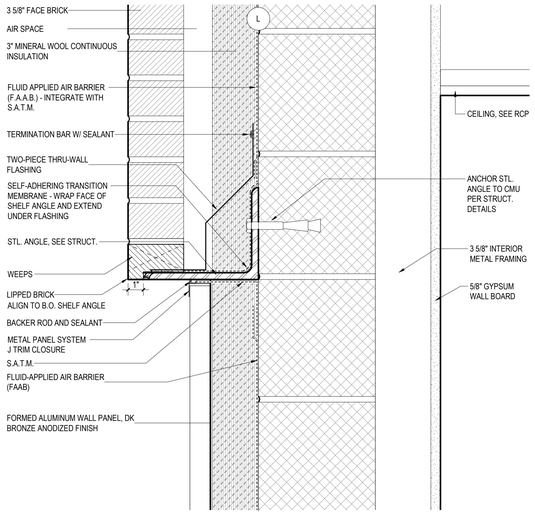
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

FOUNDATION DETAILS

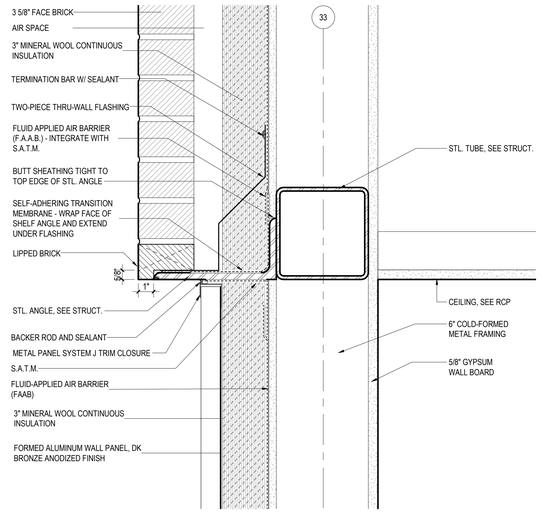
A510

CONSTRUCTION DOCUMENTS

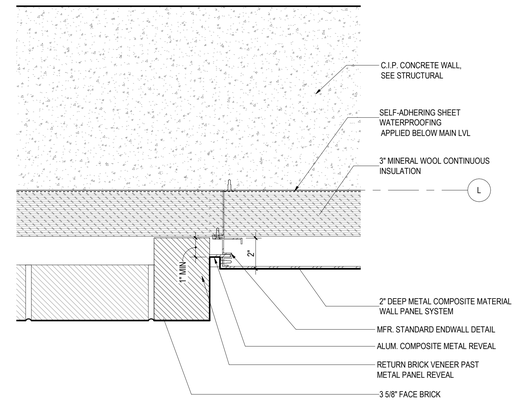
01.14.2022



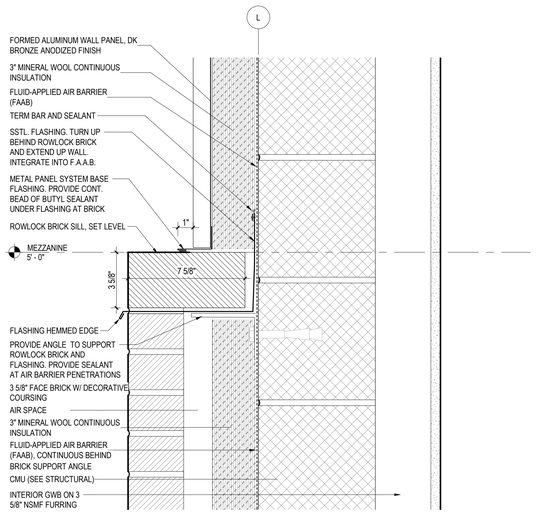
1 A401 A520 BRICK AND METAL PANEL TRANSITION AT CMU BACKUP
3" = 1'-0"



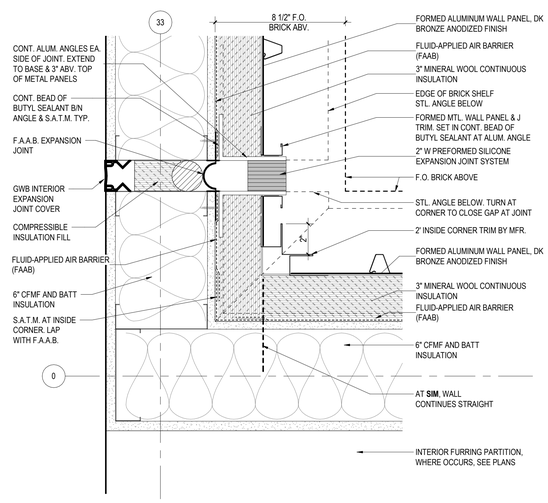
2 A403 A520 BRICK AND METAL PANEL TRANSITION AT STEEL STUD BACKUP
3" = 1'-0"



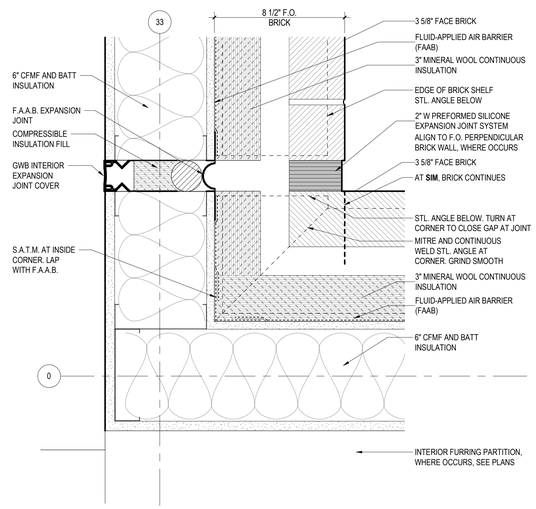
3 A310 A520 DETAIL AT MCMWP END WALL AND BRICK
3" = 1'-0"



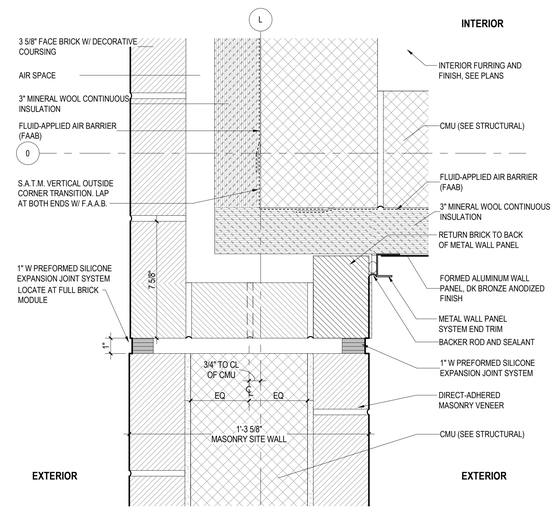
5 A401 A520 DETAIL AT BRICK SILL AND FORMED METAL PANEL
3" = 1'-0"



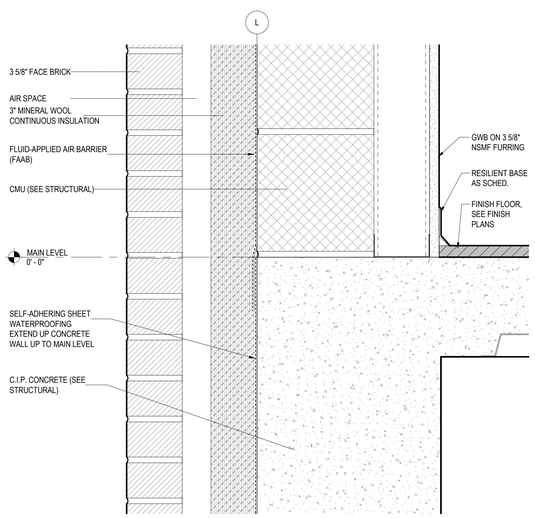
10 A311 A520 DETAIL AT VERTICAL EXPANSION JOINT & METAL PANEL CORNER
3" = 1'-0"



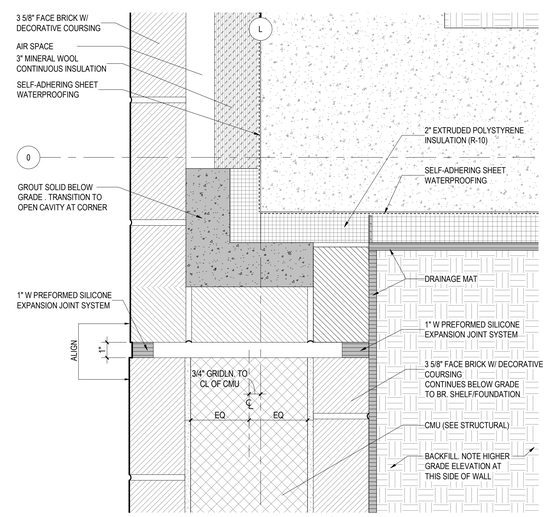
11 A311 A520 DETAIL AT VERTICAL EXPANSION JOINT & BRICK CORNER
3" = 1'-0"



8 A311 A520 PLAN DETAIL AT ADDITON CORNER AND SITE WALL - ABOVE GRADE
3" = 1'-0"



9 A401 A520 DETAIL AT BRICK VENEER AT FLOOR LEVEL
3" = 1'-0"



12 A310 A520 PLAN DETAIL AT ADDITION AND SITE WALL - BELOW GRADE
3" = 1'-0"

GRAPHIC SCALE - 3" = 1'-0"
0 0' - 4" 0' - 8" 1' - 0"

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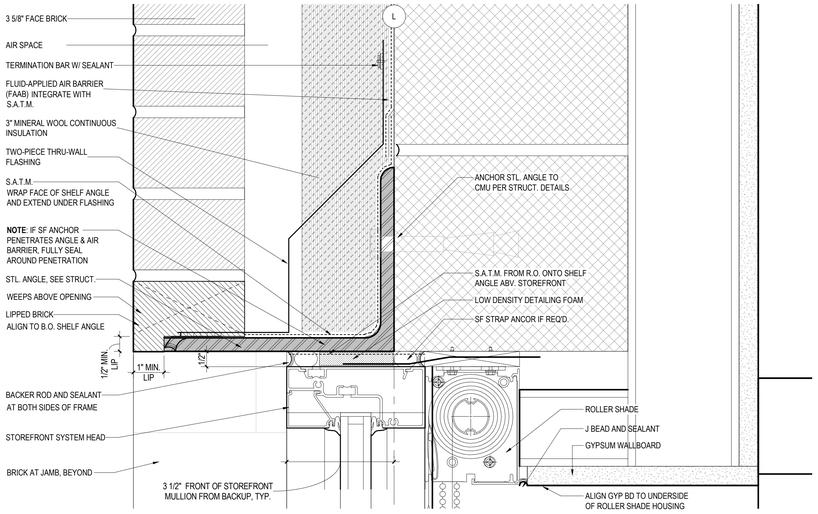
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

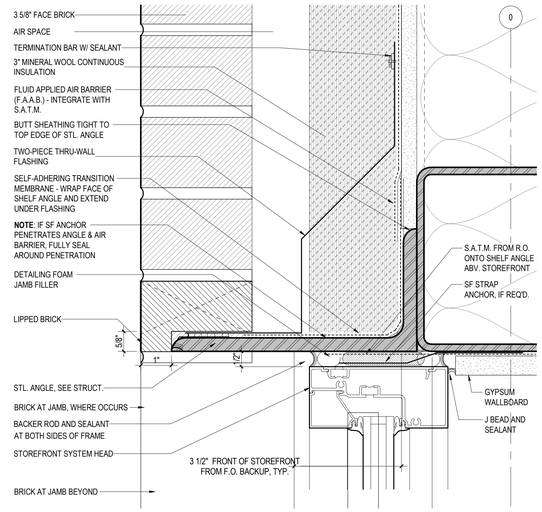
ENVELOPE DETAILS

A520

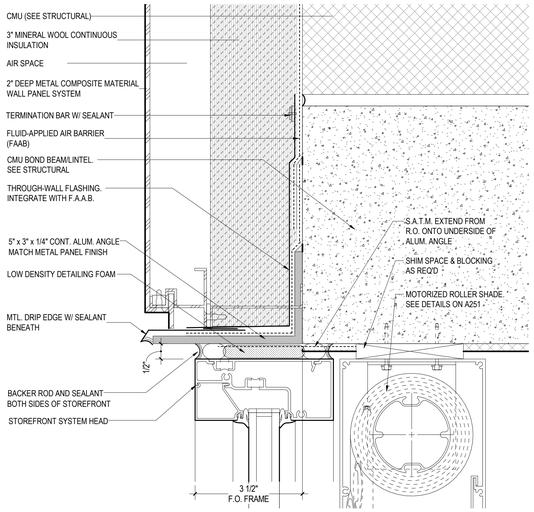
CONSTRUCTION DOCUMENTS
01.14.2022



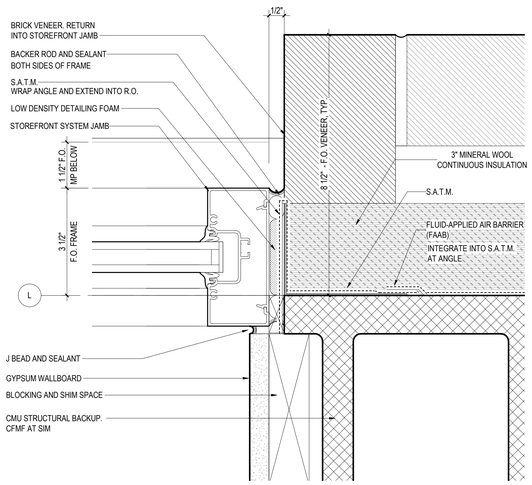
1 A310 A530 STOREFRONT HEAD AT BRICK VENEER W/ CMU BACKUP
6" = 1'-0"



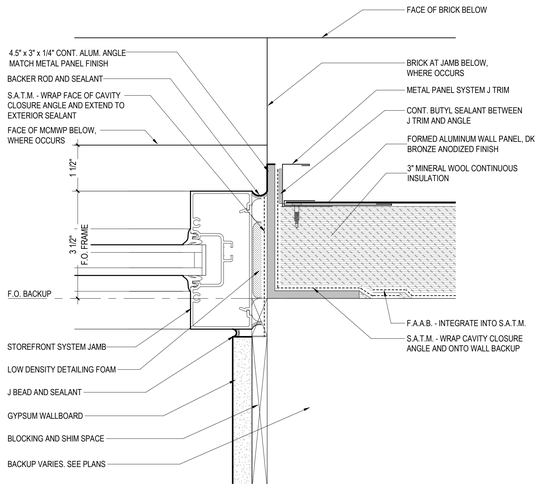
2 A311 A530 STOREFRONT HEAD AT BRICK VENEER W/ CFMF BACKUP
6" = 1'-0"



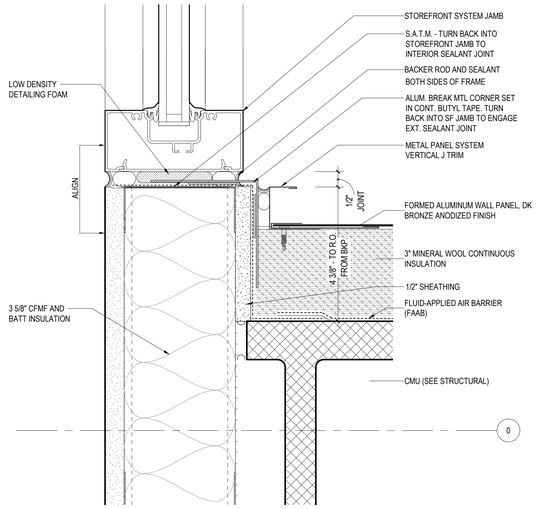
3 A310 A530 STOREFRONT HEAD AT METAL COMPOSITE MATERIAL WALL PANEL
6" = 1'-0"



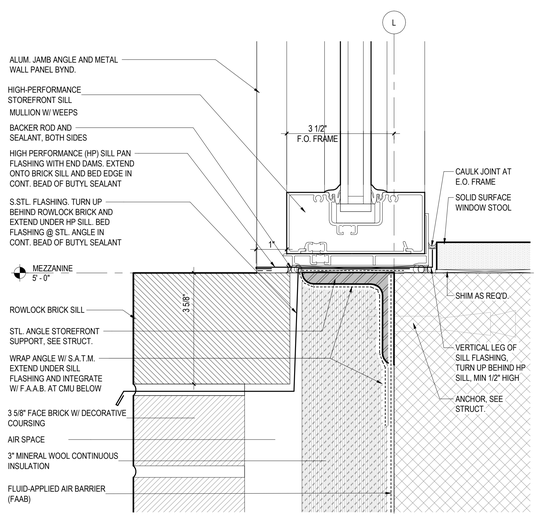
5 A310 A530 STOREFRONT JAMB AT BRICK VENEER
6" = 1'-0"



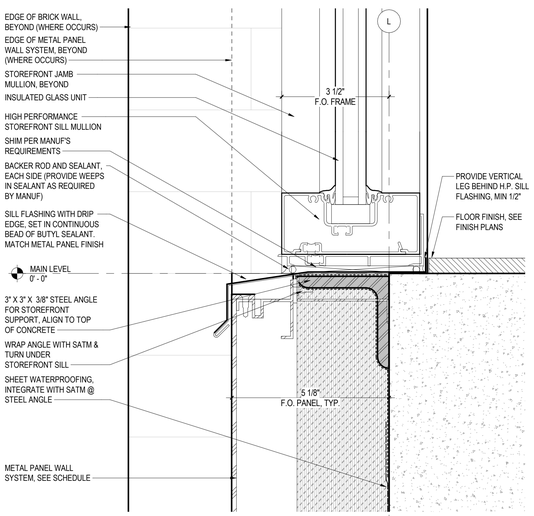
6 A310 A530 STOREFRONT JAMB AT FORMED METAL WITH CMU BACKUP
6" = 1'-0"



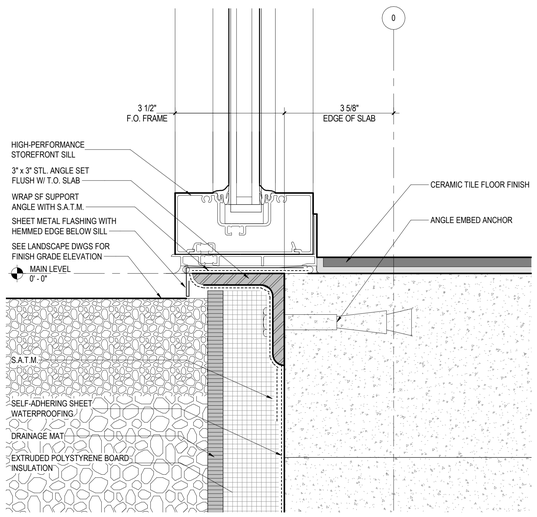
4 A402 A530 PLAN DETAIL AT JAMB OF GLASS BAY
6" = 1'-0"



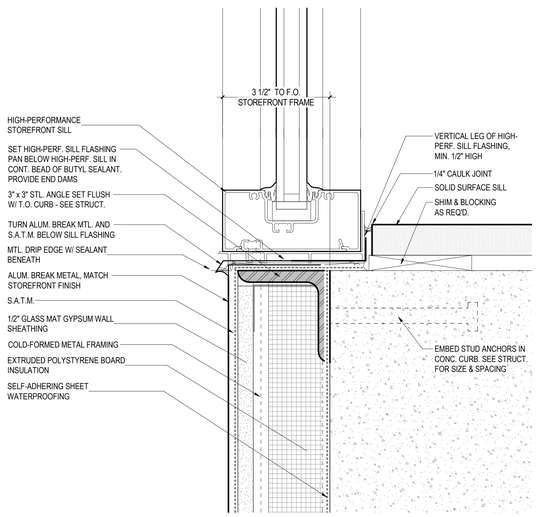
9 A311 A530 STOREFRONT SILL AT BRICK VENEER
6" = 1'-0"



8 A310 A530 STOREFRONT SILL AT METAL COMPOSITE MATERIAL WALL PANEL
6" = 1'-0"



10 A311 A530 STOREFRONT SILL AT S.O.G. FLOOR EDGE
6" = 1'-0"



12 A510 A530 STOREFRONT SILL AT BAY WINDOW
6" = 1'-0"

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GRAPHIC SCALE - 6" = 1'-0"
0 0' - 2" 0' - 4" 0' - 6"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
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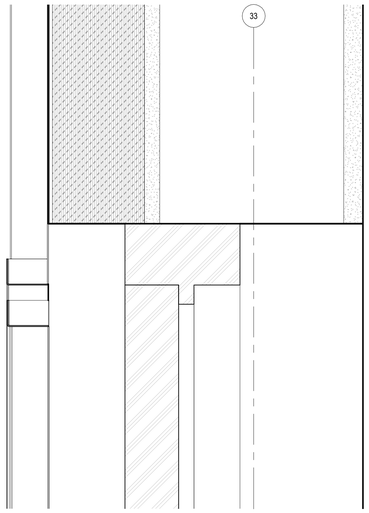
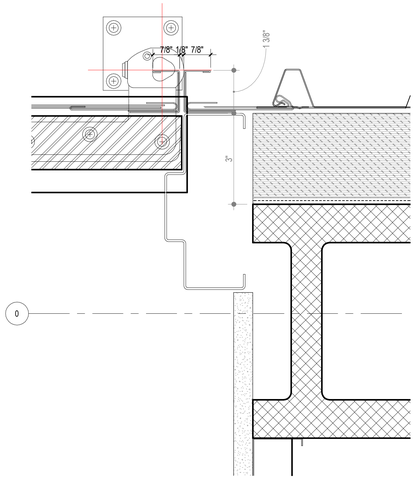
EXTERIOR OPENING DETAILS

A530

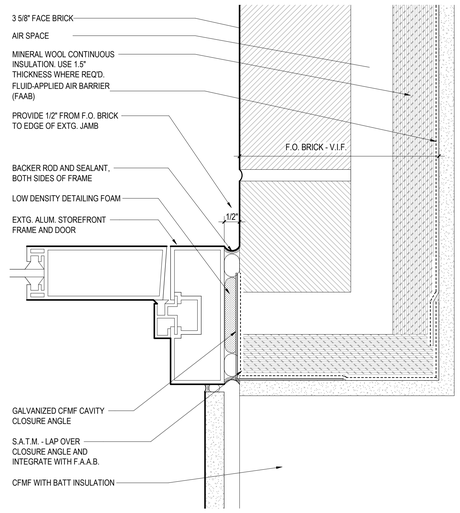
CONSTRUCTION DOCUMENTS
01.14.2022



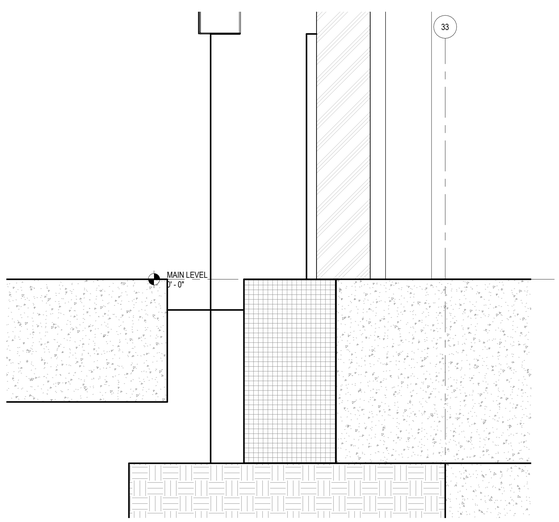
1 A403 A531 DETAIL AT HOLLOW METAL DOOR HEAD & FORMED METAL PANELING
6" = 1'-0"



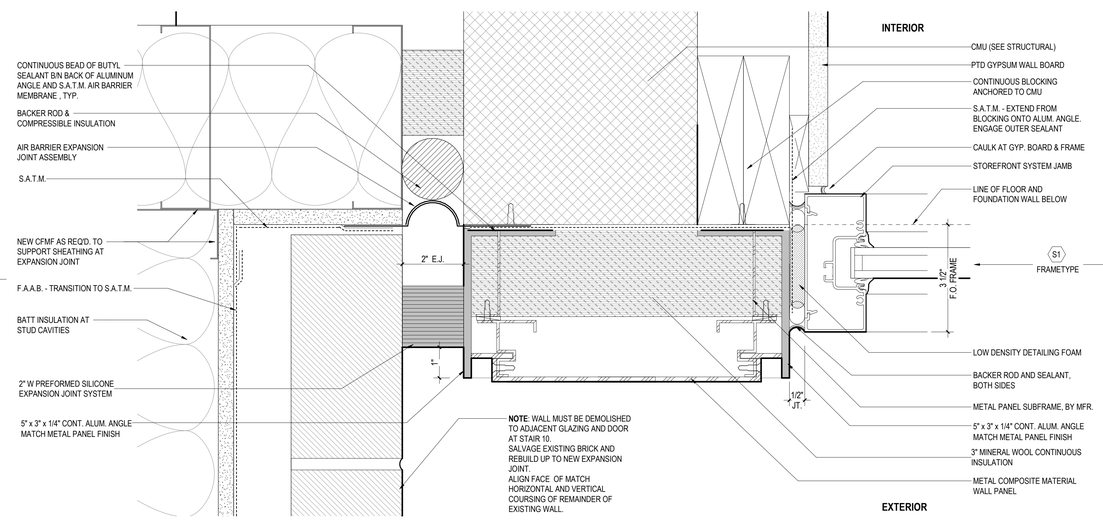
5 A402 A531 DETAIL AT HM DOOR JAMB AND FORMED METAL WALL PANELS
6" = 1'-0"



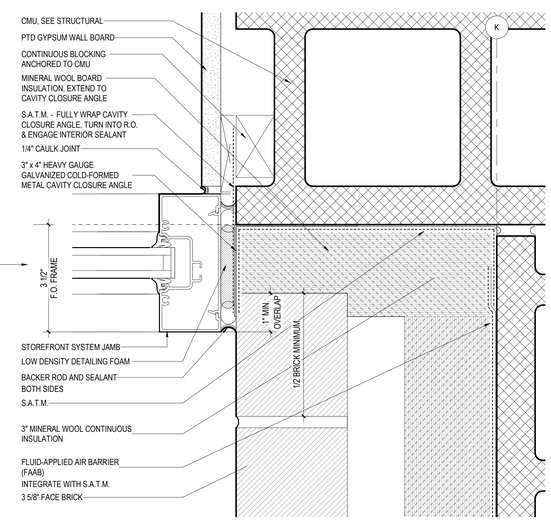
6 A405 A531 DETAIL AT EXISTING DOOR JAMB AND NEW BRICK VENEER
6" = 1'-0"



9 A531 DETAIL AT HOLLOW METAL DOOR THRESHOLD
6" = 1'-0"



10 A310 A531 STOREFRONT JAMB AT MCMWP, EXPANSION JOINT, AND EXISTING
6" = 1'-0"



12 A310 A531 STOREFRONT JAMB AT INTERSECTING BRICK VENEER ONLY
6" = 1'-0"

GRAPHIC SCALE - 6" = 1'-0"
0 0' - 2" 0' - 4" 0' - 6"

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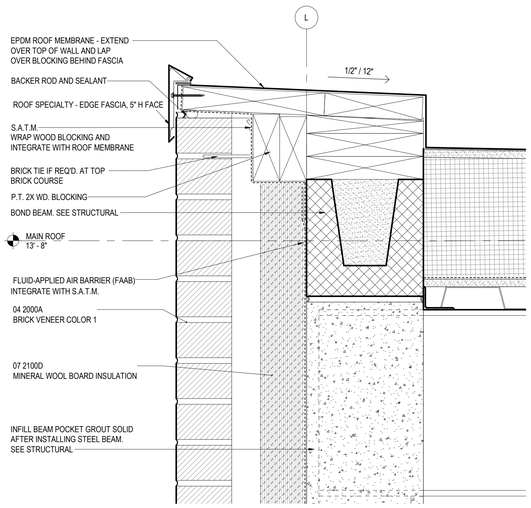
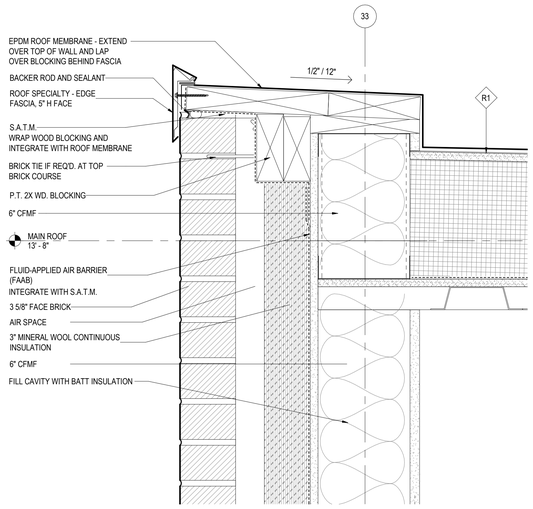
EXTERIOR OPENING DETAILS

A531

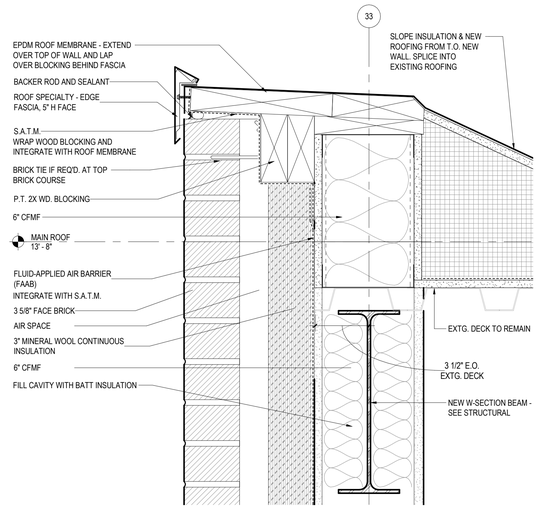
CONSTRUCTION DOCUMENTS
01.14.2022



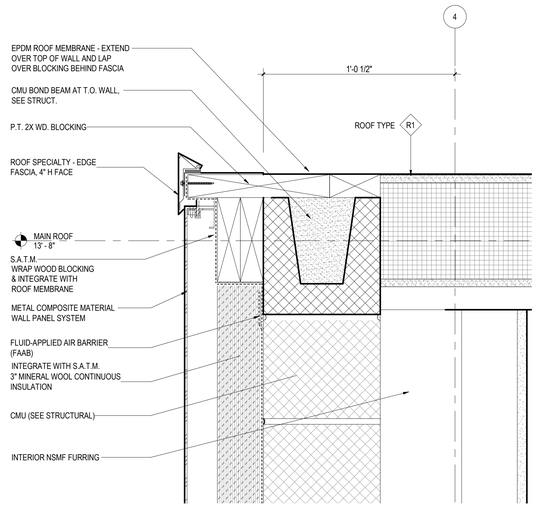
1 A401 A540 DETAIL AT GRAVEL STOP OVER MASONRY - CMU BACKUP
3" = 1'-0"



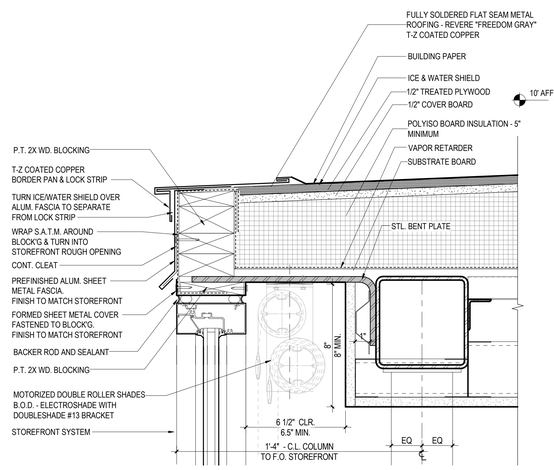
2 A403 A540 DETAIL AT GRAVEL STOP OVER MASONRY - CFMF BACKUP & NEW ROOF
3" = 1'-0"



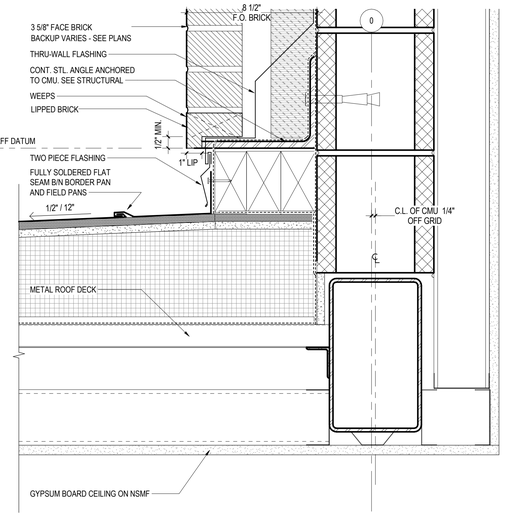
3 A402 A540 DETAIL AT GRAVEL STOP OVER MASONRY - CFMF BACKUP & EXTG ROOF
3" = 1'-0"



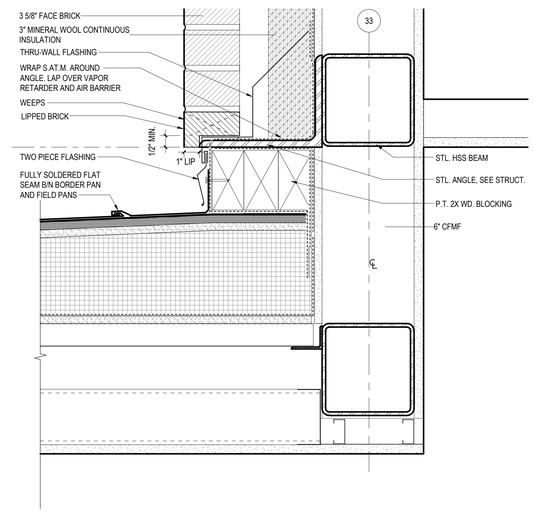
4 A403 A540 DETAIL AT GRAVEL STOP OVER MCMWP
3" = 1'-0"



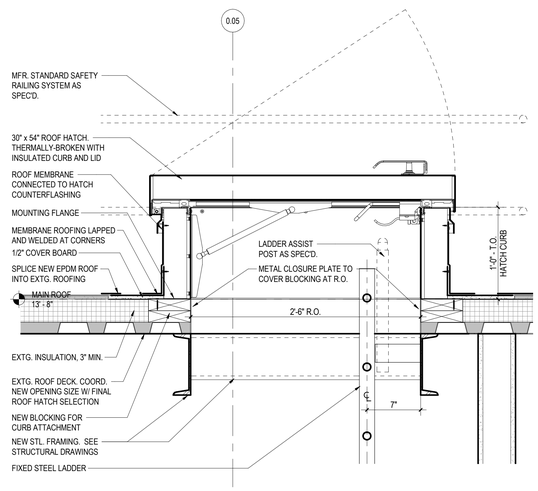
5 A402 A540 DETAIL AT LOW ROOF METAL COPING AND STOREFRONT
3" = 1'-0"



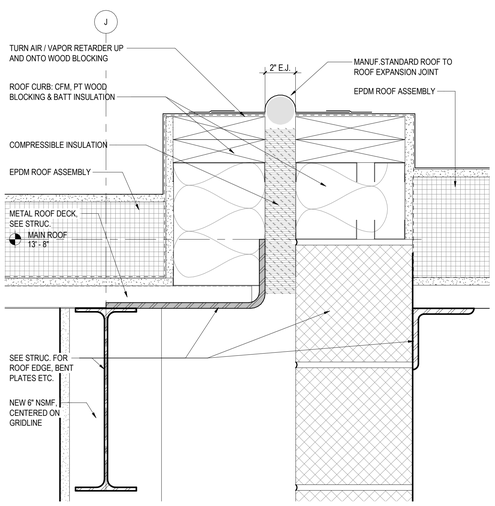
6 A402 A540 DETAIL AT LOW ROOF TRANSITION - CMU BACKUP
3" = 1'-0"



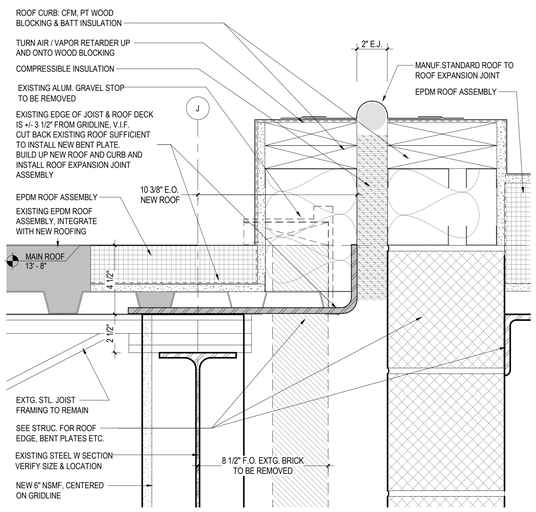
7 A402 A540 DETAIL AT LOW ROOF TRANSITION - NSMF BACKUP
3" = 1'-0"



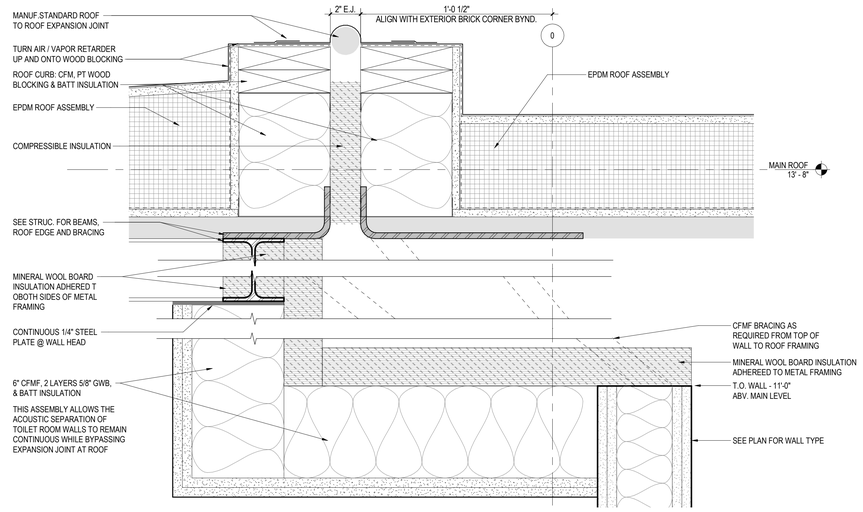
8 A131 A540 DETAIL AT ROOF HATCH
1 1/2" = 1'-0"



9 A404 A540 DETAIL AT ROOF EXPANSION JOINT - NEW TO NEW ROOF
3" = 1'-0"



10 A404 A540 DETAIL AT ROOF EXPANSION JOINT - NEW ROOF TO EXISTING
3" = 1'-0"



11 A131 A540 DETAIL AT NORTH-SOUTH ROOF EXPANSION JOINT
3" = 1'-0"

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NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT

Drawn By JT

GRAPHIC SCALE - 3" = 1'-0"

0 0' - 4" 0' - 8" 1' - 0"

ISSUES AND REVISIONS

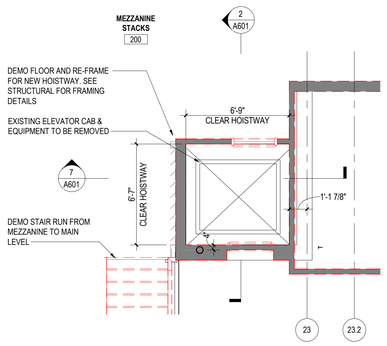
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ROOF DETAILS

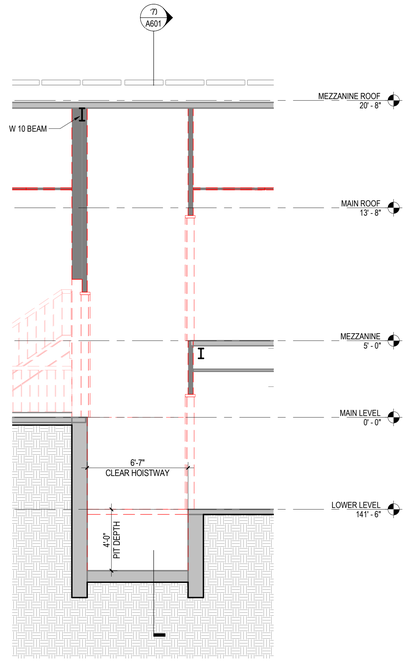
A540

CONSTRUCTION DOCUMENTS

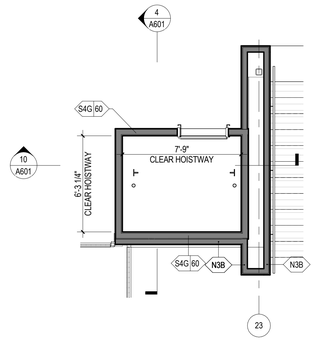
01.14.2022



1 A601 ELEVATOR PLAN - MEZZANINE EXISTING
1/4" = 1'-0"



2 A601 A601 ELEVATOR SECTION AT DOORS - EXISTING
1/4" = 1'-0"



3 A601 ELEVATOR PLAN - MEZZANINE
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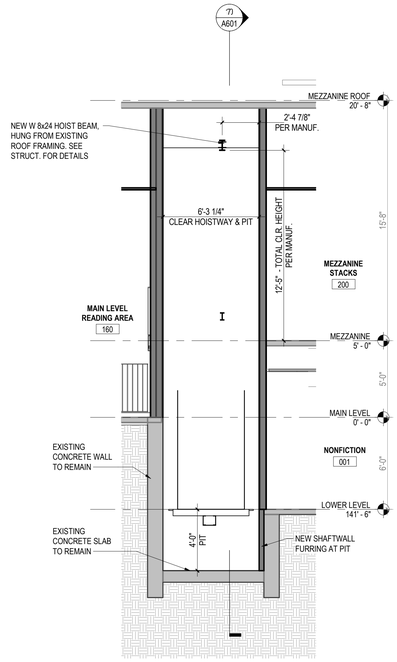
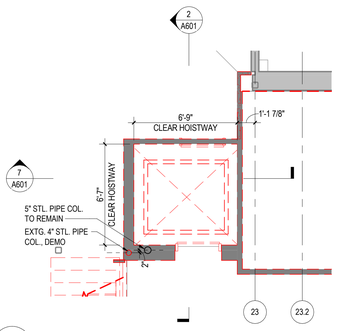
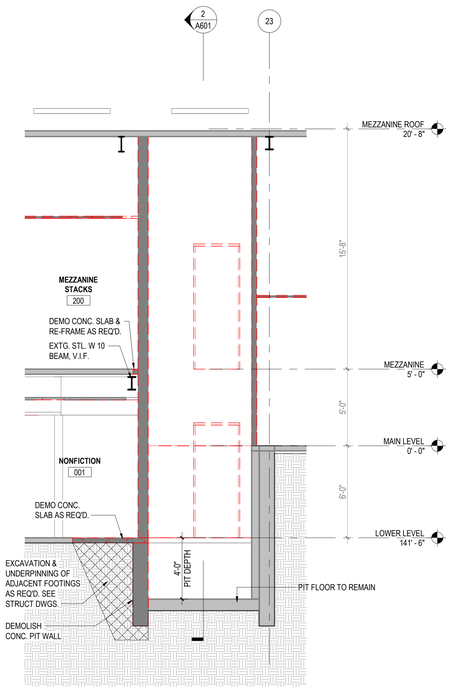


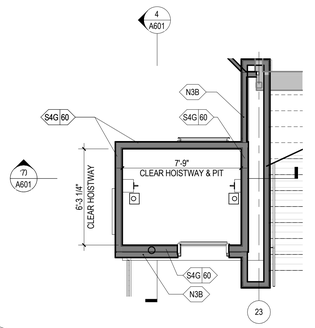
4 A211 A601 ELEVATOR SECTION AT DOORS
1/4" = 1'-0"



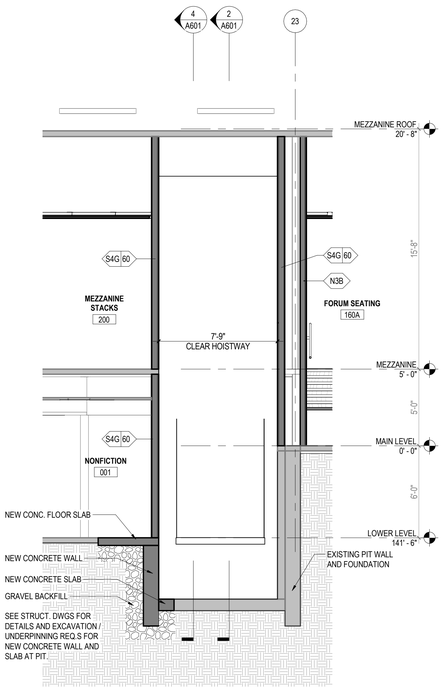
5 AD111 A601 ELEVATOR PLAN - MAIN LEVEL EXISTING
1/4" = 1'-0"



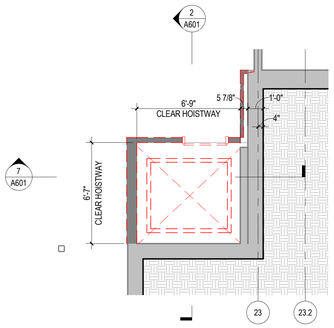
7 A601 A601 ELEVATOR CROSS SECTION - EXISTING
1/4" = 1'-0"



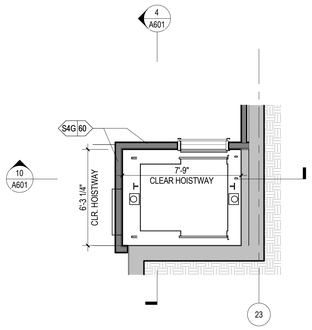
8 A111 A601 ELEVATOR PLAN - MAIN LEVEL
1/4" = 1'-0"



10 A211 A601 ELEVATOR CROSS SECTION
1/4" = 1'-0"



6 AD101 A601 ELEVATOR PLAN - LOWER LEVEL EXISTING
1/4" = 1'-0"



9 A101 A601 ELEVATOR PLAN - LOWER LEVEL
1/4" = 1'-0"

DEMOLITION LEGEND

- AREA OF FULL INTERIOR DEMOLITION. FLOOR SLAB AND STRUCTURE TO REMAIN U.N.O.
- ELEMENTS TO BE DEMOLISHED
- EXISTING WALLS & STRUCTURE TO REMAIN
- EXISTING DOORS TO REMAIN
- DOORS & FIXTURES TO BE DEMOLISHED

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REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By	JT
Drawn By	JS

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

ISSUES AND REVISIONS

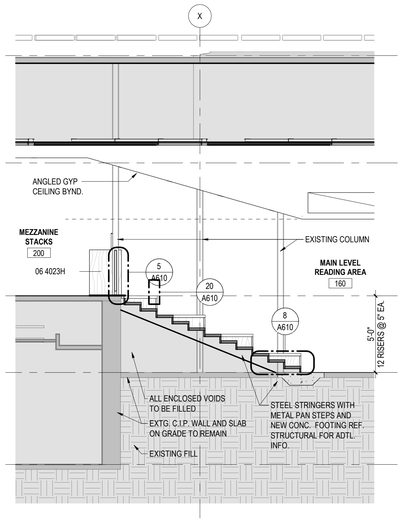
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELEVATOR AXONS, PLANS & SECTIONS

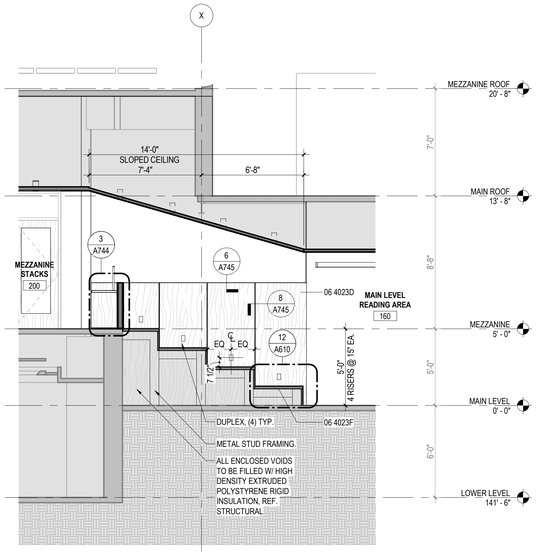
A601

CONSTRUCTION DOCUMENTS
01.14.2022

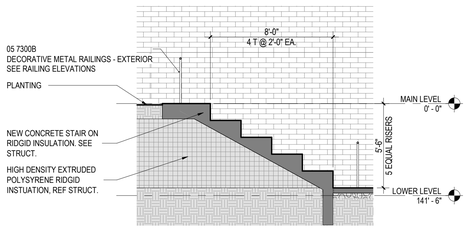
888 NN:\New City Library\100 CENTRAL.rvt
1/1/2022 10:16:07 PM



1 A602 A602 SECTION AT FORUM SEATING STAIR RUN
1/4" = 1'-0"



2 A602 A602 SECTION AT FORUM SEATING
1/4" = 1'-0"



9 A602 A602 SECTION AT ENTRY TERRACE STAIR - TALL RISERS
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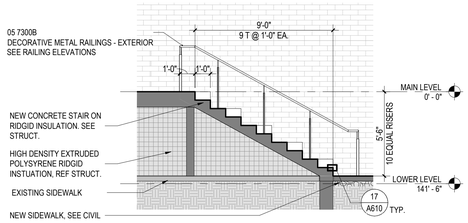
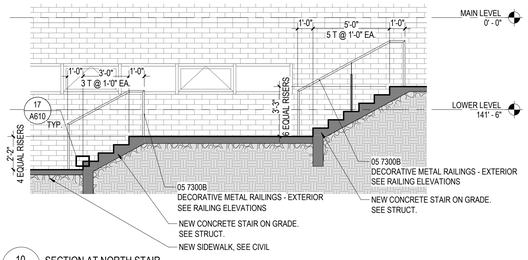
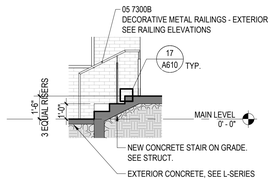


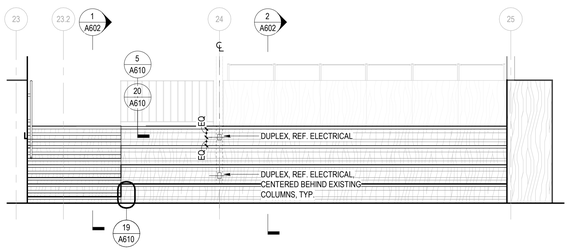
11 A602 A602 SECTION AT ENTRY TERRACE STAIR - RUN
1/4" = 1'-0"



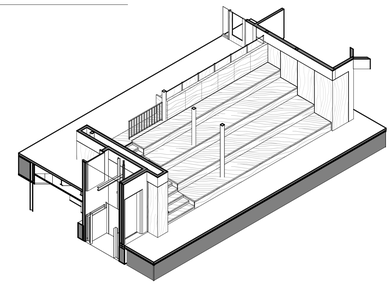
10 A310 A602 SECTION AT NORTH STAIR
1/4" = 1'-0"



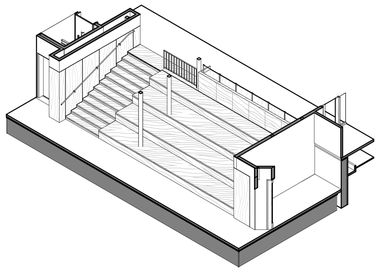
14 A311 A602 SECTION AT PARK STEPS
1/4" = 1'-0"



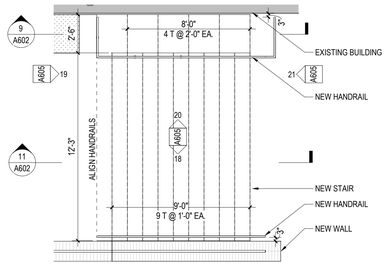
3 A602 A602 ELEVATION - FORUM SEATING STEPS
1/4" = 1'-0"



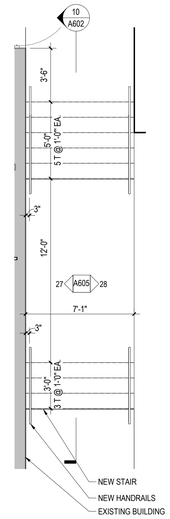
4 A602 AXON - FORUM SEATING



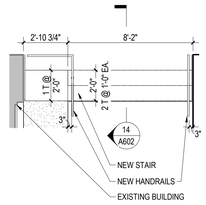
5 A602 AXON - FORUM STAIR & SEATING



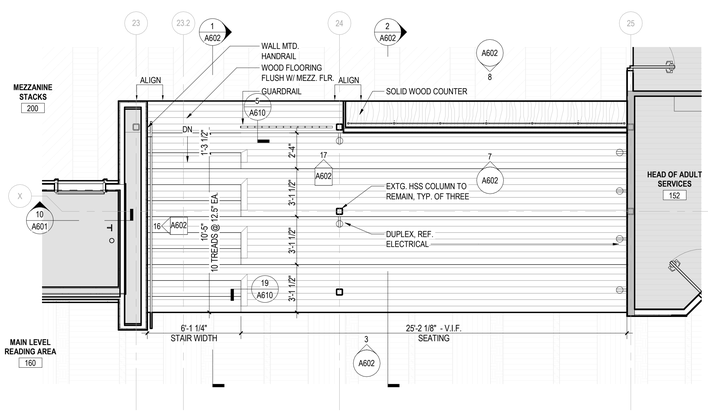
12 A111 A602 ENLARGED PLAN - ENTRY TERRACE STAIR
1/4" = 1'-0"



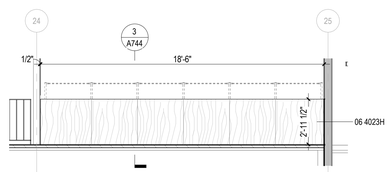
13 A602 ENLARGED PLAN - NORTH STAIR
1/4" = 1'-0"



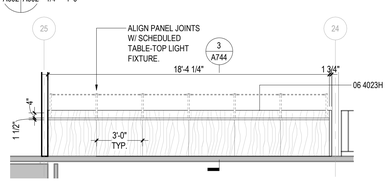
15 A111 A602 ENLARGED PLAN - PARK STEPS
1/4" = 1'-0"



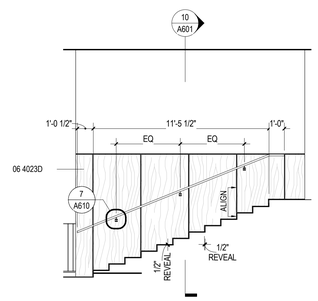
6 A111 A602 ENLARGED PLAN - FORUM SEATING STEPS
1/4" = 1'-0"



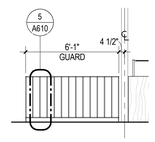
7 A602 A602 FRONT ELEVATION - FORUM COUNTER
1/4" = 1'-0"



8 A602 A602 BACK ELEVATION - FORUM COUNTER
1/4" = 1'-0"



16 A602 A602 FORUM STAIR RAILING ELEVATION
1/4" = 1'-0"



17 A602 A602 FORUM STAIR AT MEZZANINE GUARDRAIL ELEVATION
1/4" = 1'-0"

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Drawn By HO

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

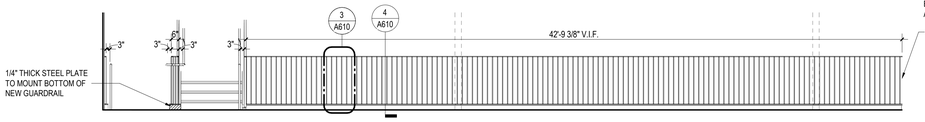
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

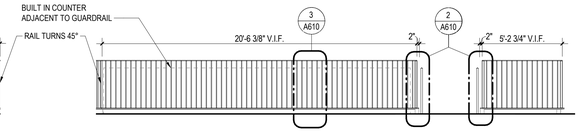
STAIR AXONS, PLANS, SECTIONS & ELEVATIONS

A602

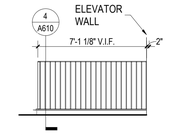
CONSTRUCTION DOCUMENTS
01.14.2022



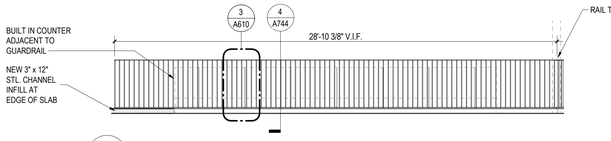
1 A111 A605 MAIN LEVEL GUARDRAIL 1 1/4" = 1'-0"



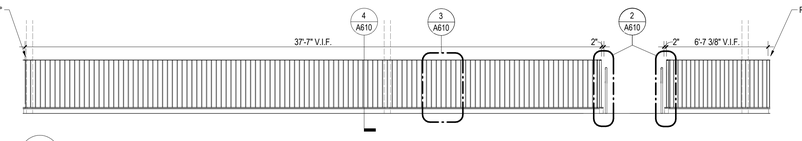
2 A111 A605 MAIN LEVEL GUARDRAIL 2 1/4" = 1'-0"



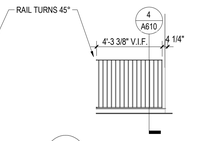
3 A111 A605 MAIN LEVEL GUARDRAIL 3 1/4" = 1'-0"



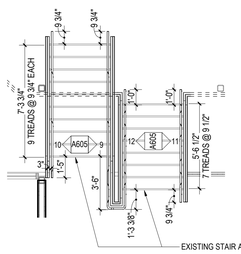
4 A111 A605 MEZZANINE GUARDRAIL 1 1/4" = 1'-0"



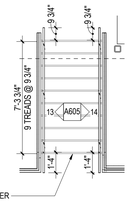
5 A111 A605 MEZZANINE GUARDRAIL 2 1/4" = 1'-0"



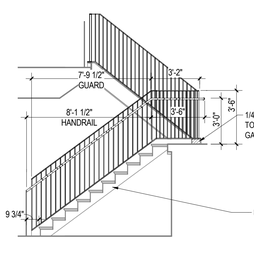
6 A111 A605 MEZZANINE GAURDRAIL 3 1/4" = 1'-0"



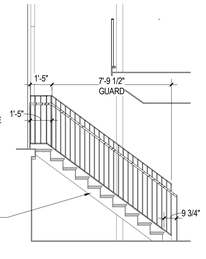
7 A101 A605 STAIR 1 - LOWER LEVEL & MEZZANINE PLAN 1/4" = 1'-0"



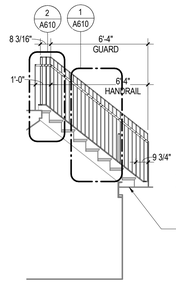
8 A101 A605 STAIR 2 - LOWER LEVEL & FIRST FLOOR 1/4" = 1'-0"



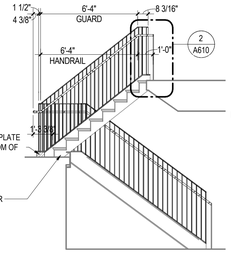
9 A605 A605 STAIR 1 DOWN RAILING 1 1/4" = 1'-0"



10 A605 A605 STAIR 1 DOWN RAILING 2 1/4" = 1'-0"



11 A605 A605 STAIR 1 UP RAILING 1 1/4" = 1'-0"



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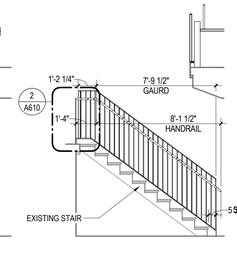
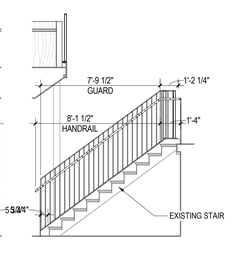
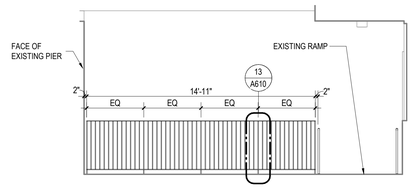


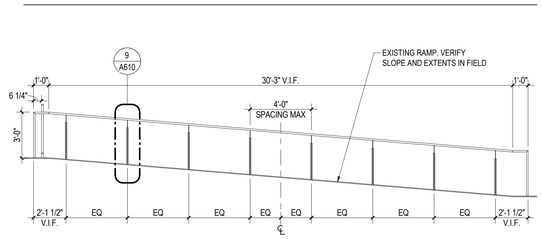
13 A605 A605 STAIR 2 RAILING 1 1/4" = 1'-0"



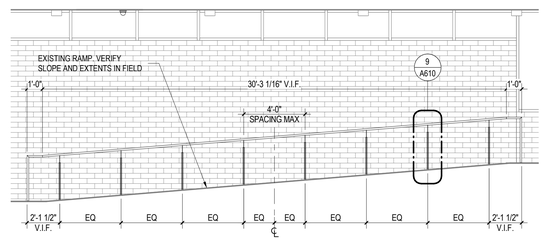
14 A605 A605 STAIR 2 RAILING 2 1/4" = 1'-0"



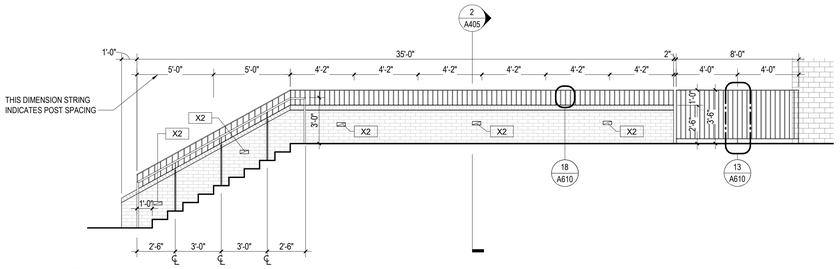
15 A111 A605 ENTRY TERRACE GUARDRAIL 1/4" = 1'-0"



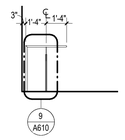
16 A111 A605 NEW HANDRAIL 1 AT EXISTING ENTRY RAMP 1/4" = 1'-0"



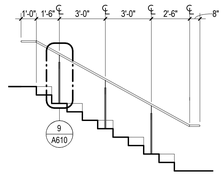
17 A111 A605 NEW HANDRAIL 2 AT EXISTING ENTRY RAMP 1/4" = 1'-0"



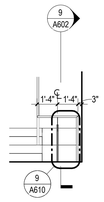
18 A111 A605 ENTRY TERRACE GUARDRAIL AND HANDRAIL 1 1/4" = 1'-0"



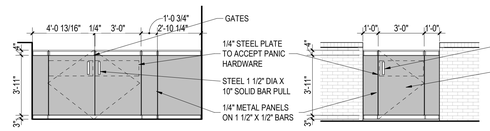
19 A111 A605 TERRACE HANDRAIL 2 - WEST 1/4" = 1'-0"



20 A111 A605 TERRACE HANDRAIL 2 - SOUTH 1/4" = 1'-0"

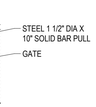


21 A602 A605 TERRACE HANDRAIL 2 - EAST 1/4" = 1'-0"

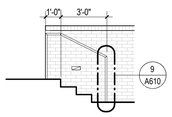


ENLARGED ELEVATIONS AND DETAILS SEE SHEET A611

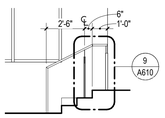
22 A111 A605 WEST PARK GATE ELEVATION 1/4" = 1'-0"



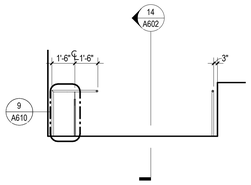
23 A111 A605 NORTH PARK GATE ELEVATION 1/4" = 1'-0"



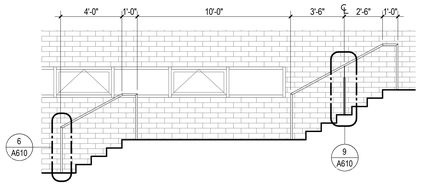
24 A111 A605 PARK HANDRAIL 1 1/4" = 1'-0"



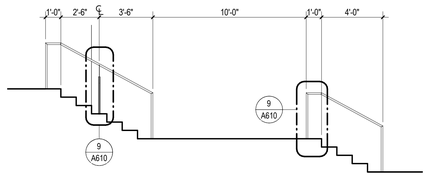
25 A111 A605 PARK HANDRAIL 2 - NORTH 1/4" = 1'-0"



26 A111 A605 PARK HANDRAIL 2 - WEST 1/4" = 1'-0"



27 A602 A605 NORTH STAIR HANDRAILS 1 1/4" = 1'-0"



28 A101 A605 NORTH STAIR HANDRAILS 2 1/4" = 1'-0"

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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT
Drawn By HO

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

ISSUES AND REVISIONS

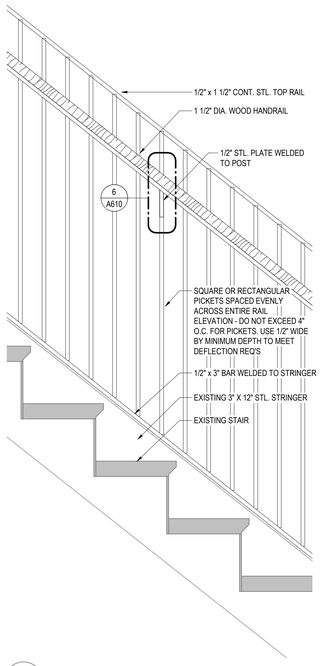
NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

RAILING ELEVATIONS

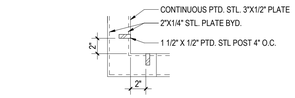
A605

CONSTRUCTION DOCUMENTS

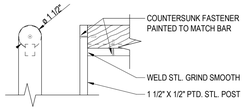
01.14.2022



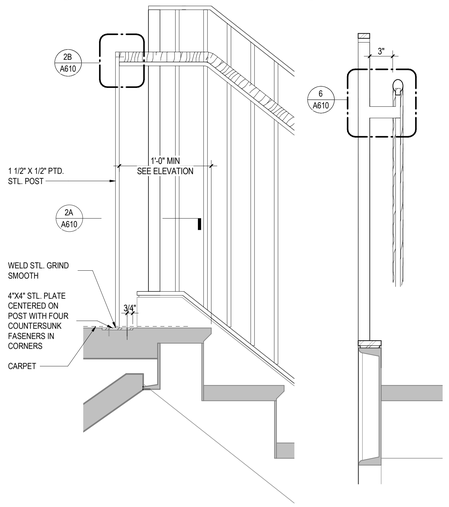
1 A605 A610 TYP. SEC./ELEV. @ EXISTING STAIR
1 1/2" = 1'-0"



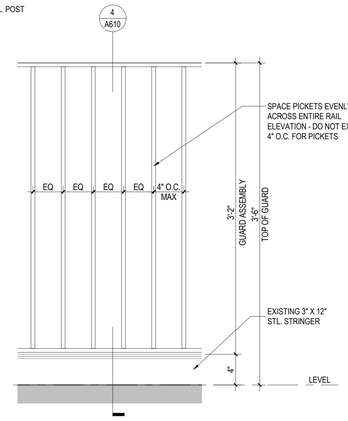
2A A610 A610 CORNER PLAN DETAIL
1 1/2" = 1'-0"



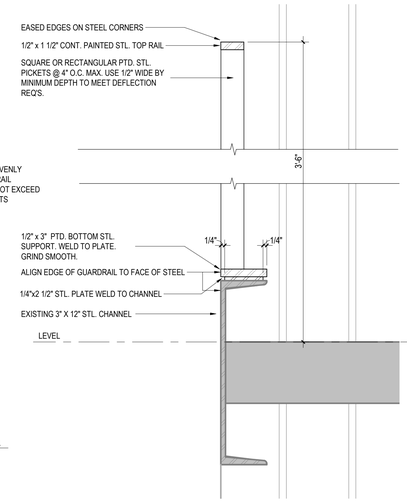
2B A610 A610 ELEV. HANDRAIL POST
3" = 1'-0"



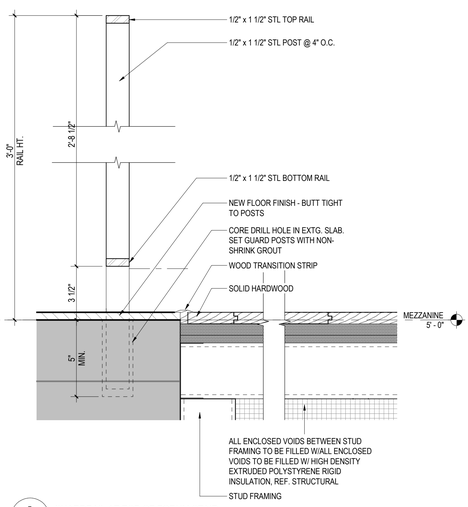
2 A605 A610 TYP. SEC./ELEV. TOP TREAD @ EXISTING STAIR
1 1/2" = 1'-0"



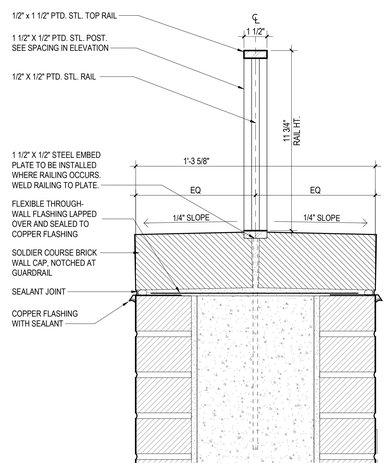
3 A605 A610 TYP. ELEV. OF INTERIOR GUARDRAIL
1 1/2" = 1'-0"



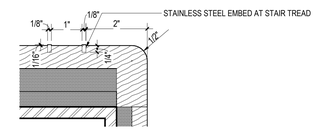
4 A605 A610 TYP. GUARDRAIL AT EXISTING SLAB EDGE
3" = 1'-0"



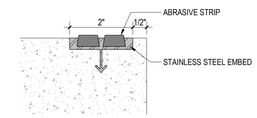
5 A602 A610 GUARDRAIL AT TOP OF FORUM STAIR
3" = 1'-0"



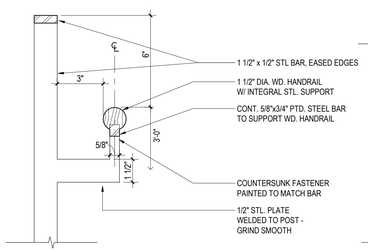
18 A405 A610 TERRACE WALL RAILING
3" = 1'-0"



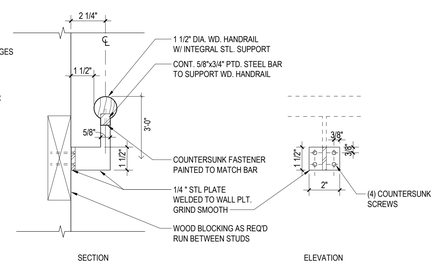
8A A610 A610 DETAIL AT FORUM STAIR NOSING AND EMBED
6" = 1'-0"



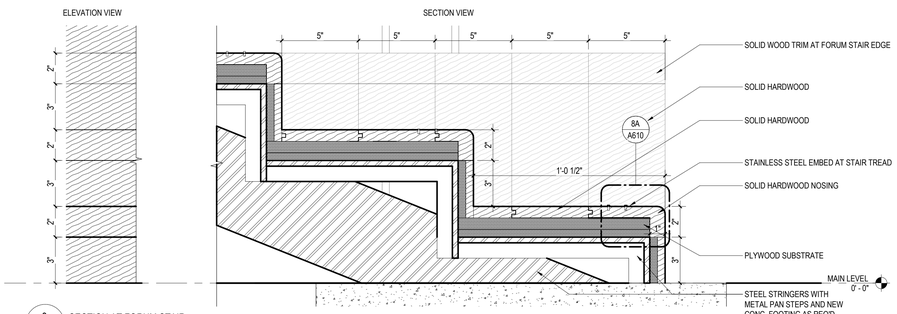
17 A602 A610 TYP. EXTERIOR CONCRETE STEP EMBED
6" = 1'-0"



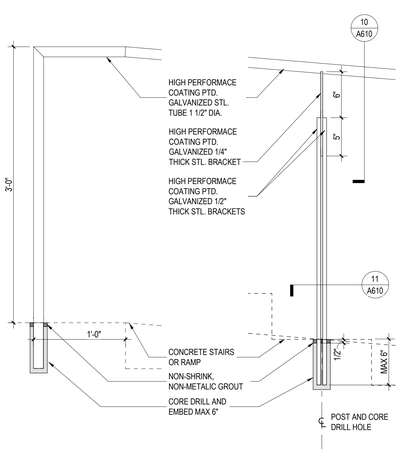
6 A605 A610 TYP. WD. HANDRAIL @ STAIR GUARD
N.T.S.



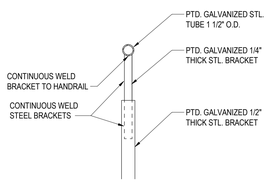
7 A602 A610 TYP. WD. HANDRAIL @ WALL
N.T.S.



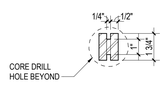
8 A602 A610 SECTION AT FORUM STAIR
3" = 1'-0"



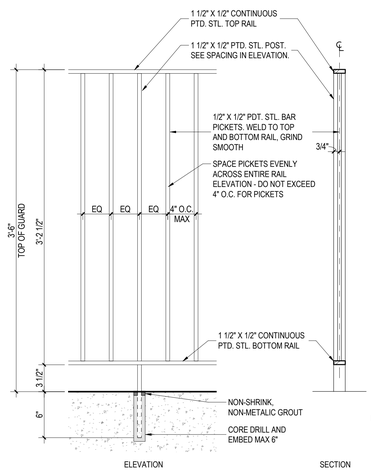
9 A605 A610 TYP. EXTERIOR HANDRAIL DETAIL
1 1/2" = 1'-0"



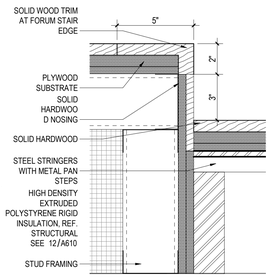
10 A610 A610 EXTERIOR HANDRAIL SECTION DETAIL
1 1/2" = 1'-0"



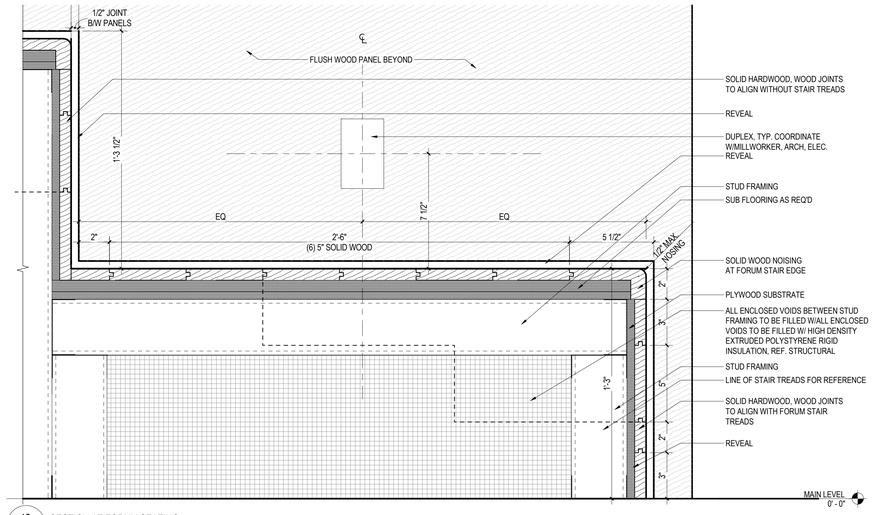
11 A610 A610 HANDRAIL PLAN DETAIL
3" = 1'-0"



13 A605 A610 TYP. EXTERIOR GUARDRAIL
1 1/2" = 1'-0"



19 A602 A610 DETAIL AT FORUM STAIR AND FORUM SEATING
3" = 1'-0"



12 A602 A610 SECTION AT FORUM SEATING
3" = 1'-0"

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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATHANS
043173
STATE OF NEW YORK

Checked By JT
Drawn By HO

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

STAIR & RAILING DETAILS

A610

CONSTRUCTION DOCUMENTS
01.14.2022

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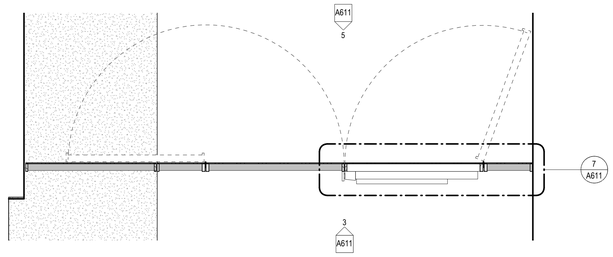
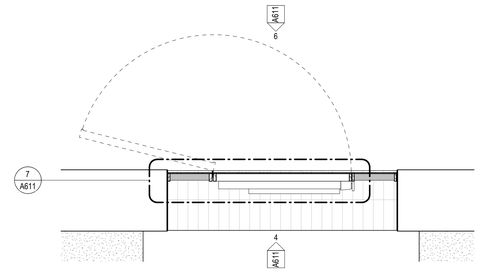
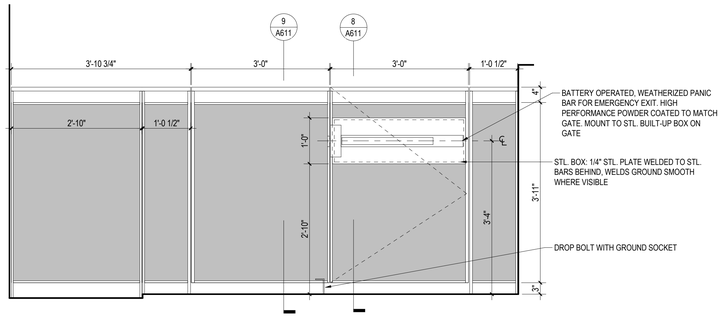


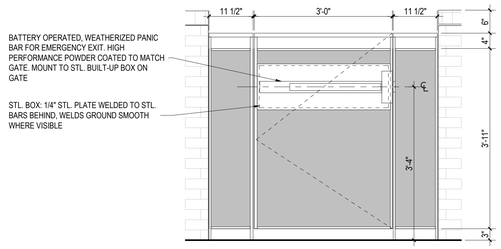
1 A611 ENLARGED PLAN - WEST PARK GATE
3/4" = 1'-0"



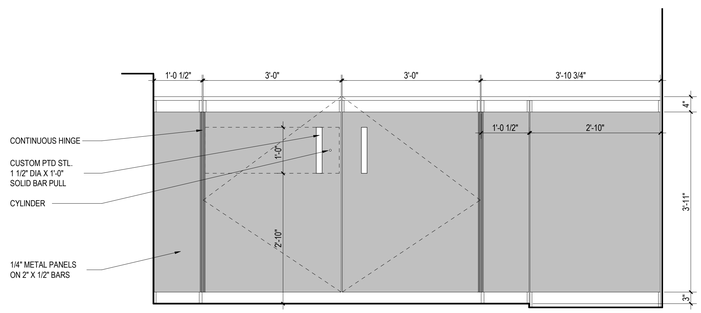
2 A611 ENLARGED PLAN - NORTH PARK GATE
3/4" = 1'-0"



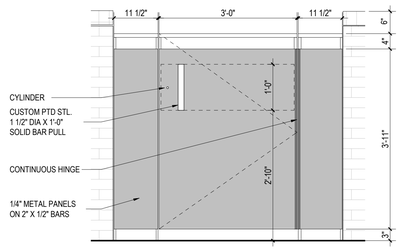
3 A611 A611 ENLARGED ELEVATION - WEST PARK GATE BACK
3/4" = 1'-0"



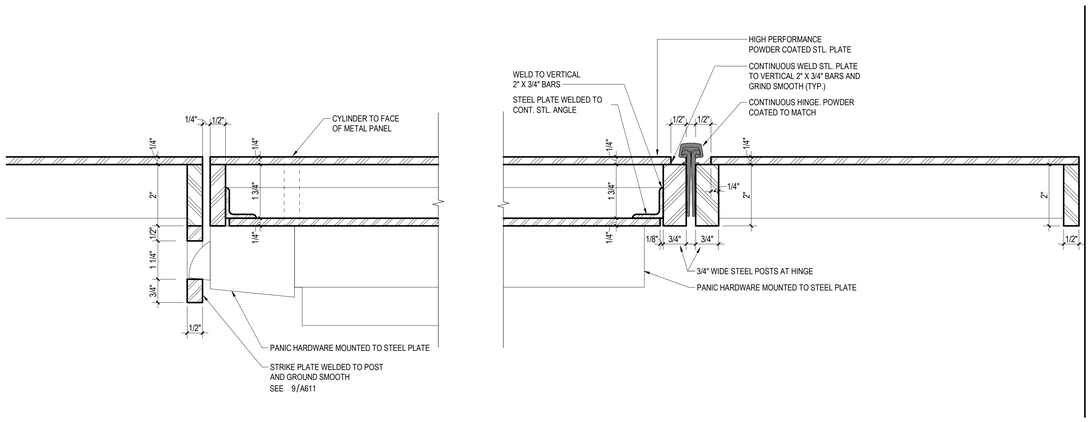
4 A611 A611 ENLARGED ELEVATION - NORTH PARK GATE BACK
3/4" = 1'-0"



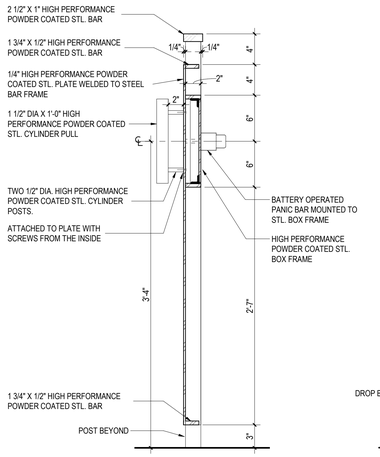
5 A611 A611 ENLARGED ELEVATION - WEST PARK GATE FRONT
3/4" = 1'-0"



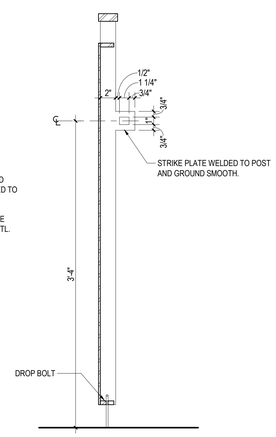
6 A611 A611 ENLARGED ELEVATION - NORTH PARK GATE FRONT
3/4" = 1'-0"



7 A611 A611 TYP. JAMB DETAILS - PARK GATE
6" = 1'-0"



8 A611 A611 STEEL GATE SECTION
1 1/2" = 1'-0"



9 A611 A611 STEEL GATE STRIKE SECTION
1 1/2" = 1'-0"

GRAPHIC SCALE - 3/4" = 1'-0"

0 1' - 4" 2' - 8" 4' - 0"

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VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By	JT
Drawn By	HO

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

GATE DETAILS

A611

CONSTRUCTION DOCUMENTS

01.14.2022

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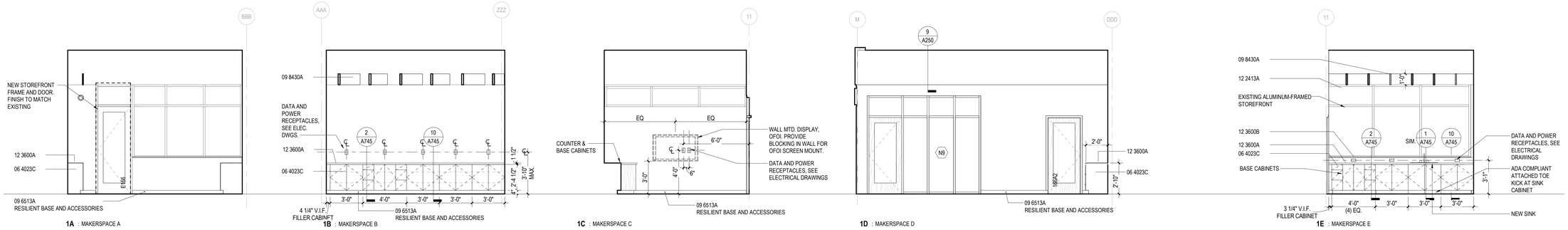

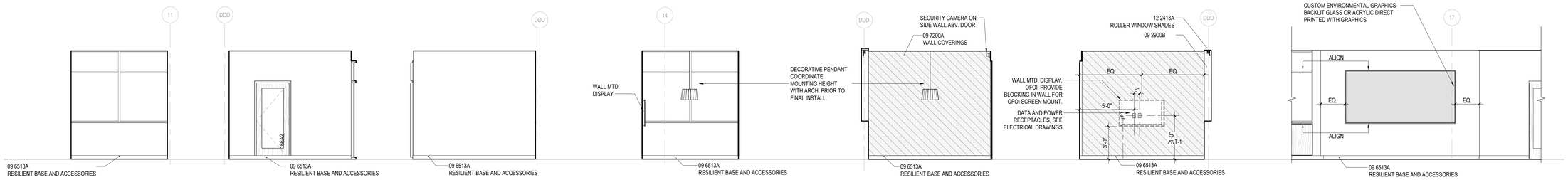

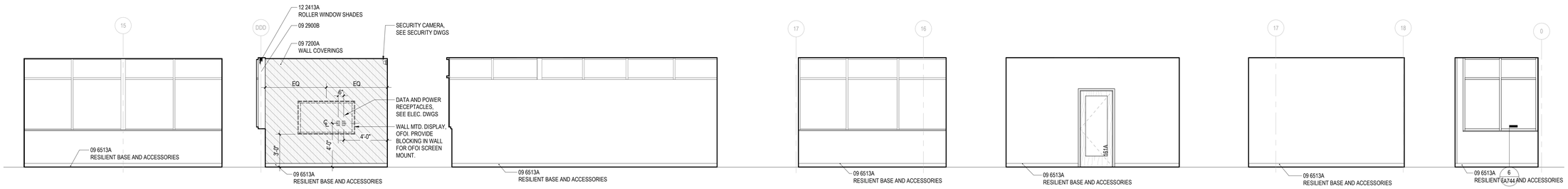

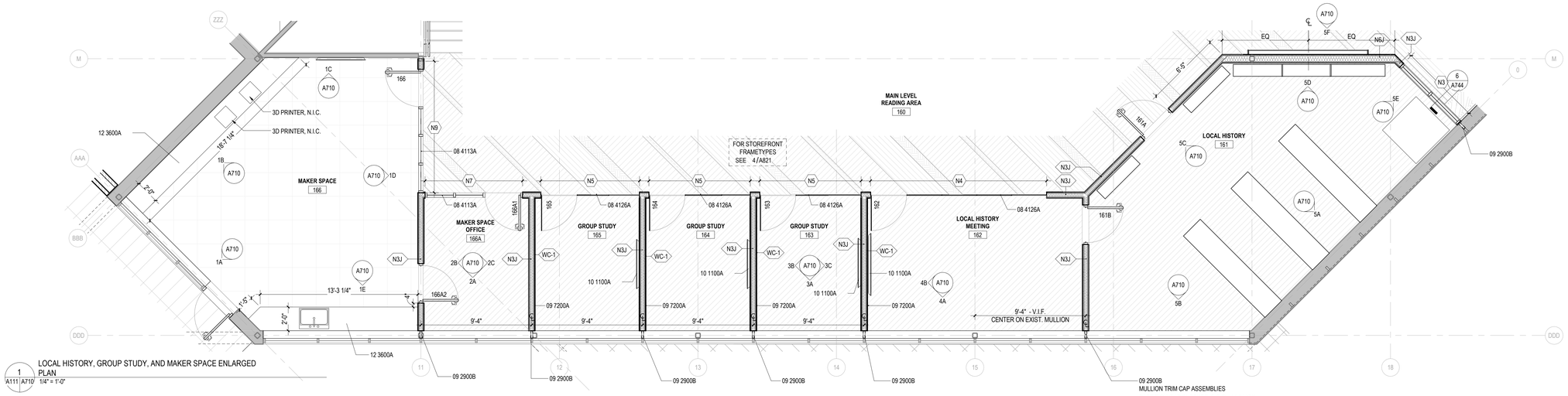

FLOOR PLAN GENERAL NOTES

1. SEE LANDSCAPE DRAWINGS FOR HARDSCAPE ELEMENTS, PAVING AND SITE WALL ADJACENT TO THE BUILDING.
2. LOCATE ROUGH OPENINGS FOR DOORS 4" FROM INSIDE FACE OF INTERSECTING WALL UNLESS OTHERWISE NOTED.
3. REFER TO LIFE SAFETY PLANS FOR ADDITIONAL RATED CONSTRUCTION INFORMATION.
4. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, MASONRY OPENING, AND OUTSIDE EDGE OF DOOR FRAME (NOMINAL), U.N.O.
5. PROVIDE ACCESS PANELS / DOORS IN PARTITIONS AT ALL LOCATIONS REQUIRING ACCESS. PANELS SHALL MAINTAIN FIRE RATING.
6. PROVIDE WOOD BLOCKING OR 18 GAUGE METAL STRAPPING BEHIND G.W.B. WHERE REQUIRED TO SUPPORT FIXTURES OR EQUIPMENT PROVIDED IN THE CONTRACT OR BY OTHERS.
7. WHERE METAL FRAMING REQUIRES SUPPORT AT COLUMNS & BEAMS, PROVIDE METAL STAND-OFFS PRIOR TO APPLYING FIREPROOFING.
8. ALL M.E.P. AND I.T. SYSTEMS ARE TO BE CONCEALED WITHIN WALL OR CEILING CAVITY, U.N.O.
9. ALL INTERIOR PARTITIONS ARE TYPE **N3A** U.N.O. SEE T002 FOR PARTITION TYPES.
11. SEE SHEET A002 FOR PARTITION TYPES.
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13. SEE ELEVATION SHEETS A300 FOR EXTERIOR FRAME TYPE TAGS. SEE A800 SERIES FOR FRAME TYPES.
14. SEE PLANS & INTERIOR ELEVATION A700 SHEETS FOR INTERIOR FRAME TYPE TAGS. SEE A800 SHEETS FOR FRAME TYPES.

INTERIOR ELEVATION GENERAL NOTES

1. CERTAIN ELEMENTS MAY NOT BE SHOWN IN INTERIOR ELEVATIONS. REFER TO COMPLETE DOCUMENT SET FOR INFORMATION ON MECHANICAL, ELECTRICAL & PLUMBING ITEMS, ETC.
2. FOR INFORMATION ON FINISHES SEE A900s.

KEYNOTES

06 4023C	INTERIOR ARCHITECTURAL WOODWORK - PLAM ARCH. CABINETS
08 4113A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 4126A	ALL-GLASS ENTRANCES AND STOREFRONTS
09 2900B	MULLION TRIM CAP ASSEMBLIES
09 6513A	RESILIENT BASE AND ACCESSORIES
09 7200A	WALL COVERINGS
09 8430A	SOUND-ABSORBING PANELS
10 1100A	VISUAL DISPLAY SURFACES
12 2413A	ROLLER WINDOW SHADES
12 3600A	COUNTERTOPS - SOLID SURFACE
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS

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REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT
Drawn By CS

GRAPHIC SCALE - 1/4" = 1'-0"
0 4'-0" 8'-0" 12'-0"

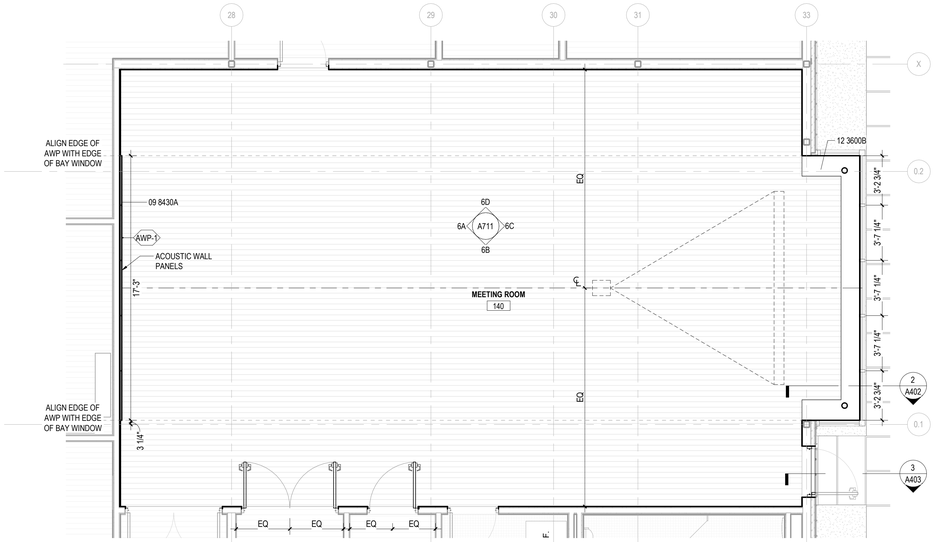
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

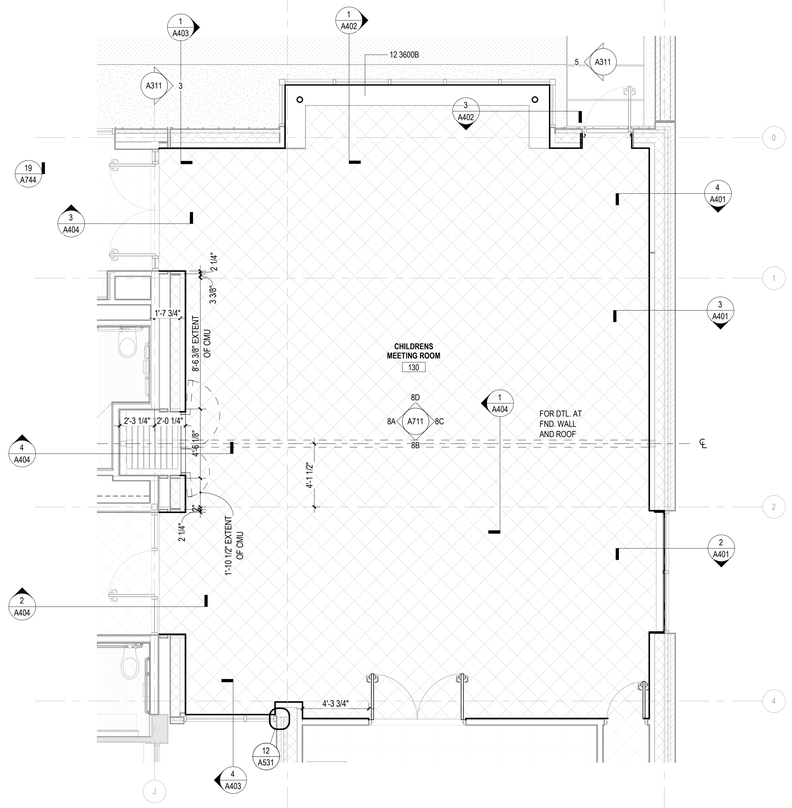
ENLARGED PLANS & INTERIOR ELEVATIONS

A710

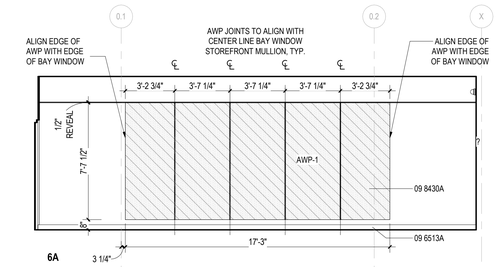
CONSTRUCTION DOCUMENTS
01.14.2022



1 A711 ENLARGED PLAN - ADULT MEETING ROOM
1/4" = 1'-0"



2 A711 ENLARGED PLAN - CHILDRENS MEETING ROOM
1/4" = 1'-0"



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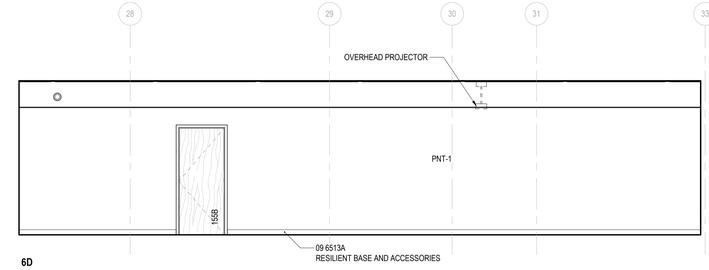

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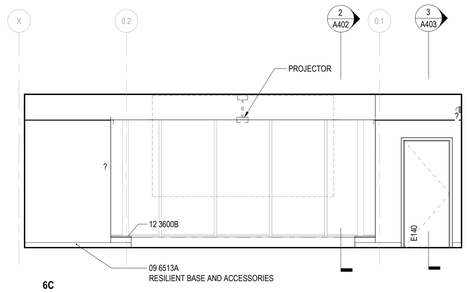

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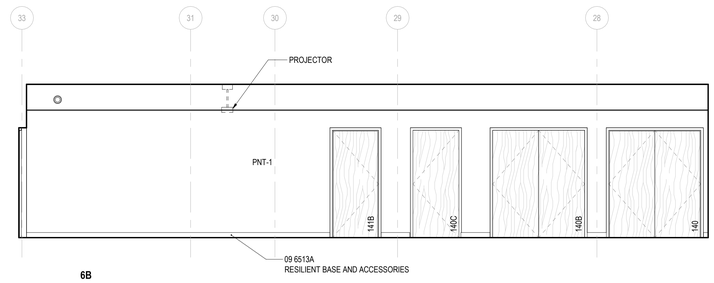

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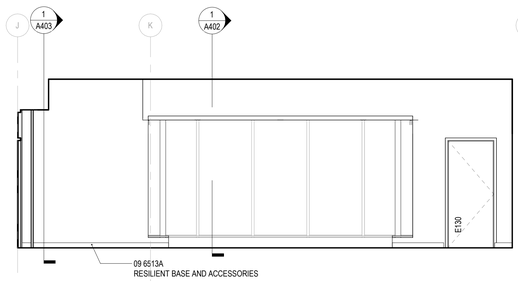

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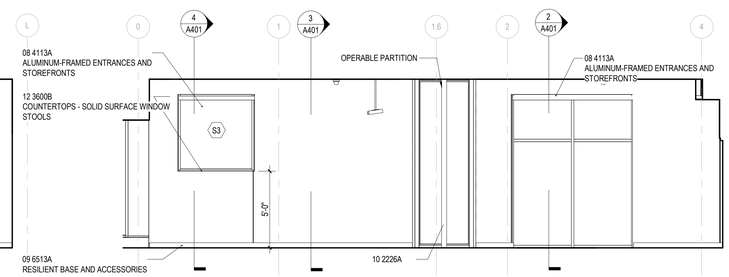

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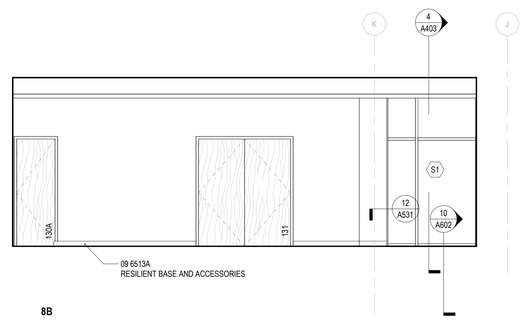

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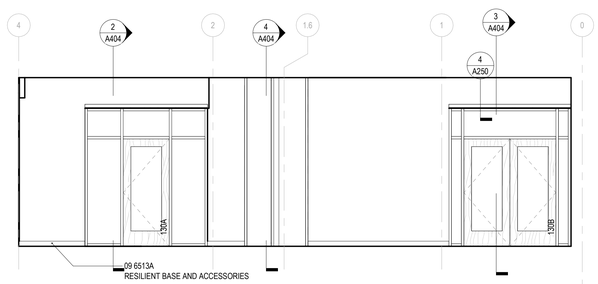

8A

FLOOR PLAN GENERAL NOTES

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10 2226A	FOLDING PANEL PARTITIONS
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS

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Checked By JT
Drawn By JT

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

ISSUES AND REVISIONS

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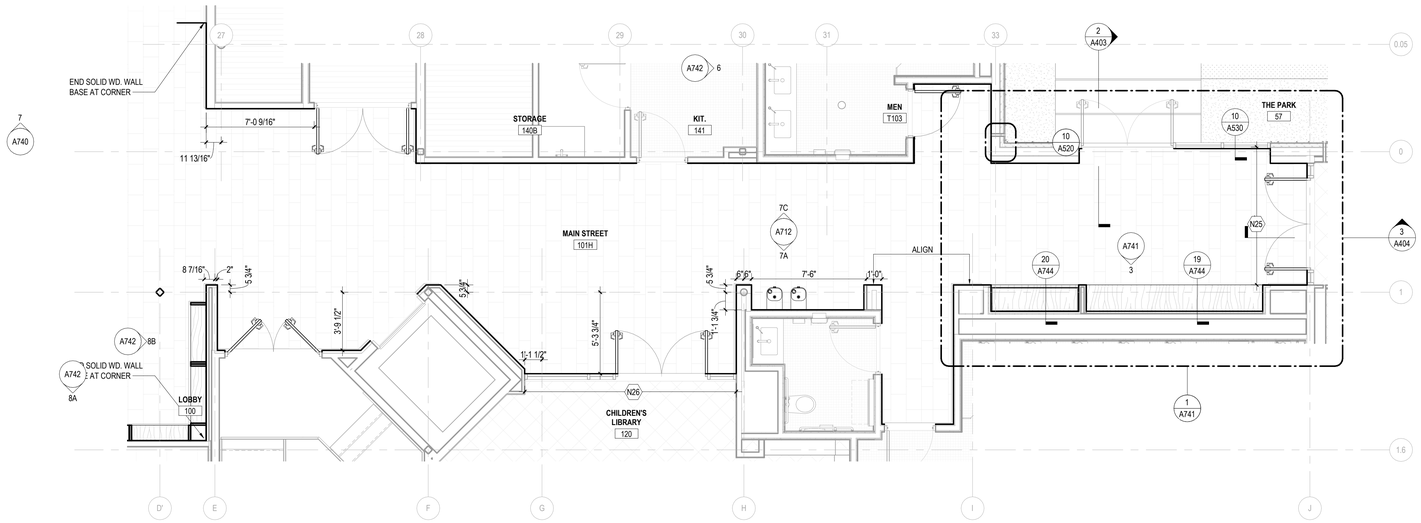
	100% CONSTRUCTION DOCUMENTS	01.14.2022

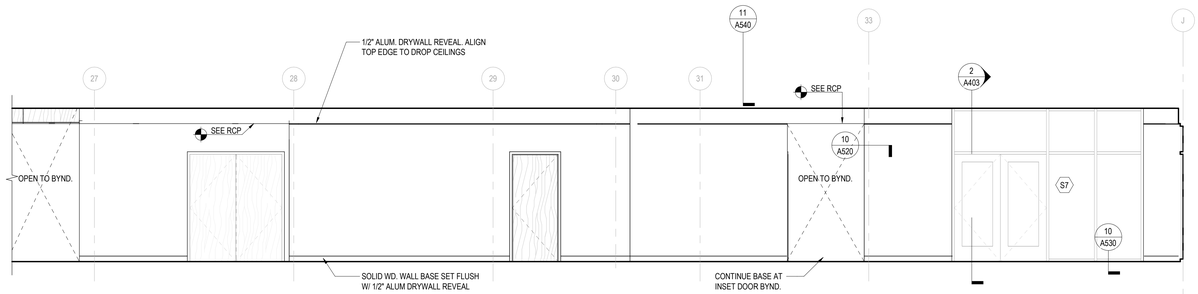
ENLARGED PLANS & INTERIOR ELEVATIONS

A711

CONSTRUCTION DOCUMENTS
01.14.2022



1 A712 ENLARGED PLAN - MAIN STREET
1/4" = 1'-0"



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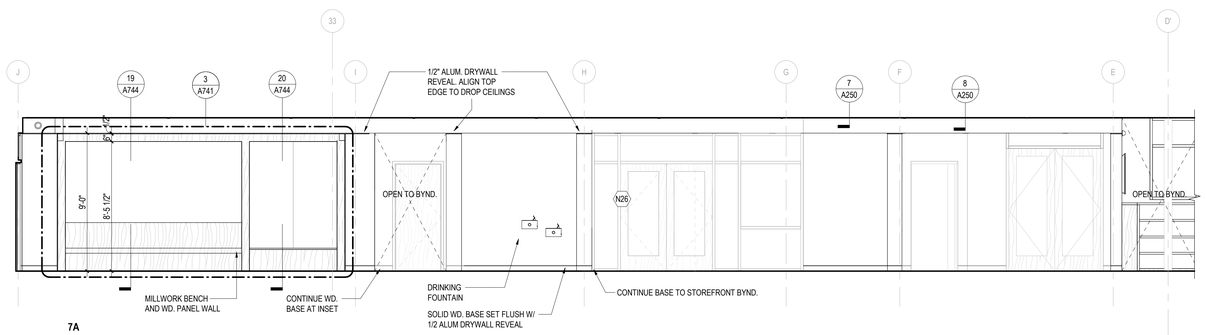

7A

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ENLARGED PLANS & INTERIOR ELEVATIONS

A712

CONSTRUCTION DOCUMENTS
01.14.2022

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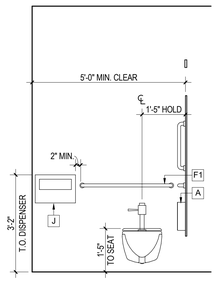
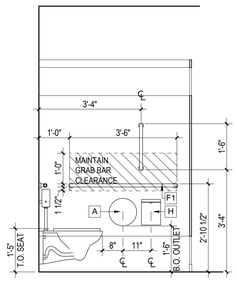
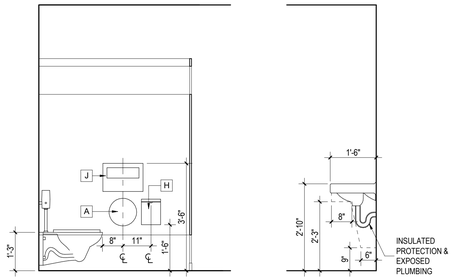


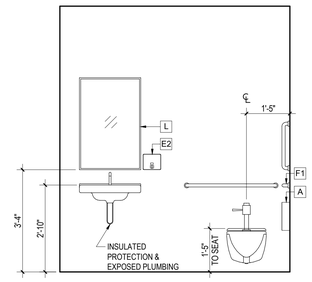
1 A720 TYP. ACCESSIBLE TOILET STALL - FRONT VIEW
N.T.S.



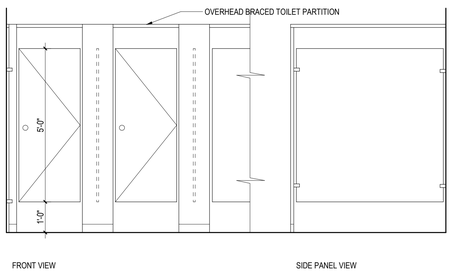
2 A720 TYP. ACCESSIBLE TOILET STALL - SIDE VIEW
N.T.S.



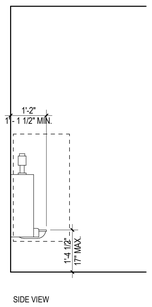
3 A720 TYP. TOILET STALL AND LAVATORY - SIDE VIEW
N.T.S.



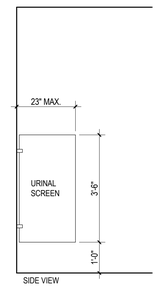
4 A720 TYP. ACCESSIBLE UNISEX TOILET FRONT VIEW
N.T.S.



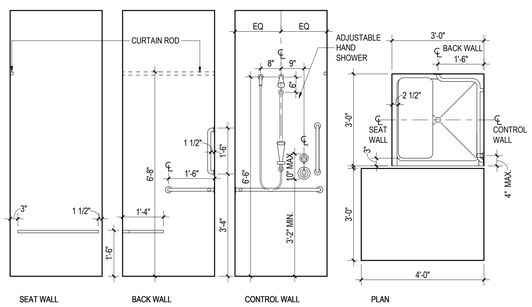
5 A720 TYP. FLOOR MOUNTED TOILET PARTITION ELEVATION
N.T.S.



6 A720 TYP. ACCESSIBLE URINAL
N.T.S.



7 A720 TYP. URINAL SCREEN ELEV.
N.T.S.



8 A720 TYP. 36" X 36" ACCESSIBLE SHOWER
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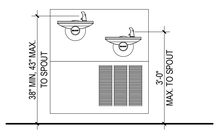
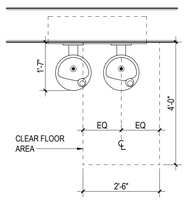


9 A720 TYP. RECESSED WATER COOLER, ELEVATION
N.T.S.



10 A720 TYP. RECESSED WATER COOLER, PLAN
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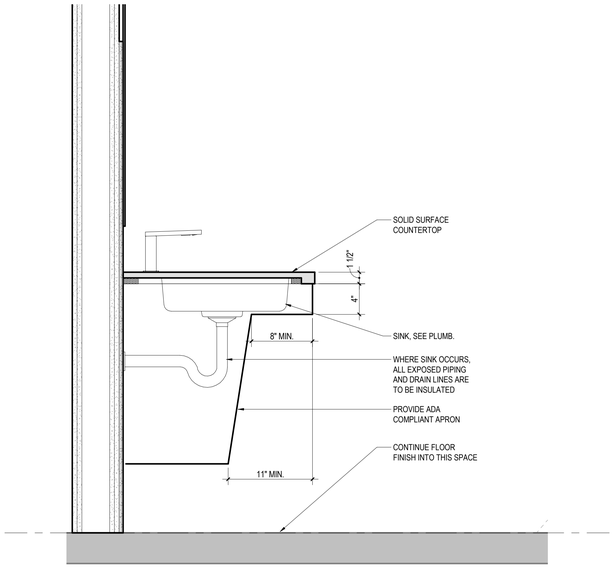


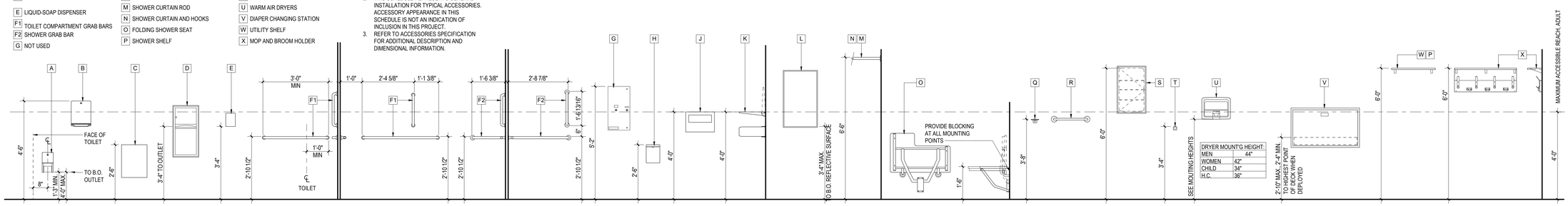
11 A721 A720 TYP. DETAIL AT UNDERMOUNT SINK
1 1/2" = 1'-0"

ACCESSORY LEGEND

A TOILET TISSUE DISPENSER	H SANITARY NAPKIN DISPOSAL UNIT	Q SOAP DISH
B PAPER TOWEL DISPENSER	J SEAT-COVER DISPENSER	R NOT USED
C NOT USED	K NOT USED	S NOT USED
D NOT USED	L MIRROR UNIT	T ROBE HOOK
E LIQUID-SOAP DISPENSER	M SHOWER CURTAIN ROD	U WARM AIR DRYERS
F1 TOILET COMPARTMENT GRAB BARS	N SHOWER CURTAIN AND HOOKS	V DIAPER CHANGING STATION
F2 SHOWER GRAB BAR	O FOLDING SHOWER SEAT	W UTILITY SHELF
G NOT USED	P SHOWER SHELF	X MOP AND BROOM HOLDER

ACCESSORY GENERAL NOTES:

1. DIMENSIONS INDICATE AVERAGE MOUNTING HEIGHT FROM FINISHED FLOOR FOR CONDITIONS GENERALLY ENCOUNTERED IN PUBLIC WASHROOMS. MOUNTING HEIGHTS SHALL BE IN COMPLIANCE WITH ADA 2010.
2. THIS SCHEDULE REPRESENTS GENERAL INSTALLATION FOR TYPICAL ACCESSORIES. ACCESSORY APPEARANCE IN THIS SCHEDULE IS NOT AN INDICATION OF INCLUSION IN THIS PROJECT.
3. REFER TO ACCESSORIES SPECIFICATION FOR ADDITIONAL DESCRIPTION AND DIMENSIONAL INFORMATION.



12 A720 TYP. TOILET ACCESSORY ELEVATIONS
N.T.S.

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VMDO Architects
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434.296.5684

200 E Market Street
Charlottesville, VA 22902

1200 18th Street NW Ste 700
Washington, DC 20036

New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATHANS 043173 STATE OF NEW YORK

Checked By Checker
Drawn By JS

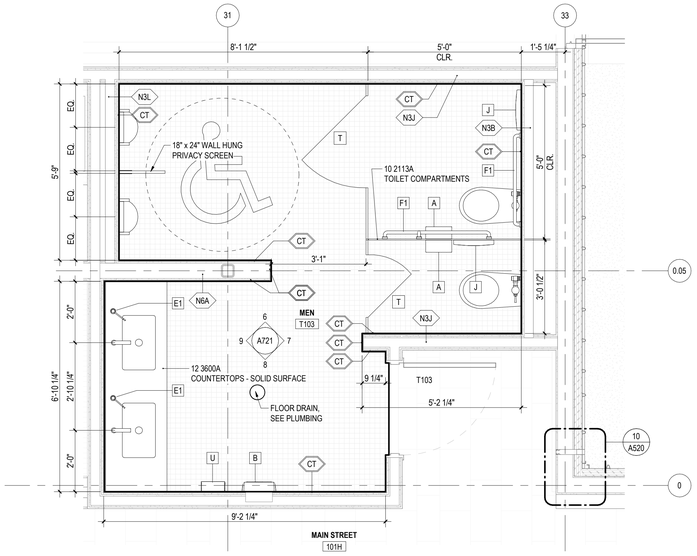
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

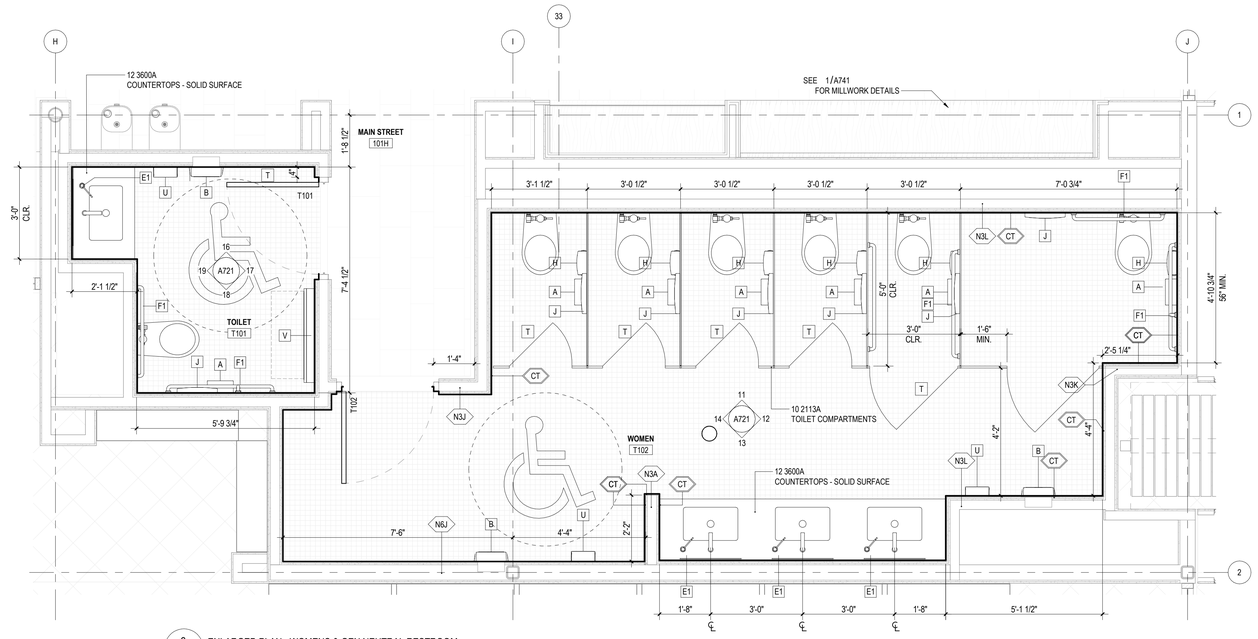
TYPICAL TOILET ROOM LAYOUTS & ELEVATIONS

A720

CONSTRUCTION DOCUMENTS
01.14.2022



1 A111 A721 ENLARGED PLAN - MENS RESTROOM
1/2" = 1'-0"



2 A111 A721 ENLARGED PLAN - WOMENS & GEN NEUTRAL RESTROOM
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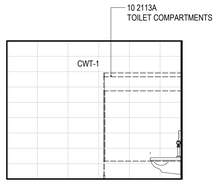

6 A721 A721 WEST ELEVATION - MENS RESTROOM
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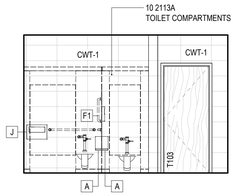

7 A711 A721 NORTH ELEVATION - MENS RESTROOM
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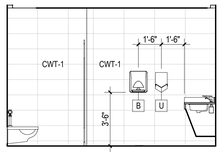

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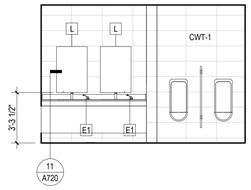
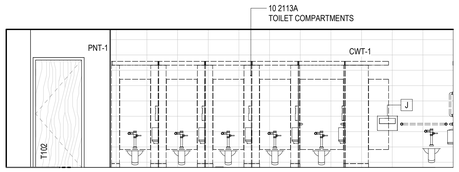
1/4" = 1'-0"



9 A711 A721 SOUTH ELEVATION - MENS RESTROOM
1/4" = 1'-0"



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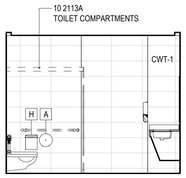
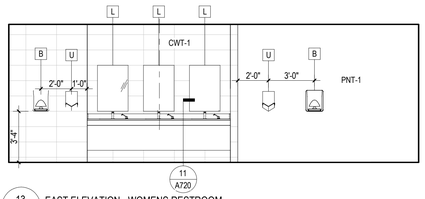
1/4" = 1'-0"



12 A721 A721 NORTH ELEVATION - WOMENS RESTROOM
1/4" = 1'-0"



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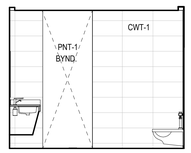
1/4" = 1'-0"



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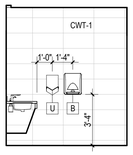
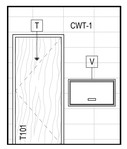
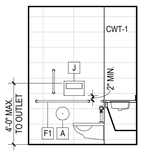
1/4" = 1'-0"



16 A721 A721 WEST ELEVATION - ALL GENDER RESTROOM
1/4" = 1'-0"



17 A721 A721 NORTH ELEVATION - ALL GENDER RESTROOM
1/4" = 1'-0"



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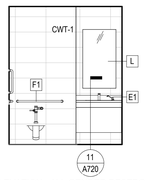
1/4" = 1'-0"



19 A721 A721 SOUTH ELEVATION - ALL GENDER RESTROOM
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

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9. ALL INTERIOR PARTITIONS ARE TYPE **N3A** U.N.O. SEE T002 FOR PARTITION TYPES.
11. SEE SHEET A002 FOR PARTITION TYPES.
12. DIMENSIONS ARE TO FINISHED FACE OF PARTITION TYPE AS DEFINED ON SHEET A002. FINISH TYPES (TILE, WOOD PANELING, WAINSCOT, WALL COVERINGS, ETC.) ARE NOT INCLUDED.
13. SEE ELEVATION SHEETS A300 FOR EXTERIOR FRAME TYPE TAGS. SEE A800 SERIES FOR FRAME TYPES.
14. SEE PLANS & INTERIOR ELEVATION A700 SHEETS FOR INTERIOR FRAME TYPE TAGS. SEE A800 SHEETS FOR FRAME TYPES.

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NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATHANS 043173 STATE OF NEW YORK

Checked By JT
Drawn By JS

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

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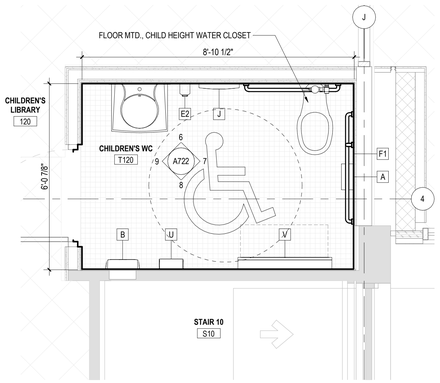
ENLARGED TOILET PLANS & ELEVATIONS

A721

CONSTRUCTION DOCUMENTS
01.14.2022



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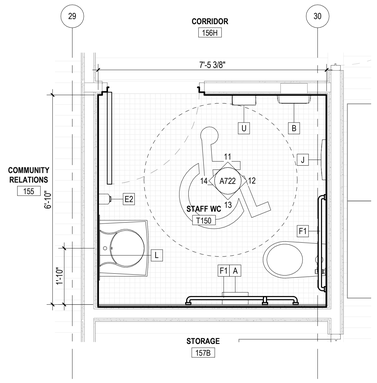
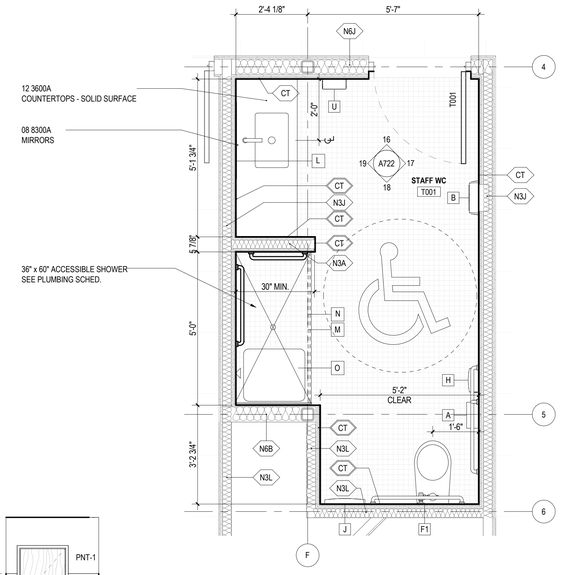
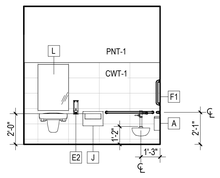
1/2" = 1'-0"



2 A111 A722 ENLARGED PLAN - STAFF RESTROOM
1/2" = 1'-0"





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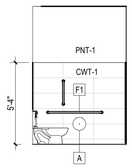
1/4" = 1'-0"



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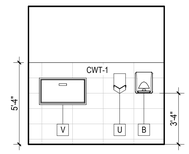
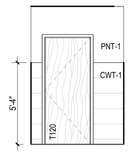
1/4" = 1'-0"

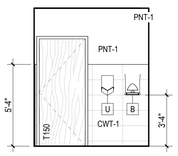


8 A722 A722 EAST ELEVATION - CHILDREN'S RESTROOM
1/4" = 1'-0"



9 A722 A722 SOUTH ELEVATION - CHILDREN'S RESTROOM
1/4" = 1'-0"

10 A101 A722 ENLARGED PLAN - STAFF WC
1/2" = 1'-0"



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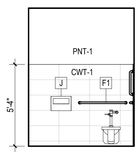
1/4" = 1'-0"



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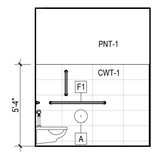

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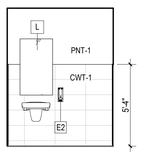

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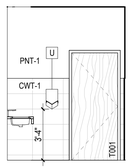
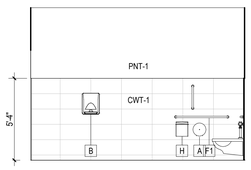


16 A722 A722 WEST ELEVATION - LOWER LEVEL STAFF WC
1/4" = 1'-0"



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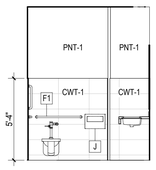
1/4" = 1'-0"



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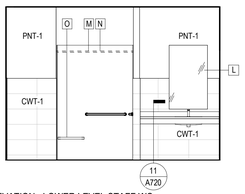
1/4" = 1'-0"



19 A722 A722 SOUTH ELEVATION - LOWER LEVEL STAFF WC
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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By JT
Drawn By JS

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ENLARGED TOILET PLANS & ELEVATIONS

A722

CONSTRUCTION DOCUMENTS
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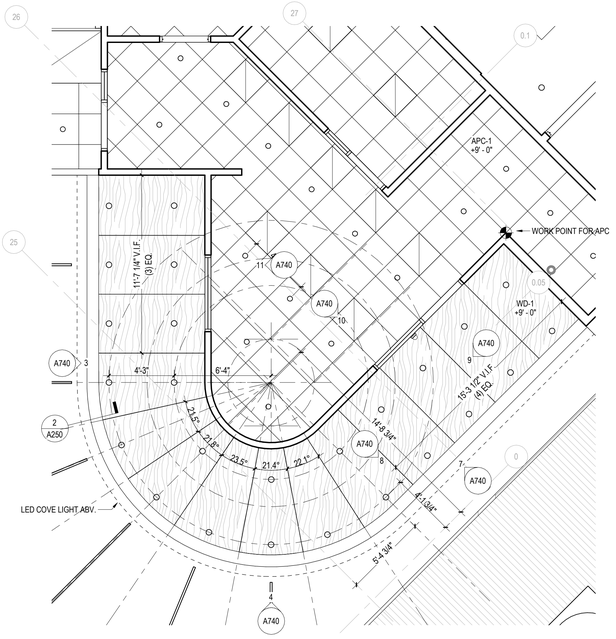

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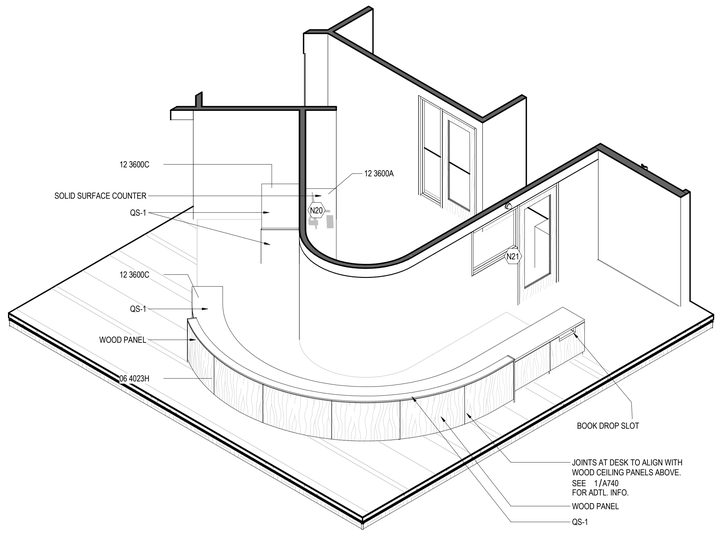

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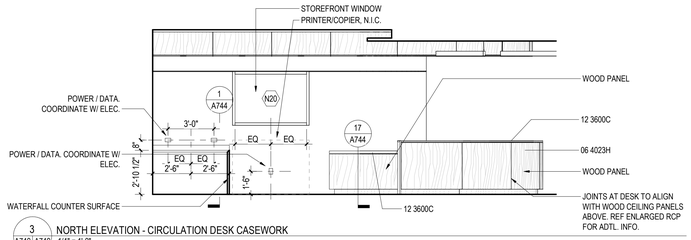

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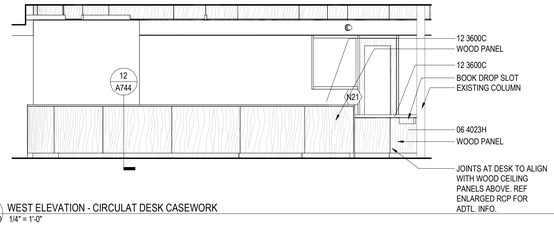

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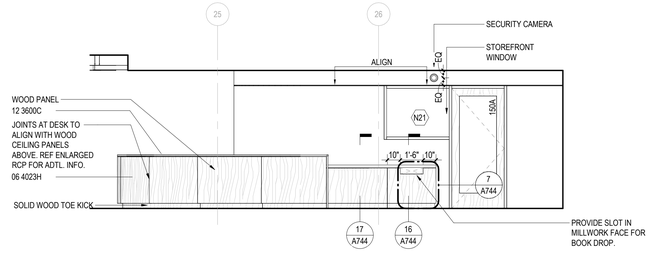
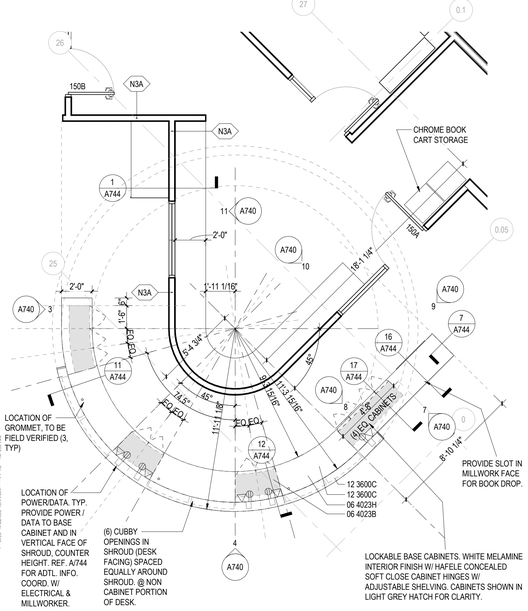


7 A712 A740 WEST ELEVATION - CIRCULATION DESK CASEWORK
1/4" = 1'-0"



5 A740 CIRCULATION DESK - ENLARGED PLAN
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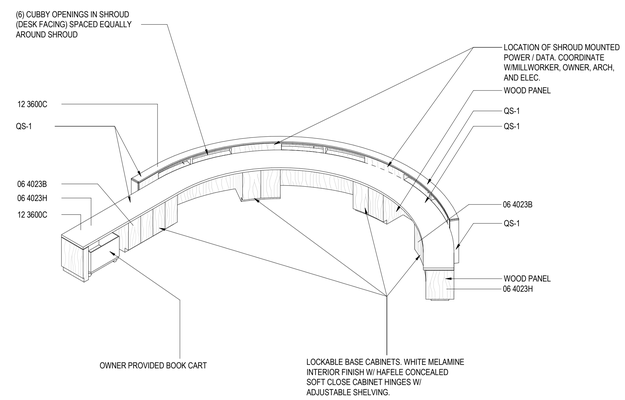
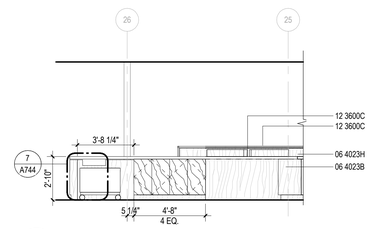


6 A740 CIRCULATION DESK - BACK AXON



8 A740 A740 Elevation 1 - a
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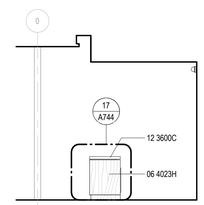

9 A740 A740 SOUTH ELEVATION - CIRCULATION DESK CASEWORK
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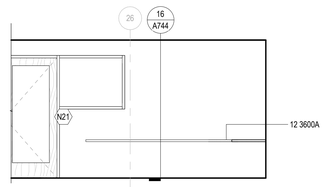

10 A740 A740 NORTH ELEVATION - CIRCULATION SERVICES
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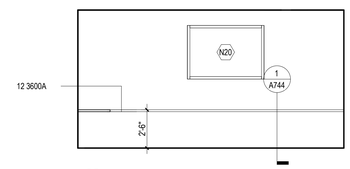

11 A740 A740 SOUTH ELEVATION - CIRCULATION SERVICES
1/4" = 1'-0"

KEYNOTES

06 4023B	INTERIOR ARCHITECTURAL WOODWORK - WOOD CABINETS
06 4023H	INTERIOR ARCHITECTURAL WOODWORK - CUSTOM WOOD CABINETRY
12 3600A	COUNTERTOPS - SOLID SURFACE
12 3600C	COUNTERTOPS - QUARTZ AGGLOMERATE

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NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By	JT
Drawn By	CS

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

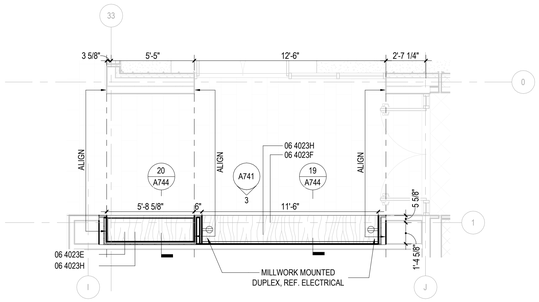
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

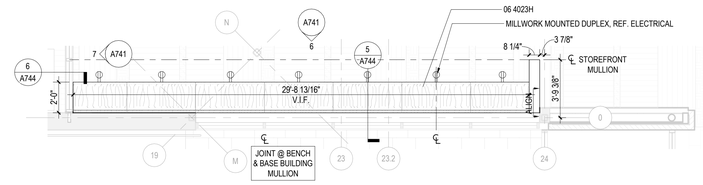
MILLWORK ENLARGED PLANS & INTERIOR ELEVATIONS

A740

CONSTRUCTION DOCUMENTS
01.14.2022



1 A741 ENLARGED PLAN - MILLWORK BENCH AT MAIN STREET
1/4" = 1'-0"



5 A741 ENLARGED PLAN - MAIN LEVEL BENCH
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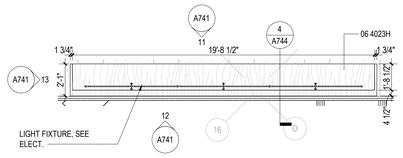

10 A741 ENLARGED PLAN - MEZZANINE PERCH
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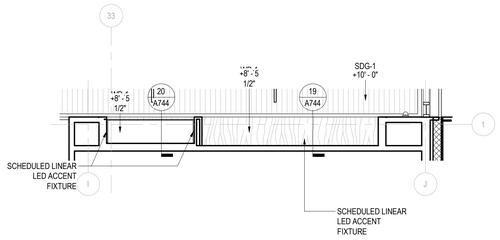

2 A741 ENLARGED RCP - MILLWORK BENCH AT MAIN STREET
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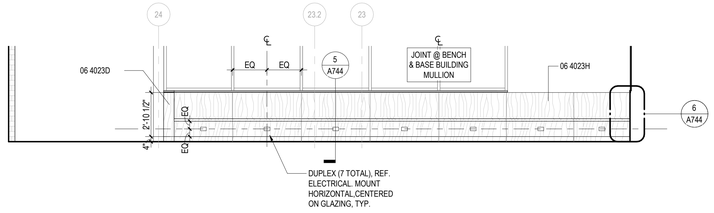
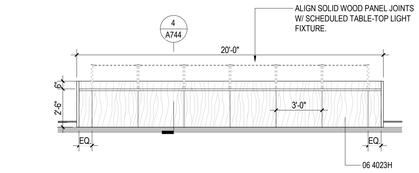


6 A741 A741' EAST ELEVATION - MAIN LEVEL BENCH
1/4" = 1'-0"



11 A605 A741' EAST ELEVATION - MEZZANINE PERCH
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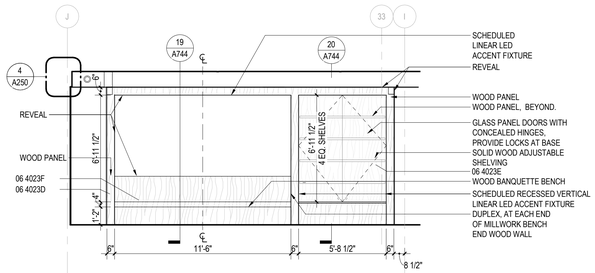
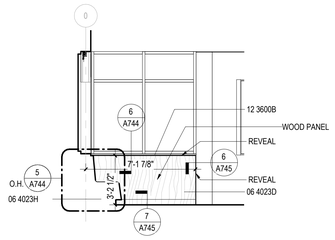


3 A711 A741' EAST ELEVATION - MILLWORK BENCH AT MAINSTREET
1/4" = 1'-0"



7 A741 A741' SOUTH ELEVATION - MAIN LEVEL BENCH
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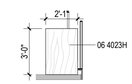

13 A741 A741' N/S ELEVATION - MEZZAINE PERCH
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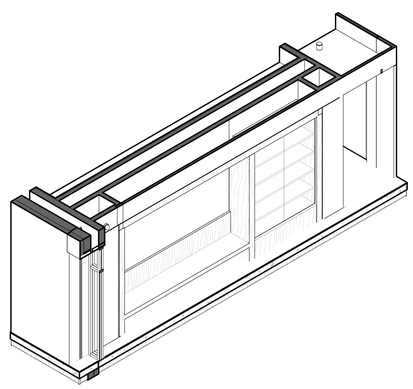
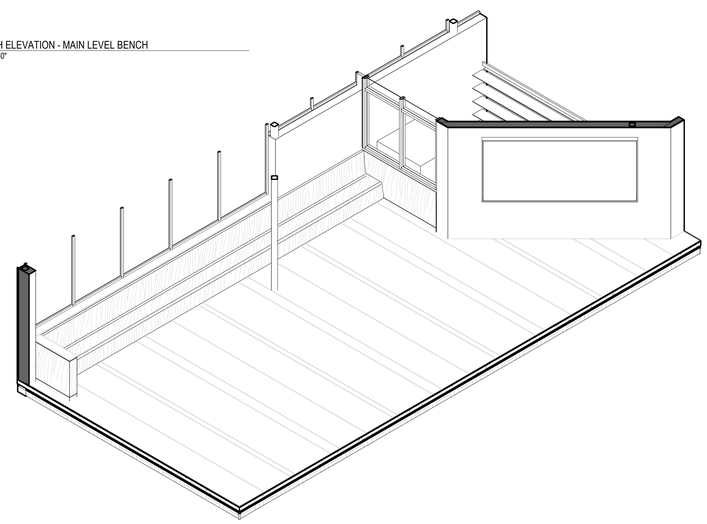
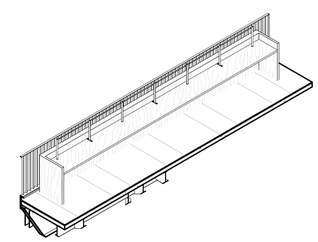


4 A741 MILLWORK BENCH AT MAINSTREET - AXON



9 A741 MAIN LEVEL BENCH - AXON



14 A741 PERCH - AXON

KEYNOTES

06 4023D	INTERIOR ARCHITECTURAL WOODWORK - FLUSH WOOD PANELING
06 4023E	INTERIOR ARCHITECTURAL WOODWORK - WOOD SHELVING
06 4023F	INTERIOR ARCHITECTURAL WOODWORK - WOOD SEATING
06 4023H	INTERIOR ARCHITECTURAL WOODWORK - CUSTOM WOOD CABINETRY
12 3600B	COUNTERTOPS - SOLID SURFACE WINDOW STOOLS

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REGISTERED ARCHITECT JOSEPH J. ATHANS 043173 STATE OF NEW YORK

Checked By JT
Drawn By CS

GRAPHIC SCALE - 12" = 1'-0"
0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

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MILLWORK ENLARGED PLANS & INTERIOR ELEVATIONS

A741

CONSTRUCTION DOCUMENTS
01.14.2022

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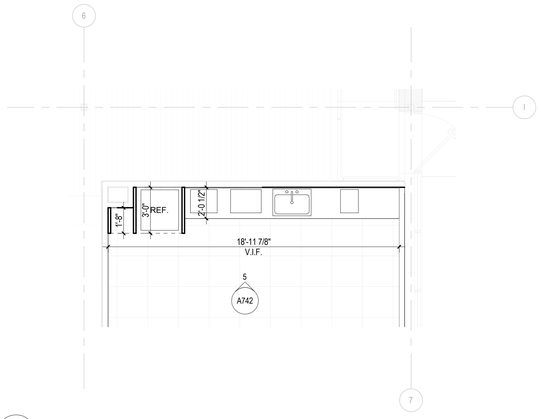

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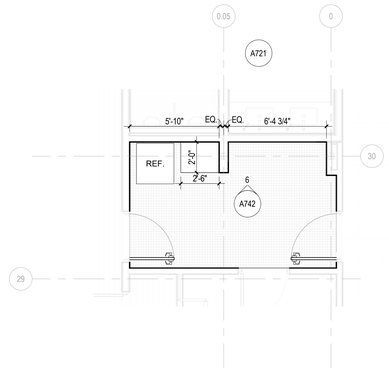

2 A111 A742 ENLARGED FLOOR PLAN - KITCHEN 141
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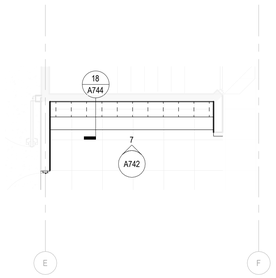

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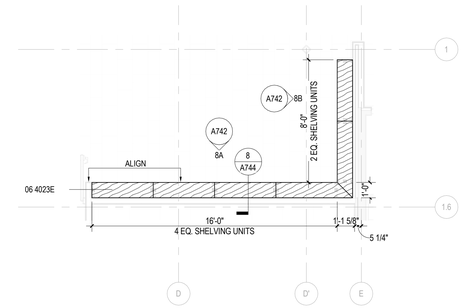

4 A742 FIRST FLOOR & MEZZANINE PLAN - Callout 1
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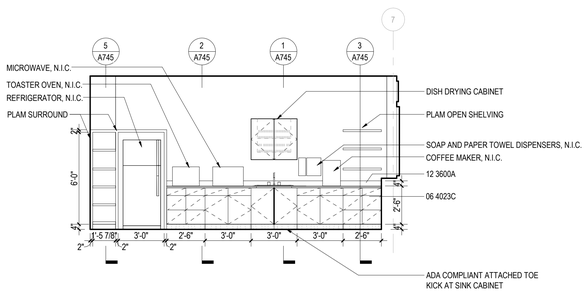

5 A742 A742 STAFF BREAK ROOM - KITCHENETTE ELEVATION
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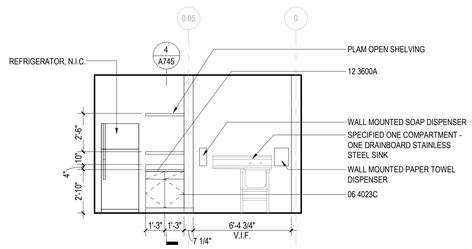

6 A711 A742 NORTH ELEVATION - KITCHEN 141
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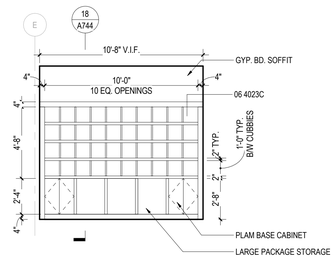

7 A742 A742 WEST ELEVATION - STAFF MAILBOXES
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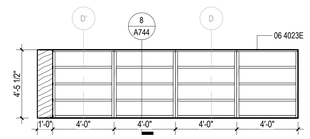

8A A712 A742 EAST ELEVATION - MAIN STREET SHELVING
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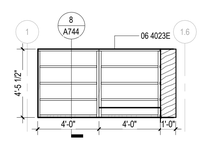

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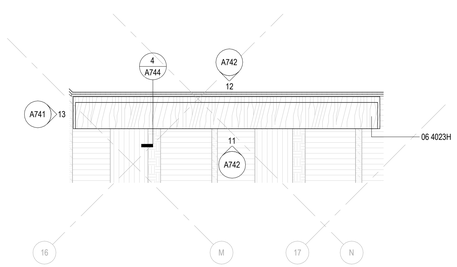

9 A111 A742 ENLARGED PLAN - MAIN LEVEL COMPUTER TABLE
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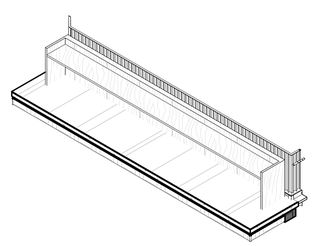
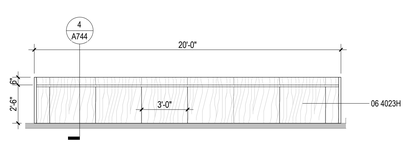


10 A742 MAIN LEVEL COMPUTER TABLE AXON



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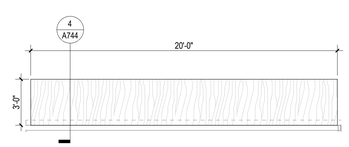

12 A605 A742 MAIN LEVEL COMPUTER TABLE - BACK ELEVATION
1/4" = 1'-0"

KEYNOTES

06 4023C	INTERIOR ARCHITECTURAL WOODWORK - PLAM ARCH. CABINETS
06 4023E	INTERIOR ARCHITECTURAL WOODWORK - WOOD SHELVING
06 4023H	INTERIOR ARCHITECTURAL WOODWORK - CUSTOM WOOD CABINETRY
12 3600A	COUNTERTOPS - SOLID SURFACE

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MILLWORK ENLARGED PLANS & INTERIOR ELEVATIONS

A742

CONSTRUCTION DOCUMENTS
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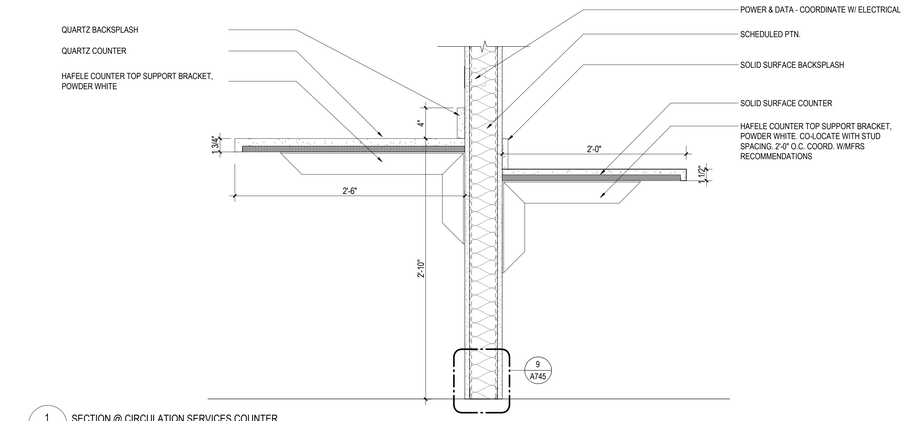

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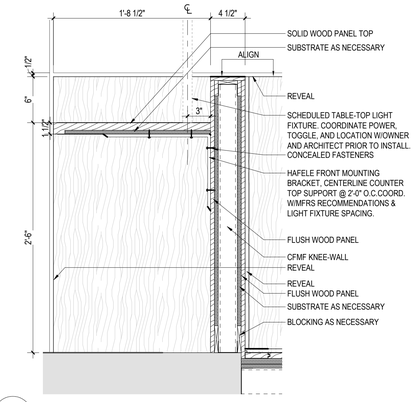

3 A602 A744 SECTION DETAIL AT FORUM COUNTER
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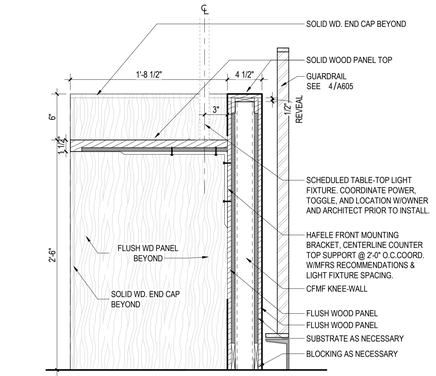

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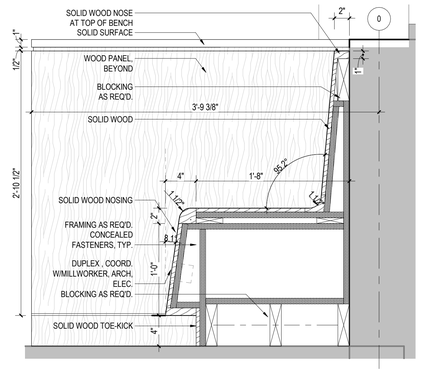

5 A741 A744 SECTION AT MAIN LEVEL BENCH
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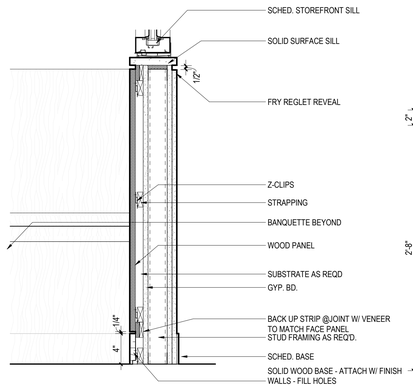

6 A710 A744 SECTION AT STOREFRONT SILL AND WOOD PANEL
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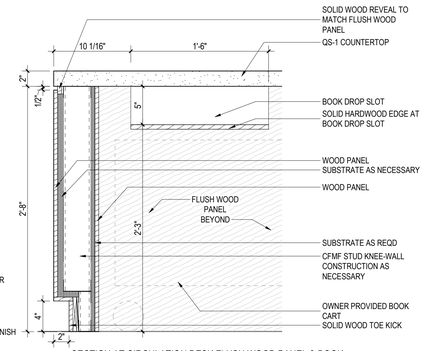

7 A740 A744 SECTION AT CIRCULATION DESK FLUSH WOOD PANEL & BOOK DROP
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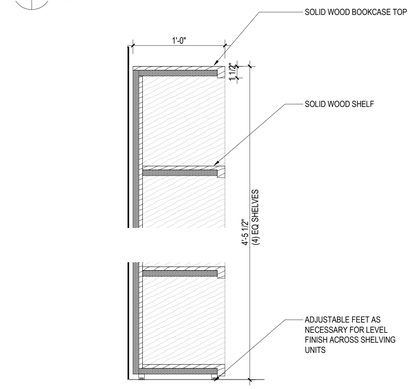

8 A742 A744 TYP. DETAIL @ MAIN STREET SHELVING
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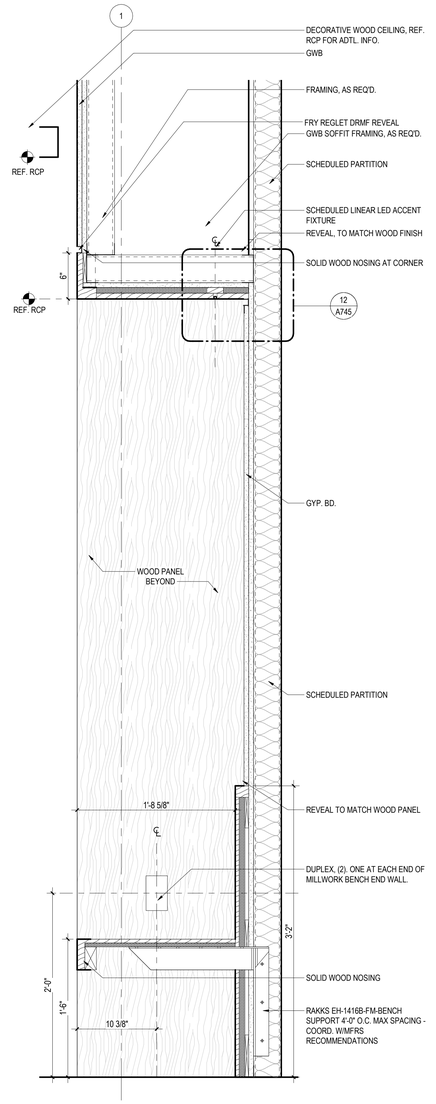

19 A711 A744 SECTION AT MILLWORK BENCH MAINSTREET
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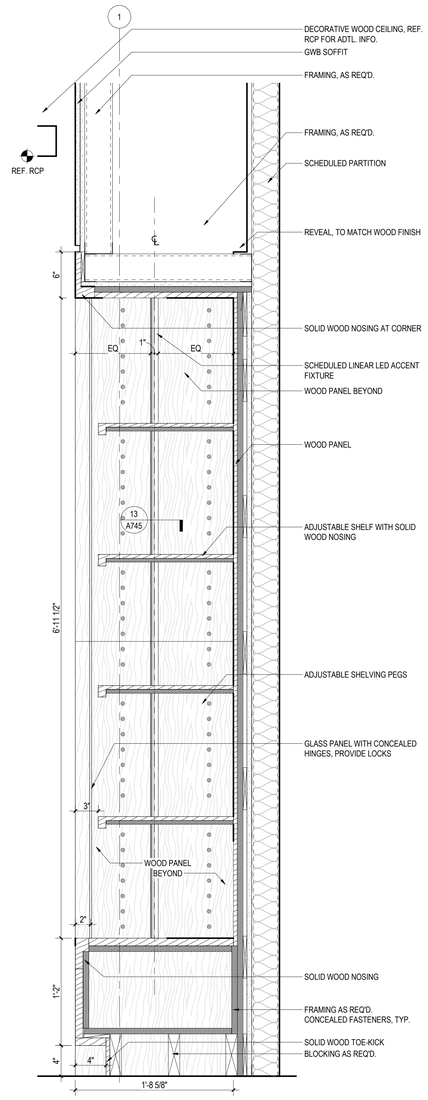

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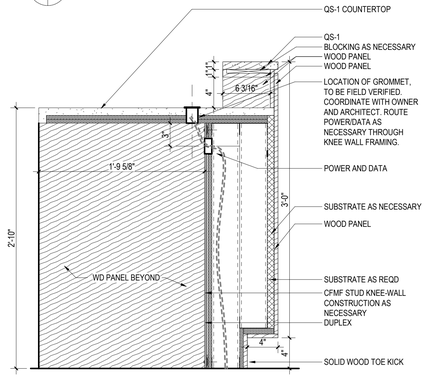
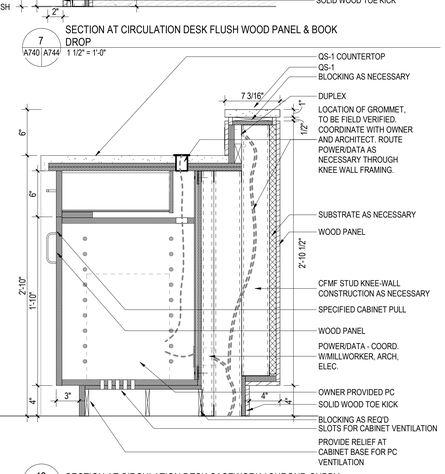
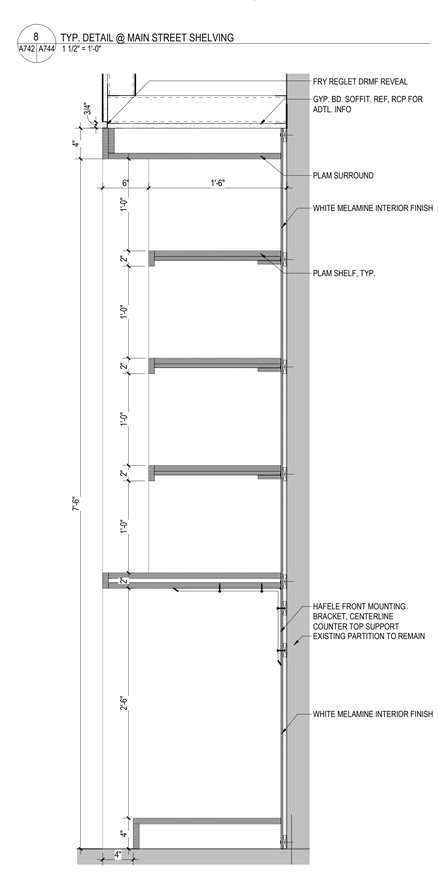
1 1/2" = 1'-0"



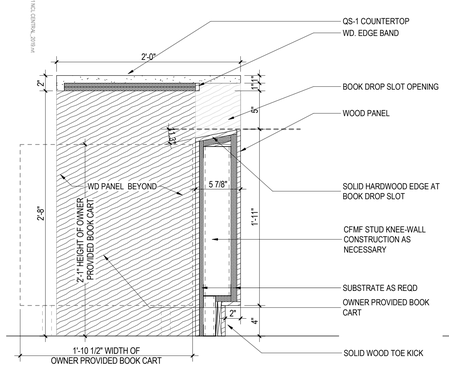
11 A740 A744 SECTION AT CIRCULATION DESK CASEWORK / SHROUD
1 1/2" = 1'-0"



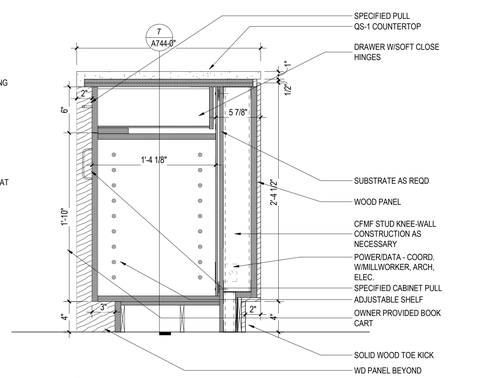
12 A740 A744 SECTION AT CIRCULATION DESK CASEWORK / SHROUD CUBBY
1 1/2" = 1'-0"



18 A742 A744 SECTION AT STAFF MAILBOXES ACCESSIBLE OPENING
1 1/2" = 1'-0"



16 A740 A744 SECTION AT CIRCULATION DESK CASEWORK / BASE CABINET
1 1/2" = 1'-0"



17 A740 A744 SECTION AT CIRCULATION DESK BASE CABINET AND COUNTER
1 1/2" = 1'-0"

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New City Library

NEW CITY LIBRARY

NEW CITY LIBRARY ADDITION & RENOVATION

220 NORTH MAIN STREET
NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT JOSEPH J. ATKINS 043173 STATE OF NEW YORK

Checked By JT
Drawn By CS

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

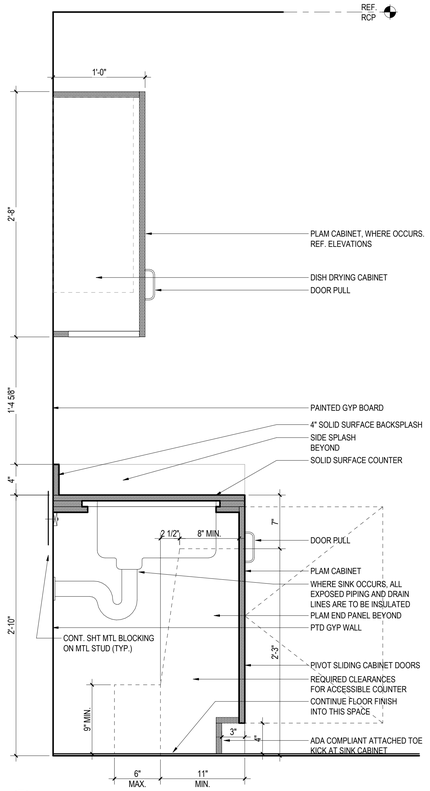
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

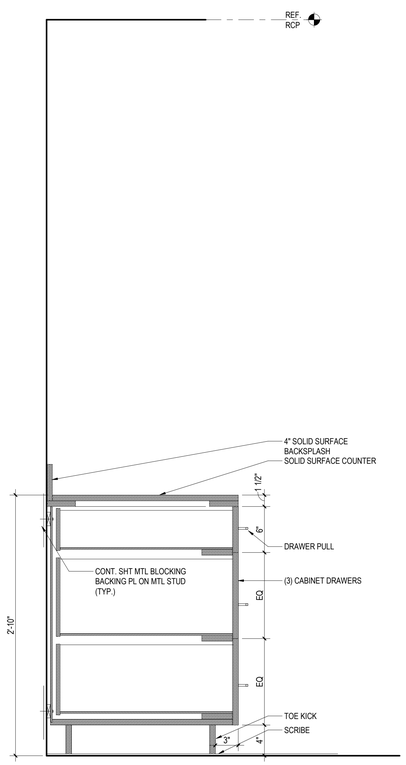
MILLWORK DETAILS

A744

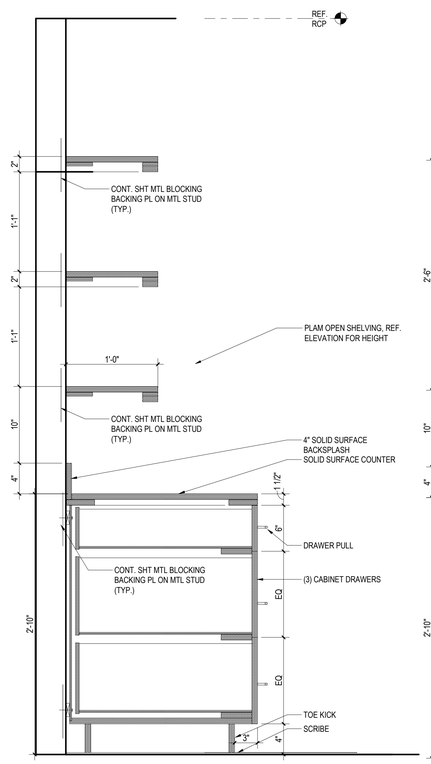
CONSTRUCTION DOCUMENTS
01.14.2022



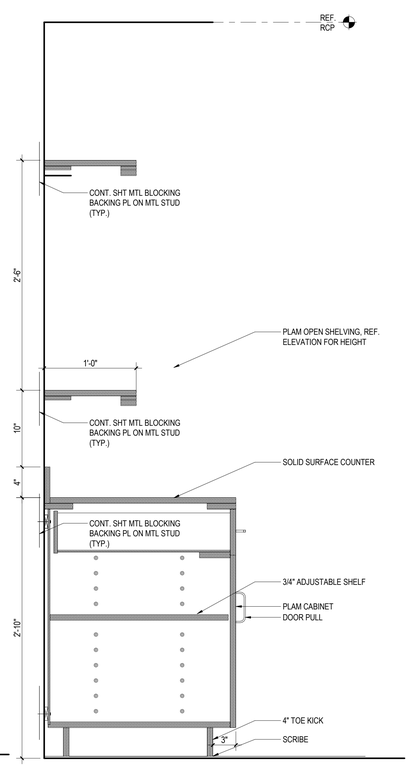
1 A710 A745 TYP. ACCESSIBLE SINK @ STAFF BREAK ROOM
1 1/2" = 1'-0"



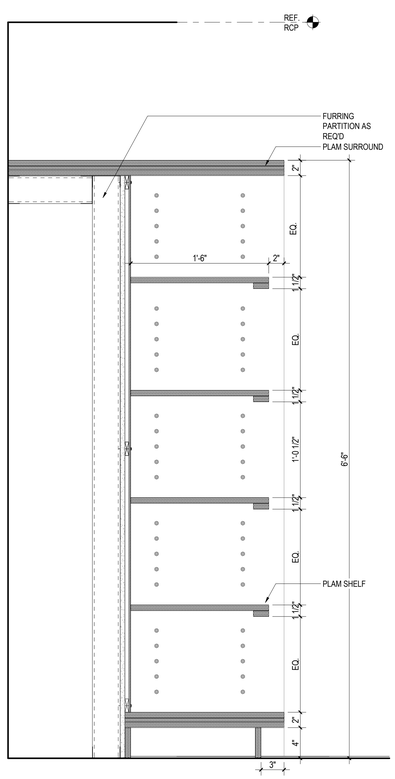
2 A710 A745 TYP. PLAM BASE CABINET WITH DRAWERS
1 1/2" = 1'-0"



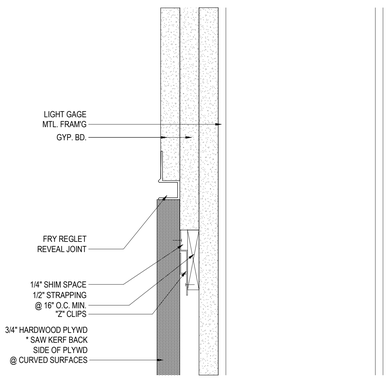
3 A742 A745 TYP. PLAM DRAWERS W/ OPEN SHELVING
1 1/2" = 1'-0"



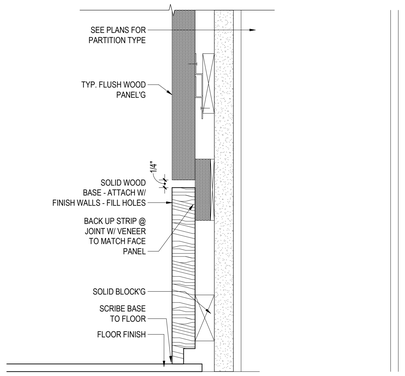
4 A742 A745 TYP. PLAM BASE CABINET W/ OPEN SHELVING
1 1/2" = 1'-0"



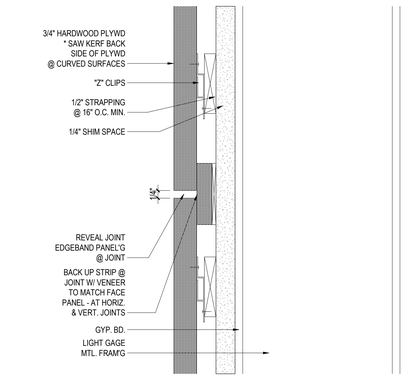
5 A742 A745 TYP. PLAM OPEN SHELVING & SURROUND
1 1/2" = 1'-0"



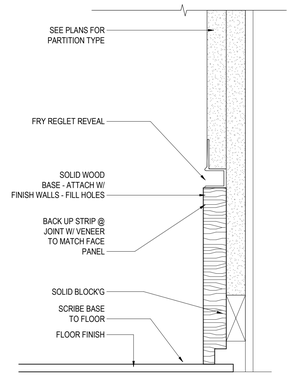
6 A602 A745 TYP. FLUSH WOOD PANELING DETAIL - SECTION @ REVEAL JOINT & GWB
6" = 1'-0"



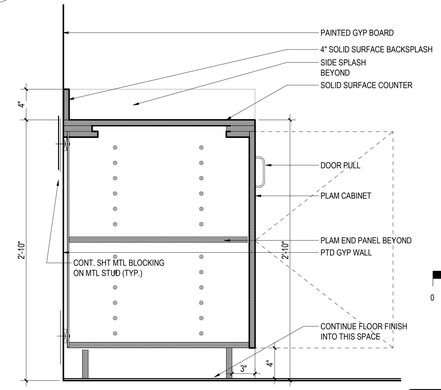
7 A741 A745 TYP. FLUSH WOOD PANELING DETAIL - SECTION @ WD BASE
N.T.S.



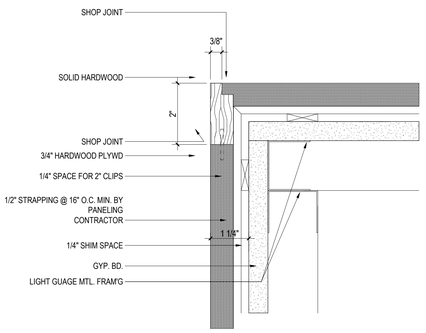
8 A745 A745 TYP. FLUSH WOOD PANELING DETAIL - SECTION @ REVEAL JOINT
6" = 1'-0"



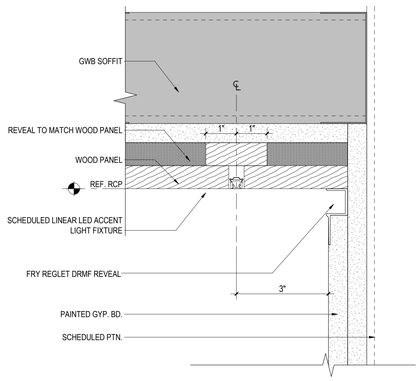
9 A744 A745 TYP. GYP. BD REVEAL @ FLUSH WOOD BASE
6" = 1'-0"



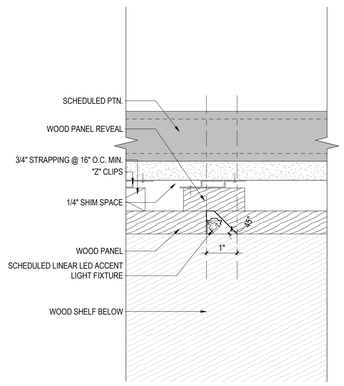
10 A710 A745 TYP. BASE CABINET W/ADJUSTABLE SHELVING
1 1/2" = 1'-0"



11 A745 A745 TYP. FLUSH WOOD PANELING DETAIL - PLAN VIEW @ CORNER
6" = 1'-0"



12 A744 A745 TYP. DTL @ MILLWORK LINEAR LED ACCENT FIXTURE
6" = 1'-0"



13 A744 A745 TYP. DTL @ DISPLAY CASE LED ACCENT FIXTURE
6" = 1'-0"

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New City Library

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NEW CITY LIBRARY ADDITION & RENOVATION

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NEW CITY, NY 10956

VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATKINS
043173
STATE OF NEW YORK

Checked By	JT
Drawn By	CS

GRAPHIC SCALE - 12" = 1'-0"

0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

MILLWORK DETAILS

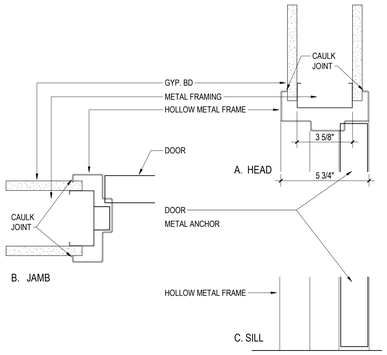
A745

CONSTRUCTION DOCUMENTS

01.14.2022

BIM 360/New City Library/01 NCL CENTRAL_R23.rvt

1/10/2023 10:12:03 PM



1 A800 TYP. H.M. HEAD/JAMB/SILL @ GYP. PARTITIONS
3" = 1'-0"

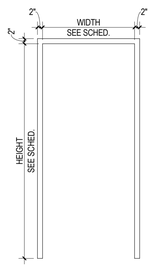
DOOR SCHEDULE

DR. NO.	OPENING: OPEN'G WIDTH - HIDE	OPENING: QNTY.	OPENING: WIDTH	OPENING: HEIGHT	DOOR: ELEV.	DOOR: MATERIAL	DOOR: FINISH	FRAME: ELEV.	FRAME: MATERIAL	FRAME: FINISH	ASSEMBLY: FIRE RTG.	ASSEMBLY: HW. HEADING	ASSEMBLY: STC RATING	REMARKS/NOTES
002A	3' - 0"		3' - 0"	7' - 0"	FP	HM	PNTD.	I	HM	PNTD.		10.0		
011	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		11.0		
012	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
013	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
016	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
017	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		11.0		
100B	5' - 2 1/4"	(2)	2' - 7 1/8"	7' - 0"	SEE ELEV.	SEE SPEC.	SEE SPEC.	SEE ELEV.	SEE SPEC.	SEE SPEC.		24.0		AUTOMATIC SLIDING DOOR
100C	6' - 9 5/8"	(2)	3' - 4 13/16"	7' - 0"	SEE ELEV.	SEE SPEC.	SEE SPEC.	SEE ELEV.	SEE SPEC.	SEE SPEC.		24.0		AUTOMATIC SLIDING DOOR
110	3' - 0"		3' - 0"	8' - 1"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		4.0		
120	6' - 0"	(2)	3' - 0"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		1.0		
121	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		18.0		
122	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		18.0		
130A	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		5.0		ACOUSTIC GASKETING
130A	2' - 6"		2' - 6"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
130B	6' - 0"	(2)	3' - 0"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		2.0		ACOUSTIC GASKETING
131	6' - 0"	(2)	3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		9.0		
140	6' - 0"	(2)	3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		7.0	30	ACOUSTIC GASKETING, PACK FRAME WITH INSULATION
140A	6' - 0"	(2)	3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		8.0		ACOUSTIC GASKETING
140B	6' - 0"	(2)	3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		9.0		
140C	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
141A	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		11.0		
141B	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		12.0		ACOUSTIC GASKETING
141C	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
150A	3' - 5"		3' - 5"	7' - 10"	FL	WD	CLR.	I	HM	PNTD.		11.0		
150B	3' - 0"		3' - 0"	7' - 10"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		11.0		
150H	3' - 0"		3' - 0"	7' - 10"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		11.0		
151	3' - 0"		3' - 0"	7' - 10"	FL	WD	CLR.	I	HM	PNTD.		18.0		
152	3' - 0"		3' - 0"	7' - 10"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		18.0		
153A	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		14.0		ACOUSTIC GASKETING
153B	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		14.0		ACOUSTIC GASKETING
154	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.	90 MIN.	13.0		
154A	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.	90 MIN.	15.0		
155A	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		19.0		ACOUSTIC GASKETING
155B	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		14.0	30	ACOUSTIC GASKETING, PACK FRAME WITH INSULATION
156	2' - 9"		2' - 9"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		14.0		ACOUSTIC GASKETING
156A	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		19.0		ACOUSTIC GASKETING
156B	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		19.0		ACOUSTIC GASKETING
156H	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		15.0		
157	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		12.0		ACOUSTIC GASKETING
157B	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
161A	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		11.0		
161B	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		11.0		
162	3' - 0"		3' - 0"	8' - 10"	AG	GL	SEE SPEC.	SEE ELEV.	ALL GLASS	ALL GLASS		21.0		
163	3' - 0"		3' - 0"	8' - 10"	AG	GL	SEE SPEC.	SEE ELEV.	ALL GLASS	ALL GLASS		21.0		
164	3' - 0"		3' - 0"	8' - 10"	AG	GL	SEE SPEC.	SEE ELEV.	ALL GLASS	ALL GLASS		21.0		
165	3' - 0"		3' - 0"	8' - 10"	AG	GL	SEE SPEC.	SEE ELEV.	ALL GLASS	ALL GLASS		21.0		
166	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		11.0		
166A1	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		18.0		
166A2	3' - 0"		3' - 0"	7' - 0"	FL	WD	CLR.	I	HM	PNTD.		18.0		
201	2' - 11"		2' - 11"	7' - 1"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		18.0		
201A	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		13.0		
202	3' - 0"		3' - 0"	7' - 1"	FL	WD	CLR.	SEE ELEV.	AL	CLR. ANOD.		4.0		
E101H	6' - 0"	(2)	3' - 0"	7' - 0"	FL	AL	SEE SPEC.	SEE ELEV.	AL	CLR. ANOD.		1.0		
E130	3' - 0"		3' - 0"	7' - 0"	FP	HM	PNTD.	I	HM	PNTD.		6.0		
E140	3' - 0"		3' - 0"	7' - 0"	FP	HM	PNTD.	I	HM	PNTD.		6.0		
E166	3' - 0"		3' - 0"	8' - 0"	FL	AL	SEE SPEC.	SEE ELEV.	AL	CLR. ANOD.		3.0		
GATE01	6' - 0"	(2)	3' - 0"	4' - 6"	FP							23.0		CUSTOM STEEL GATES. SEE A611 FOR DETAILS.
GATE02	3' - 0"		3' - 0"	4' - 6"	FP							22.0		CUSTOM STEEL GATE. SEE A611 FOR DETAILS.
T001	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		16.0		
T101	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		16.0		
T102	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		20.0		
T103	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		20.0		
T120	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		17.0		ACOUSTIC GASKETING
T150	3' - 0"		3' - 0"	7' - 0"	FP	WD	CLR.	I	HM	PNTD.		17.0		ACOUSTIC GASKETING

DOOR SCHEDULE GENERAL NOTES

1. ALL DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
2. ALL INTERIOR DOORS SHALL BE UNDERCUT 3/4" A.F.F. UNLESS NOTED OTHERWISE.
3. ALL HOLLOW METAL DOOR FRAMES IN MASONRY SHALL BE GROUTED SOLID.
4. REFER TO THE FLOOR PLANS FOR EXACT LOCATIONS OF DOORS AND DIRECTION OF DOOR SWINGS.
5. SEE EXTERIOR ELEVATIONS FOR EXTERIOR FRAME TYPES.
6. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION.
7. DIMENSIONS SHOWN ARE NOMINAL AND/OR ROUGH OPENINGS, CONTRACTOR TO ACCOUNT FOR JOINTS, SHIMS, SEALANT, ETC.
8. ALL INTERIOR DOORS TO BE GLAZED WITH TEMPERED GLASS U.N.O.
9. ALL EXTERIOR DOORS TO BE GLAZED WITH INSULATED TEMPERED GLASS U.N.O.

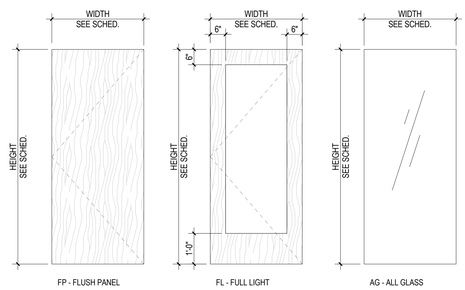
INTERIOR HM FRAME TYPE ELEVATION



I - STANDARD

TYPES - INTERIOR FRAME ELEVATIONS
1/2" = 1'-0"

DOOR TYPE ELEVATIONS



FP - FLUSH PANEL
FL - FULL LIGHT
AG - ALL GLASS

TYPES - DOOR ELEVATIONS
1/2" = 1'-0"

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ADDITION & RENOVATION

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REGISTERED ARCHITECT
JOSEPH J. ATWKS
043173
STATE OF NEW YORK

Checked By JT
Drawn By JS

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
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DOOR SCHEDULE &
HARDWARE SCHEDULE

A800

CONSTRUCTION DOCUMENTS
01.14.2022

188 Mid-New City Library\188 NCL CENTRAL_2019.rvt
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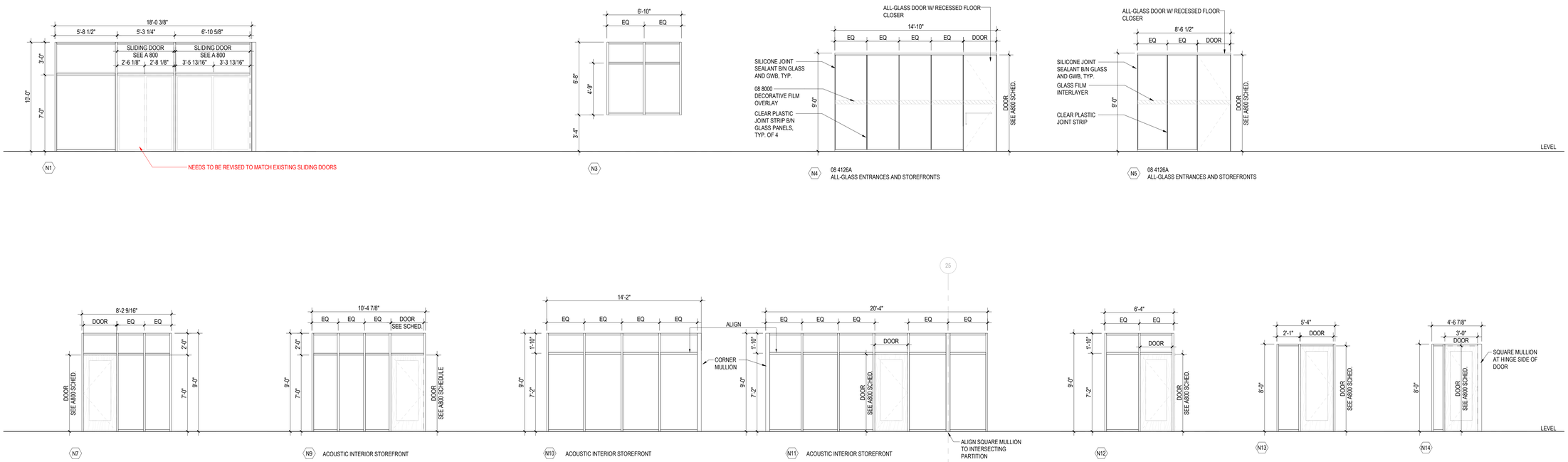

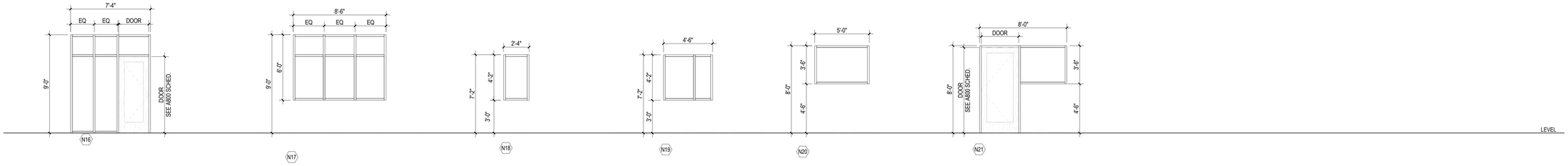

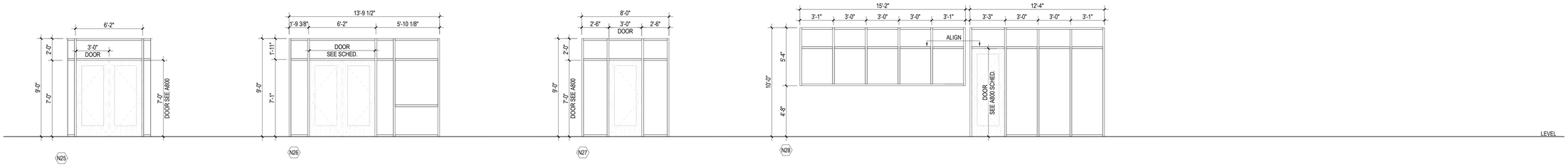

FRAMETYPE GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION.
2. ALL EXTERIOR GLASS IS TYPE GL-05 U.O.N. & ALL INTERIOR GLASS IS TYPE GL-01T U.O.N. SEE SPECIFICATIONS FOR GLASS TYPE DESCRIPTIONS.
3. DIMS SHOWN ARE NOMINAL AND/OR ROUGH OPENINGS. CONTRACTOR TO ACCOUNT FOR JOINTS, SHIMS, SEALANT, ETC.
4. CONTRACTOR RESPONSIBLE TO COORDINATE ALL ALUMINUM FRAMES WITH ALL RELEVANT DETAILS DEPICTED THROUGHOUT DRAWINGS.
5. COORDINATE ALL ALUMINUM FRAMES WITH SPECIFICATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO PROVIDING ENGINEERING TO VERIFY WIND LOADING CRITERIA IS MET IN ALL CASES. SEE STRUCTURAL DRAWINGS.
6. ALUMINUM FRAME DRAWINGS REPRESENT DESIGN INTENT. SHOP DRAWINGS ARE REQUIRED PRIOR TO FABRICATION.
7. SOME FRAME TYPES MAY BE REPEATED AS SIMILAR OR OPPOSITE HAND. SEE ELEVATIONS FOR QUANTITIES, LOCATIONS, AND INSTALLATION.
8. COORDINATE ALL HARDWARE WITH DOOR SCHEDULE AND SPECIFICATIONS.
9. SEE DOOR SCHEDULE FOR TYPICAL DOOR TYPES, WHICH INCLUDE ALUMINUM DOORS INSTALLED IN ALUMINUM FRAMES.
10. FOR EXTERIOR FRAMES, PROVIDE STRAP ATTACHMENTS AND COORDINATE WITH DETAILS FOR AVAILABLE ATTACHMENT LOCATIONS.
11. SEE RCPS FOR ROLLER SHADE SCOPE.

SAFETY GLAZING NOTES

REFER TO THE BUILDING CODE OF NEW YORK STATE (BCNYS 2020, CHAPTER 24) FOR DEFINITION OF "HAZARDOUS LOCATIONS" AND LIST OF LOCATIONS WHERE SAFETY GLAZING IS REQUIRED.

FOR WINDOWS AND DOORS SCHEDULED ON THIS PROJECT, SAFETY GLAZING IS REQUIRED IN HAZARDOUS LOCATIONS THAT MEET ALL OF THE FOLLOWING CRITERIA:

1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQ. FT.
2. THE EXPOSED BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR.
3. THE TOP EDGE IS GREATER THAN 36" ABOVE WALKING SURFACE, AND
4. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36" HORIZONTALLY OF THE PANE OF GLAZING. (EXCEPTION: THE OUTBOARD PANE OF INSULATED GLASS UNITS WHERE THE BOTTOM EDGE OF GLASS IS 25' OR MORE ABOVE GRADE, ROOF OR WALKING SURFACE OR OTHER HORIZONTAL OR SLOPED SURFACE.)

GLAZING TYPES

GL-01	CLEAR
GL-01T	CLEAR, FULLY TEMPERED
GL-03T	CLEAR, FULLY TEMPERED FOR ALL-GLASS SYSTEM
GL-05	ULTRACLEAR ANNEALED INSULATING GLASS UNITS
GL-05T	ULTRACLEAR ANNEALED INSULATING GLASS UNITS, FULLY TEMPERED

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220 NORTH MAIN STREET
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VMDO Project Number 1301

REGISTERED ARCHITECT
JOSEPH J. ATHANS
043173
STATE OF NEW YORK

Checked By Checker
Drawn By JT

GRAPHIC SCALE - 1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0"

ISSUES AND REVISIONS

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INTERIOR FRAME TYPES

A821

CONSTRUCTION DOCUMENTS
01.14.2022

B.O.D. MATERIAL SCHEDULE

KEY	KEYNOTE	MANUFACTURER	PRODUCT	FINISH	SIZE	COMMENTS	HYPERLINK
1/2" TREATED PLYWOOD							
WC-2		-					
CEILING							
APC-1	09 5113A	Armstrong	Optima Lay-In		24" x 24"		https://www.armstrongceilings.com/commercial/en/commercial-ceilings-walls/optima-lay-in-and-tegular-ceiling-tiles.html
APC-2	09 5113B	Armstrong	Optima Lay-In		24" x 48"		https://www.armstrongceilings.com/commercial/en/commercial-ceilings-walls/optima-lay-in-and-tegular-ceiling-tiles.html
SDG-1	09 5426A	Rulon	Panel Grille	Match WD-1 Floor			https://rulonco.com/products/panel-grille/
FABRIC WRAPPED PANELS							
AWP-1	09 8430A	Armstrong	Soundsoak	TBD	SEE ELEV.		https://www.armstrongceilings.com/commercial/en/commercial-ceilings-walls/acoustic-wall-panels/soundsoak-wall-panels.html#bbh=%7B%22selectedItem%22%3A%7B%22name%22%3A%22browse%22%2C%22itemIndex%22%3Anull%7D%7D
FLOORING							
CFT-1	09 3000B	Daltile	Linden Point	Grigio	2" x 2"	Straight Joint	https://www.daltile.com/product/Linden-Point?color=Grigio&shape=Straight%20Joint
SC-1	03 3000A					Sealed Concrete	
WD-1		Armstrong	Rigid Core	Oasis	9" x 60"	Engineered wood flooring	https://www.armstrongflooring.com/commercial/en-us/products/rigid-core/rest-refuge/item/ARR01.html
PAINT							
PNT-1		Sherwin Williams		Field Color - TBD			
PNT-2		Sherwin Williams		Accent Color - TBD			
SOLID SURFACE							
QS-1	06 4023B	Wilsonart	Quartz	Tellaro		Quartz agglomerate countertop	https://www.wilsonart.com/tellaro-q4025
SOLID SURFACE SILL	12 3600B	Corian		White (TBD)		Solid Surface for window stools	https://www.corian.com/?src=globalnav
SS-2	12 3600A	Wilsonart	Cloud Mist	Rain Streak		Solid Surface for toilet room countertops and sinks	https://www.wilsonart.com/solid-surface/new-arrivals/cloud-mist-9243ss
WALL COVERING							
WC-1	09 7200A	Knoll	Alias II Backed	Icy			https://www.knoll.com/knolltextileproductdetail/Alias+II+Backed
WALL TILE							
CWT-1	09 3000A	Daltile	Linden Point	Grigio	12" x 24"		https://www.daltile.com/product/Linden-Point?color=Grigio&shape=Straight%20Joint

FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR	BASE	WALL FINISH	CEILING FINISH	Comments
001	NONFICTION	CPT-1	RUB-1	PNT-1, PNT-3	APC-2	
001C	LOWER LEVEL STACKS	CPT-1	RUB-1	PNT-1, PNT-3	APC-2	
002	MECHANICAL	ETR	ETR	ETR	ETR	
002A	ELEC					
010	RECEIVING ROOM	CPT-1	RUB-1	PNT-1	APC-1	
010A	STOR.	CPT-1	RUB-1	PNT-1	APC-1	
010B	STORAGE	CPT-1	RUB-1	PNT-1	APC-1	
010H	STAFF MAIL	RES-1	RUB-1	PNT-1	APC-1	
011	STAFF BREAK ROOM	RES-1	RUB-1	PNT-1, PNT-3	APC-1	
011A	LITERACY SOLUTIONS	CPT-2	RUB-1	PNT-1	APC-1	
012	STORAGE	ETR	ETR	ETR	ETR	
012A	STORAGE					
012H	CORRIDOR	RES-1	RUB-1	PNT-1	APC-1	
013	ELEVATOR ROOM	ETR	ETR	ETR	ETR	
014	STORAGE	ETR	ETR	ETR	ETR	
015	STORAGE	ETR	ETR	ETR	ETR	
015H	EXIT CORRIDOR	ETR	ETR	ETR	ETR	
016	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	UNFINISHED	
017	STAFF	CPT-2	RUB-1	PNT-1	APC-1	
100	LOBBY	WD-1	RUB-1	PNT-1, PNT-3	SDG-1	
100A	VESTIBULE	CPT-5	RUB-1	PNT-1	GWB	
100B	CIRCULATION DESK	WD-1	RUB-1	PNT-3	GWB, WD	
101H	MAIN STREET	WD-1	RUB-1	PNT-1, PNT-3	SDG-1	
110	CAFE/EVENT	RES-1	RUB-1	PNT-1, PNT-3	APC-1	
110A	BOOK DROP	ETR	ETR	ETR	ETR	
120	CHILDREN'S LIBRARY	CPT-6	RUB-1	PNT-1, PNT-2	APC-1	
120A	STAIR ACCESS	CPT-6	RUB-1	PNT-1, PNT-2	APC-1	
121	CHILDREN'S LIBRARIANS	CPT-2	RUB-1	PNT-1	APC-1	
122	HEAD CHILDREN'S LIBRARIAN	CPT-2	RUB-1	PNT-1	APC-1	
123	STOR	CPT-6	RUB-1	PNT-1, PNT-2	APC-1	
130	CHILDRENS MEETING ROOM	CPT-6	RUB-1	PNT-1, PNT-2	APC-1	
130A	A.V					
130B	Room					
131	STOR	RES-1	RUB-1	PNT-1	APC-1	
140	MEETING ROOM	CPT-1	RUB-1	WC-1	APC-2	
140A	SOUND AND LIGHT LOCK	CPT-1	RUB-1	WC-1	APC-2	
140B	STORAGE	CPT-3	RUB-1	WC-1	APC-1	
140C	A.V.					
141	KIT.	CFT-1	CFT-1	PNT-1	APC-1	
141A	JC					
144	Room					
145	Room					
146	MAKER TERRACE					
150	CIRC. SERVICES	CPT-2	RUB-1	PNT-1	APC-1	
150H	CORRIDOR	CPT-1	RUB-1	PNT-1	APC-1	
151	HEAD OF CIRC. SERVICES	CPT-2	RUB-1	PNT-1	APC-1	
152	HEAD OF ADULT SERVICES	CPT-2	RUB-1	PNT-1	APC-1	
153	ADULT SERVICE LIBRARIAN	CPT-2	RUB-1	PNT-1	APC-1	
154	IT ROOM	CPT-2	RUB-1	PNT-1	APC-1	
154A	STAIR ACCESS	RES-1	RUB-1	PNT-1	APC-1	
155	COMMUNITY RELATIONS	CPT-2	RUB-1	PNT-1	APC-1	
156	ADMIN. ASSIST.	CPT-2	RUB-1	PNT-1	APC-1	
156A	DIRECTOR	CPT-2	RUB-1	PNT-1	APC-1	
156B	FINANCE AND FACILITIES	CPT-2	RUB-1	PNT-1	APC-1	
156H	CORRIDOR	CPT-1	RUB-1	PNT-1	APC-1	
157	TECHNICAL SERVICES	CPT-2	RUB-1	PNT-1	APC-1	
157B	STORAGE	CPT-2	RUB-1	PNT-1	APC-1	
160	MAIN LEVEL READING AREA	CPT-1	RUB-1	PNT-1, PNT-2	ETR, GWB, SDG-1	
161	LOCAL HISTORY	CPT-1	RUB-1	PNT-1, PNT-3	APC-2	
162	LOCAL HISTORY MEETING	CPT-3	RUB-1	WC-1	APC-1	
163	GROUP STUDY	CPT-3	RUB-1	WC-1	APC-1	
164	GROUP STUDY	CPT-3	RUB-1	WC-1	APC-1	
165	GROUP STUDY	CPT-3	RUB-1	WC-1	APC-1	
166	MAKER SPACE	RES-1	RUB-1	PNT-1, PNT-3	APC-1	
166A	MAKER SPACE OFFICE	CPT-3	RUB-1	WC-1	APC-1	
200	MEZZANINE STACKS	CPT-1	RUB-1	PNT-1, PNT-3	APC-2	
201	TEEN LIBRARIAN	CPT-2	RUB-1	PNT-1	APC-1	
201A	ELEC.	CPT-2	RUB-1	PNT-1	APC-1	
202	TEEN ROOM	CPT-4	RUB-1	PNT-1, PNT-2	APC-1	
203	GROUP STUDY	CPT-3	RUB-1	WC-1	APC-1	
J101	JAN.	SC	RUB-1	PNT-1	GWB, WD	
S3	STAIR 3	ETR	ETR	ETR	ETR	
S3	STAIR 3	ETR	ETR	ETR	ETR	
S7	STAIR 7	ETR	ETR	ETR	ETR	
S9	STAIR 9	ETR	ETR	ETR	ETR	
S9	STAIR 9	ETR	ETR	ETR	ETR	
S10	STAIR 10	ETR	ETR	ETR	ETR	
S10	STAIR 10	ETR	ETR	ETR	ETR	
T001	STAFF WC	CFT-1	CFT-1	CWT-1, PNT-1	GWB	
T101	TOILET	CFT-1	CFT-1	CWT-1	GWB	
T102	WOMEN	CFT-1	CFT-1	CWT-1	GWB	
T103	MEN	CFT-1	CFT-1	CWT-1	GWB	
T120	CHILDREN'S WC	CFT-1	CFT-1	CWT-1	GWB	
T150	STAFF WC	CFT-1	CFT-1	CWT-1, PNT-1	GWB	

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Checked By JT
Drawn By JS

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	100% CONSTRUCTION DOCUMENTS	01.14.2022

FINISH SCHEDULE

A900

CONSTRUCTION DOCUMENTS

01.14.2022

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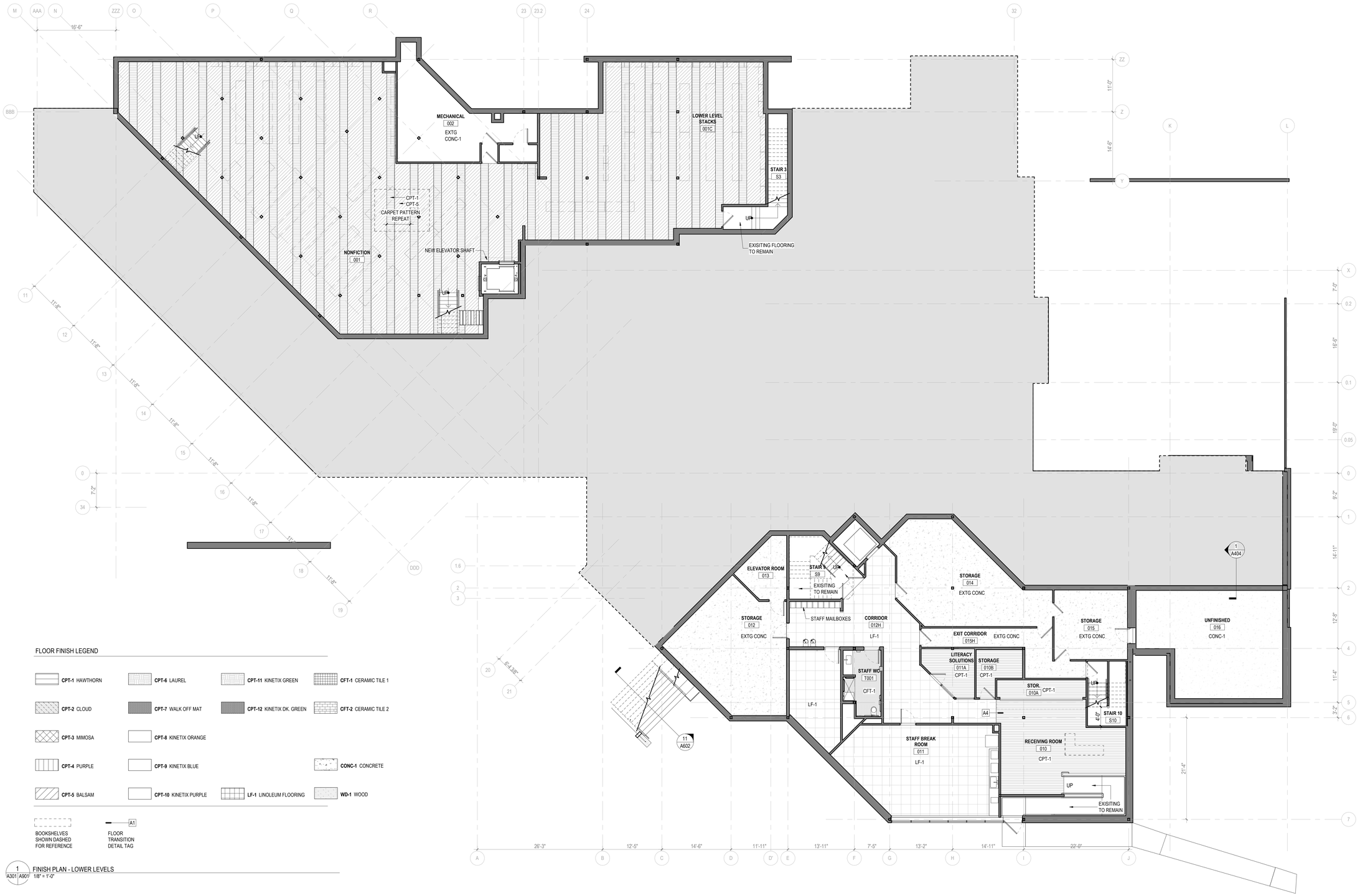

FLOOR FINISH LEGEND

CPT-1 HAWTHORN	CPT-6 LAUREL	CPT-11 KINETIX GREEN	CFT-1 CERAMIC TILE 1
CPT-2 CLOUD	CPT-7 WALK OFF MAT	CPT-12 KINETIX DK. GREEN	CFT-2 CERAMIC TILE 2
CPT-3 MIMOSA	CPT-8 KINETIX ORANGE		
CPT-4 PURPLE	CPT-9 KINETIX BLUE		CONC-1 CONCRETE
CPT-5 BALSAM	CPT-10 KINETIX PURPLE	LF-1 LINOLEUM FLOORING	WD-1 WOOD

BOOKSHELVES SHOWN DASHED FOR REFERENCE

A1 FLOOR TRANSITION DETAIL TAG

1 A301 A901 FINISH PLAN - LOWER LEVELS
1/8" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

1. FOR ADDITIONAL INFORMATION ON INTERIOR FINISHES, SEE REMAINDER OF DRAWINGS INCLUDING FLOOR PLANS, REFLECTED CEILING PLANS & INTERIOR ELEVATIONS.
2. PROVIDE STONE THRESHOLDS AT DOORS OR OPENINGS TO TOILET ROOMS AND BATHROOMS AT TRANSITION BETWEEN CERAMIC TILE AND ADJACENT (OTHER) FLOOR FINISH.
3. ALL FLOORS SCHEDULED TO RECEIVE A SEALED CONCRETE FINISH SHALL HAVE TWO (2) COATS OF SEALER. THE SECOND COAT OF SEALER SHALL BE APPLIED AT THE TIME OF SUBSTANTIAL COMPLETION.
4. REFER TO "FP" SHEETS FOR FIRE RESISTANCE RATINGS OF WALL AND FLOOR ASSEMBLIES.
5. ALL M.E.P. SYSTEMS SHALL BE CONCEALED WITHIN WALL OR CEILING CAVITY, U.N.O.
6. PAINT ALL STRUCTURE AND INFRASTRUCTURE COMPONENTS AND SURFACES AT OPEN OR EXPOSED CEILINGS.

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GRAPHIC SCALE - 1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0"

ISSUES AND REVISIONS

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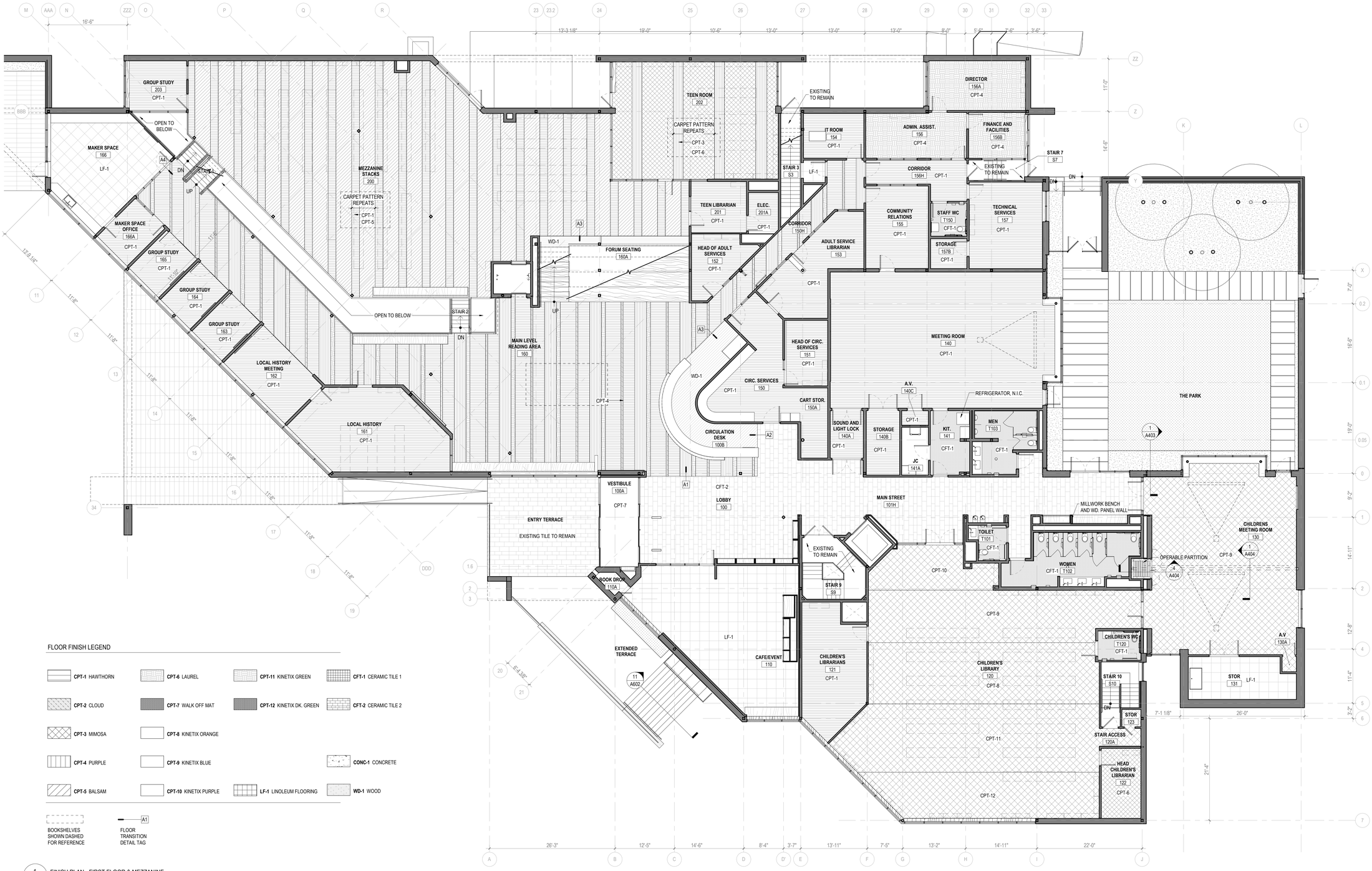
FINISH PLAN - LOWER LEVEL & BASEMENT

A901

CONSTRUCTION DOCUMENTS
01.14.2022



FLOOR FINISH LEGEND

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CPT-3 MIMOSA	CPT-8 KINETIX ORANGE		
CPT-4 PURPLE	CPT-9 KINETIX BLUE		CONC-1 CONCRETE
CPT-5 BALSAM	CPT-10 KINETIX PURPLE	LF-1 LINOLEUM FLOORING	WD-1 WOOD

BOOKSHELVES SHOWN DASHED FOR REFERENCE

FLOOR TRANSITION DETAIL TAG

1 A301 A911 FINISH PLAN - FIRST FLOOR & MEZZANINE 1/8" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

1. FOR ADDITIONAL INFORMATION ON INTERIOR FINISHES, SEE REMAINDER OF DRAWINGS INCLUDING FLOOR PLANS, REFLECTED CEILING PLANS & INTERIOR ELEVATIONS.
2. PROVIDE STONE THRESHOLDS AT DOORS OR OPENINGS TO TOILET ROOMS AND BATHROOMS AT TRANSITION BETWEEN CERAMIC TILE AND ADJACENT (OTHER) FLOOR FINISH.
3. ALL FLOORS SCHEDULED TO RECEIVE A SEALED CONCRETE FINISH SHALL HAVE TWO (2) COATS OF SEALER. THE SECOND COAT OF SEALER SHALL BE APPLIED AT THE TIME OF SUBSTANTIAL COMPLETION.
4. REFER TO "FP" SHEETS FOR FIRE RESISTANCE RATINGS OF WALL AND FLOOR ASSEMBLIES.
5. ALL M.E.P. SYSTEMS SHALL BE CONCEALED WITHIN WALL OR CEILING CAVITY, U.N.O.
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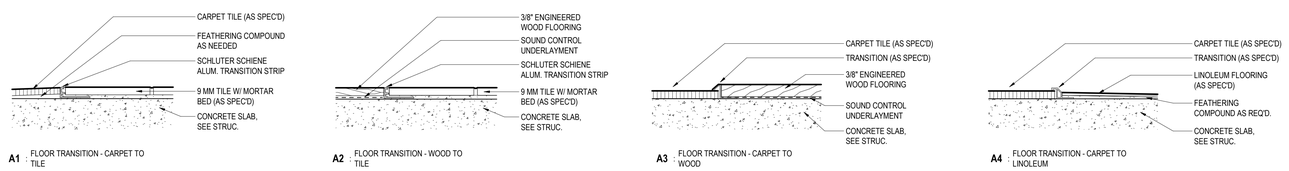

A1 : FLOOR TRANSITION - CARPET TO TILE

A2 : FLOOR TRANSITION - WOOD TO TILE

A3 : FLOOR TRANSITION - CARPET TO WOOD

A4 : FLOOR TRANSITION - CARPET TO LINOLEUM

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0 8' - 0" 16' - 0" 24' - 0"

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FINISH PLAN - FIRST FLOOR & MEZZANINE

A911

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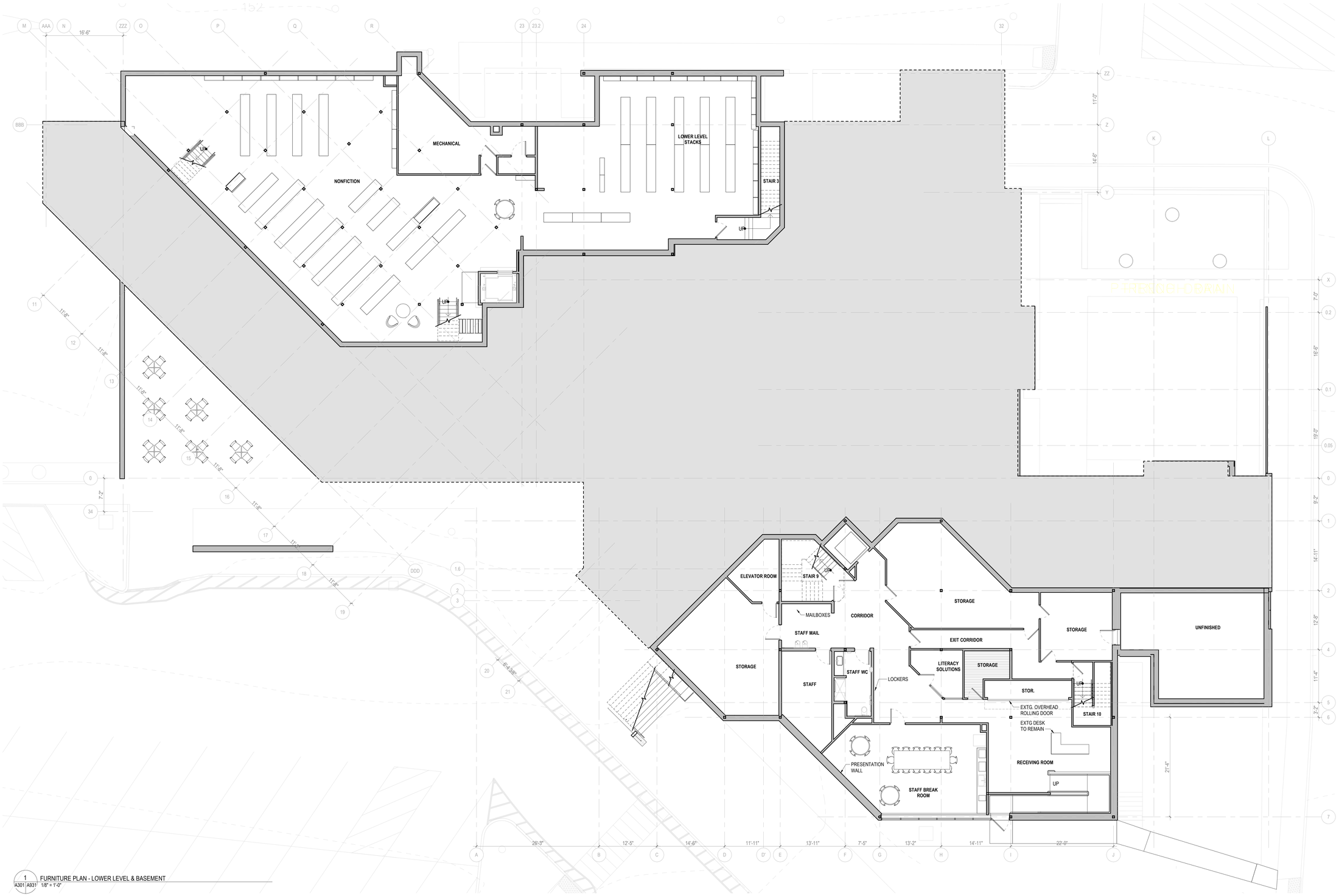

1 A301 A931 FURNITURE PLAN - LOWER LEVEL & BASEMENT
1/8" = 1'-0"

KEYNOTES

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FURNITURE PLAN - LOWER LEVEL & BASEMENT

A931

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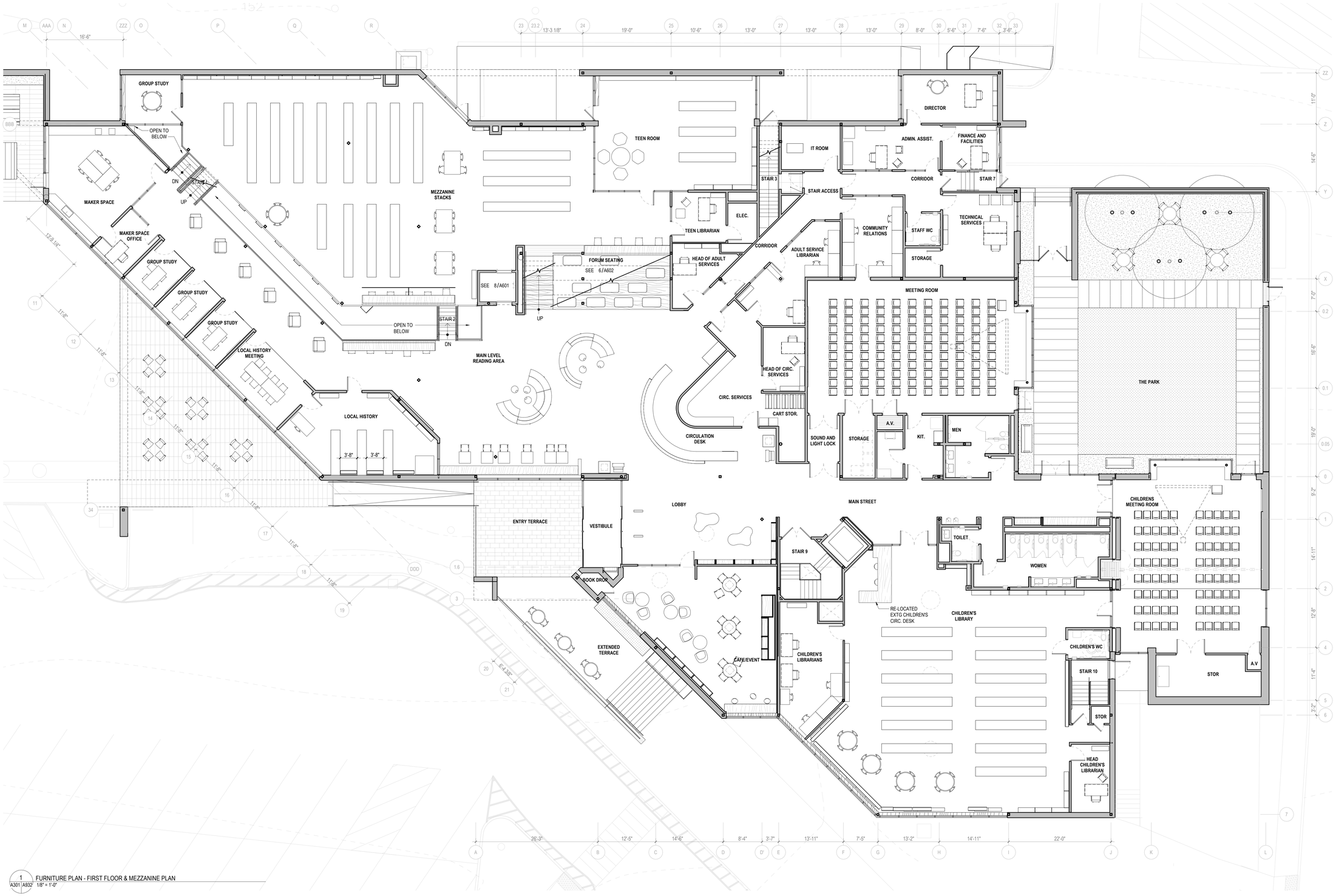

1 FURNITURE PLAN - FIRST FLOOR & MEZZANINE PLAN
A301 | A932 1/8" = 1'-0"

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FURNITURE PLAN - FIRST FLOOR & MEZZANINE

A932

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PLUMBING PIPE MATERIAL SCHEDULE

PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HW, HWC)	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
WATER SERVICE PIPING	¾" - 4"	COPPER	HARD / TYPE K	ASTM B75 ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	DUCTILE IRON	SCHEDULE 40	AWWA C151/A21.51	DUCTILE IRON	GROOVED END	AWWA C606
SANITARY, WASTE, VENT (ABOVE GROUND)	< 4"	COPPER	DWV HARD / TYPE L	ASTM B88	DWV COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
			SCHEDULE 40 / SERVICE		CAST IRON	COUPLING	ASTM C564
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
			SCHEDULE 40 / SERVICE		CAST IRON	COUPLING	ASTM C564
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3
PUMP DISCHARGE	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22

NOTES:
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINSTS ACCORDING TO AWWA C600 AND AWWA M41.
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASEMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXY/MED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.

PLUMBING FIXTURE SCHEDULE

TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1¼"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, CONVENTIONAL GLAZE. 1½" INLET SPUD, 2½" TRAPWAY, 10"x12" WATER SURFACE AREA. FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161.002 DC POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER
P-2			URINAL	4"	2"	1"	-	MANUFACTURER: AMERICAN STANDARD MODEL: #6042.001EC.020 DECORUM HIGH EFFICIENCY URINAL SYSTEM 0.125 GPF. VITREOUS CHINA, ¾" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE. FLUSH VALVE: MODEL #6063.013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE SELECTRONIC URINAL FLUSH VALVE. 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE. 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER
P-3			LAVATORY WALL HUNG	2"	2"	¾"	¾"	MANUFACTURER: AMERICAN STANDARD MODEL: 9024.001EC DECORUM WALL-HUNG LAVATORY WITH EVERCLEAN 20"x18" VITREOUS CHINA. RECESSED SELF-DRAINING DECK WITH MINIMAL BACKSPLASH. CENTER HOLE ONLY (CHO) FAUCET; MAKEL: AMERICAN STANDARD MODEL: INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET. CAST BRASS SPOUT, 0.5 GPM PRESSURE COMPENSATING VANDAL RESISTANT MULTI-LAMINAR SPRAY. TOILET ROOMS T-120 & T-150
			LAVATORY COUNTER MOUNTED					MANUFACTURER: KOHLER MODEL: KATHRYN UNDERMOUNT LAVATORY, RECTANGULAR BASIN VITREOUS CHINA BOWL WITH OVER FLOW. FAUCET; KOHLER MODEL: K-103C36-SANA COMPOSED TOUCHLESS FAUCET WITH KINESIS SENSOR. BRASS SPOUT, 0.5 GPM FLOW RATE, VANDAL RESISTANT AERATOR. SUPPLY K-13480 AC SINGLE SUPPLY ADAPTER USE IN ALL OTHER TOILET ROOMS
P-4			SINK	2"	2"	¾"	¾"	MANUFACTURER: ADVANCE TABCO ONE COMPARTMENT W/ DRAINBOARD, 46"L x 31"D x 45"H
P-5			SHOWER	3"	2"	¾"	¾"	MANUFACTURER: COMFORT DESIGNS XSS 6237 BF .75 MODEL: XSS 6237 BF .75, 36X60X74" ADA SHOWER, ACRYLIC NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
P-6			JANITOR'S SINK	3"	2"	¾"	¾"	MANUFACTURER: ELKAY MODEL: EFS3321C 16 GAUGE, TYPE 304, STAINLESS STEEL FLOOR MODEL SERVICE SINK WITH 15½" RADIUS CORNERS. FURNISHED WITH WALL HANGER & LK43 DRAIN WITH STRAINER. 3" DRAIN OUTLET. FAUCET; MAKE: ELKAY MODEL: LKB940C SERVICE/UTILITY WALL MOUNT FAUCET. 4.0 GPM FLOW RATE, CHROME PLATED BRASS WITH QUARTER TURN CERAMIC DISC VALVE. REQUIRES (2) FAUCET HOLES. SOLID BRASS CONSTRUCTION & CHROME FINISH. ½" NPT FEMALE INLET.
DF			DRINKING FOUNTAIN	2"	2"	¾"	-	MANUFACTURER: ELKAY MODEL: EXH20 BOTTLE FILLING STN. W BI-LEVEL FOUNTAIN NOTES: RECESSED HI-LOW WITH BOTTLE FILLING STATION
NFHB			NON-FREEZE HOSE-BIB	-	-	¾"	-	ZURN MODEL Z1300 ECOLOTROL WALL HYDRANT. ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, ALL BRONZE. HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ON COVER
RD-1			ROOF DRAIN	4"	-	-	-	JOSAM 21500 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WELJOC® NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP. LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.
FD-1			FLOOR DRAIN	4"	-	-	-	MANUFACTURER: ZURN MODEL: ZN-415 WITH DUCO CAST IRON BODY WITH FLASHING, ROUND NICKEL-BRONZE STRAINER, BRONZE GRATING, AND LOW PROFILE TAP. COORDINATE GRATING TYPE WITH ARCHITECTURAL PLANS. PROVIDE TRAP SEALS/GUARDS.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FINAL FIXTURE SELECTIONS, COLOR, FINISHES, QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.S:
2.) PROVIDE MIXING VALVE FOR ALL LAVATORY FIXTURES & SINKS.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
–	AFF	ABOVE FINISHED FLOOR
–	AHC	ABOVE HUNG CEILING
–	BFP	BACK FLOW PREVENTOR
	–	BALL VALVE
	–	BASKET STRAINER
	–	BUTTERFLY VALVE
	–	CHECK VALVE
	–	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
–	CW	COLD WATER
	–	CONCENTRIC REDUCER
–	DCV	DOUBLE CHECK VALVE - BFP
	–	ECCENTRIC REDUCER
	–	ELBOW DOWN
	–	ELBOW UP
–	DEM.	EXISTING TO BE REMOVED
–	EX.	EXISTING TO REMAIN
	–	FLEXIBLE CONNECTION
–	FCO	FLOOR CLEAN OUT
–	FS	FLOOR SINK
	–	FLOW ARROW
–	FAI	FRESH AIR INTAKE
	–	GATE VALVE
	–	GLOBE VALVE
–	HW HTR	HOT WATER HEATER
–	LDR	LEADER
	–	MANUAL AIR VENT
	–	OS&Y GATE VALVE
	–	PLUG VALVE
	–	PIPE CAP
	–	PRESSURE GAGE
	–	PRESSURE REDUCING VALVE
	–	PUMP
–	PD	PUMP DISCHARGE
–	RPZ	REDUCED PRESSURE ZONE - BFP
–	REL.	REMOVE AND RELOCATE
–	S	SANITARY
	–	SOLENOID VALVE
	–	STRAINER
–	SD	STORM DRAINAGE
	–	TEE DOWN
	–	TEE UP
	–	THERMOMETER
–	TYP.	TYPICAL
	–	T&P RELIEF VALVE
	–	UNION
–	V	VENT
–	VTR	VENT THROUGH ROOF
–	WCO	WALL CLEAN OUT
–	W	WASTE LINE
	–	2-WAY VALVE
	–	3-WAY VALVE
	EX.	EXISTING TO REMAIN
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER RECIRCULATION

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
4. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
5. PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
6. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION. COORDINATE LOCATIONS WITH ARCHITECT FOR APPROVAL.H
7. PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
8. PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2½".
9. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
10. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
11. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
12. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
14. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP SEALS/GUARDS.
15. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
16. NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
17. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

1. DOMESTIC HOT WATER RE-CIRCULATION PUMP, HWC-1: SHALL BE BASED ON BELL & GOSSETT MODEL PL-55 RATED FOR 10 GPM AT 45' TDH, ⅔ HP, 115V-1 PHASE-60 HERTZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. WATER HAMMER ARRESTOR, (WHA): SHALL BE TYPE 650 SERIES: SIOUX CHIEF "HYDRARESTER" PISTON-TYPE, WITH TYPE L COPPER TUBE CONSTRUCTION, PRESSURIZED AIR CUSHION. REFER TO MANUFACTURER'S RECOMMENDED SIZING. RE: RISER.
3. PUMP BASIN SP-1: SHALL BE BASED ON LITTLE GIANT DRAINOSAUR. 5 GALLON, POLYPROPYLENE. ⅓ HP PUMP. 115/1/60. 6A FLA, 14.3A START, 46 GPM AT 5' HD. 7.8 PSI RATING. PROVIDE DISCONNECT SWITCH.
4. SOLIDS INTERCEPTOR: SHALL BE BASED ON JAY R. SMITH MODEL 8730 SUSPENDED TYPE. WHITE DUCO COATED CAST IRON BODY AND ALUMINUM STRAINER WITH REMOVABLE STAINLESS STEEL SCREENS.
5. SPOT TYPE LEAK DETECTORS (LD-1) SHALL BE BASED ON LIEBERT MODEL LT-410.
6. SOLENOID VALVES SHALL BE BASED ON PARKER GOLD RING SERIES 20 WITH TEFLON DIAPHRAGM. PROVIDE STRAINER UPSTREAM OF SOLENOID VALVE. NORMALLY CLOSED TWO-WAY DIRECT ACTING VALVES. VALVES SHALL BE UL LISTED CSA CERTIFIED. SOLENOID VALVE SHALL BE ARRANGED TO CLOSE UPON DETECTION OF WATER BY ASSOCIATED LEAK DETECTOR.
7. PROVIDE 200 WATT LOW VOLTAGE TRANSFORMER FOR EACH PANTRY & LOCATION OF LEAK DETECTOR AND/OR SOLENOIDS.

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New City Library

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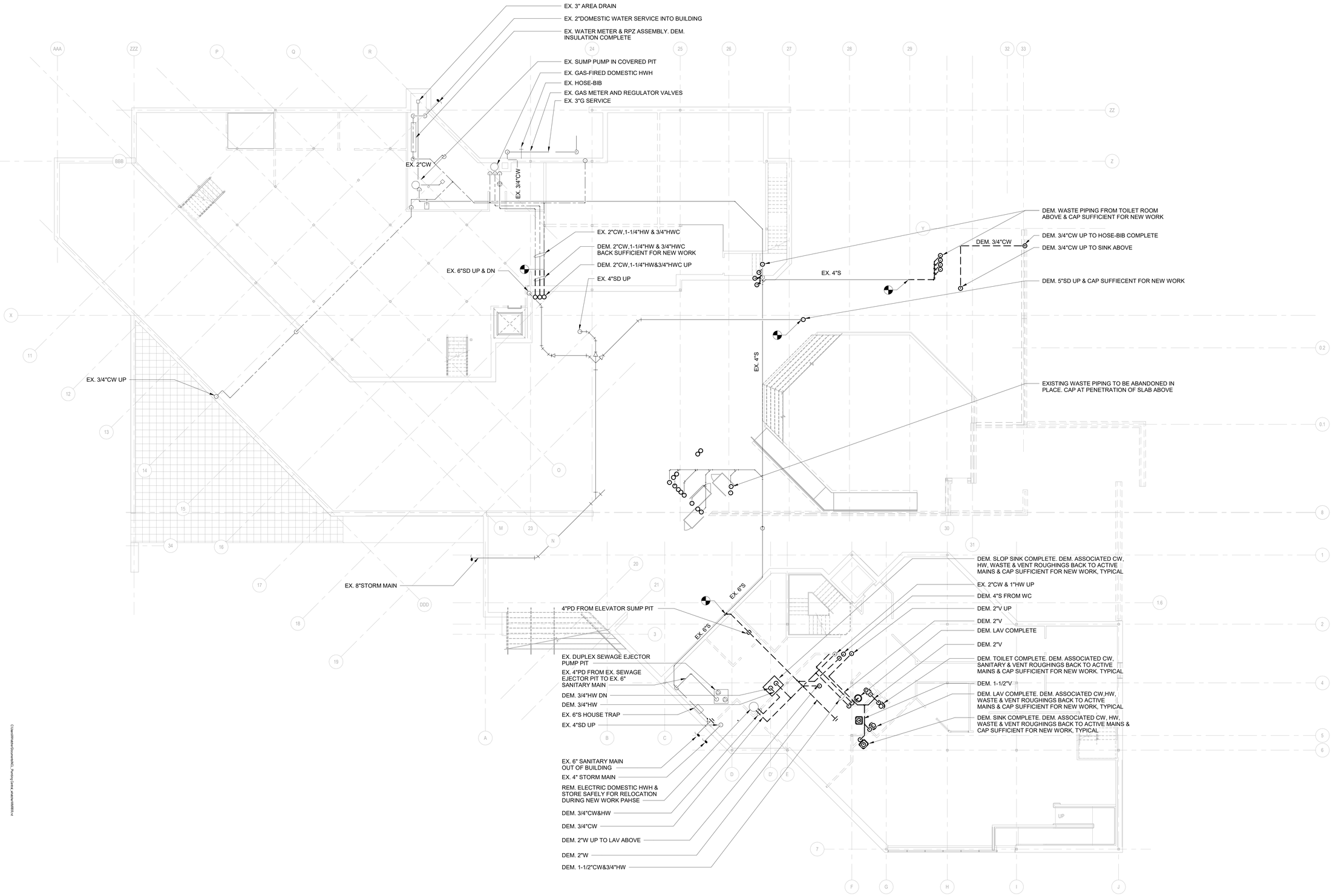
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

PLUMBING SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES

P-001

CONSTRUCTION DOCUMENTS
01.14.2022



1 PLUMBING LOWER LEVEL DEMOLITION PLAN

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

NORTH

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PLUMBING LOWER LEVEL DEMOLITION PLAN

P-101

CONSTRUCTION DOCUMENTS

01.14.2022

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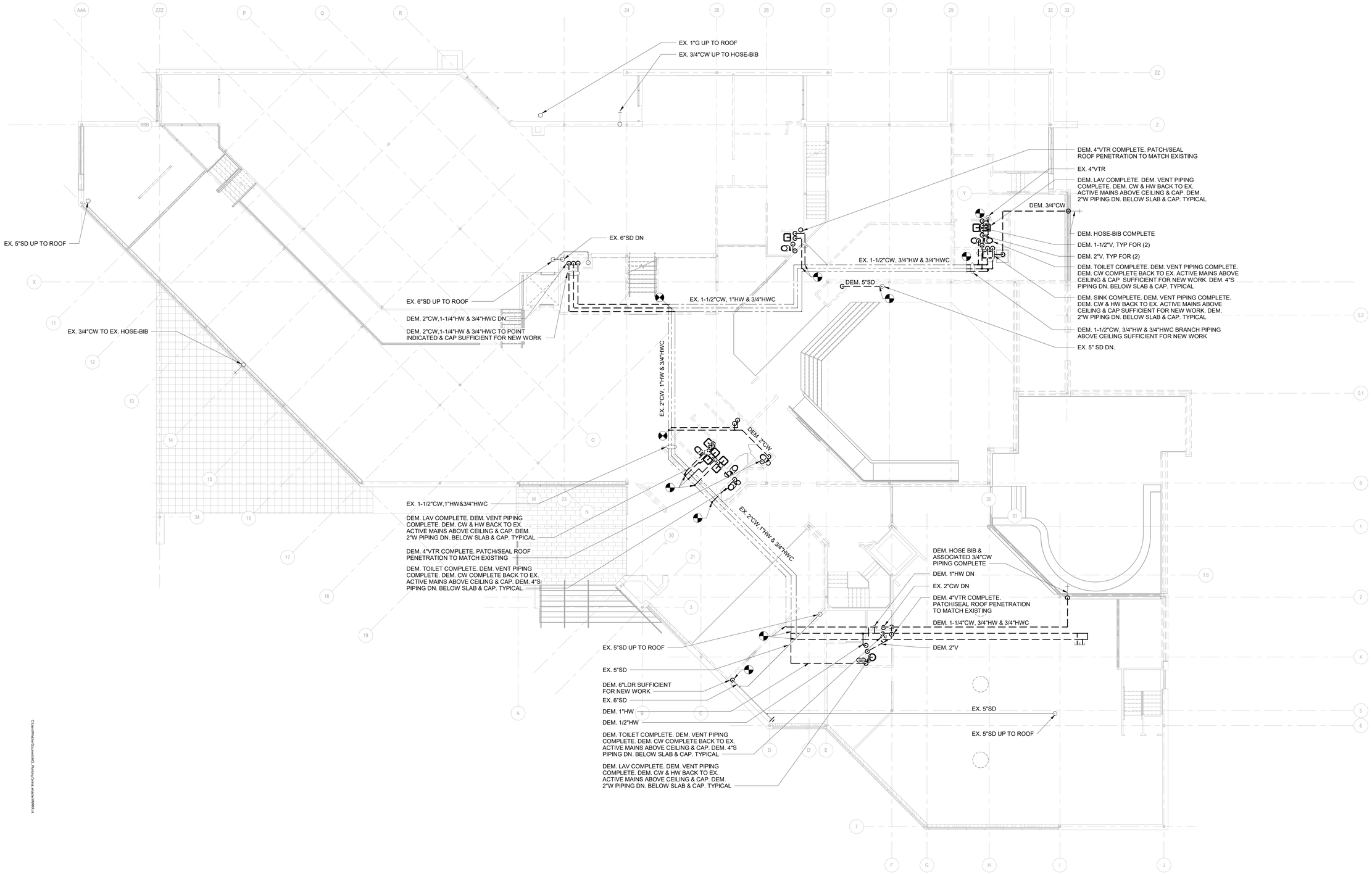

NORTH

1 PLUMBING MAIN LEVEL DEMOLITION PLAN

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

PLUMBING MAIN LEVEL DEMOLITION PLAN

P-102

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01.14.2022

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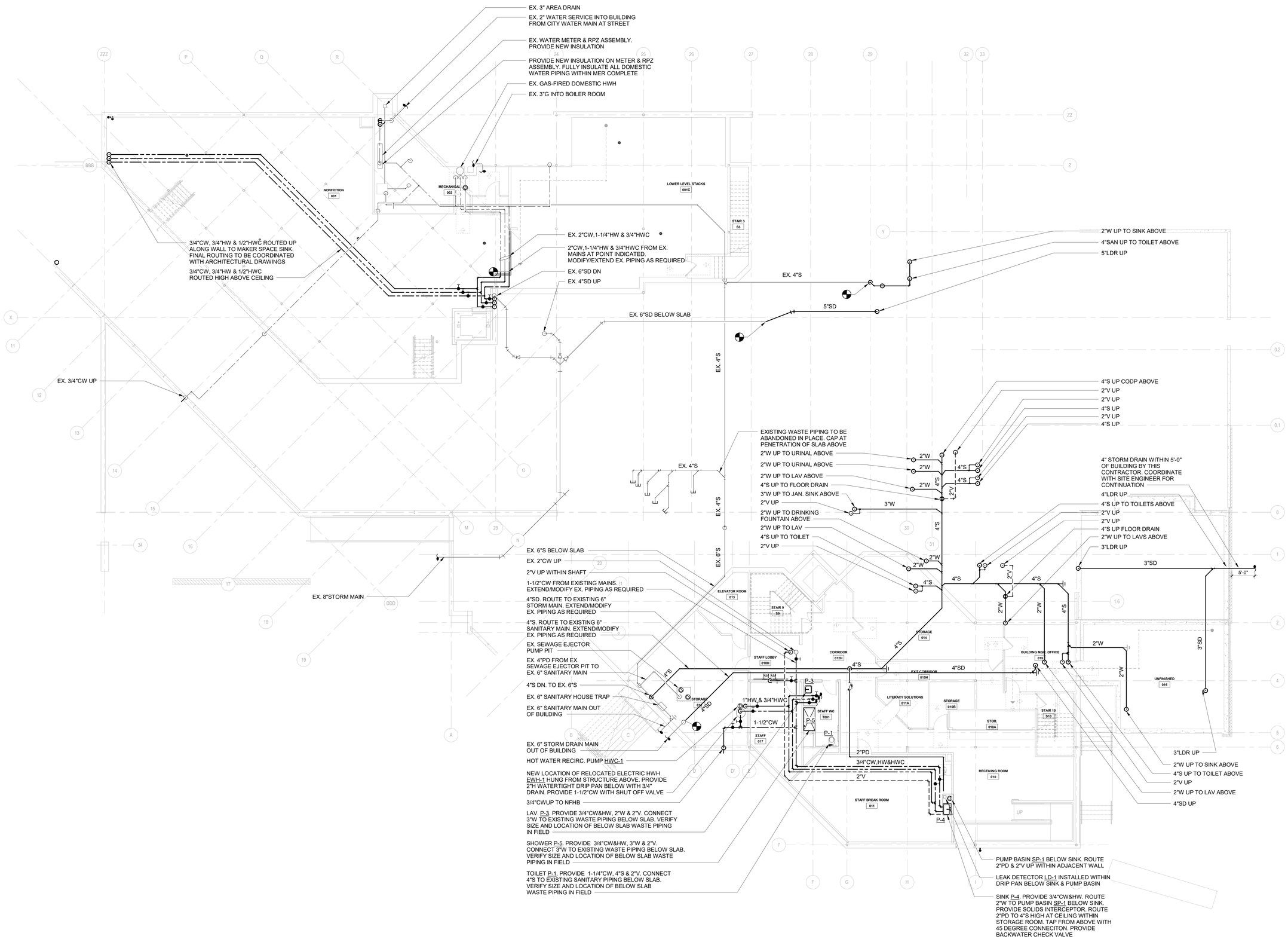

NORTH

1 PLUMBING LOWER LEVEL NEW WORK PLAN

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PLUMBING LOWER LEVEL NEW WORK PLAN

P-201

CONSTRUCTION DOCUMENTS

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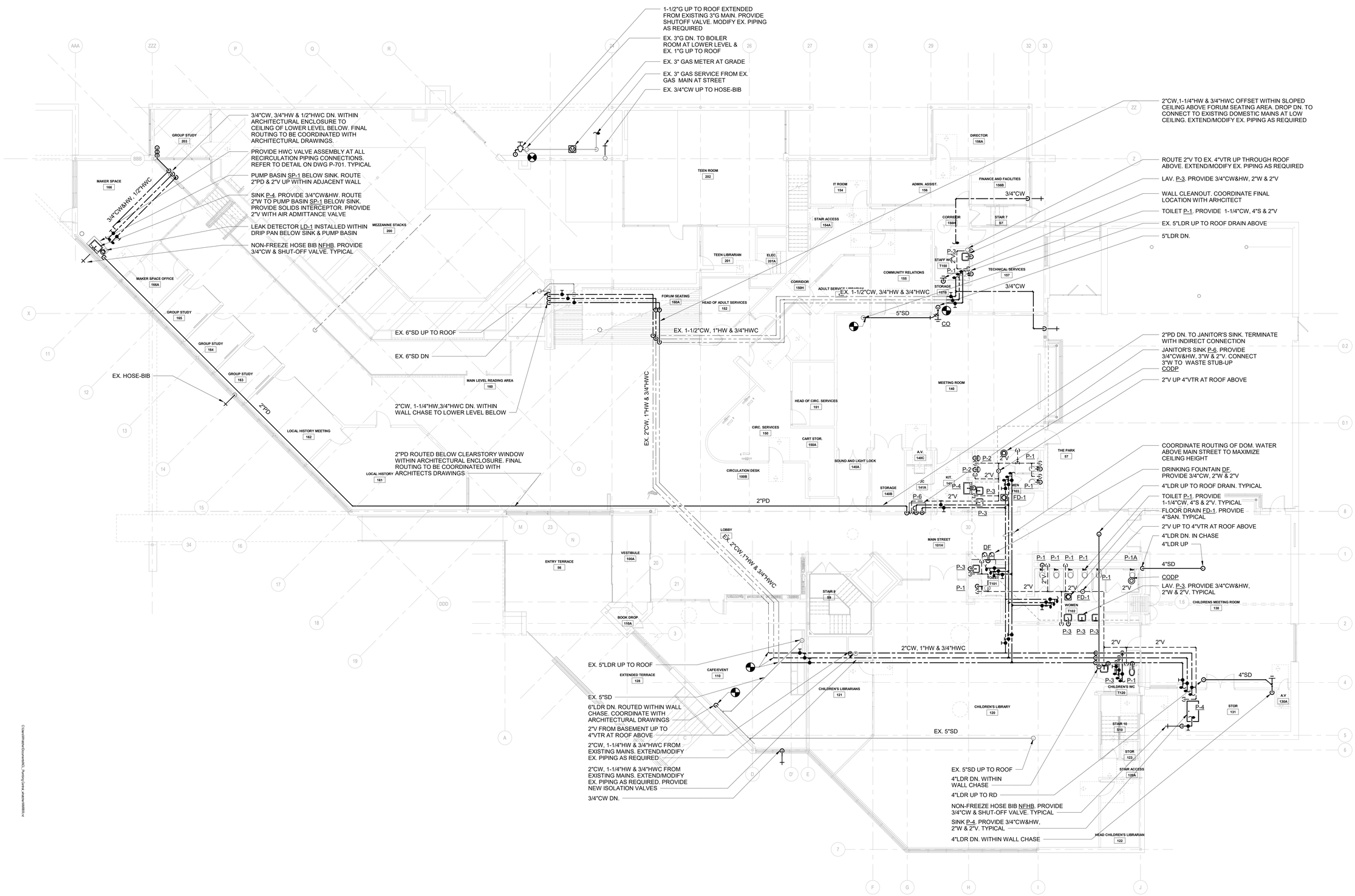

1 PLUMBING MAIN LEVEL NEW WORK PLAN

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PLUMBING MAIN LEVEL NEW WORK PLAN

P-202

CONSTRUCTION DOCUMENTS

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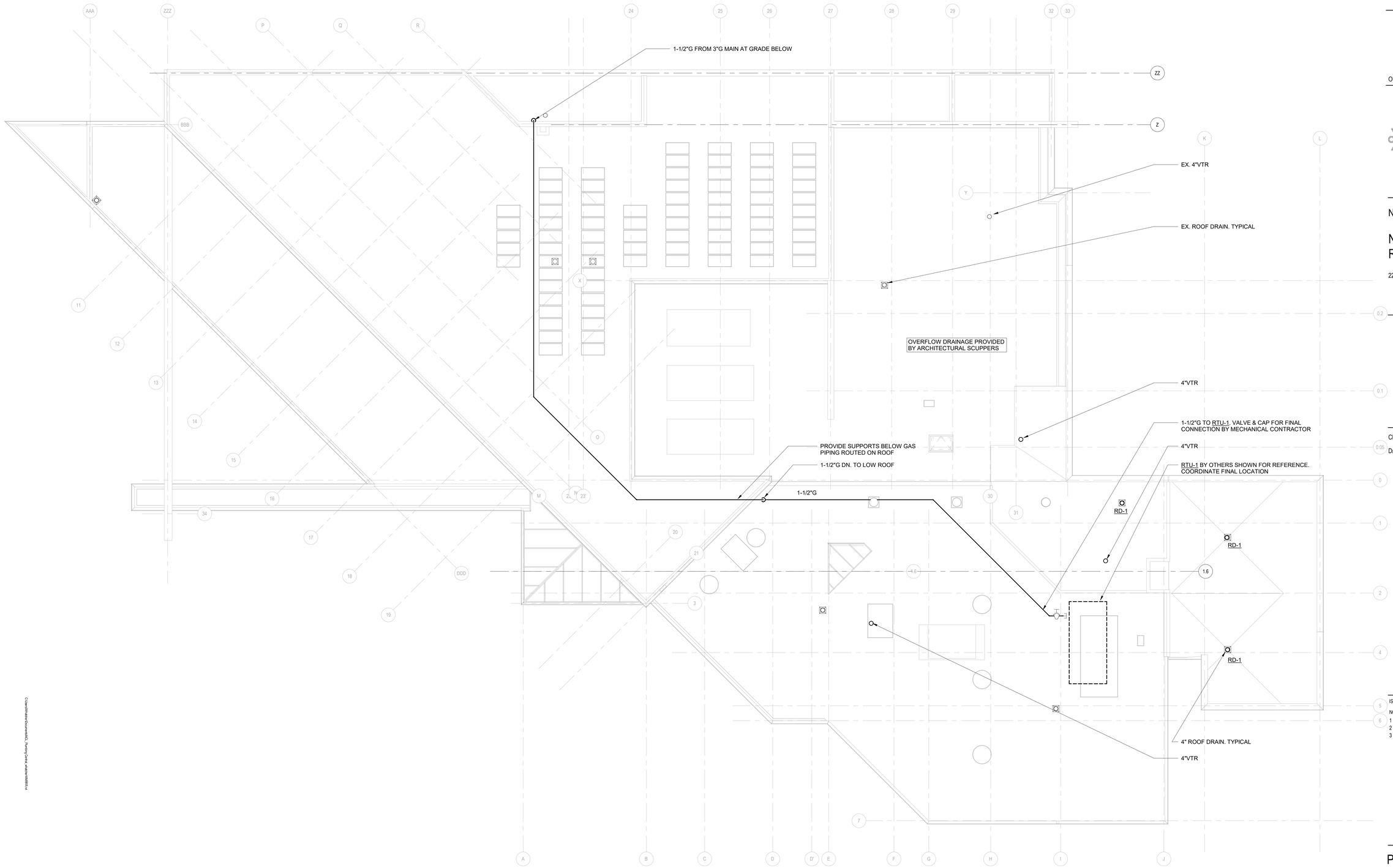

1 PLUMBING ROOF NEW WORK PLAN

NORTH

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

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

PLUMBING ROOF NEW WORK PLAN

P-203

CONSTRUCTION DOCUMENTS
01.14.2022

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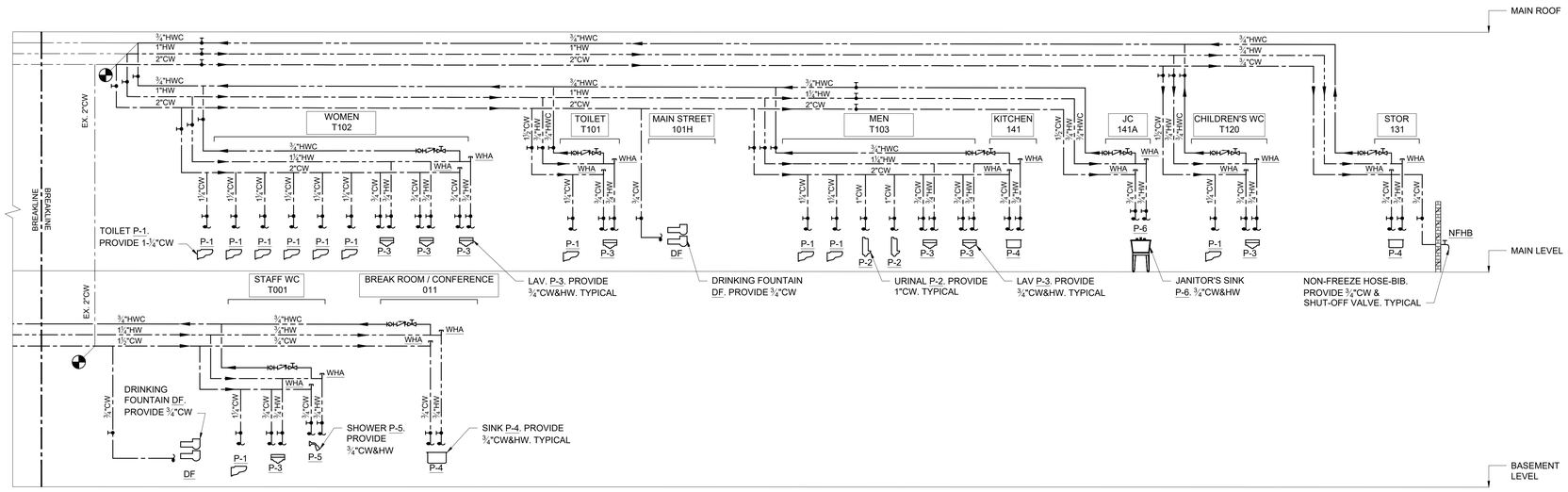
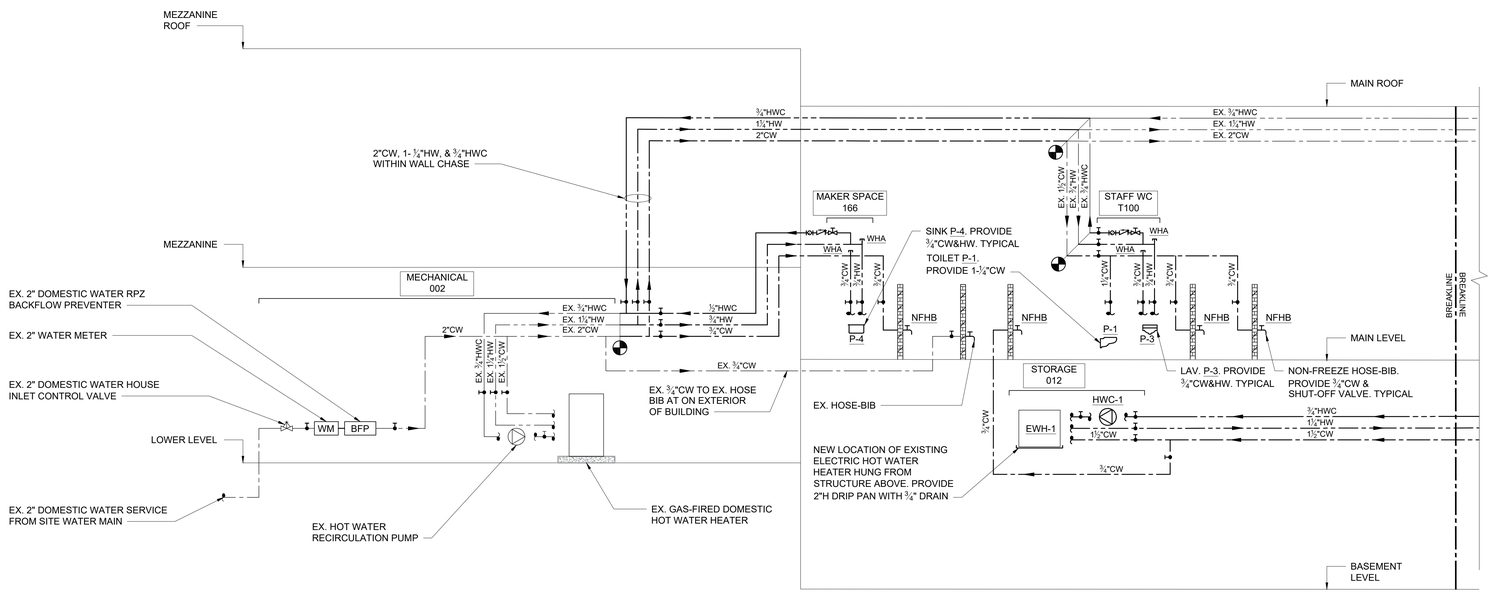


2 PLUMBING DOMESTIC WATER RISER DIAGRAM
SCALE: NTS



1 PLUMBING DOMESTIC WATER RISER DIAGRAM
SCALE: NTS

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OLA Project Number: NVMD0001.00

New City Library

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

STATE OF NEW YORK · BARBARA JILL WALSH · 075260 · LICENSED PROFESSIONAL ENGINEER

Checked By RG
Drawn By AMB

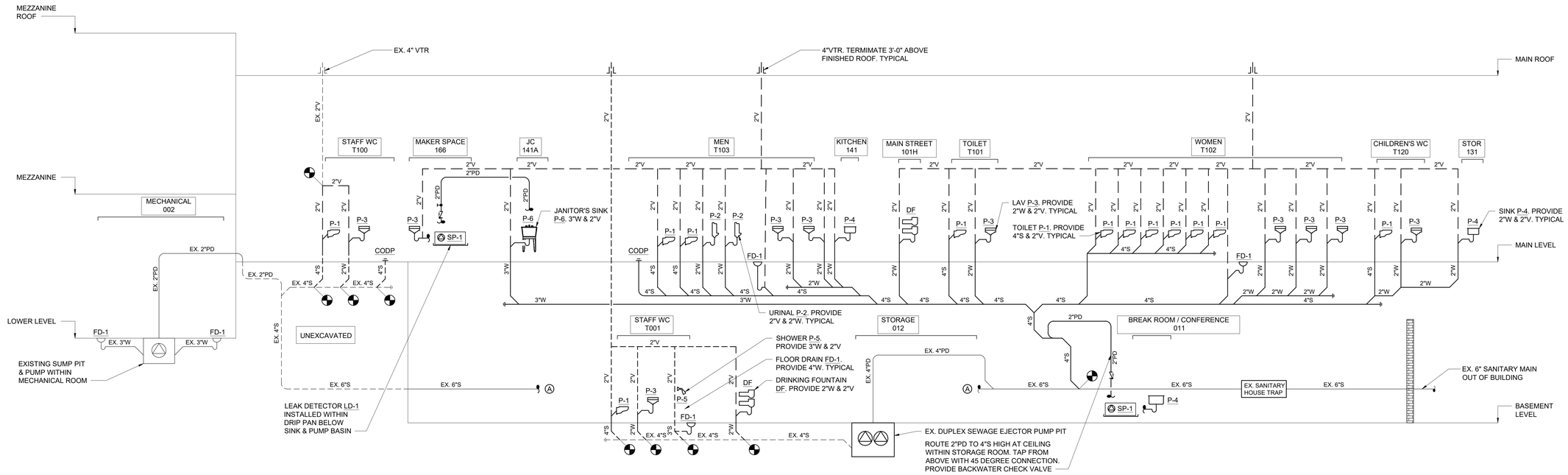
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

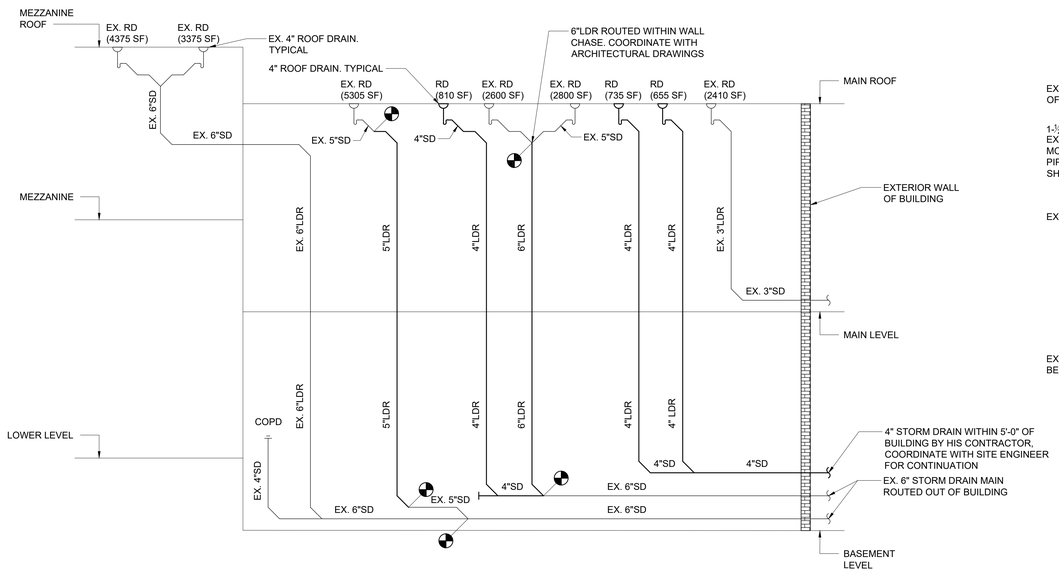
PLUMBING DOMESTIC WATER RISER DIAGRAMS

P-501

CONSTRUCTION DOCUMENTS
01.14.2022



3 PLUMBING SANITARY RISER DIAGRAM
SCALE: NTS



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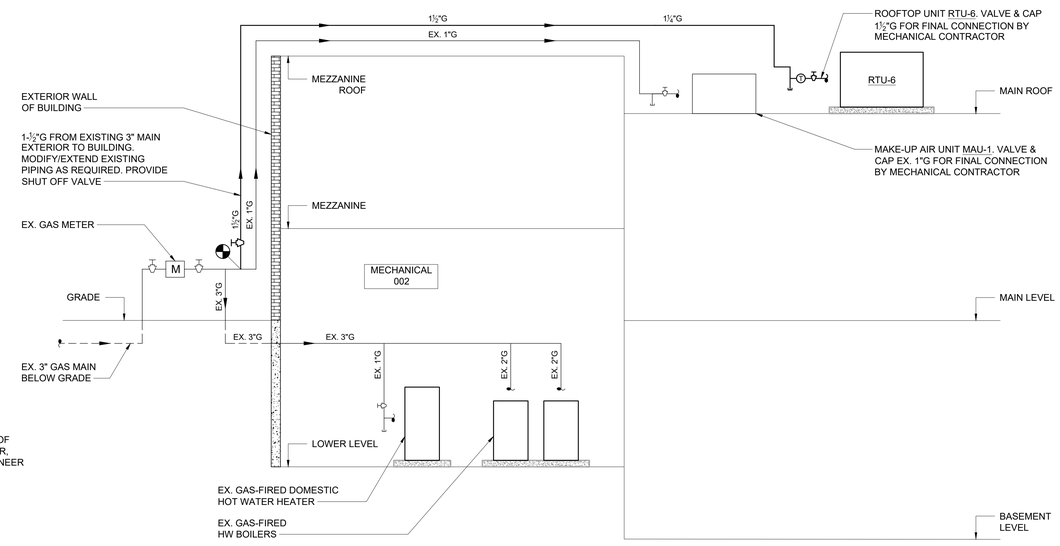

1 PLUMBING GAS RISER DIAGRAM
SCALE: NTS

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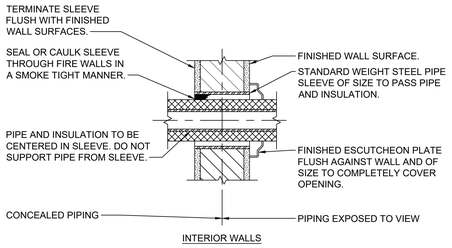
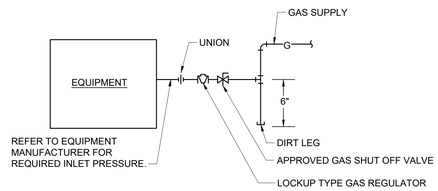
PLUMBING RISER DIAGRAMS

P-502

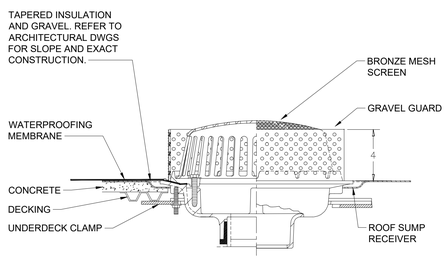
CONSTRUCTION DOCUMENTS
01.14.2022



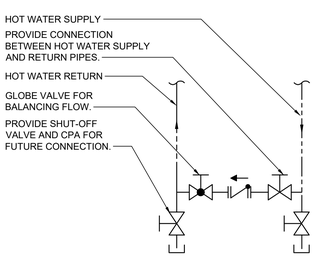
12 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



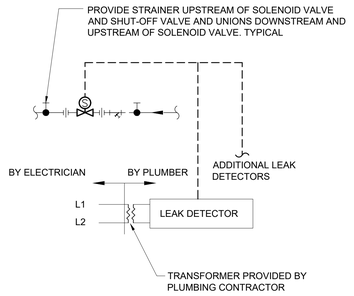
11 EQUIPMENT GAS CONNECTION SCHEMATIC
SCALE: NONE



10 ROOF DRAIN DETAIL
SCALE: NONE



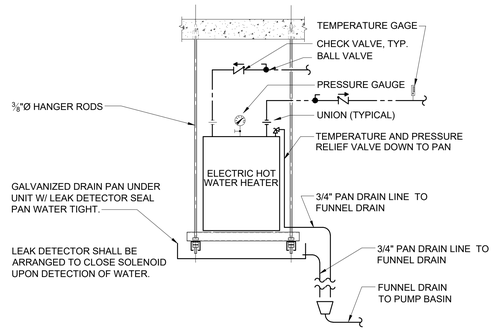
9 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE



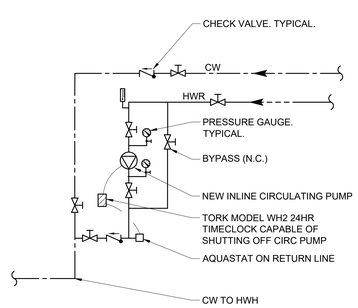
SEQUENCE OF OPERATIONS

1.) SOLENOID VALVE SHALL CLOSE UPON DETECTION OF WATER BY ASSOCIATED LEAK DETECTOR(S).

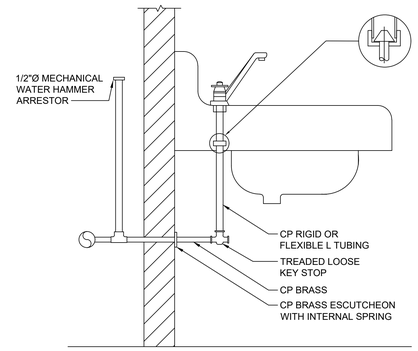
8 LEAK DETECTOR / SOLENOID SCHEMATIC
SCALE: NONE



7 HOT WATER HEATER DETAIL
SCALE: NONE

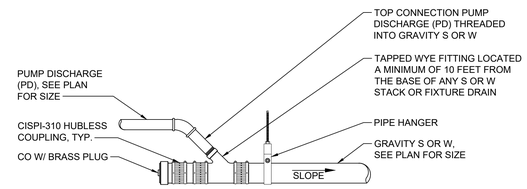


6 HOT WATER RECURCULATION SCHEMATIC
SCALE: NONE

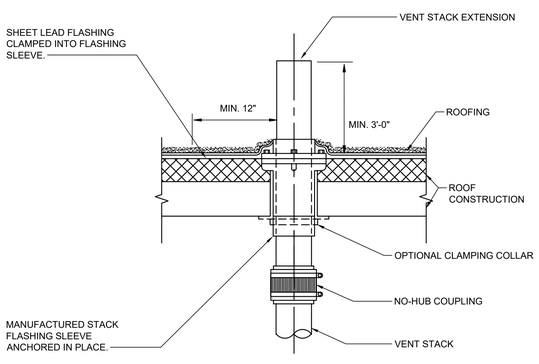


NOTE:
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

5 SUPPLY LAVATORY SUPPLY CONNECTION
SCALE: NONE



4 PUMP DISCHARGE TO GRAVITY DRAINAGE CONNECTION DETAIL
SCALE: NONE

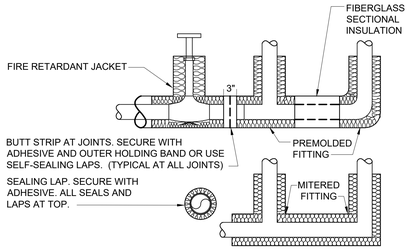


NOTE:
1. VENT STACK OUTLET TO BE 10 FT.(MIN) FROM ANY WALL OR STRUCTURE OR 3 FT.ABOVE STRUCTURE

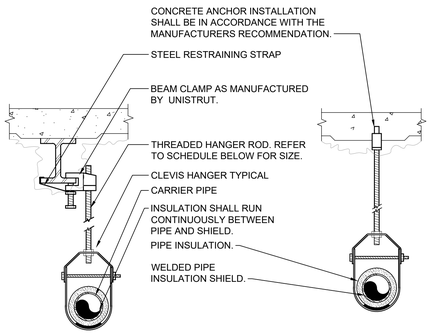
3 VENT THRU ROOF
SCALE: NONE

CONCEALED VALVES AND FITTINGS
1. WRAP WITH I" THICK, I LB. DENSITY TO REQUIRED PIPE INSULATION THICKNESS.
2. SECURE WITH WIRE OR TAPE.
3. VAPOR SEAL COLD WATER AND STORM WATER PIPING.

EXPOSED VALVES AND FITTINGS
1. PREMOLDED FIBERGLASS OR RADIAL MITERED PIPE INSULATION.
2. SKIM COAT OF INSULATING CEMENT.
3. COAT OF MASTIC
4. WRAP WITH FIBERGLASS REINFORCING CLOTH.
5. FINISH COAT OF MASTIC.
6. OVERLAP 2" ON PIPE INSULATION.



2 PIPE INSULATION DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
7. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

1 PIPE HANGER DETAIL
SCALE: NONE

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PLUMBING DETAILS

P-701

CONSTRUCTION DOCUMENTS
01.14.2022

CONTROLS AND SEQUENCES

M-1 AUTOMATIC TEMPERATURE CONTROLS

A.) THE CONTROL SYSTEM SHALL BE A NEW STAND ALONE CONTROL SYSTEM FOR NEW EQUIPMENT AND NEW DEVICES, CONTROLLERS, ETC FOR EXISTING EQUIPMENT THROUGHOUT THE LIBRARY.

B.) FULL CONTROL DRAWINGS INCLUDING EQUIPMENT SUBMITTAL AND SEQUENCE OF OPERATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

C.) THIS CONTRACTOR TO PROVIDE ALL WIRING BETWEEN UNITS AND CONTROL PANELS.

D.) THE CONTROL SYSTEM SHALL BE COMPLETE WITH ALL NECESSARY CONTROL DEVICES, TEMPERATURE SENSORS VALVES, SWITCHES, PANELS, DAMPERS AND CONTROL & INTERLOCK WIRING TO PROVIDE THE DESCRIBED FUNCTIONS. PROVIDE INFORMATION TO THE ELECTRICAL CONTRACTOR REQUIRED TO PERMIT INSTALLATION OF POWER WIRING TO ANY CONTROL COMPONENTS.

E.) THE CONTROLS MANUFACTURER SHALL FURNISH FACTORY WIRED CONTROL PANELS WHICH SHALL HOUSE ALL RELAYS, DEVICES, SWITCHES, TRANSFORMERS, TERMINAL STRIPS, ETC., AS REQUIRED FOR THE COMPLETE TEMPERATURE CONTROL OF THE SYSTEM.

F.) ALL CONTROLS SHALL BE THE PRODUCT OF ONE MANUFACTURER AND ALL COMPONENTS SHALL BE U.L. APPROVED WHERE APPLICABLE. SYSTEM SHALL BE THE LATEST TOP QUALITY EQUIPMENT AND SHALL BE INSTALLED COMPLETE IN ALL RESPECTS BY COMPETENT MECHANICS, REGULARLY EMPLOYED BY THE MANUFACTURER OF THE CONTROL SYSTEM.

G.) AFTER COMPLETION OF THE CONTROL SYSTEM WORK, THE CONTROL MANUFACTURER SHALL REGULATE AND ADJUST ALL TEMPERATURE SENSORS, ETC., AND PLACE THEM IN COMPLETE OPERATING CONDITION SUBJECT TO THE REVIEW OF THE OWNER & ENGINEER. COMPLETE INSTRUCTIONS SHALL BE GIVEN TO THE OPERATING PERSONNEL.

H.) THE CONTROL SYSTEM HEREIN SPECIFIED SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL UNDER NORMAL USE AND SERVICE. IF, WITHIN ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER, ANY EQUIPMENT HEREIN DESCRIBED IS PROVED TO BE DEFECTIVE IN WORKMANSHIP OR MATERIAL, IT SHALL BE ADJUSTED, REPAIRED OR REPLACED FREE OF CHARGE.

I.) DELIVER TO THE OWNER TWO COPIES OF THE AS-INSTALLED CONTROL SYSTEM DIAGRAMS LAMINATED IN CLEAR PLASTIC, AS WELL AS OPERATIONS & MAINTENANCE (O&M) MANUALS INDICATING ALL CONTROL SEQUENCES, SET-POINTS AND CONTROL EQUIPMENT MODEL NUMBERS AND CUTS. PROVIDE IDENTIFYING TAGS ON ALL CONTROLS TO CONFORM TO THE DESIGNATIONS ON THE CONTROL DIAGRAMS.

J.) CONTROL CONDUIT AND/OR PIPING SHALL BE CONCEALED IN ALL SPACES EXCEPT IN MECHANICAL EQUIPMENT ROOMS AND UNFINISHED SPACES, AND SHALL BE INSTALLED IN PARALLEL BANKS WITH ALL CHANGES IN DIRECTIONS MADE AT 90 DEGREE ANGLES. CONTROL AND INSTRUMENT WIRING SHALL NOT BE INSTALLED ON DUCTWORK. WIRING AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE, SUCH AS WALLS, COLUMNS, UNDERSIDE OF SLABS, ETC.

K.) ALL CONTROLLERS SHALL BE OF THE FULLY PROPORTIONING TYPE AND SHALL BE PROVIDED WITH AN ADJUSTABLE THROTTLING RANGE, MINIMUM RANGE SHALL BE 1°F.

L.) IT IS THE INTENT OF THIS SECTION TO DEFINE THE REQUIRED OPERATION OF THE SPECIFIED SYSTEMS AND EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS SUBCONTRACTORS, EQUIPMENT MANUFACTURERS AND SUPPLIERS TO ALLOCATE RESPONSIBILITY FOR THE VARIOUS CONTROL ITEMS, CONNECTING PIPING AND WIRING, AND MISCELLANEOUS DEVICES. THE SYSTEMS INSTALLED SHALL BE COMPLETE IN ALL RESPECTS.

M.) SEQUENCES OF OPERATION ESTABLISH THE MINIMUM PERFORMANCE REQUIREMENTS FOR THE SYSTEMS. THE MANUFACTURER HAS THE RESPONSIBILITY OF PROVIDING ALL EQUIPMENT TO MEET THESE REQUIREMENTS. COORDINATE WITH ALL EQUIPMENT SUPPLIERS TO ENSURE PROPER INSTALLATION OF EQUIPMENT INTERLOCKS.

N.) ALL CONTROL WIRING SHALL BE FURNISHED AND INSTALLED. INDOOR WIRING SHALL BE INSTALLED IN EMT. OUTDOOR WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT.

O.) INSTALL CONTROLS SO THAT ADJUSTMENTS AND CALIBRATIONS CAN BE READILY MADE. MOUNT SURFACE MOUNTED CONTROL DEVICES ON BRACKETS TO CLEAR THE FINAL FINISHED SURFACE OF INSULATION. DO NOT INSULATE OVER CONTROL PIPING OR WIRING.

P.) CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL AND INTERLOCK WIRING TO CONTROL PANEL, AND ALL CONTROL AND INTERLOCK WIRING NECESSARY FOR A COMPLETE OPERATING SYSTEM SHALL BE PROVIDED BY THIS CONTRACTOR.

Q.) THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS EQUIPMENT MANUFACTURERS TO VERIFY COMPATIBILITY OF FACTORY SUPPLIED CONTROLS WITH FIELD SUPPLIED CONTROLS. COORDINATE LOCATION OF THERMOSTATS AND OTHER CONTROL SENSORS WITH DRAWINGS OR THE ENGINEER PRIOR TO INSTALLATION.

M-2 PACKAGED ROOFTOP UNITS:

THE UNITS SHALL BE SUPPLIED WITH, AND OPERATED THROUGH A UNIT MOUNTED DDC UNITARY CONTROL PANEL, CAPABLE OF PROVIDING SET-POINT ADJUSTMENTS AND ALL PROGRAMMING CONTROL SEQUENCES.

THE CONTROLLER SHALL BE PROVIDED WITH ABILITY TO INTEGRATE WITH A FUTURE BMS SYSTEM. CONTROLS SHALL INCLUDE ALL MOTORIZED DAMPERS AND VALVES, DAMPER MOTORS, MOTOR STARTERS, WIRING, FANS AND SENSORS AND ALL HARDWARE ACCESSORIES FOR A COMPLETE SYSTEM. FURNISH WALL MOUNTED DIGITAL PROGRAMMABLE THERMOSTATS WITH AUTOMATIC SUMMER/WINTER CHANGE OVER, AND TEMPERATURE ADJUSTMENTS.

UNITS OFF: THE OUTSIDE AIR INTAKE AND RELIEF AIR DAMPERS SHALL BE CLOSED, AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. SUPPLY AND RETURN FANS SHALL BE STOPPED

SUMMER OPERATION: UPON START UP, THE CONTROL CIRCUITS ENERGIZED. THE SUPPLY FAN, AND SPILL FAN SHALL RUN CONTINUOUSLY. RETURN FANS SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR INTAKE, AND RELIEF AIR DAMPERS SHALL OPEN TO MINIMUM POSITION THE RETURN DAMPER SHALL OPEN TO THE MAXIMUM POSITION.

SINGLE ZONE SYSTEMS - A SPACE TEMPERATURE SENSOR SHALL BE ARRANGED TO MODULATE THE DX COIL CAPACITY TO MAINTAIN A SPACE TEMPERATURE. SET THE DISCHARGE TEMPERATURE AT 56°F TO 60°F RANGE (ADJUSTABLE). THE FAN SPEED SHALL BE RESET TO MODULATE WITH SPACE LOAD BASED ON A COMPARISON OF RETURN TEMPERATURE. UPON A DROP-IN SPACE LOAD, (EITHER HEATING OR COOLING) THE FAN SPEED SHALL BE RESET LOWER. FAN SPEED SHALL BE REDUCED NO LOWER THAN 75%, (OR AS LIMITED BY THE MANUFACTURE). PROVIDE FREEZE STAT ON THE COOLING COIL TO OVERRIDE FAN SPEED REDUCTION.

WINTER OPERATION: UPON START UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. THE SUPPLY FAN AND SPILL FAN AND RETURN FANS, SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR INTAKE, AND RELIEF AIR DAMPERS SHALL OPEN TO MINIMUM POSITION THE RETURN DAMPER SHALL OPEN TO THE MAXIMUM POSITION.

SINGLE ZONE SYSTEMS - A SPACE TEMPERATURE SENSOR SHALL BE ARRANGED TO MODULATE THE HEATING CAPACITY TO MAINTAIN A SPACE TEMPERATURE. SET THE DISCHARGE TEMPERATURE MAXIMUM AT 110°F (ADJUSTABLE).

ECONOMIZER OPERATION: ON A CALL FOR COOLING WHEN OUTDOOR AIR CONDITIONS PERMIT, (56˚F ADJUSTABLE) AND BELOW, ENTHALPY CONTROLLER SHALL MODULATE THE OUTSIDE AIR INTAKE, EXHAUST AND RETURN AIR DAMPERS, TO MAINTAIN SA TEMP SET POINT. OVERRIDE DCV AS REQUIRED. HEATING FURNACE SHALL BE DISABLED. CONTROL ACTION SHALL BE THAT AN INCREASE IN SA TEMPERATURE WILL CAUSE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS TO MODULATE TOWARDS THE OPEN POSITION AND THE RETURN AIR DAMPER TO MODULATE TOWARDS THE CLOSED POSITION. A DROP IN BELOW SET POINT TEMPERATURE WILL CAUSE THE REVERSE TO TAKE PLACE. WHEN THE OUTDOOR AIR DAMPER REACHES THE FULLY OPEN POSITION A FURTHER CALL FOR COOLING SHALL CAUSE DX SYSTEM TO OPERATE. WHEN AMBIENT CONDITIONS ARE NO LONGER SUITABLE FOR ECONOMIZER OPERATION THE UNIT CONTROLS SHALL REVERT TO NORMAL SUMMER OPERATION. THE SPILL FAN SHALL RUN CONTINUOUSLY.

MORNING WARM-UP OPERATION: UNITS SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLERS. DURING THIS CYCLE, OUTSIDE INTAKE AND EXHAUST AIR DAMPERS SHALL REMAIN CLOSED, AND RETURN AIR DAMPER SHALL BE FULL OPEN. THE GAS-FIRED HEATING FURNACE SHALL MODULATE TO MAINTAIN SET POINT (ADJUSTABLE). WHEN THE ZONE TEMPERATURE(S) COMES TO WITHIN 2 DEGREES OF SET POINT, THE UNIT SHALL OPERATE IN OCCUPIED MODE.

MORNING COOL-DOWN OPERATION: UNIT SHALL START AND OPERATE FOR A PREDETERMINED PERIOD AS PROGRAMMED INTO THE UNIT CONTROLLERS. THE UNIT SHALL OPERATE IN ECONOMIZER MODE IF OUTDOOR AIR CONDITIONS ALLOW IT. DURING THIS CYCLE, OUTSIDE INTAKE AND SPILL AIR DAMPERS SHALL REMAIN CLOSED, AND RETURN AIR DAMPER SHALL REMAIN OPEN. THE DX COOLING COIL SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (ADJUSTABLE). WHEN THE ZONE TEMPERATURE COMES TO WITHIN 2 DEGREES OF SET POINT THE UNIT SHALL OPERATE IN OCCUPIED MODE.

UNOCCUPIED OPERATION: UNIT SUPPLY/RETURN FANS AND GAS-FIRED HEATING FURNACE AND DX COOLING SHALL CYCLE ON A CALL FOR COOLING OR HEATING. DURING THIS CYCLE, THE UNIT SHALL OPERATE WITH 100% RE-CIRCULATED AIR. UNIT CONTROLS SHALL ALLOW COMPLETE SHUTDOWN IF DESIRED. SET POINT SHALL BE 68˚F (ADJUSTABLE) IN THE HEATING SEASON AND 85˚F (ADJUSTABLE) IN THE COOLING SEASON.

ENERGY RECOVERY WHEEL: ENERGY RECOVERY WHEEL SHALL OPERATE AND BE CONTROLLED VIA UNITARY CONTROLLER.

LIMIT CONTROLS: PROVIDE A HIGH/LOW LIMIT CONTROL(S) IN THE SUPPLY FAN DISCHARGE ARRANGED TO OVERRIDE TEMPERATURE CONTROLS AND PREVENT DISCHARGE TEMPERATURE FROM DROPPING BELOW 50°F AND RISING ABOVE 110°F(ADJUSTABLE). PROVIDE LIMIT CONTROL ON FAN SPEED FOR CV UNITS TO LIMIT SPEED REDUCTION TO 75% OF AIR FLOW.

FREEZESTAT: PROVIDE EACH RTU WITH A MANUAL RESET TYPE FREEZE STAT, (SET AT 35°F ADJUSTABLE),ARRANGED TO SHUT DOWN THE UNIT AND SOUND AN AUDIO AND VISUAL ALARM AT THE BMS OPERATOR STATION SHOULD THE SET POINT BE REACHED. THE FREEZE STAT ELEMENT SHALL BE THE CAPILLARY TYPE WITH LOWEST POINT TEMPERATURE SENSING. IT SHALL BE RESETTABLE FROM THE BMS.

DEMAND CONTROLLED VENTILATION: FURNISH COMBINATION SPACE TEMPERATURE/CO2 SENSORS FOR WHERE SHOWN ON PLANS. FURNISH ONE CO2 SENSOR LOCATED OUTDOORS ON THE ROOF. THE OUTDOOR AIR CO2 SENSOR SHALL BE USED TO ESTABLISH A BASE LINE FOR OUTDOOR CO2 LEVELS, APPROXIMATELY 400 PPM. THE CO2 SENSORS IN EACH SPACE SHALL HAVE A SET POINT NO GREATER THAN 400 PPM ABOVE THE BASE LINE, APPROXIMATELY 800 PPM. THE AIR-HANDLING UNIT'S UNITARY CONTROL PANEL SHALL CALCULATE OUTSIDE AIR INTAKE DAMPER POSITIONING IN RESPONSE TO SPACE CO2 LEVELS. CONTROL ACTION SHALL BE THAT WHEN THE SPACE CO2 LEVEL RISES TO WITHIN 100 PPM OF SET POINT, THE OUTSIDE AIR INTAKE AND SPILL DAMPERS SHALL MODULATE TOWARD OPEN AND THE RA DAMPER SHALL MODULATE TOWARD CLOSED. UPON A DROP IN SPACE CO2 LEVELS BELOW SET POINT, THE OPPOSITE SHALL TAKE PLACE.

THE OUTSIDE AIR INTAKE DAMPERS NORMAL MINIMUM POSITIONS SHALL BE 20% OF THE DESIGN OUTSIDE AIR RATE, OR SHALL BE ESTABLISHED BASED ON THE SCHEDULES CONTAINED ON THE PLANS, WHICHEVER IS HIGHER. WHEN OPERATING IN DEMAND-CONTROLLED VENTILATION MODE (NORMAL OCCUPIED MODE) THE OUTSIDE AIR DAMPER POSITION MAY BE RESET ACCORDING DEMAND WITH THE ABOVE LOWER LIMIT.

PRE-OCCUPANCY PURGE: SHALL BE AUTOMATICALLY INITIATED BY THE UNITARY CONTROLLER. FOR A PERIOD OF 30 MINUTES PRIOR TO SCHEDULED OCCUPIED HOURS, THE UNIT SHALL OPERATE UNDER OCCUPIED MODE AT THE FULL OCCUPIED OUTDOOR AIR RATE. AFTER THE 30 MINUTE PURGE CYCLE THE UNIT SHALL RUN UNDER DEMAND CONTROLLED VENTILATION MODE.

POST-OCCUPANCY FLUSH: PRIOR TO ENTERING UNOCCUPIED MODE AFTER SCHEDULED OCCUPIED HOURS HAVE ELAPSED, THE UNIT SHALL RUN WITH THE OUTSIDE AIR DAMPER OPEN AT MINIMUM POSITION UNTIL SPACE CO2 CONCENTRATIONS ARE EQUAL TO OUTDOOR AIR CO2 CONCENTRATIONS. WHEN THE CO2 CONCENTRATIONS MATCH, THE UNIT SHALL RUN IN UNOCCUPIED MODE.

PURGE CYCLE: SHALL BE INITIATED MANUALLY AT THE UNITARY CONTROLLER PANEL. DURING THIS CYCLE THE SUPPLY FAN AND EXHAUST FAN SHALL OPERATE AT 100% CAPACITY. THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE FULLY OPENED. THE RETURN AIR DAMPER SHALL BE CLOSED.

HOT GAS REHEAT

PROVIDE HOT GAS REHEAT CONTROLS BASED ON SPACE RH FOR SINGLE ZONE SYSTEMS. RH SET POINT SHALL BE IN THE RANGE OF 50%-55% (ADJUSTABLE). IF ZONE TEMPERATURE SET POINT IS MET, OR SA SET POINT IS MET AND THE RH IS ABOVE SET POINT, THE UNITS SHALL BE ARRANGED TO PROVIDE SUB COOLING OF SA AND ENERGIZE HOT GAS REHEAT TO REHEAT THE SA TO MAINTAIN SPACE OR SA SET POINT.

MISCELLANEOUS: WHENEVER UNITS ARE SHUTDOWN THE OUTSIDE AIR INTAKE, RETURN AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED. THE POWER EXHAUST FAN SHALL BE ENERGIZED BY A SPACE STATIC PRESSURE SENSOR SET AT +.1". THE FAN SHALL BE ARRANGED TO CYCLE WHEN STATIC PRESSURE INCREASES ABOVE SET POINT.

SYSTEMS OVER 2,000 CFM SHALL SHUTDOWN UPON DETECTION OF SMOKE. RETURN DUCT MOUNTED SMOKE DETECTION DEVICES SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO MOUNT THE HEADS IN THE DUCTWORK. PROVIDE INFORMATION REGARDING DUCT SIZES AND LOCATIONS TO THE ELECTRICAL CONTRACTOR. ACTION SHALL BE WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, THE AC UNIT SHALL SHUT DOWN.

ALARMS SHALL BE PROVIDED AT THE HVAC UNIT CONTROL PANEL FOR SYSTEM FAILURES AND SHUTDOWNS.

M-3 SUPPLEMENTAL HEATING UNIT:

THE UNIT SHALL BE SUPPLIED WITH, AND OPERATED THROUGH A UNIT MOUNTED DDC UNITARY CONTROL PANEL, CAPABLE OF PROVIDING SET-POINT ADJUSTMENTS AND ALL PROGRAMMING CONTROL SEQUENCES.

THE CONTROLLER SHALL BE PROVIDED WITH ABILITY TO INTEGRATE WITH A FUTURE BMS SYSTEM. CONTROLS SHALL INCLUDE ALL MOTORIZED DAMPERS, DAMPER MOTORS, MOTOR STARTERS, WIRING, FANS AND SENSORS AND ALL HARDWARE ACCESSORIES FOR A COMPLETE SYSTEM. FURNISH WALL MOUNTED DIGITAL PROGRAMMABLE THERMOSTAT WITH SCHEDULING AND TEMPERATURE ADJUSTMENTS.

UNITS OFF: THE OUTSIDE AIR INTAKE DAMPERS SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULL OPEN. SUPPLY AND RETURN FANS SHALL BE STOPPED

WINTER OPERATION: UPON START UP, THE CONTROL CIRCUITS SHALL BE ENERGIZED. THE SUPPLY FAN AND SPILL FAN AND RETURN FANS, SHALL RUN CONTINUOUSLY. THE OUTSIDE AIR INTAKE, AND RELIEF AIR DAMPERS SHALL OPEN TO MINIMUM POSITION THE RETURN DAMPER SHALL OPEN TO THE MAXIMUM POSITION.

SINGLE ZONE SYSTEMS - A SPACE TEMPERATURE SENSOR SHALL BE ARRANGED TO MODULATE THE HEATING CAPACITY TO MAINTAIN A SPACE TEMPERATURE. SET THE DISCHARGE TEMPERATURE MAXIMUM AT 110°F (ADJUSTABLE).

SYSTEMS OVER 2,000 CFM SHALL SHUTDOWN UPON DETECTION OF SMOKE. RETURN DUCT MOUNTED SMOKE DETECTION DEVICES SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO MOUNT THE HEADS IN THE DUCTWORK. PROVIDE INFORMATION REGARDING DUCT SIZES AND LOCATIONS TO THE ELECTRICAL CONTRACTOR. ACTION SHALL BE WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, THE AC UNIT SHALL SHUT DOWN.

ALARMS SHALL BE PROVIDED AT THE HVAC UNIT CONTROL PANEL FOR SYSTEM FAILURES AND SHUTDOWNS.

M-4 SPLIT SYSTEM AC & HP UNITS:

EACH UNIT SHALL BE SUPPLIED WITH, AND OPERATED THROUGH A WALL MOUNTED UNITARY CONTROL PANEL, CAPABLE OF PROVIDING SET-POINT ADJUSTMENTS AND ALL PROGRAMMING CONTROL SEQUENCES. SPACE TEMPERATURE SHALL BE PROVIDED BY LOCAL DIGITAL PROGRAMMABLE THERMOSTAT.

UPON START UP, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE CONTROL CIRCUITS ENERGIZED DURING THE PROGRAMMED OCCUPIED PERIODS. THE COMPRESSOR/ CONDENSING UNIT WILL CYCLE TO MAINTAIN THE SPACE TEMPERATURES SET-POINT. UPON A RISE IN SPACE TEMPERATURE DURING UNOCCUPIED PERIODS THE UNIT WILL CYCLE ON TO MAINTAIN AN UNOCCUPIED SPACE TEMPERATURE SET-POINT. A RISE IN SPACE TEMPERATURE ABOVE THE MAXIMUM ALLOWABLE TEMPERATURE (75°F ADJUSTABLE) SHALL GENERATE A LOCAL ALARM AT THE MAIN CIRCULATION DESK.

M-5 TERMINAL UNIT OPERATING SEQUENCE:

UNIT HEATER, ELECTRIC: PROVIDE SPACE TEMPERATURE SENSOR ARRANGED TO ENERGIZE UNIT HEATER FAN AND ELECTRIC HEATING ELEMENT WHEN SPACE TEMPERATURE FALLS BELOW SET-POINT (55°F ADJUSTABLE). PROVIDE LOCAL DIGITAL THERMOSTAT.

M-6 TX FANS:

PROVIDE TIME CLOCK FOR EACH TOILET EXHAUST FAN. TOILET EXHAUST FANS SHALL RUN & ASSOCIATED MOTORIZED DAMPER SHALL OPEN DURING THE OCCUPIED PERIODS AS PROGRAMMED THROUGH TIME CLOCK. TOILET FAN SHALL NOT ENERGIZE UNTIL ASSOCIATED EXHAUST AIR MOTORIZED DAMPER IS PROVEN OPEN.

MECHANICAL PIPE MATERIAL SCHEDULE

PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
HOT WATER / GLYCOL	≤ 2	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	WROUGHT COPPER BRAZED JOINT	ANSI 16.18
	> 2	BLACK STEEL	ERW/SCH. 40	ASTM A53 GRADE B	STEEL	WELDED/SCH. 40	ANSI 16.9
CONDENSATE DRAIN	ALL	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	WROUGHT COPPER SOLDER JOINT	ANSI 16.18
REFRIGERANT	ALL	COPPER	HARD TEMPER TYPE K (ACR)	ASTM 280	COPPER	SILVER SOLDER 300PSI	ANSI B16.22
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
–	AC-	AIR CONDITIONING UNIT
–	AD	ACCESS DOOR
–	AFF	ABOVE FINISHED FLOOR
–	AHC	ABOVE HUNG CEILING
–	AP	ACCESS PANEL
–	BHP	BRAKE HORSEPOWER
–	BTU	BRITISH THERMAL UNIT
–	CFM	CUBIC FEET PER MINUTE
–	COD	CABLE OPERATED DAMPER
–	DB	DRY BULB TEMPERATURE
–	DIA. OR Ø	DIAMETER
–	DX	DIRECT EXPANSION
–	EA	EXHAUST AIR
–	EAT	ENTERING AIR TEMPERATURE
–	ER	EXHAUST REGISTER
–	ESP	EXTERNAL STATIC PRESSURE
–	EWT	ENTERING WATER TEMPERATURE
–	FCU	FAN COIL UNIT
–	FPM	FEET PER MINUTE
–	FPS	FEET PER SECOND
–	GPM	GALLONS PER MINUTE
–	HP	HORSE POWER
–	LAT	LEAVING AIR TEMPERATURE
–	LF	LINEAR FEET
–	LWT	LEAVING WATER TEMPERATURE
–	MBH	1000 BRITISH THERMAL UNITS PER HOUR
–	MER	MECHANICAL EQUIPMENT ROOM
–	NIC	NOT IN CONTRACT
–	OAI	OUTSIDE AIR INTAKE
–	PSI	POUNDS PER SQUARE INCH
–	RA	RETURN AIR
–	RF-	RETURN FAN
	RL	REFRIGERANT LIQUID
–	RPM	REVOLUTIONS PER MINUTE
	RS	REFRIGERANT SUCTION
–	SA	SUPPLY AIR
–	SP	STATIC PRESSURE
–	TD	TRANSFER DUCT
–	TF-	TRANSFER FAN
–	TSP	TOTAL STATIC PRESSURE
–	TYP.	TYPICAL
–	U.O.N.	UNLESS OTHERWISE NOTED
–	WB	WET BULB TEMPERATURE
–	WG	INCHES OF WATER GAUGE
	EX.	EXISTING TO REMAIN
– – – – –	REL.	REMOVE AND RELOCATE
	NEW	NEW WORK
– – – – –	DEM.	EXISTING TO BE REMOVED
T	-	THERMOSTAT
	-	AIR INTO REGISTER
	-	POINT OF CONNECTION DISCONNECTION
	SR	SUPPLY REGISTER
	CD	1-WAY
CD		2-WAY
CD		2-WAY
CD		3-WAY
CD		4-WAY
RR/RG/ER		RETURN REGISTER/GRILLE/EXHAUST REGISTER
	-	SUPPLY DUCT UP
	-	SUPPLY DUCT DOWN
	–	DUCT RISE
	–	DUCT DROP
	–	DUCT TRANSITION
	–	ALUMINUM DUCT
	AL	ACOUSTIC LINING
	FD/AD	FIRE DAMPER W/ ACCESS DOOR
	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
	VD	VOLUME DAMPER
	AL	ACOUSTIC LINING
6x8		DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
	FC	FLEXIBLE CONNECTION
	–	ALUMINUM DUCT
ER CFM	–	EXHAUST REGISTER

SYMBOL	ABBREVIATION	DESCRIPTION
CD–A CFM	–	NEW CEILING DIFFUSER
	–	RETURN DUCT UP
	–	RETURN DUCT DOWN / TRANSITION FROM SQUARE TO ROUND DUCT
	–	
	–	TRANSITION
D	–	DUCT DROP
R	–	DUCT RISE
	–	SQUARE VANED ELBOW

GENERAL NOTES

1. CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
4. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
5. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS.
6. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, HEAT SOURCES, CABINETS, ETC. & WITH ARCHITECTURAL DRAWINGS.
7. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
8. THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
9. PROVIDE ISOLATION VALVES ON ALL MAIN PIPING BRANCHES AND AT ALL PIECES OF EQUIPMENT.
10. PROVIDE CABLE OPERATED DAMPERS ON DUCTWORK ABOVE DRYWALL CEILINGS.
11. ALL RETURN DUCTWORK TERMINATIONS ABOVE HUNG CEILING TO HAVE ½"WMS.
12. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
13. ALL WORK SHALL COMPLY WITH 2020 NEW YORK STATE BUILDING CODE, LOCAL BUILDING CODE, 2020 NEW YORK AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
14. DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.
15. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
16. THE OWNER'S PERMANENT HVAC EQUIPMENT (EXISTING / NEW) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, VENTILATION, OR ANY OTHER PURPOSE. IF TEMPORARY HEATING, COOLING, VENTILATION, OR AIRFLOW IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT THEIR OWN EXPENSE.
17. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
18. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
19. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.
20. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF ALL EXISTING SUPPLY AIR DUCTWORK WITHIN THE PROJECT AREA.
21. ALL HVAC CONTROL WIRING SHALL BE RUN IN EMT.
22. ALL EQUIPMENT, MATERIALS, PRODUCTS, ETC., USED/INSTALLED ABOVE THE CEILING SHALL BE PLENUM RATED.
23. PRIOR TO ANY DEMOLITION WORK OF MECHANICAL INFRASTRUCTURE, THE MECHANICAL CONTRACTOR SHALL TRACE AND VERIFY ALL SERVICES THAT WILL BE IMPACTED.
24. PRIOR TO ANY DEMOLITION WORK, THE CONTRACTOR SHALL TAKE PRE-DEMOLITION CFM AND WATER READINGS OF ALL EXISTING AIR AND HYDRONIC SYSTEMS AND EQUIPMENT BEING MODIFIED AS PART OF THIS PROJECT TO GUARANTEE INITIAL PRE-CONSTRUCTION CONDITIONS ARE RESTORED AT THE COMPLETION OF THE PROJECT.
25. PROVIDE BRAIDED STEEL IN-LINE PIPE EXPANSION COMPENSATORS IN ALL PIPE THAT CROSSES BUILDING EXPANSION JOINTS. FOR DUCTWORK, PROVIDE A 4" FLEXIBLE CONNECTION AT BUILDING EXPANSION JOINTS; EXCEPT FOR FUME HOOD EXHAUST DUCTWORK.
26. COORDINATE EQUIPMENT INSTALLATION PATHWAYS WITH CONSTRUCTION MANAGER. RIGGING OF NEW AHU AND EXHAUST FANS AT THE ROOF WILL REQUIRE WORK TO BE CONDUCTED AFTER NORMAL WORKING HOURS WHEN THE BUILDING IS UNOCCUPIED.

SCOPE OF WORK NOTES

1. PRE-DEMOLITION BALANCING READINGS: PROVIDE DUCT TRAVERSE READINGS AT EACH RTU SUPPLY/RETURN DUCT CONNECTIONS AND CFM READINGS AT ALL AIR OUTLETS/INLETS THROUGHOUT THE BUILDING PRIOR TO DEMOLITION WORK. DOCUMENT FLOW-RATES AT ALL VAV HW REHEAT COILS AND FTR ELEMENTS THROUGHOUT. DOCUMENT DATA AND PROVIDE TO ENGINEER FOR RECORD AND REVIEW.
2. RTU-1, RTU-2, RTU-3, RTU-4, & RTU-5: REMOVE EXISTING ECONOMIZER CONTROLS AND ASSOCIATED SENSORS. PROVIDE NEW ECONOMIZER CONTROL AND SENSORS FOR ENTHALPY BASED ECONOMIZER CONTROL/OPERATION OF EACH UNIT.
3. RTU-1, RTU-2, RTU-3, RTU-4, & RTU-5: THOROUGHLY VACUUM, CLEAN, AND SANITIZE INTERIOR OF ALL RTU'S INCLUDING, BUT NOT LIMITED TO, ENCLOSURE, MOTORS, DX AND HOT WATER COILS, FANS, DAMPERS. CLEAN/POWERWASH THE AIR-COOLED CONDENSER SECTIONS. CLEAN/VACUUM ALL LOUVERS AND SCREENS ON UNITS.
4. RTU-1, RTU-2, RTU-3, & RTU-4: PROVIDE NEW FILTERS TO MATCH EXISTING FILTER RATINGS AND REPLACE ALL MOTOR/FAN BELTS. INSPECT SHEAVES/PULLEYS FOR SATISFACTORY CONDITION.
5. RTU-5: PROVIDE NEW FILTERS TO MATCH EXISTING FILTER RATINGS. PROVIDE NEW SHEAVE/PULLEY TO PROVIDE PROPER OPERATION, RPM, AND AIRFLOW THROUGH UNIT AS PER SCHEDULE ON M-601.
6. BIPOLAR IONIZATION: PROVIDE PLASMA AIR NEEDLEPOINT BI-POLAR IONIZERS, RETROFITTED ONTO ALL EXISTING RTU'S (RTU-1, RTU-2, RTU-3, RTU-4, & RTU-5). BASED ON MODEL 7403, UL2998. MODULES POWERED BY 1-POLE 20-AMP CIRCUITS. BPI MODULES SHALL BE INSTALLED ON EXISTING RTU SUPPLY AIR DISCHARGE MAINS, UPSTREAM OF ALL BRANCH TAPS. INTERLOCK BPI MODULES WITH SUPPLY FAN AIR-FLOW SWITCH.
7. HVAC CONTROLS: DEMOLISH ALL EXISTING THERMOSTATS AND ASSOCIATED LOCAL CONTROLS THROUGHOUT THE BUILDING, INCLUDING STAND-ALONE CONTROLS AT EACH PIECE OF EQUIPMENT. NEW WORK - PROVIDE NEW DIGITAL PROGRAMMABLE ELECTRONIC (BACKLIT) THERMOSTATS AND CONTROLLERS THROUGHOUT THE BUILDING FOR EACH RTU, VAV ZONE, AND HEATING ZONE.

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ISSUES AND REVISIONS

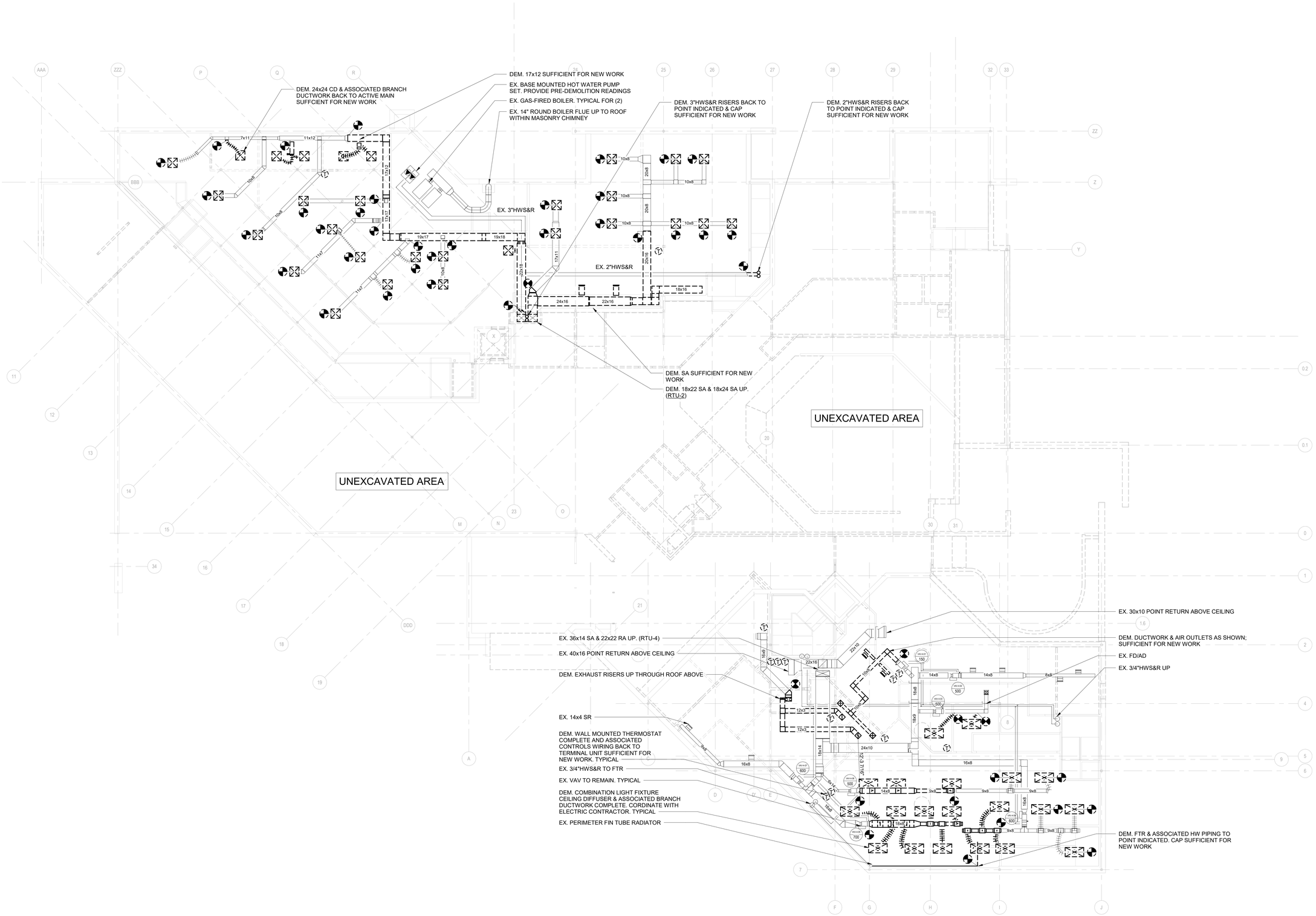
NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL SYMBOLS, ABBREVIATIONS AND NOTES

M-001

CONSTRUCTION DOCUMENTS

01.14.2022



NORTH

1 MECHANICAL LOWER LEVEL DEMOLITION PLAN

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

NOTES:
1. PROVIDE PRE-DEMOLITION CFM READINGS AT ALL AIR OUTLETS THROUGHOUT THE BUILDING WHETHER SHOWN OR NOT. REPORT FINDINGS TO ENGINEER FOR REVIEW.

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL LOWER LEVEL DEMOLITION PLAN

M-101

CONSTRUCTION DOCUMENTS
01.14.2022

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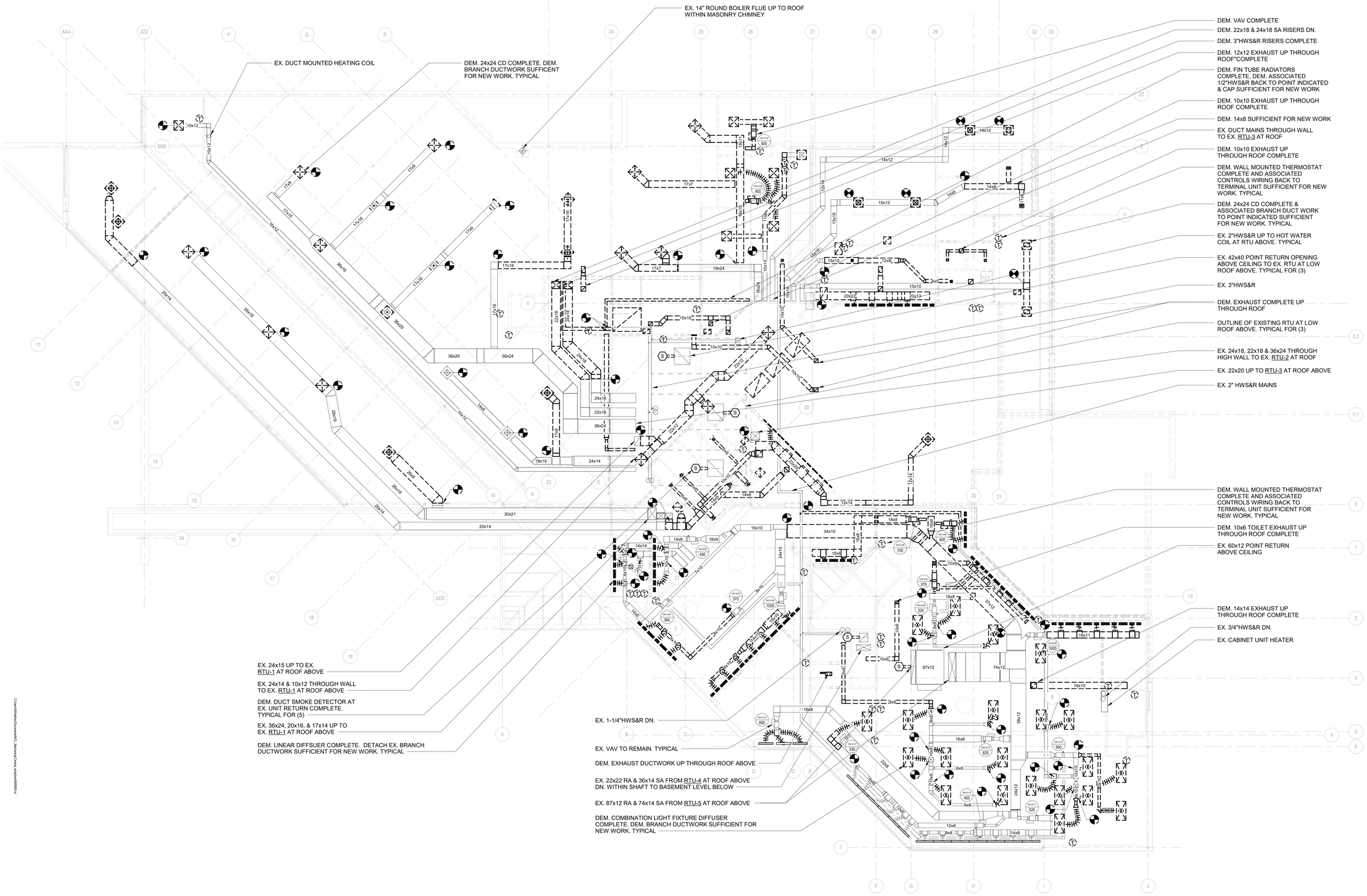

NORTH

1 MECHANICAL MAIN LEVEL DEMOLITION PLAN

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

NOTES:
1. PROVIDE PRE-DEMOLITION CFM READINGS AT ALL AIR OUTLETS THROUGHOUT THE BUILDING WHETHER SHOWN OR NOT. REPORT FINDINGS TO ENGINEER FOR REVIEW.

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL MAIN LEVEL DEMOLITION PLAN

M-102

CONSTRUCTION DOCUMENTS
01.14.2022

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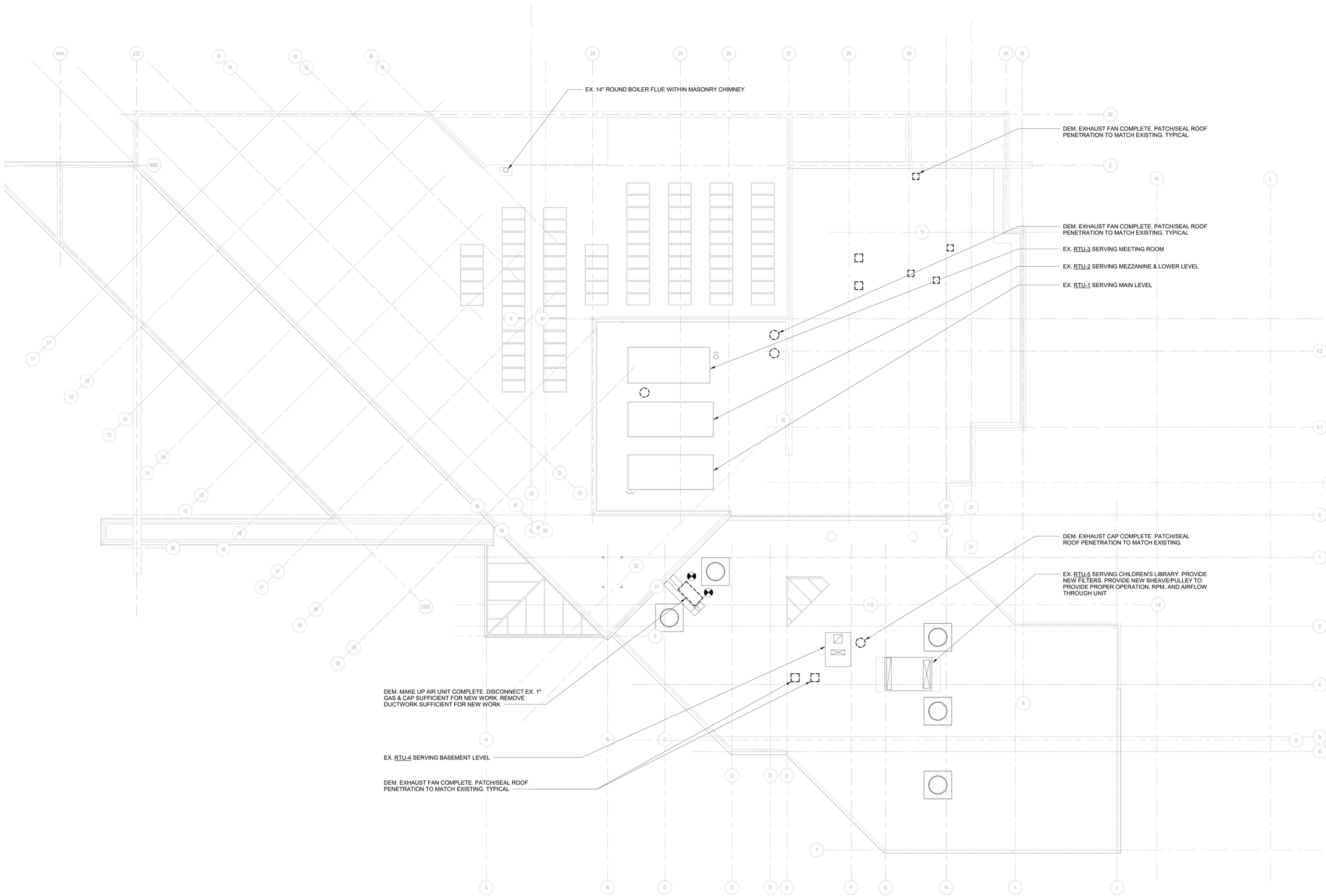

NORTH

1 MECHANICAL ROOF DEMOLITION PLAN

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

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2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL ROOF DEMOLITION PLAN

M-103

CONSTRUCTION DOCUMENTS

01.14.2022

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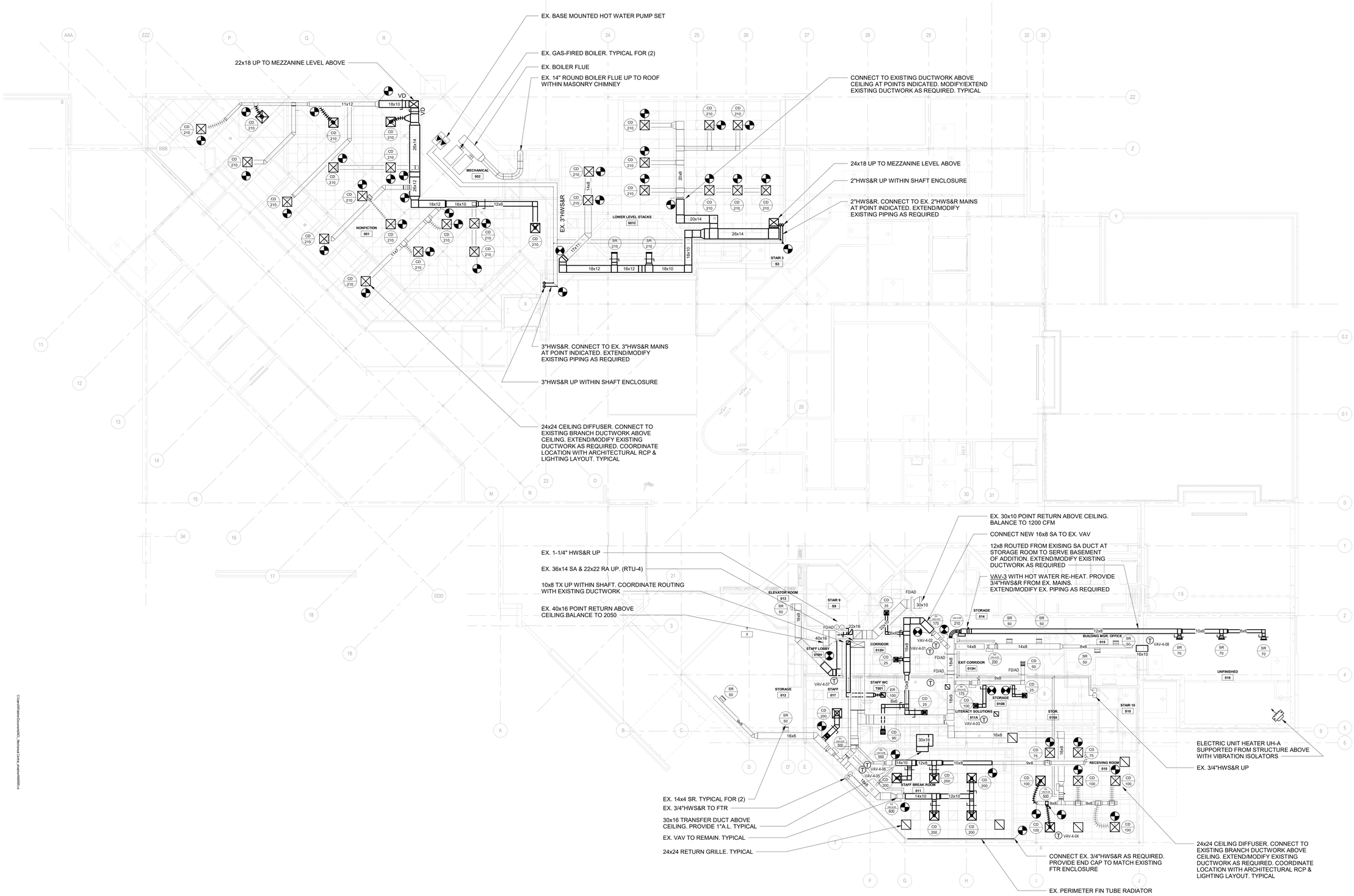

NORTH

1 MECHANICAL LOWER LEVEL NEW WORK PLAN

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

NOTES:
1. COMPLETELY VACUUM & CLEAN INTERIOR/EXTERIOR OF EXISTING DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, VAV'S, WMS, ETC. WITHIN AREAS OF WORK.
2. PROVIDE VOLUME DAMPERS AT NEW & EXISTING DUCTWORK AS REQUIRED FOR PROPER BALANCING OF THE SYSTEM. MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED.
3. BALANCE ALL AIR TERMINALS THROUGHOUT LIBRARY TO VALUES RECORDED DURING THE PRE CONSTRUCTION T&B REPORT OR AS REVISED BY THE ENGINEER ON THIS PLAN.
4. ALL NEW AIR OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL RCP & LIGHTING LAYOUT.

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ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07.09.2021
2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL LOWER LEVEL NEW WORK PLAN

M-201

CONSTRUCTION DOCUMENTS
01.14.2022

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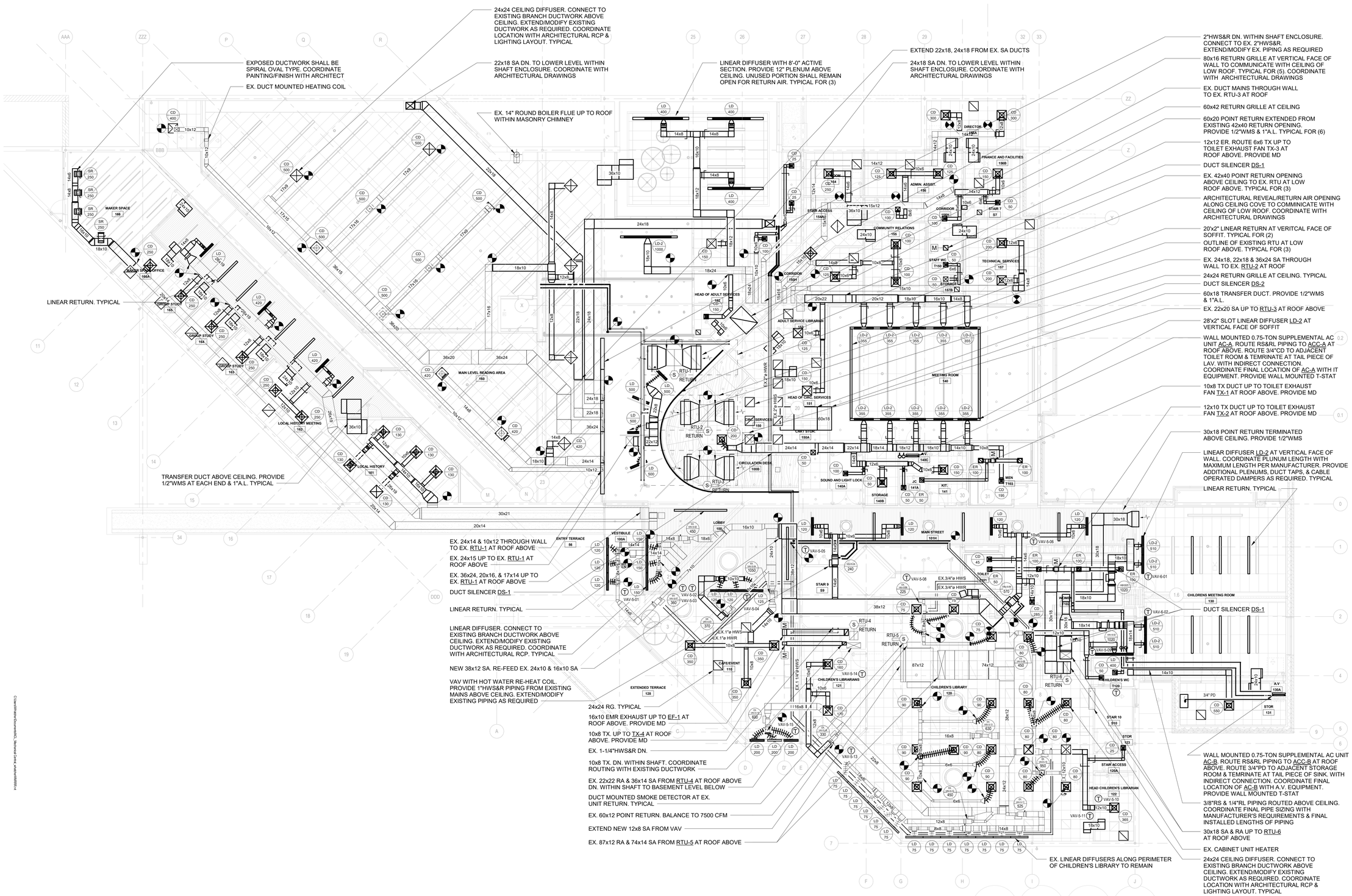

MECHANICAL MAIN LEVEL NEW WORK PLAN

NORTH

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

NOTES:
1. COMPLETELY VACUUM & CLEAN INTERIOR/EXTERIOR OF EXISTING DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, VAV'S, WMS, ETC. WITHIN AREAS OF WORK.
2. PROVIDE VOLUME DAMPERS AT NEW & EXISTING DUCTWORK AS REQUIRED FOR PROPER BALANCING OF THE SYSTEM. MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED.
3. BALANCE ALL AIR TERMINALS THROUGHOUT LIBRARY TO VALUES RECORDED DURING THE PRE CONSTRUCTION T&B REMORT OR AS REVISED BY THE ENGINEER.
4. ALL NEW AIR OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL RCP & LIGHTING LAYOUT.

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OLA Project Number: NVMD0001.00

New City Library

New City Library Addition & Renovation

220 N Main St, New City, NY 10956

STATE OF NEW YORK · BARBARA JILL WALSH · 075260 · LICENSED PROFESSIONAL ENGINEER

Checked By RG

Drawn By AMB

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07.09.2021
2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL MAIN LEVEL NEW WORK PLAN

M-202

CONSTRUCTION DOCUMENTS
01.14.2022

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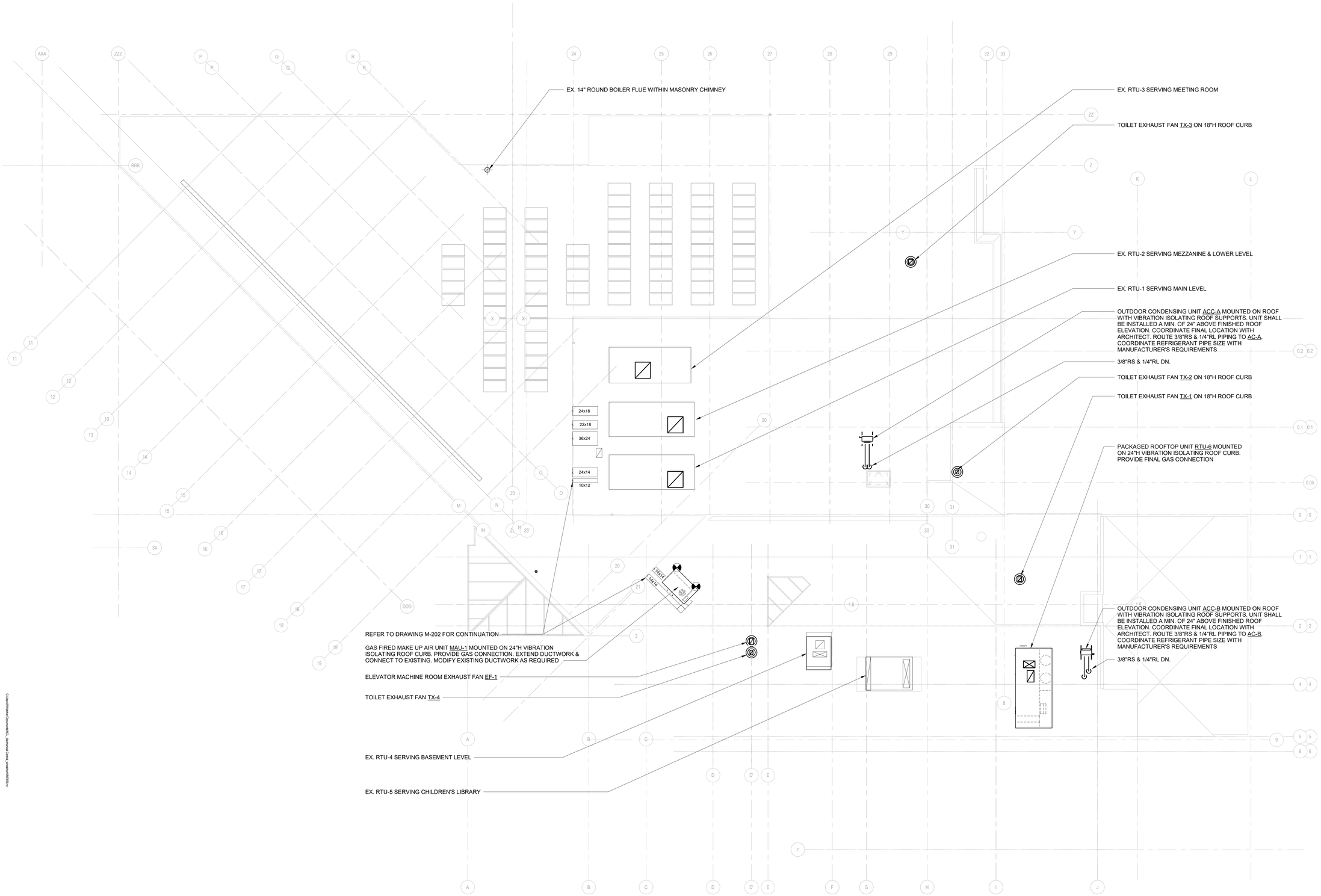

NORTH

1 MECHANICAL ROOF NEW WORK PLAN

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

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New City Library

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220 N Main St, New City, NY 10956

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Checked By RG

Drawn By AMB

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07.09.2021
2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL ROOF NEW WORK PLAN

M-203

CONSTRUCTION DOCUMENTS
01.14.2022

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EXISTING VARIABLE AIR VOLUME BOX SCHEDULE

TAG	CFM	SIZE	ASSOCIATED RTU
BASEMENT LEVEL			
VAV-4-01	150	05	4
VAV-4-02	500	07	4
VAV-4-03	200	05	4
VAV-4-04	600	08	4
VAV-4-05	700	08	4
VAV-4-06	500	07	4
VAV-4-07	600	08	4
MAIN LEVEL			
VAV-3-19 (DEMOLISHED)	-	-	-
VAV-3-20 (DEMOLISHED)	-	-	-
VAV-5-01	360	06	5
VAV-5-02	450	06	5
VAV-5-03	370	06	5
VAV-5-04	1050	12	5
VAV-5-05 (DEMOLISHED)	-	-	-
VAV-5-06 (DEMOLISHED)	-	-	-
VAV-5-07 (DEMOLISHED)	-	-	-
VAV-5-08	225	04	5
VAV-5-09	1000	12	5
VAV-5-10	950	12	5
VAV-5-11	525	05	5
VAV-5-12	450	06	5
VAV-5-13	630	08	5
VAV-5-14	330	06	5
VAV-5-15	600	08	5

PACKAGED ROOFTOP UNIT RTU-6 SCHEDULE

Unit Information

Model:	**Horizon™ (OAD/N Rev6 - OADG/OANG)**	Unit Length:	**219** in	Weight Operating:	**4018** lb*
Size:	**D015**	Unit Width:	**95** in	***Note: Weight does not include CURB weight. See CURB submittal for actual***	
Quantity:	**1**	Unit Height:	**68** in	**Refrigerant Charge**	
Supply Airflow:	**3,000** CFM	Elevation:	**0** ft	Circuit 1:	**32.5** lbs
Outside Airflow:	**1,270** CFM	Ambient Air DB:	**95** F		
Minimum Airflow:	**1,292** CFM				

Cooling Performance

Gross Total Capacity:	**169.2** MBh	Evaporator Face Area:	**10.42** sq ft
Gross Sensible Capacity:	**108.8** MBh	Evaporator Rows / FPI:	**6 / 14**
Net Total Capacity:	**164.5** MBh	Condenser Face Area:	**30** sq ft
Net Sensible Capacity:	**104.1** MBh	Condenser Rows / FPI :	**2 / 14**
Entering Air DB / WB (Coil):	**76.8 / 64.2** F	Air Velocity:	**287** fpm
Leaving Air DB / WB (Coil):	**43.9 / 43.4** F	Coil Air PD:	**0.36** in H2O
Leaving Air DB / WB (Reheat):	**81.4 / 59.56** F	EER:	**13.4**
Leaving Air DB / WB (Unit):	**83.1 / 60.2** F	Watts:	**14748**
MRC:	**96.47** lb/h	MRE:	**6.54** lb/kWh

Heating Performance

Heat Type:	**Gas Furnace**	Entering Air DB:	**63** F
Input Capacity	**150** MBh	Leaving Air DB:	**100** F
Output Capacity:	**120** MBh	Coil Air PD:	**0.39** in H2O

Energy Recovery Wheel ERC-3625C-4M

*** TAB Outside airflow through OA Intake to this value*

Summer Conditions				Winter Conditions			
Ventilation Supply		ERV	Outside	Ventilation Supply		ERV	Outside
Airflow:	**1,270** CFM		Airflow: **1,486** CFM**	Airflow:	**1,270** CFM		Airflow: **1,486** CFM**
DB:	**79.4** F		DB: **92.0** F	DB:	**53.5** F		DB: **10.0** F
WB:	**65.9** F		WB: **73.0** F	WB:	**47.3** F		WB: **8.0** F
PD:	**0.39** in H20			PD:	**0.39** in H20		
Return			Exhaust	Return			Exhaust
Airflow:	**1,270** CFM		Airflow: **1,486** CFM	Airflow:	**1,270** CFM		Airflow: **1,486** CFM
DB:	**75.0** F		DB: **85.8** F	DB:	**70.0** F		DB: **32.1** F
WB:	**63.0** F		WB: **69.5** F	WB:	**58.0** F		WB: **31.1** F
ESP:	**1.00** in H20		ERV PD: **0.39** in H20	ESP:	**1.00** in H20		ERV PD: **0.39** in H20
Total Capacity:	**32.61** MBH			Total Capacity:	**90.68** MBH		
Sensible Capacity:	**20.27** MBH		Eff. **0.74**	Sensible Capacity:	**69.83** MBH		Eff: **0.74**
Latent Capacity:	**12.34** MBH		Eff: **0.72**	Latent Capacity:	**20.85** MBH		Eff: **0.71**

ELECTRICAL DATA:	
VOLTS/Ø/Hz	208/3/60
FLA/MCA/MFS	73.0/79.2/100.0

NOTES:
UNIT MANUFACTURER SHALL BE BASED ON TRANE
1. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
· HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
· UNITS SHALL BE HIGH EFFICIENCY.
· 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
· OUTSIDE AIR INTAKE DAMPER FOR EACH VARIABLE AIR VOLUME UNIT SHALL BE ARRANGED MODULATE TO MAINTAIN CONSTANT OAI CFM, INDEPENDENT OF VARIABLE SA CFM. PROVIDE AN OUTSIDE AIR INTAKE AIRFLOW MEASURING STATION.
· FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
· UNIT SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION ROOF CURB.
· POWER EXHAUST FAN, ARRANGED TO RUN IN ECONOMIZER MODE, WITH BAROMETRIC RELIEF WHEN ECONOMIZER IS NOT ENABLED.
· UNIT MOUNTED COMBINATION VFD-STARTER/DISCONNECT WITH BY-PASS.
· PROVIDE MERV-13 FILTERS TO BE SHIPPED LOOSE AND FIELD INSTALLED AT RETURN AIR FILTER RACK.
· UNIT SHALL BE FURNISHED WITH FIN & TUBE MODULATING HOT GAS REHEAT.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
· UNITARY CONTROLLER BY UNIT CONTROLS MANUFACTURER.
· ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
· INDIVIDUAL EXTERNAL POWER CONNECTION AT UNIT FOR MAIN UNIT AND POWER EXHAUST FAN, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.

SUPPLEMENTAL HEATING UNIT SCHEDULE

DESIGNATION	MAU-1
LOCATION	ROOF
AREA SERVED	VESTIBULE
MANUFACTURER	GREENHECK
MODEL	IGX-108-H12-C
WEIGHT OF UNIT (LBS)	825 (+/-5%)
WEIGHT OF ROOF CURB (LBS)	122
UNIT ORIENTATION	HORIZONTAL
INTERLOCKED	–
DESIGN DATA:	
SUPPLY AIR (CFM)	800
OUTDOOR AIR (CFM)	800
SUMMER OA TEMP (°F) DB/WB	89.7/77.0
WINTER OA TEMP (°F)	12.8°
GAS-FIRED INDIRECT FURNACE:	
E.A.T./L.A.T. (°F)	13.0/105.4
GAS INPUT/OUTPUT (MBH)	100.0/80.0
SUPPLY FAN:	
DESIGN AIRFLOW (CFM)	800
BHP/HP	0.22/0.33
RPM	1014
ESP/TSP (IN H_2O)	0.5/0.543
ELECTRICAL DATA:	
VOLTS/Ø/Hz	115/1/60
MCA/MOCP	12/15

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
· 100% OUTSIDE AIR UNIT.
· INTAKE HOOD WITH BIRD SCREEN AND MOTORIZED DAMPER.
· INDIRECT GAS-FIRED FURNACE WITH 8:1 CONTROL MODULATION.
· HORIZONTAL DISCHARGE SUPPLY AIR OUTLET.
· UNIT SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION ROOF CURB. HEIGHT INCLUDES BASE CURB AND VIBRATION ISOLATION RAILS.)
· EXTRA DRIVE BELT AND FILTER SET.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
· SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, FACTORY INSTALLED UNIT-MOUNTED DISCONNECT SWITCH, & FACTORY INSTALLED MOTOR STARTERS.
· ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
· UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, CAPABLE OF INTEGRATION WITH FUTURE BUILDING AUTOMATION SYSTEM.

EQUIPMENT NOTES

1. MOTORIZED DAMPERS: SHALL BE LOW LEAKAGE TYPE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1ϕ/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.
2. BACK-DRAFT DAMPERS: SHALL BE RUSKIN MODEL BD6, HEAVY DUTY BACK-DRAFT DAMPER, EXTRUDED ALUMINUM FRAME & DAMPER. DAMPER SHALL HAVE PARALLEL BLADES. SIZE AS INDICATED ON PLAN. PROVIDE SPC STATIC PRESSURE CONTROL.
3. VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5020-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC2. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.
4. SIDEWALL SUPPLY AIR REGISTERS: SHALL BE BASED ON TITUS MODEL 300FL, ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
5. RETURN & EXHAUST AIR REGISTERS: SHALL BE BASED ON TITUS MODEL 355FL, 1/2" SPACING, 35° FIXED DEFLECTION, ALL ALUMINUM CONSTRUCTION, AIRFOIL BLADES WITH OPPOSED BLADE VOLUME DAMPERS, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL, COORDINATE COLOR/FINISH WITH ARCHITECT. PROVIDE COLOR CHART FOR REVIEW. FRAME SHALL BE SUITABLE FOR SURFACE MOUNT OR LAY IN. COORDINATE WITH ARCH PLANS.
6. ELECTRIC UNIT HEATER (UH-A): SHALL BE BASED ON MODINE MODEL HER-30C-3101, RATED AT 3kW, 380 CFM. 10.2 MBH, 208/3/60 WITH 25° TEMP. RISE & 12' THROW. PROVIDE THE FOLLOWING OPTIONS. FAN GAURD, AIR DEFLECTION LOUVER, SUMMER FAN SWITCH, HEAT PURGE FAN DELAY SWITCH, DISCONNECT SWITCH & WALL THERMOSTAT.
7. RETURN & EXHAUST AIR REGISTERS: SHALL BE TITUS MODEL 355FL, 1/2" SPACING, 35° FIXED DEFLECTION, ALL ALUMINUM CONSTRUCTION, AIRFOIL BLADES WITH OPPOSED BLADE VOLUME DAMPERS, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL, COLOR SHALL BE WHITE. FRAME SHALL BE SUITABLE FOR SURFACE MOUNT OR LAY IN. COORDINATE WITH ARCH PLANS.
8. ALL HVAC EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO EQUIPMENT. TYPICAL FOR ALL PUMPS AND HVAC EQUIPMENT
9. LINEAR DIFFUSERS AND LINEAR RETURNS, LD/LR, SHALL BE TITUS MODEL FL-10 HIGH-THROW WITH TITUS PLENUM, 1" SLOT WIDTH, 1 SLOT, 50 CFM/LF @ 0.136 STATIC PRESSURE, NC<25 AND 12-15-21 THROW AT 150-100-50 FPM VELOCITIES. LD-2 SHALL BE TITUS MODEL FL-10 HIGH-THROW WITH TITUS PLENUM, 1" SLOT WIDTH, 2 SLOT, 100 CFM/LF @ 0.113 STATIC PRESSURE, NC<26 AND 15-20-29 THROW AT 150-100-50 FPM VELOCITIES. FINISH SHALL BE A BAKED ANODIC ACRYLIC PAINT, COLOR AS SELECTED BY ARCHITECT. BORDER SHALL BE TYPE 22 (TAPE & SPACKLE). PROVIDE 1" THICK INSULATED PLENUM SIMILAR TO TITUS MODEL FBPI FOR EACH LENGTH OF LD AS SHOWN ON PLAN. REFER TO PLAN FOR ACTIVE SECTIONS AND TOTAL DIFFUSER LENGTHS. COORDINATE COLOR/FINISH WITH ARCHITECT. PROVIDE COLOR CHART FOR REVIEW.
10. REFRIGERANT PIPE INSULATION: SHALL BE AP ARMAFLEX PIPE INSULATION. 3/4" THICK UNSLIT, TO BE INSTALLED BEFORE FINAL CONNECTION. FIELD FABRICATE FITTING INSULATION WITH MITER-CUTS. ALL BUTT JOINTS AND SEAMS ARE TO BE SEALED WITH ARMSTRONG 520 ADHESIVE. ALL INSULATION INSTALLED OUTDOORS SHALL BE COATED WITH ARMSTRONG ARMAFLEX FINISH, AS PER THE MANUFACTURERS RECOMMENDATIONS.
11. PIPE INSULATION JACKETING: SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTING THAT ARE EXPOSED IN ANY ROOM.
12. PIPE LABELS: SHALL BE SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATION AND OPTI-CODE FOR INDOOR APPLICATION. LETTERS AND ARROWS SHALL BE 2 1/2" HIGH AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. APPLY OVER INSULATION ONLY.
13. BIPOLAR IONIZATION: PROVIDE PLASMA AIR NEEDLEPOINT BI-POLAR IONIZERS, RETROFITTED ONTO ALL EXISTING RTU'S (RTU-1, RTU-2, RTU-3, RTU-4, & RTU-5). BASED ON MODEL 7403, UL2998. MODULES POWERED BY 1-POLE 20-AMP CIRCUITS. BPI MODULES SHALL BE INSTALLED ON EXISTING RTU SUPPLY AIR DISCHARGE MAINS, UPSTREAM OF ALL BRANCH TAPS. INTERLOCK BPI MODULES WITH SUPPLY FAN SWITCH.
14. DUCT SILENCER:
   - DS-1 RECTANGULAR ABSORPTIVE (DISSIPATIVE) DUCT SILENCER SHALL BE SIMILAR TO PRICE RL 24 F-2, 36" LENGTH. SIZE TO MATCH ASSOCIATED DUCT DIMENSIONS, REFER TO DRAWING.
   - DS-2 RECTANGULAR ABSORPTIVE (DISSIPATIVE) DUCT SILENCER SHALL BE SIMILAR TO PRICE RL 24 F-2, 60" LENGTH. SIZE TO MATCH ASSOCIATED DUCT DIMENSIONS, REFER TO DRAWING.
15. EXTERIOR DUCT INSULATION SHALL BE POLYISOCYANURATE, 3.5" THICKNESS

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE

INDOOR/OUTDOOR UNIT DESIGNATION	AC-A/ACC-A & AC-B/ACC-B
MANUFACTURER	DAIKIN
NOMINAL COOLING CAPACITY (TONS)	0.75
COOLING CAPACITY (BTU/HR)	8,900
CFM (H/M/L/SL)	431/322/249/142
SEER/EER	19/12.5
RS PIPE SIZE (IN)	3/8
RL PIPE SIZE (IN)	1/4
CONDENSATE DRAIN PIPE SIZE (IN)	3/4
ELECTRICAL DATA (CONNECTION AT OUTDOOR UNIT):	
VOLTS/Ø/Hz	208-230/1/60
MCA/RLA/MOP	7.0/6.75
INDOOR EVAPORATOR UNIT DATA	
LOCATION	IT 157A
MODEL	FTK09AXVJU
HEIGHT x WIDTH x DEPTH (IN)	$11\frac{1}{5}$"x$30^{29}/_{32}$"x$9^{27}/_{32}$"
WEIGHT (LBS)	20
TYPE	WALL MOUNTED
OUTDOOR CONDENSING UNIT DATA:	
LOCATION	ROOF
MODEL	RK09AXVJU
HEIGHT x WIDTH x DEPTH (IN)	$21^{11}/_{16}$"x$30^{29}/_{32}$"x$9^{27}/_{32}$"
WEIGHT (LBS)	55
REFRIGERANT TYPE	R-410A

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
· 0° LOW AMBIENT CONTROLS
· HARD WIRED REMOTE CONTROLLER
· WIND BAFFLE
· INTEGRAL CONDENSATE PUMP PACKAGE AT INDOOR UNIT
2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, ETC. FOR WALL HUNG INSTALLATION

FAN SCHEDULE

DESIGNATION	TX-1	TX-2	TX-3	TX-4	EF-1
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	MEN T103	WOMEN T102	STAFF T150	STAFF WC 78	BASEMENT EMR
MODEL	G-070-VG	G-095-VG	G-060-VG	G-060-VG	G-070-VG
CFM	250	350	50	100	200
BHP	0.03	0.05	0.01	0.01	0.02
HP	1/15	1/8	1/100	1/100	1/15
FAN RPM	1,684	1,190	1,188	1,476	1,366
SP (IN H_2O)	0.375	0.375	0.2	0.25	0.25
VOLTS/Ø/Hz	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
INTERLOCK	TIMECLOCK	TIMECLOCK	TIMECLOCK	TIMECLOCK	TIMECLOCK

NOTES:
FANS BASED ON GREENHECK
1. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
2. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.
3. FURNISH WALL MOUNTED SPEED CONTROLLER OR THERMOSTAT AS INDICATED ON PLAN.
4. FURNISH MOTOR AND BELT GUARDS FOR ALL EXTERNAL MOTOR DRIVES.
5. FURNISH 24" HIGH ROOF CURB FOR ALL ROOFTOP FANS.
6. MOTOR STARTER & DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.
7. FURNISH MOTORIZED BACK-DRAFT DAMPER IN ROOF CURB FOR ALL ROOFTOP FANS.

EXISTING ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	FIRST FLOOR	MEZZ & LOWER LEVEL	FIRST FLOOR	BASEMENT	FIRST FLOOR
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	TCD420AE	TCD420A4	TCD420A4	TSC092	TTFD240
NOMINAL CAPACITY (TONS)	35	15	15	7.5	20
SUPPLY FAN DATA:					
RATED SUPPLY AIR (CFM)	13000	13000	13000	2700	7500
ESP/TSP (IN H_2O)	1.75	1.75	1.75	1.00	1.00
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:					
VOLTS/Ø/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60

CEILING DIFFUSER SCHEDULE

DESIGNATION	CD-1		-	
MODEL	OMNI			
MAX CORE VEL (FT/MIN)	550			
MAX NC	25			
CONSTRUCTION	STEEL			
FRAME	LAY-IN			
DEFLECTION	4 WAY			
FACE SIZE	24x24 / 12x12			
	CFM RANGE	NECK SIZE Ø	CFM RANGE	NECK SIZE Ø
	0-100	6"		
	101-200	8"		
	201-350	10"		
	351-450	12"		
	451-600	14"		
	601-700	15"		

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

VARIABLE AIR VOLUME BOX SCHEDULE

DESIGNATION	VAV-1	VAV-2	VAV-3	VAV-3	VAV-3
INLET SIZE	6"Ø	8"Ø	10"Ø	10"Ø	6"Ø
DESIGN CFM	240	590	1020	1020	210
HEATING CFM	80	180	305	305	80
HEATING CAPACITY (MBH)	3.7	8.9	14.1	14.1	3.7
E.W.T./L.W.T. (°F)	160.0 / 140.0	160.0 / 140.0	160.0 / 140.0	160.0 / 140.0	160.0 / 140.0
E.A.T./L.A.T. (°F)	55.0 / 100	55.0 / 102.5	55.0 / 99.5	55.0 / 99.5	55.0 / 100
No. OF ROWS	1	1	1	1	1
FINS PER INCH	10	10	10	10	10
GPM	1	1	3	3	1
WATER P.D. (FT. H_2O)	0.48	0.64	0.48	0.48	0.48
ASSOCIATED AHU	RTU-5	RTU-5	RTU-4	RTU-4	RTU-4

NOTES:
1. VAV BOXES BASED ON TITUS DESV.
2. VAV BOXES SHALL BE SINGLE DUCT, COOLING ONLY OR COOLING/HOT WATER HEATING AS INDICATED WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS SUPPLIED BY CONTROLS CONTRACTOR AND MOUNTED BY THE TERMINAL UNIT MANUFACTURER. CONTROL ENCLOSURE SHALL NOT EXCEED 10.25" HEIGHT FOR A LOW HEIGHT OPTION.
3. CONTROLS SHALL BE COMPATIBLE WITH PNEUMATIC INLET VELOCITY SENSORS SUPPLIED BY THE TERMINAL MANUFACTURER. THE SENSOR SHALL BE MULTI-POINT CENTER AVERAGING TYPE, WITH A MINIMUM OF FOUR MEASURING PORTS PARALLEL TO THE TAKE-OFF POINT FROM THE SENSOR. SENSORS WITH MEASURING PORTS IN SERIES ARE NOT ACCEPTABLE. THE SENSOR MUST PROVIDE A MINIMUM DIFFERENTIAL PRESSURE SIGNAL OF 0.03 INCH WG. AT AN INLET VELOCITY OF 500 FPM.
4. THE TERMINAL CASING SHALL BE MINIMUM 22-GAUGE GALVANIZED STEEL, INTERNALLY LINED WITH 1-INCH MATTE FACED, NATURAL FIBER INSULATION THAT COMPLIES WITH UL 181 AND NFPA 90A. THE LINER SHALL COMPLY WITH ASTM G21 AND G22 FOR FUNGI AND BACTERIAL RESISTANCE. FIBERGLASS SHALL NOT BE ACCEPTED.
5. 30% PROPYLENE GLYCOL PROVIDED TO HOT WATER COILS.
6. THE TERMINAL MANUFACTURER SHALL PROVIDE A CLASS II 24 VAC TRANSFORMER AND DISCONNECT SWITCH; BOX SHALL BE U.L. LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL INSTALL & PROVIDE POWER/CIRCUITRY TO DISCONNECT SWITCH AND TRANSFORMER.
7. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS & CONTROL WIRING.
8. MAXIMUM RADIATED NC< 30, MAXIMUM DISCHARGE NC< 28.
9. COORDINATE RIGHT HAND / LEFT HAND CONNECTIONS AND CONTROL PANEL IN FIELD.

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OLA Project Number: NVMD0001.00

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

STATE OF NEW YORK · BARBARA JILL GALASS · 075260 · LICENSED PROFESSIONAL ENGINEER

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Drawn By AMB

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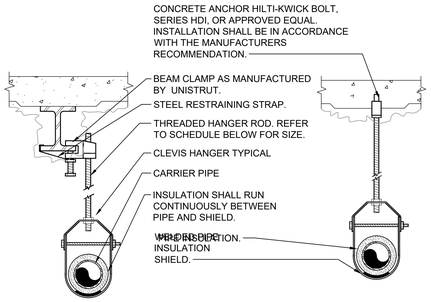
	100% CONSTRUCTION DOCUMENTS	01.14.2022

MECHANICAL SCHEDULES

M-601

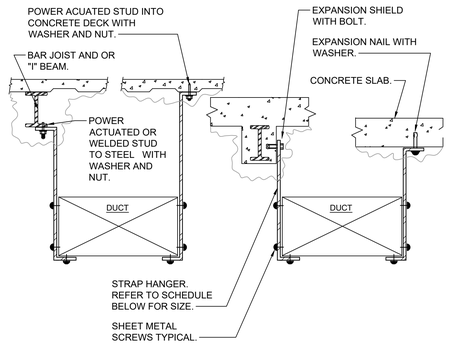
CONSTRUCTION DOCUMENTS
01.14.2022



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
7.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

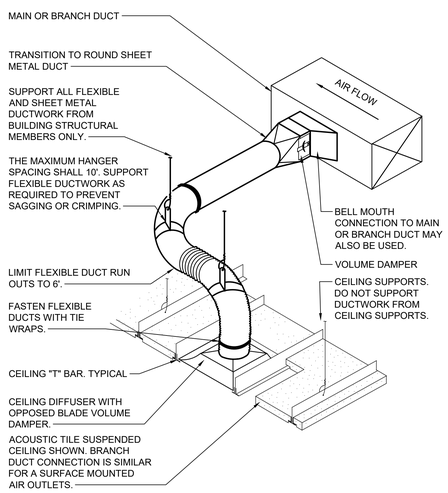
12 PIPE HANGER DETAIL
SCALE: NONE



NOTES:
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
3. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

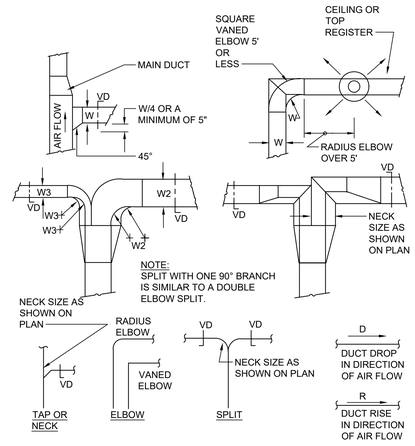
HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ. FT.	1" x 1/16"	8'-0"
2 SQ. FT. TO 4 SQ. FT.	1" x 1/8"	8'-0"
4 SQ. FT. TO 10 SQ. FT.	1" x 1/8"	6'-0"
OVER 10 SQ. FT.	1" x 1/8"	4'-0"

9 DUCT HANGER DETAIL
SCALE: NONE



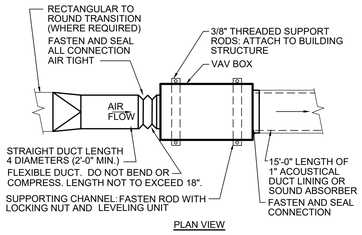
NOTES:
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

6 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



NOTES:
1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

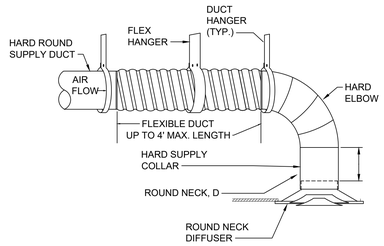
3 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NONE



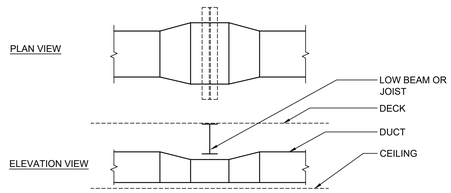
NOTES:

1.) THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2.) WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3.) MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS.
4.) ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

11 TERMINAL UNIT INSTALLATION DETAIL
SCALE: NONE

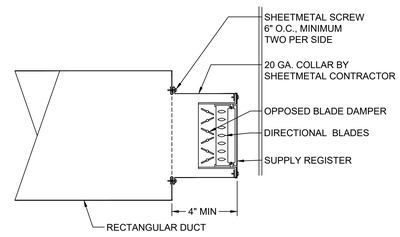


8 ROUND CONNECTION TO ROUND NECK DIFFUSER
SCALE: NONE

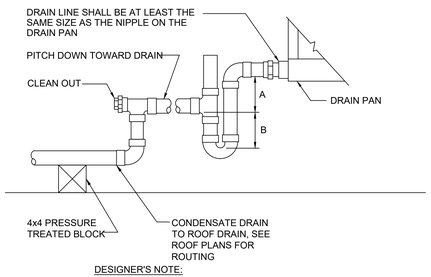


NOTES:
1. WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
2. REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
3. INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
4. USE SMACNA APPROVED TRANSITIONS.

5 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



2 SUPPLY REGISTER MOUNTING DETAIL FOR EXPOSED DUCTWORK
SCALE: NONE

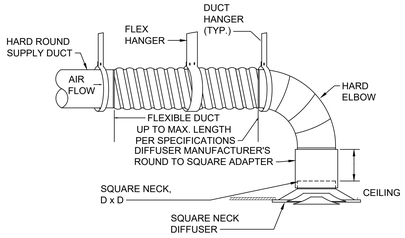


DESIGNER'S NOTE:

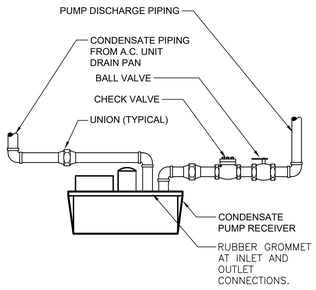
UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

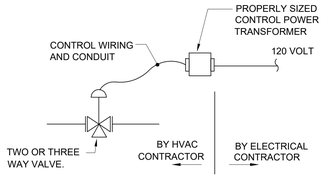
10 AIR HANDLING UNIT DRAIN TRAP DETAIL
SCALE: NONE



7 ROUND CONNECTION TO SQUARE NECK DIFFUSER
SCALE: NONE



4 CONDENSATE PUMP PIPING SCHEMATIC
SCALE: NONE



(TYPICAL FOR ALL CONTROL VALVES AND DAMPERS)

NOTE: MECHANICAL CONTRACTOR TO FURNISH MOTOR RATED TOGGLE SWITCH TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

1 CONTROL VALVE WIRING SCHEME
SCALE: NONE

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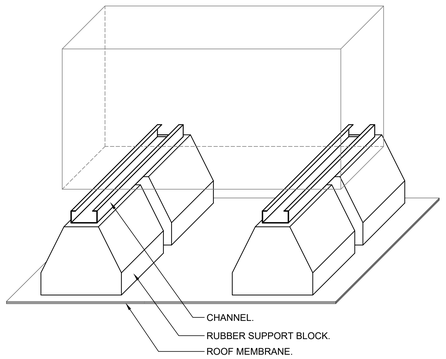
MECHAINCAL DETAILS
1 OF 2

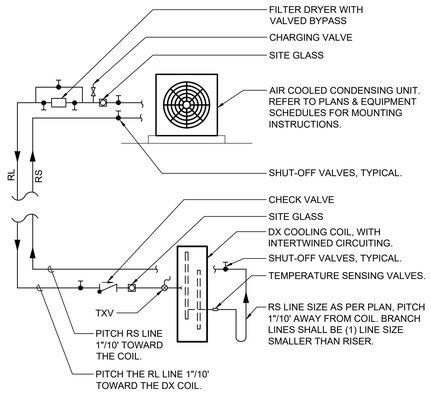
M-701

CONSTRUCTION DOCUMENTS
01.14.2022

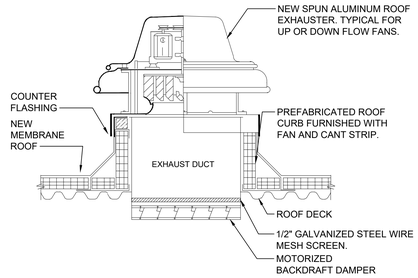


NOTES:
1.) EQUIPMENT SUPPORTS SHALL BE AS MANUFACTURED BY COOPER B-LINE, TYPE DB "DURA-BLOCK", WITH CONTINUOUS 14 GA, 1" HIGH GALVANIZED STEEL CHANNEL & 100% RECYCLED RUBBER SUPPORT BLOCKS.
2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON A PAIR OF CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF EQUIPMENT TO BE SUPPORTED.
3.) EQUIPMENT SUPPORT CURBS LONGER THAN 10" SHALL CONSIST OF MULTIPLE BLOCKS ATTACHED TO A SINGLE CONTINUOUS CHANNEL.
4.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
5.) CEMENT RUBBER SUPPORT BLOCKS TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

6 SUPPORT DETAIL FOR CONDENSING UNITS LOCATED ON ROOF
SCALE: NONE

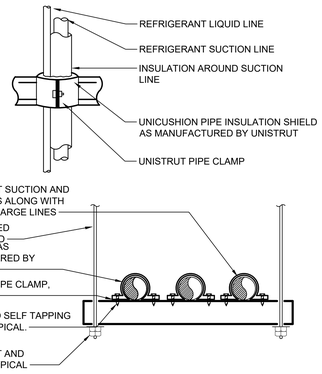


4 DUCTLESS DX SPLIT-SYSTEM AC UNIT PIPING SCHEMATIC
SCALE: NONE



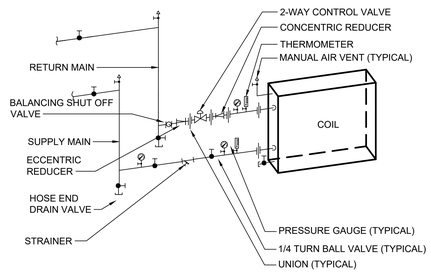
NOTES:
1.) SEE ARCHITECTIRAL DRAWINGS FOR FLASHING AND COUNTER FLASHING DETAILS.

2 ROOFTOP EXHAUST FAN DETAIL
SCALE: NONE



NOTES:
1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4.) SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

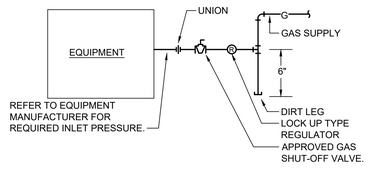
7 REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



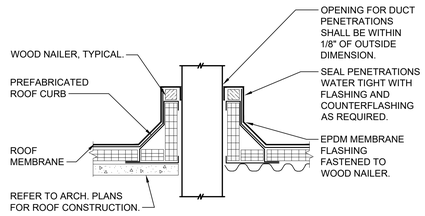
NOTES:
1.) LOCATE ALL COIL UNIONS CLOSE TO, AND CLEAR OF, COIL. ARRANGE PIPING SO AS NOT TO NOT INTERFERE WITH COIL REMOVAL.
2.) DETAIL IS TYPICAL FOR UNIT VENTILATORS, CABINET UNIT HEATERS, FAN COIL UNITS, AND AIR HANDLING UNITS.
3.) PROVIDE FLEXIBLE CONNECTION FOR THOSE COILS MOUNTED IN UNITS ON VIBRATION ISOLATORS.

PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

5 HYDRONIC COIL WITH 2-WAY VALVE PIPING SCHEMATIC
SCALE: NONE



3 GAS CONNECTION SCHEMATIC
SCALE: NONE



NOTES:
1. THIS DETAIL SHALL BE USED FOR ALL DUCT PENETRATIONS THROUGH ROOF, BOTH NEW AND EXISTING.
2. PREFABRICATED ROOF CURB SHALL BE OF PRIME 18 GAUGE GALVANIZED STEEL CONSTRUCTION WITH WELDED CORNERS AND 3" CANT FULLY MITERED WITH SEAMS JOINED BY CONTINUOUS WELDS. CURB SHALL BE FACTORY INSULATED WITH 1-1/2" THICK 3# DENSITY INSULATION AND ASSEMBLED WITH 2x2 WOOD NAILERS. DIMENSIONS OF ROOF CURB SHALL BE VERIFIED BY THIS CONTRACTOR PRIOR TO ORDERING BASED ON DIMENSIONS OF EXISTING UNITS. THIS CONTRACTOR SHALL COORDINATE HEIGHT OF ROOF CURB WITH GENERAL CONTRACTOR PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

1 DUCT THROUGH ROOF DETAIL
SCALE: NONE

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MECHANICAL DETAILS
2 OF 2

M-702

CONSTRUCTION DOCUMENTS
01.14.2022

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING
	-	CONDUIT & WIRING TO BE REMOVED UON
UG	-	BURIED CONDUIT
OH	-	OVERHEAD CONDUCTORS
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P
	-	MULTI-POLE HOMERUN
	-	ELECTRICAL EQUIPMENT AS INDICATED
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON
M	-	ELECTRIC METER
J	-	JUNCTION BOX
	-	FUSED DISCONNECT SWITCH
	-	UNFUSED DISCONNECT SWITCH
	-	COMBINATION MOTOR STARTER/FUSED DISC.
	-	MOTOR STARTER
	-	MOTOR
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^3	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^4	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_M	-	MOTOR RATED TOGGLE SWITCH
S_K	-	KEY OPERATED SINGLE POLE SWITCH
S_V	-	SPEED CONTROLLER (FB0)
	-	WALL MOUNTED OCCUPANCY SENSOR
OC	-	CEILING MOUNTED OCCUPANCY SENSOR
	-	DUPLEX RECEPTACLE
	-	DOUBLE DUPLEX RECEPTACLE
	-	SPECIAL RECEPTACLE
	-	TELEPHONE OUTLET
x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)
	-	COMBINATION TELEPHONE/DATA OUTLET
	-	COMBINATION DATA & TV OUTLET
	-	TV OUTLET
P	-	FURNITURE SYSTEM POWER FEED
C	-	FURNITURE SYSTEM COMMUNICATION FEED
F	-	FIRE ALARM MANUAL PULL STATION
F	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)
F 110	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)
F	-	FIRE ALARM STROBE 15/75 CD
F 110	-	FIRE ALARM STROBE 110 CD
CO	-	CARBON MONOXIDE DEVICE (15/75 CD - STROBE)
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING
SB	SB	FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
S AC	-	DUCT MOUNTED SMOKE DETECTOR
H	-	HEAT DETECTOR
CO	-	CARBON MONOXIDE DETECTOR
NG	-	NATURAL GAS DETECTOR
F	-	FIRE ALARM BELL
TS	-	FIRE ALARM TAMPER SWITCH
WF	-	FIRE ALARM WATER FLOW SWITCH
DR	-	FIRE ALARM DOOR RELEASE
ANN	-	FIRE ALARM ANNUNCIATOR PANEL
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY
R	-	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
PA	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER
PA	-	PUBLIC ADDRESS TELEPHONE
SP	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
S	-	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER
B	-	PUBLIC ADDRESS BELL

SYMBOL	ABBREVIATION	DESCRIPTION
C	-	CCTV CAMERA
TC	-	TIME CLOCK
CR	-	CARD READER
DA	-	DOOR ALARM
ES	-	ELECTRIC DOOR STRIKE
MD	-	SECURITY MOTION DETECTOR
KP	-	KEY PAD
PA	-	PANIC ALARM
S	-	SECURITY ALARM HORN
HD	-	ELECTRIC HAND DRYER
EPO	EPO	EMERGENCY POWER OFF SWITCH
RASP	RASP	RESCUE ASSIST. SYSTEM MASTER STATION
	-	REMOTE RESCUE STATION
	CB	CIRCUIT BREAKER
	-	ENCLOSED CIRCUIT BREAKER
200AB 150AF	-	FUSED SWITCH
OR	GND	GROUND AS PER LOCAL CODE
	-	GROUND BAR
OR	-	GROUND ROD
OR T	XFMR	TRANSFORMER
	CT	CURRENT TRANSFORMER
WM	WM	WATER MAIN
B	-	BOILER BREAK GLASS STATION
	NC	NORMALLY CLOSED CONTACTS
	NO	NORMALLY OPEN CONTACTS
	CV	CONTROL VALVE
M	MD	MOTORIZED DAMPER
	SD OR CFSD	SMOKE DAMPER
UH	UH	UNIT HEATER
VAV	VAV	VARIABLE AIR VOLUME BOX
	A	AMPERE(S)
	AC	AIR CONDITIONER
	ACC	AIR CONDITIONER CONDENSER
	AFF	ABOVE FINISHED FLOOR
	AF	AMPERAGE OF FUSE
	AGL	ABOVE GRADE LEVEL
	AHU	AIR HANDLING UNIT
	AL	ALUMINIUM
	ARC	ARC FAULT INTERRUPTER
	AS	AMPERAGE OF SWITCH
	ATS	AUTOMATIC TRANSFER SWITCH
	AWG	AMERICAN WIRE GAUGE
	BCW	BARE COPPER WIRE
	BLDG	BUILDING
	BMS	BUILDING MANAGEMENT SYSTEM
	C	CONDUIT
	CD	CANDELA
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	CU	COPPER
	CUH	CABINET UNIT HEATER
	DEM.	DEMOLISH AND REMOVE
	DISC	DISCONNECT
	DIM	DIMMER
	DWG	DRAWING
	ELEV	ELEVATOR
	EMT	ELECTRICAL METALLIC TUBING
	EM	EMERGENCY
	EX.	EXISTING TO REMAIN
	F	FLOOR
	FBO	FURNISHED BY OTHERS
	FC	FAN COIL UNIT
	GFI	GROUND FAULT INTERRUPTER
	HP	HORSEPOWER
	HVAC	HEATING VENTILATION AIR CONDITIONING
	IMC	INTERMEDIATE METAL CONDUIT
	KVA	KILO-VOLT-AMPERE
	KW	KILO-WATT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MIN	MINIMUM
	MLO	MAIN LUG ONLY

SYMBOL	ABBREVIATION	DESCRIPTION
	NIC	NOT IN CONTRACT
	NL	NIGHT LIGHT
	NTS	NOT TO SCALE
	OH	OVERHEAD
	P	POLE
	PBO	PROVIDED BY OTHERS
	PNL	PANEL
	PT	PRESSURE TREATED
	PVC	POLY VINYL CHLORIDE
	REL.	REMOVE AND RELOCATE
	RGS	RIGID GALVANIZED STEEL
	RTU	ROOF TOP UNIT
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	UV	UNIT VENTILATOR
	VIF	VERIFY IN FIELD
	V	VOLT(S)
	VSD	VARIABLE SPEED DRIVE
	WG	WIRE GUARD
	WH	WATER HEATER
	WP	WEATHERPROOF

NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)

13 — CIRCUIT # / RECEPTACLE

15 — A — LIGHT FIXTURE TYPE / SWITCH CONTROL / LIGHT FIXTURE CIRCUIT #

NOTES:
1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

DEMOLITION NOTES

1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
3. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
5. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
6. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
7. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
8. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
9. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
10. COMMUNICATION WIRING BY OTHERS. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.
11. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
12. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
13. CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
14. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
15. DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
16. INCLUDE IN BASE BID (4) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

    LOWER LEVEL - PP1-17,19,21,23
    MAIN LEVEL- PP2- 19,21,23,25

17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
18. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AND PAY ALL FEES FOR THE UL FIELD EVALUATION SERVICE TO RE-INSPECT AND RE-CERTIFY THE SWITCHBOARD IN RELATION TO MODIFICATIONS REQUIRED WHEN TAPPING THE BUS. CONTRACTOR SHALL SCHEDULE WITH UL PRIOR TO START OF WORK. UL SHALL BE PRESENT WHILE TAPPING OF THE SWITCHBOARD IS EXECUTED. (TEL: 1-877-ULHELPS)

DEFINITION OF TERMS

1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "NEW CITY LIBRARY" IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "VMDO ARCHITECTS" IS INTENDED.
3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "ORANGE & ROCKLAND UTILITIES INC." IS INTENDED.
5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "A&R ALARM CORP." IS INTENDED.
7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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OLA Project Number: NVMD0001.00

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

STATE OF NEW YORK · BARBARA JILL WALSH · 075260 · LICENSED PROFESSIONAL ENGINEER

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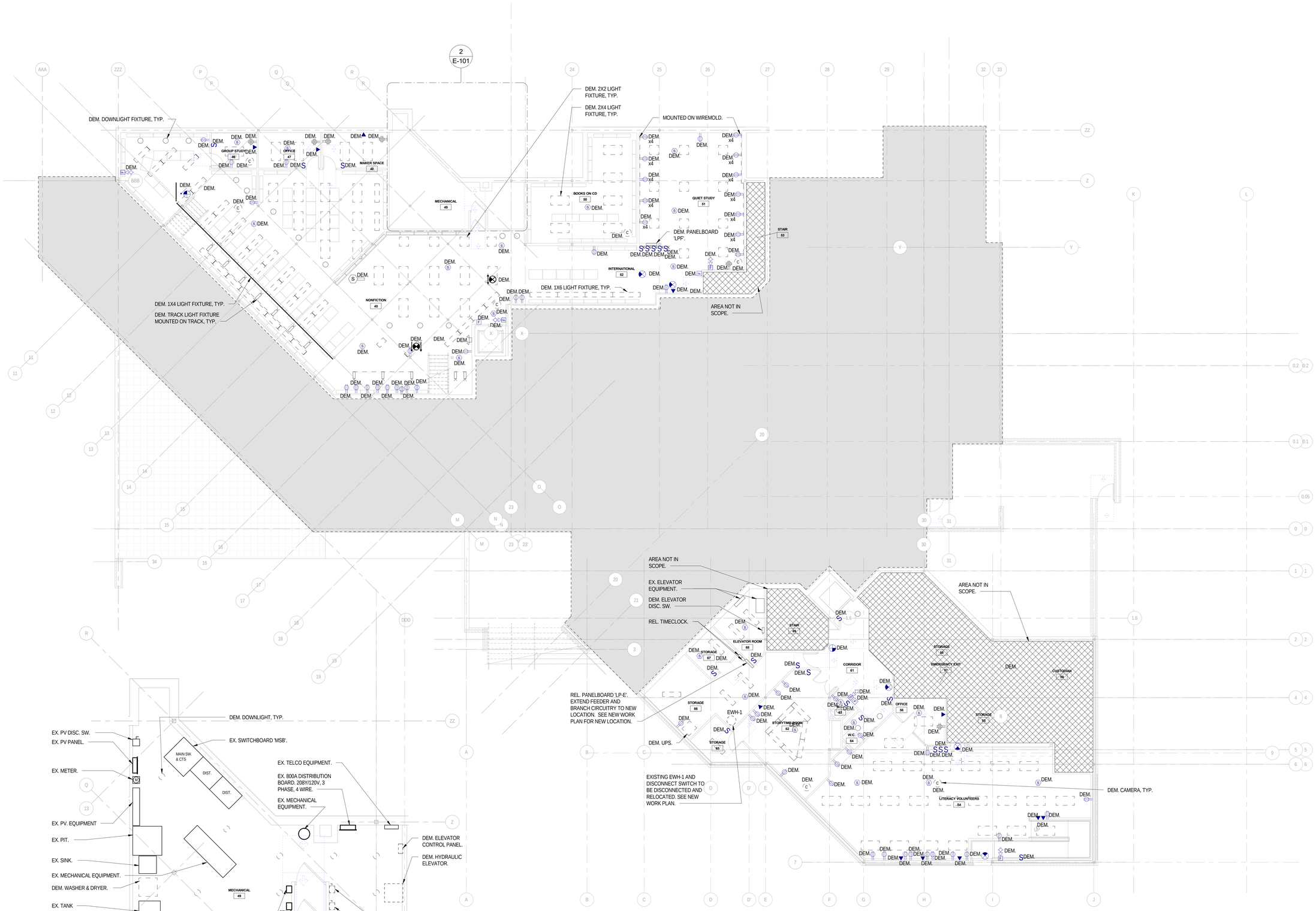
ISSUES AND REVISIONS

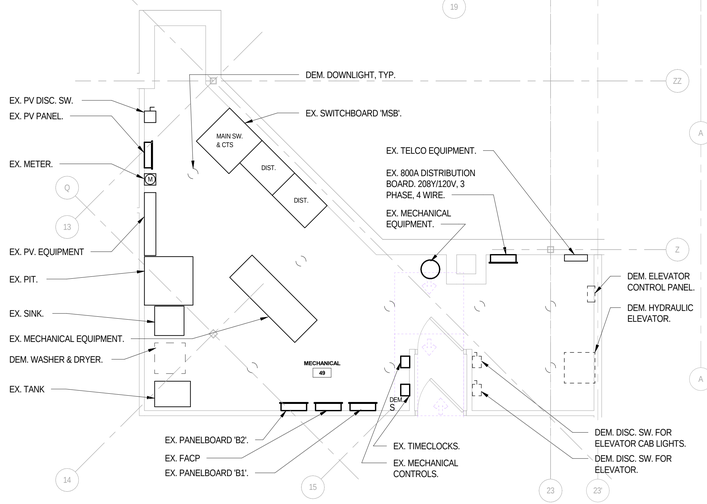
NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

E-001

CONSTRUCTION DOCUMENTS
01.14.2022





NORTH 2 ELECTRICAL LOWER LEVEL DEMOLITION MER PART PLAN

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

NORTH 1 ELECTRICAL LOWER LEVEL DEMOLITION

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

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2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL LOWER LEVEL DEMOLITION PLAN

E-101

CONSTRUCTION DOCUMENTS

01.14.2022

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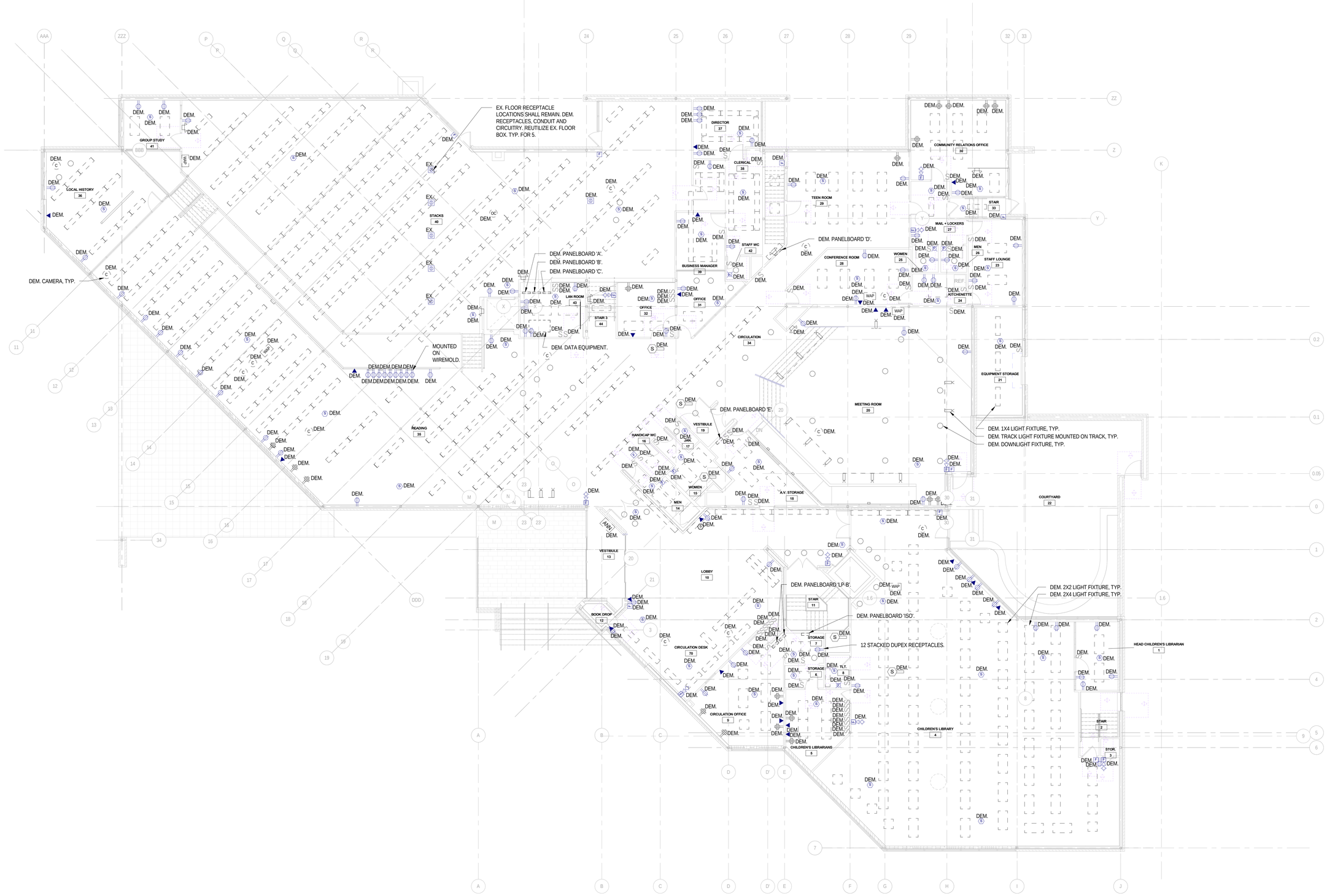

NORTH

1 ELECTRICAL MAIN LEVEL DEMOLITION

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

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL MAIN LEVEL DEMOLITION PLAN

E-102

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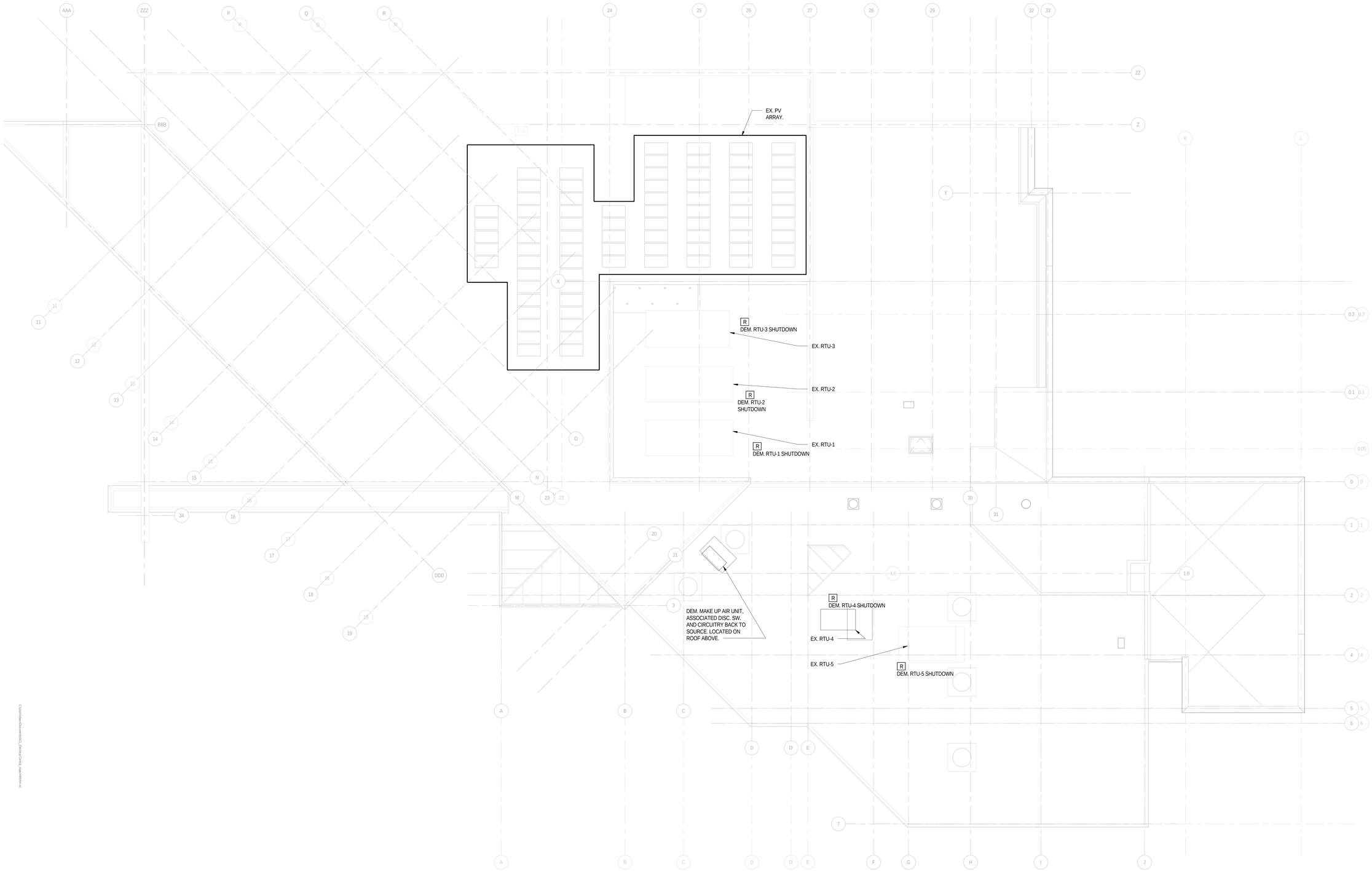

1 ELECTRICAL DEMOLITION ROOF PLAN

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

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NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07.09.2021
2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL ROOF DEMOLITION PLAN

E-103

CONSTRUCTION DOCUMENTS

01.14.2022

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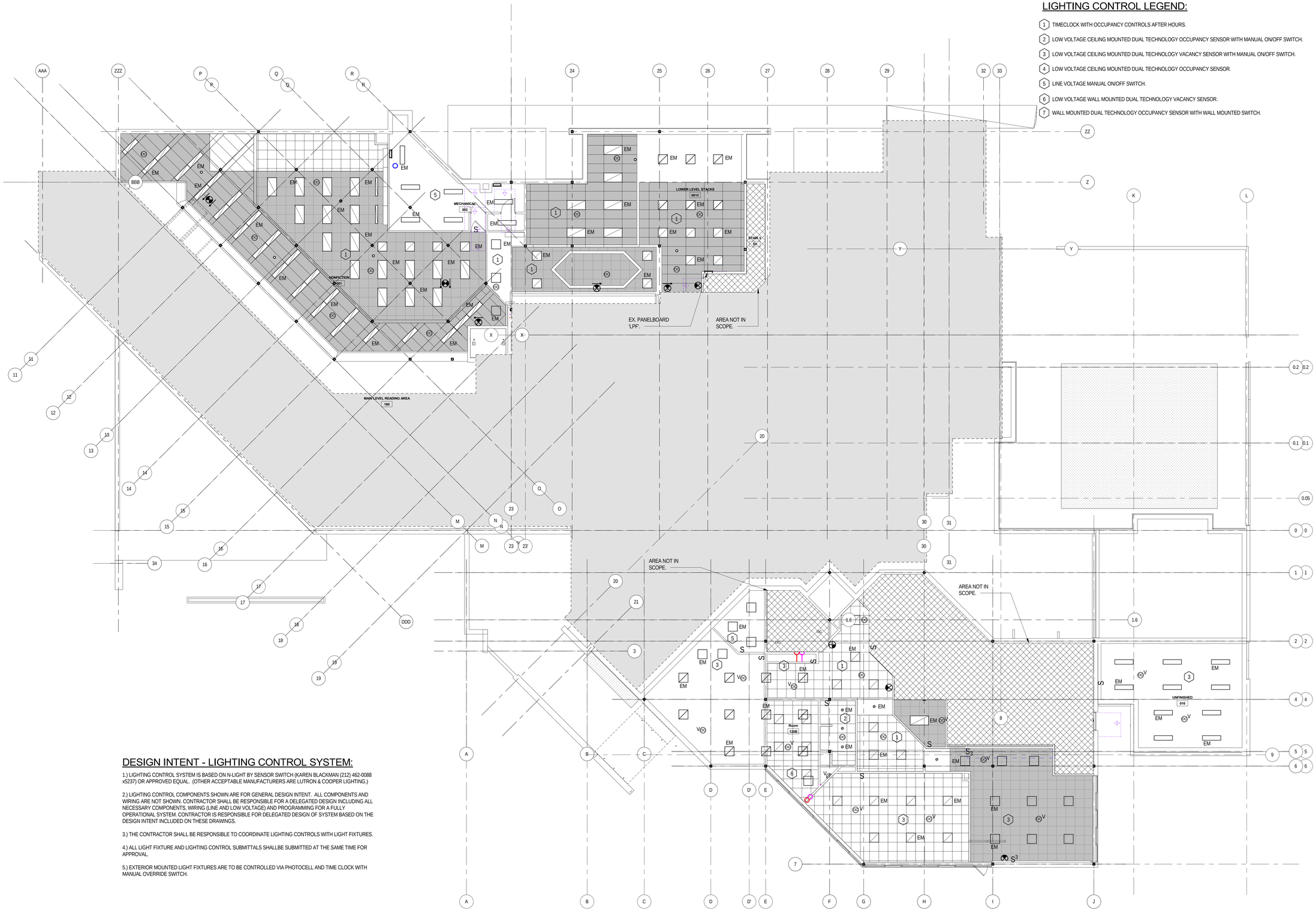
LIGHTING CONTROL LEGEND:

1. TIMECLOCK WITH OCCUPANCY CONTROLS AFTER HOURS.
2. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH.
3. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH MANUAL ON/OFF SWITCH.
4. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
5. LINE VOLTAGE MANUAL ON/OFF SWITCH.
6. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
7. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED SWITCH.



DESIGN INTENT - LIGHTING CONTROL SYSTEM:

1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALLBE SUBMITTED AT THE SAME TIME FOR APPROVAL.

5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

NORTH

1 ELECTRICAL LOWER LEVEL LIGHTING PLAN

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

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL LOWER LEVEL NEW WORK RCP

E-201

CONSTRUCTION DOCUMENTS

01.14.2022

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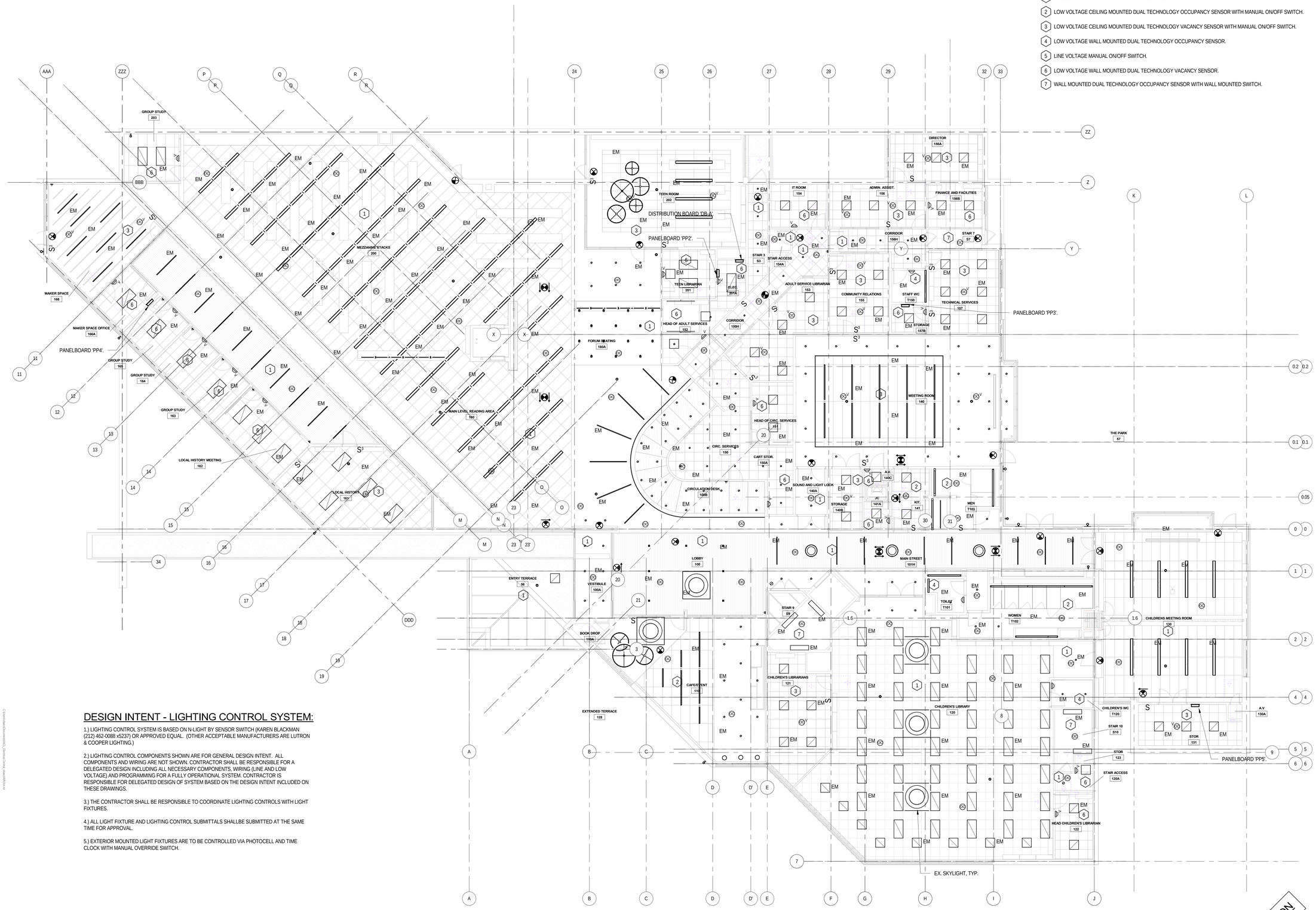
LIGHTING CONTROL LEGEND:

1. TIMECLOCK WITH OCCUPANCY CONTROLS AFTER HOURS.
2. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH.
3. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH MANUAL ON/OFF SWITCH.
4. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
5. LINE VOLTAGE MANUAL ON/OFF SWITCH.
6. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
7. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED SWITCH.



DESIGN INTENT - LIGHTING CONTROL SYSTEM:

1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALLBE SUBMITTED AT THE SAME TIME FOR APPROVAL.

5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

NORTH

1 ELECTRICAL MAIN LEVEL LIGHTING PLAN

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

NOT FOR CONSTRUCTION

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New City Library

Owner

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Client Project Number

VMDO Project Number NVMD0001.00

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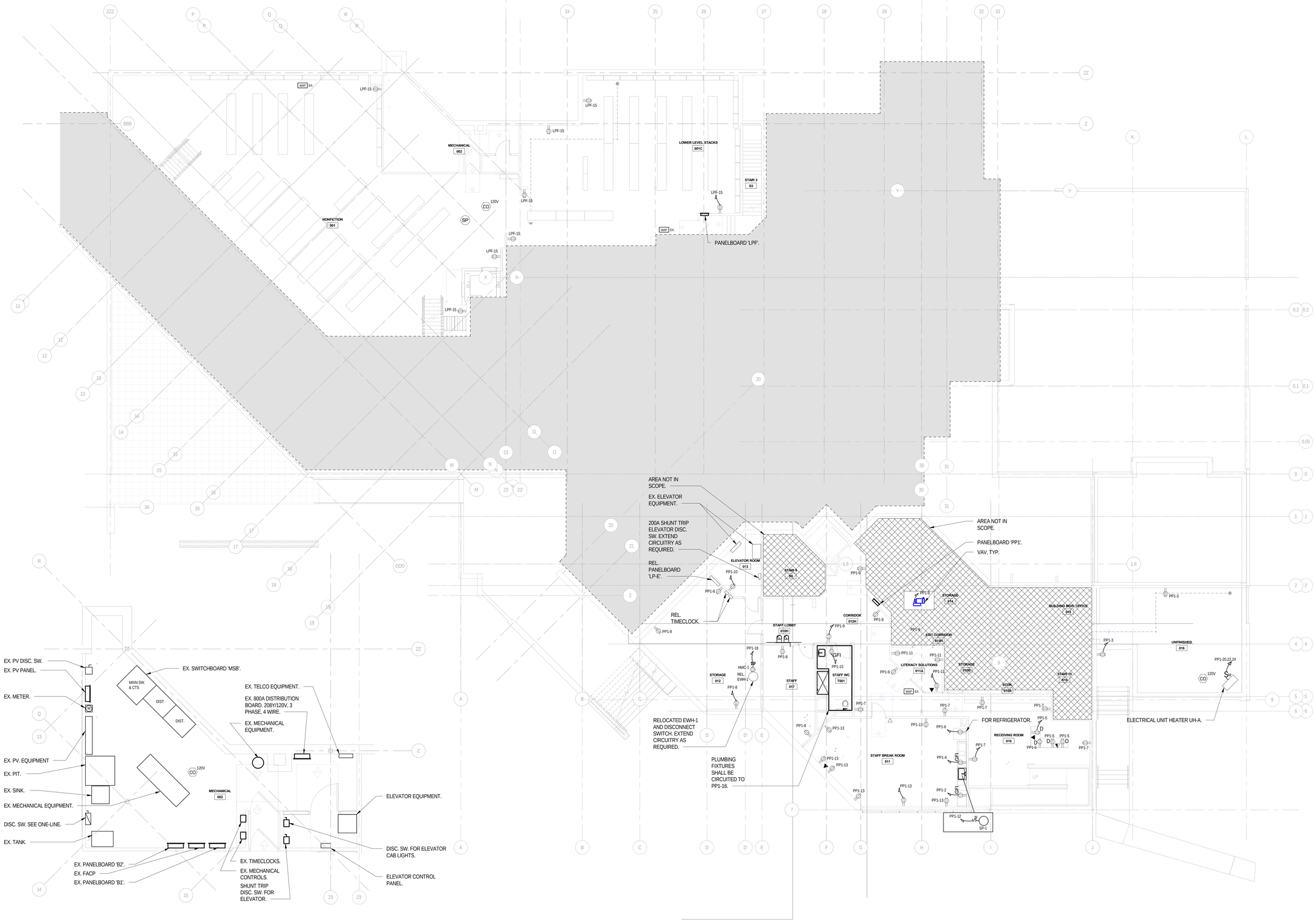
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07.09.2021
2	60% CONSTRUCTION DOCUMENTS	11.12.2021
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL MAIN LEVEL
NEW WORK RCP

E-202

CONSTRUCTION DOCUMENTS
01.14.2022



NORTH

1 ELECTRICAL LOWER LEVEL NEW WORK

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

NORTH

2 ELECTRICAL LOWER LEVEL NEW WORK MER PART PLAN

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

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL LOWER LEVEL NEW WORK PLAN

E-301

CONSTRUCTION DOCUMENTS

01.14.2022

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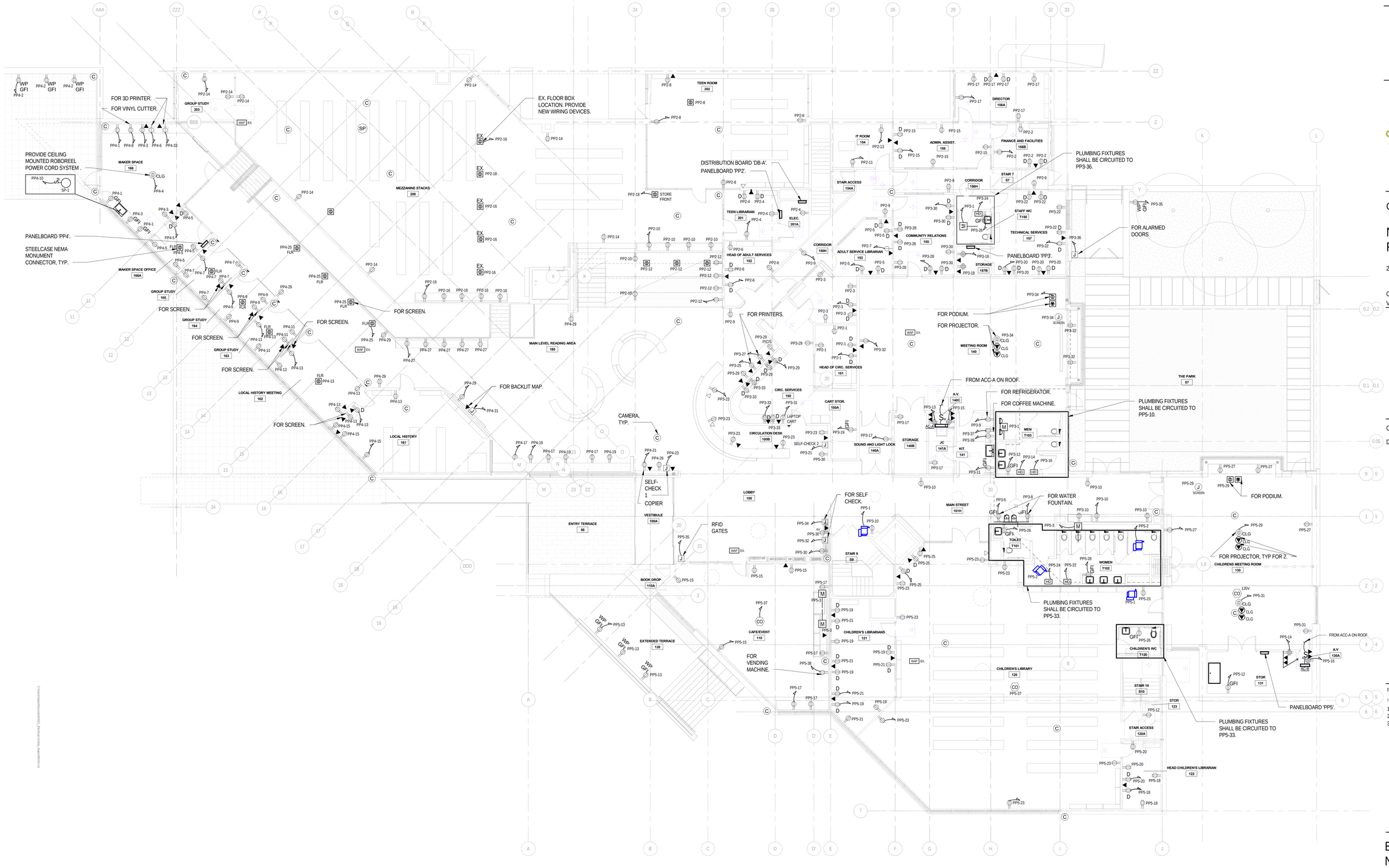

1 ELECTRICAL MAIN LEVEL NEW WORK

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

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ELECTRICAL MAIN LEVEL NEW WORK PLAN

E-302

CONSTRUCTION DOCUMENTS

01.14.2022

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NOTES:

1.) CONTRACTOR SHALL PROVIDE (1) 1P-20A CIRCUIT FOR BIPOLAR IONIZATION FOR EACH EX. RTU. CIRCUIT TO NEAREST PANELBOARD. CONTRACTOR SHALL ALLOW 150' OF 2-#12 & 1-#12 GND IN 3/4"C PER CIRCUIT.

NORTH

1 ELECTRICAL MEZZANINE ROOF

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

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ELECTRICAL ROOF NEW WORK PLAN

E-303

CONSTRUCTION DOCUMENTS

01.14.2022

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1 FIRE ALARM LOWER LEVEL NEW WORK

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

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FIRE ALARM LOWER LEVEL NEW WORK PLAN

E-401

CONSTRUCTION DOCUMENTS

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1 FIRE ALARM MAIN LEVEL NEW WORK

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

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FIRE ALARM MAIN LEVEL NEW WORK PLAN

E-402

CONSTRUCTION DOCUMENTS

01.14.2022

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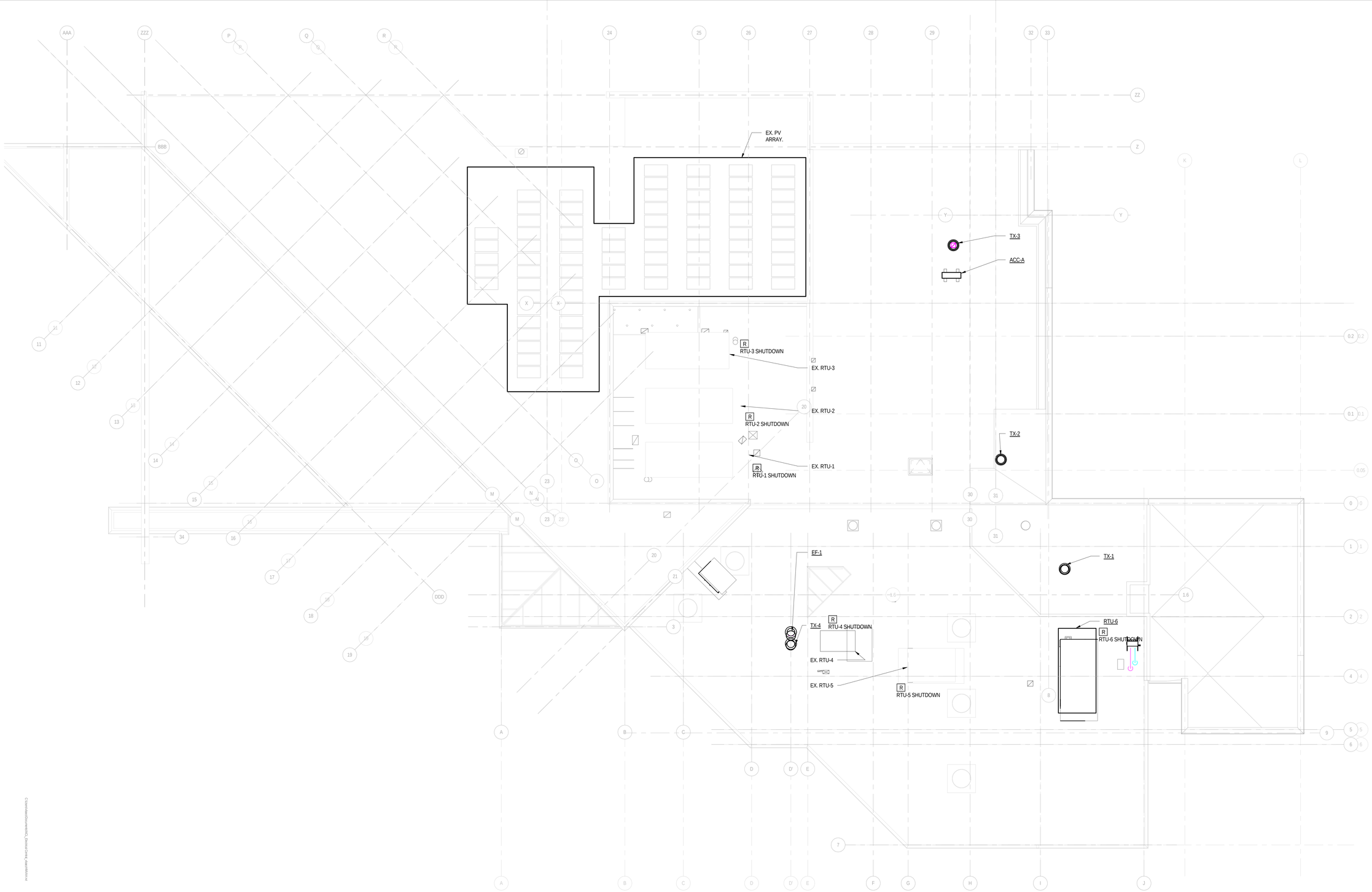

NORTH

1 FIRE ALARM ROOF NEW WORK PLAN

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

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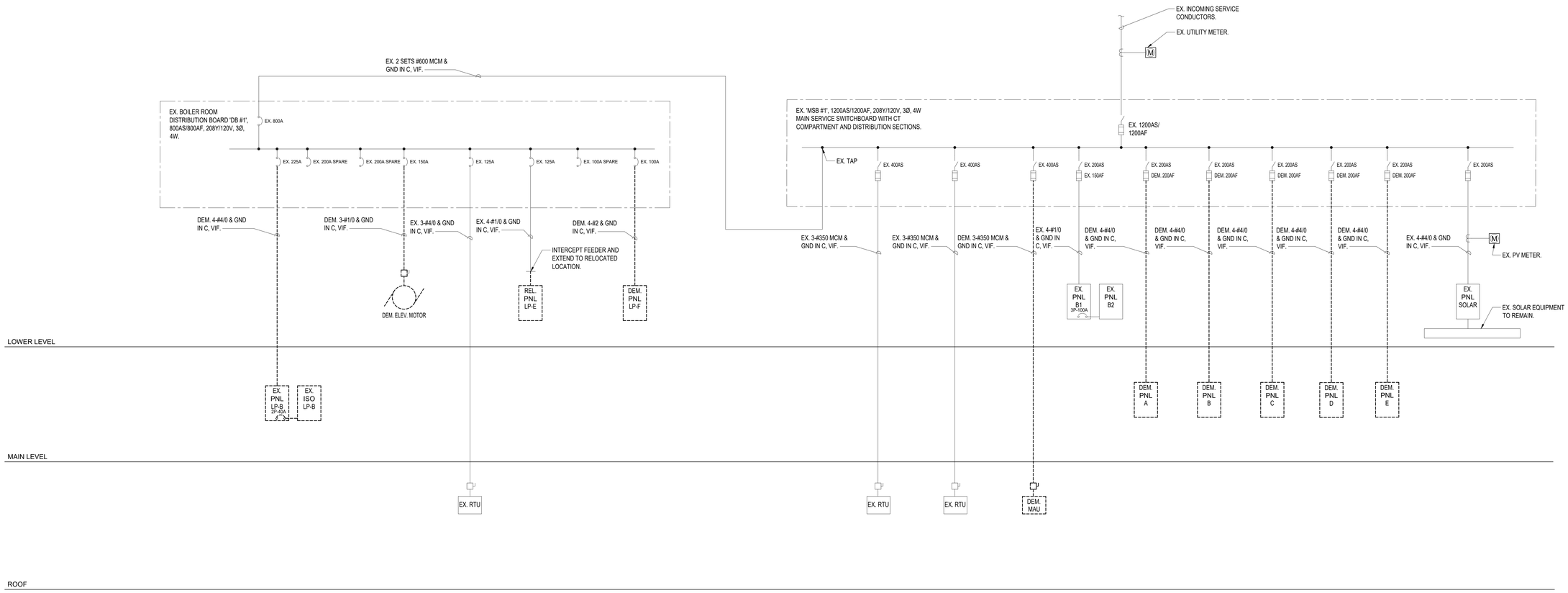
3	100% CONSTRUCTION DOCUMENTS	01.14.2022

FIRE ALARM ROOF NEW WORK PLAN

E-403

CONSTRUCTION DOCUMENTS
01.14.2022



1 ELECTRICAL DEMOLITION ONE-LINE DIAGRAM
SCALE: NONE

ONE–LINE NOTES:

1.) ALL CIRCUIT BREAKERS ARE 3 POLE, U.O.N.

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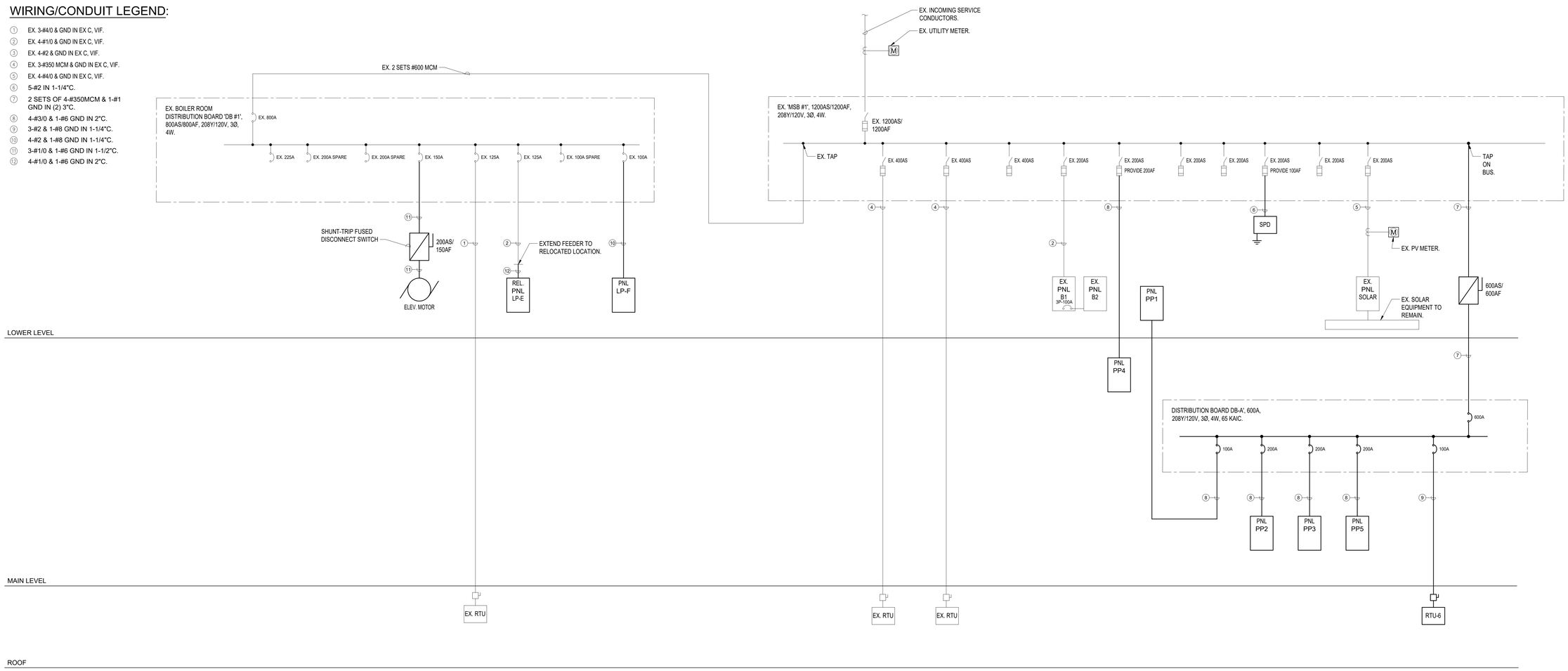
ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

E-501

CONSTRUCTION DOCUMENTS
01.14.2022

WIRING/CONDUIT LEGEND:

1. EX. 3-#4/0 & GND IN EX C, VIF.
2. EX. 4-#1/0 & GND IN EX C, VIF.
3. EX. 4-#2 & GND IN EX C, VIF.
4. EX. 3-#350 MCM & GND IN EX C, VIF.
5. EX. 4-#4/0 & GND IN EX C, VIF.
6. 5-#2 IN 1-1/4"C.
7. 2 SETS OF 4-#350MCM & 1-#1 GND IN (2) 3"C.
8. 4-#3/0 & 1-#6 GND IN 2"C.
9. 3-#2 & 1-#8 GND IN 1-1/4"C.
10. 4-#2 & 1-#8 GND IN 1-1/4"C.
11. 3-#1/0 & 1-#6 GND IN 1-1/2"C.
12. 4-#1/0 & 1-#6 GND IN 2"C.



1 ELECTRICAL NEW WORK ONE-LINE DIAGRAM
SCALE: NONE

ONE–LINE NOTES:

1.) ALL CIRCUIT BREAKERS ARE 3 POLE, U.O.N.

2.) CONTRACTOR SHALL PROVIDE A #3/0 BONDING JUMPER BETWEEN THE EXISTING BUILDING STEEL AND THE ADDITION BUILDING STEEL.

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ELECTRICAL NEW WORK ONE-LINE DIAGRAM

E-502

CONSTRUCTION DOCUMENTS
01.14.2022

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B. FOR PROJECTS WITH SEVEN OF FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE BUILDING OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
i. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. NONEXEMPT LIGHTING TURNS OFF.
ii. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3. DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C. THE CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READILY ACCESS ONLY BY AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS

THE DOCUMENTS DESCRIBED IN THIS SECTION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 60 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

A. DRAWINGS:
i. AS-BUILT CONSTRUCTION DOCUMENTS, SHOWING THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT.
B. MANUALS: AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
i. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
ii. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.
iii. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
iv. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
v. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
C. REPORT: A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING.
i. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
ii. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
	BEGA	24063	5.1W LED	UNV	RECESSED	RECESSED WALL LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	BEGA	66698	12.5W LED	UNV	SURFACE	WALL LIGHT FIXTURE WITH SINGLE SIDED LIGHT OUTPUT. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	FOCAL POINT	–	___W LED	UNV	PENDANT	SEEM 1 LED DIRECT/INDIRECT. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	FOCAL POINT	–	___W LED	UNV	RECESSED	SEEM 6 LED LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	FOCUS LIGHTING	–	___W LED	UNV	PENDANT	H+M PENDEL LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	LUMENWERX	–	___W LED	UNV	PENDANT	RIM PENDANT LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	–	–	–	UNV	–	LED EXIT SIGN WITH 90 MINUTES OF NICAD BATTERY BACKUP TIME. 8" RED LETTERS ON WHITE BACKGROUND. SURFACE MOUNTED WHITE CORROSION-PROOF THERMOPLASTIC HOUSING.

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

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ELECTRICAL LIGHTING SCHEDULE

E-601

CONSTRUCTION DOCUMENTS
01.14.2022

PP1 PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	1	20	REC – RM 011	2
3	REC – RM 016	20	1	1	20	REC – RM 011	4
5	REC – RM 010	20	1	1	20	REC – RM 011	6
7	REC – RM 010	20	1	1	20	REC – RM 012/013/017	8
9	VAV	–	–	1	20	REC – RM 013	10
11	REC – RM 011A	20	1	1	20	SP–1	12
13	REC – RM 011	20	1	–	–	–	14
15	REC – RM T001	20	1	1	20	PLUMBING FIXT. RM T001	16
17	HVAC CONTROLS	20	1	1	15	HWC–1 RM 012	18
19	HVAC CONTROLS	20	1				20
21	HVAC CONTROLS	20	1	3	15	UH–A	22
23	HVAC CONTROLS	20	1				24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP2 PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: 200A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC – RM 151	20	1	1	20	REC – RM 156B	2
3	REC – RM 153	20	1	1	20	REC – RM 102/102A	4
5	REC – RM 153	20	1	1	20	REC – RM 152	6
7	REC – RM 153	20	1	1	20	REC – RM 202	8
9	REC – 150H, 156H & S7	20	1	1	20	REC – RM 200	10
11	REC – RM 154	20	1	1	20	REC – RM 200	12
13	REC – RM 154	20	1	1	20	REC – RM 200/203	14
15	REC – RM 156	20	1	1	20	REC – RM 200	16
17	REC – RM 156A	20	1	1	20	REC – STORE FRONT	18
19	HVAC CONTROLS	20	1	–	–	–	20
21	HVAC CONTROLS	20	1	–	–	–	22
23	HVAC CONTROLS	20	1	–	–	–	24
25	HVAC CONTROLS	20	1	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP3 PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: 200A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	MOTORIZED DAMPERS	20	1	1	15	TX–3	2
3	TX–2	15	1	1	20	REC – ROOF	4
5	ACC–A	15	2	1	20	REC WATER FOUNTAIN 101H	6
7				1	20	REC WATER FOUNTAIN 101H	8
9	REC – RM 141	20	1	1	20	REC – RM 101H	10
11	REC – RM 141	20	1	1	20	REC – RM T103	12
13	REC – RM 140C	20	1	1	20	REC HD – RM T103	14
15	REC – RM 140C	20	1	1	20	REC HD – RM T103	16
17	REC – RMS 140A & 140B	20	1	1	20	REC – RM 157B	18
19	REC – RM 150A	20	1	1	20	REC – RM 157	20
21	JBOX SELF–CHECKOUT 2 – 100B	20	1	1	20	REC – RM 157	22
23	REC – RM 100B	20	1	1	20	HAND DRYER – RM T150	24
25	REC – RM 100B	20	1	1	20	REC – RM T150	26
27	REC – RM 100B	20	1	1	20	REC – RM 155	28
29	REC – RMS 100B & 150	20	1	1	20	REC – RM 155	30
31	REC – RM 150	20	1	1	20	REC – RM 140	32
33	REC – RM 150	20	1	1	20	REC – RM 140	34
35	RECP WP/GFI OUTDOORS	20	1	1	20	JBOX – ALARMED DOORS	36
37	REC – RM 141 COFFEE MACH.	20	1	–	–	–	38
39	REC – RM 141	20	1	–	–	–	40
41	–	–	–	–	–	–	42
43	–	–	–	–	–	–	44
45	–	–	–	–	–	–	46
47	–	–	–	–	–	–	48
49	–	–	–	–	–	–	50
51	–	–	–	–	–	–	52
53	–	–	–	–	–	–	54
55	–	–	–	–	–	–	56
57	–	–	–	–	–	–	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP4 PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: 200A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: RECESSED

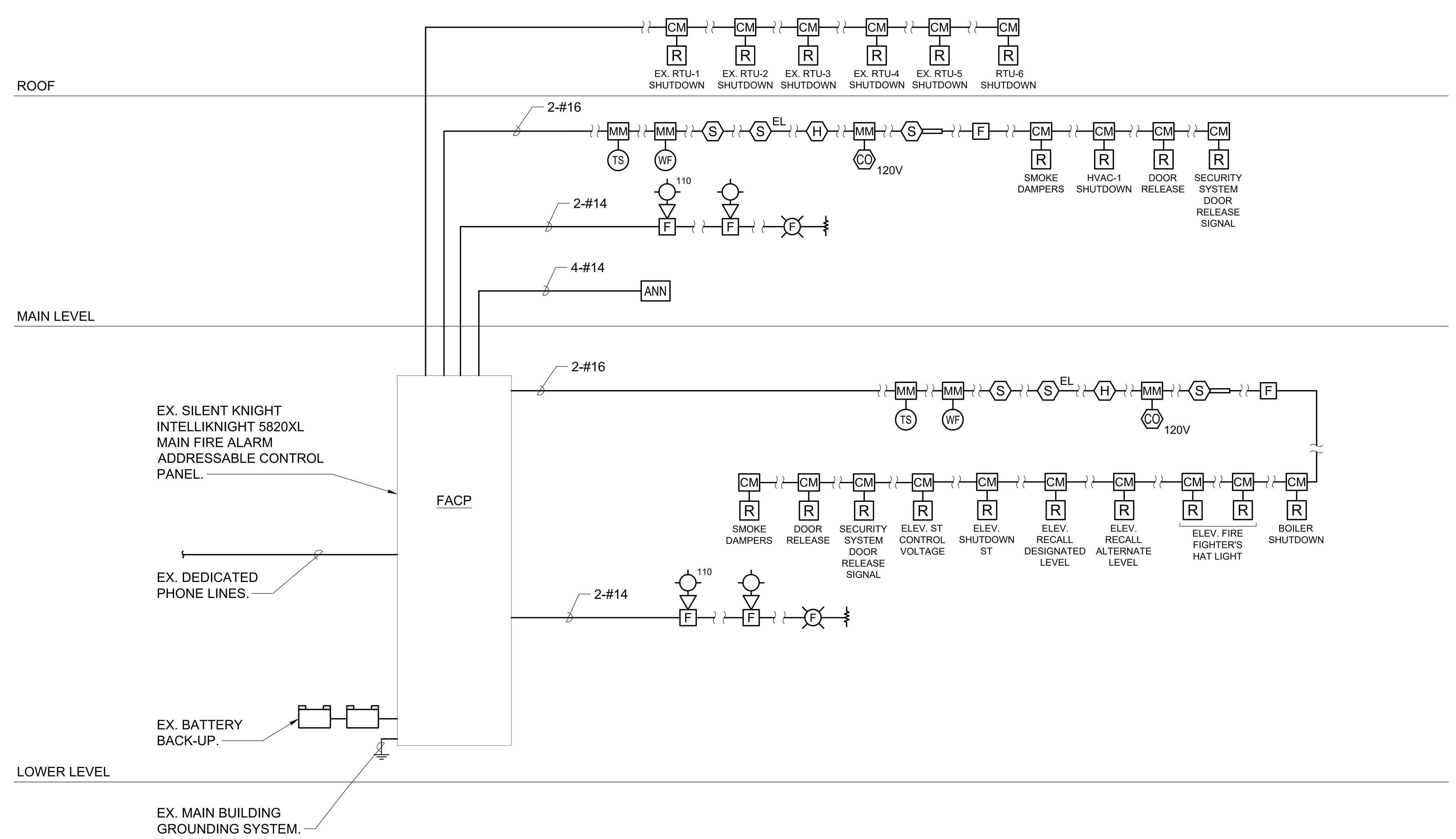
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC – RM 166	20	1	1	20	REC – OUTDOOR	2
3	REC – RM 166	20	1	1	20	REC – ROBOREEL	4
5	REC – RM 166A	20	1	1	20	REC – RM 166 3D PRINTER	6
7	REC – RM 165	20	1	1	20	REC – RM 166 VINYL CUTTER	8
9	REC – RM 164	20	1	1	20	SP–1 MAKER SPACE	10
11	REC – RM 163	20	1	–	–	–	12
13	REC – RM 161	20	1	–	–	–	14
15	REC – RM 161	20	1	–	–	–	16
17	REC – RM 160	20	1	–	–	–	18
19	REC – RM 160	20	1	–	–	–	20
21	REC – RM 160 COPIER	20	1	–	–	–	22
23	JBOX – RM 160 SELF CHECK	20	1	–	–	–	24
25	REC – FLR RM 160	20	1	–	–	–	26
27	REC – RM 160	20	1	–	–	–	28
29	REC – RM 160	20	1	–	–	–	30
31	REC – RM 160 BACKLIT MAP	20	1	–	–	–	32
33	REC – RM 166 3D PRINTER	20	1	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

RISER NOTES:

1. THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
3. QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
4. PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES TO EXISTING SYSTEM.
5. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
6. PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TEN (10) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE ADDITIONAL FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
7. HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
8. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
9. CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
10. ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
11. ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
12. DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
13. PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
14. CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
15. CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
16. BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
17. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".



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ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL SCHEDULES AND FIRE ALARM RISER DIAGRAM

E-602

CONSTRUCTION DOCUMENTS

01.14.2022

PP5 PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: 200A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	VAVS	20	1	1	20	VAVS	2
3	MOTORIZED DAMPERS	20	1	1	15	EF-1	4
5	TX-4	15	1	1	15	TX-1	6
7	REC – ROOF	20	1	1	15	MAU-1	8
9	ACC-B	15	2	1	20	PLUMBING FIXT. RM T103	10
11				1	20	REC – RMS 123 & 131	12
13	REC – RM 128	20	1	1	20	REC – RM 131A	14
15	REC – RM 110	20	1	1	20	REC – RM 131A	16
17	REC – RM 110	20	1	1	20	REC – RM 122	18
19	REC – RM 121	20	1	1	20	REC – RM 122	20
21	REC – RM 121	20	1	1	20	HAND DRYER – RM T102	22
23	REC – RM 120	20	1	1	20	HAND DRYER – RM T102	24
25	REC – RM 120	20	1	1	20	REC – RMS T101 & T120	26
27	REC – RM 130	20	1	1	20	REC – RM T102	28
29	REC – RM 130	20	1	1	20	REC – RM	30
31	REC – RM 130	20	1	1	20	REC – RM	32
33	PLUMBING FIXT. RM T101/T102	20	1	1	20	REC – RM	34
35	RFID GATES	20	1	1	20	PLUMBING FIXT. RM T150	36
37	CO ALARMS	20	1	1	20	REC – RM 110	38
39	–	–	–	–	–	–	40
41	–	–	–	–	–	–	42
43	–	–	–	–	–	–	44
45	–	–	–	–	–	–	46
47	–	–	–	–	–	–	48
49	–	–	–	–	–	–	50
51	–	–	–	–	–	–	52
53	–	–	–	–	–	–	54
55	–	–	–	–	–	–	56
57	–	–	–	–	–	–	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

LPF PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: 200A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. LOAD	20*	1	1	20*	EX. LOAD	2
3	EX. LOAD	20*	1	1	20*	EX. LOAD	4
5	EX. LOAD	20*	1	1	20*	EX. LOAD	6
7	EX. LOAD	20*	1	1	20*	EX. LOAD	8
9	EX. LOAD	20*	1	1	20*	EX. LOAD	10
11	EX. LOAD	20*	1	1	20*	EX. LOAD	12
13	EX. LOAD	20*	1	1	20*	EX. LOAD	14
15	REC – RM 001/001C	20	1	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

1. * – CONTRACTOR SHALL EXTEND PANELBOARD "LPF" EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD, U.O.N.

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ISSUES AND REVISIONS

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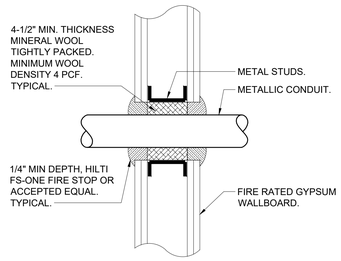
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL SCHEDULES AND FIRE ALARM RISER DIAGRAM

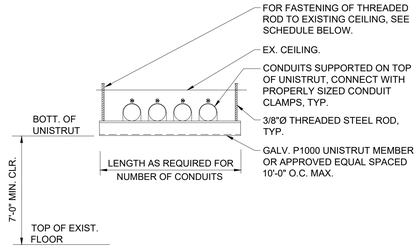
E-603

CONSTRUCTION DOCUMENTS

01.14.2022

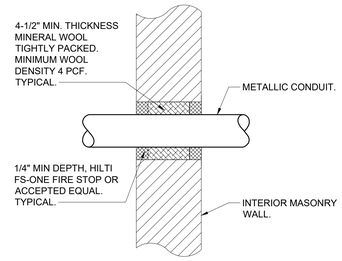


9 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

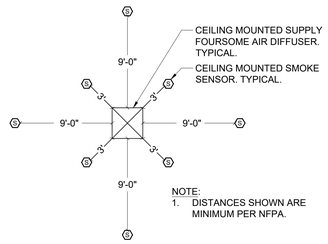


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

6 TRAPESE SUPPORT DETAIL
SCALE: NONE

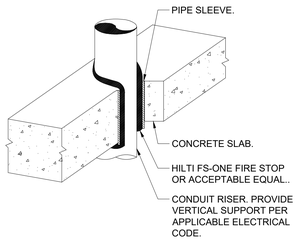


3 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

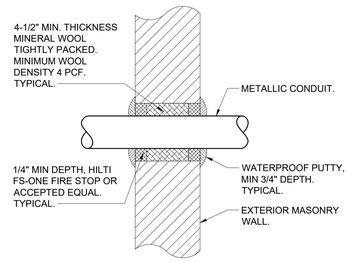


NOTE:
1. DISTANCES SHOWN ARE MINIMUM PER NFPA.

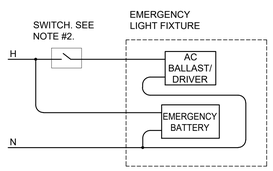
8 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE



5 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

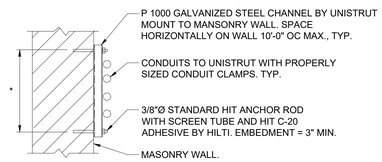


2 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



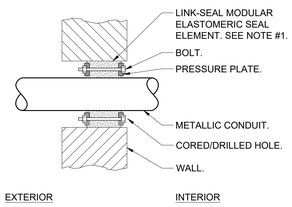
NOTES:
1. THE CONNECTION TO THE LAMPS IS NOT SHOWN - FOLLOW MANUFACTURER WIRING DIAGRAMS.
2. "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.

7 SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM
SCALE: NONE



* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

4 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL
SCALE: NONE



NOTES:
1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE

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	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

ELECTRICAL DETAILS

E-701

CONSTRUCTION DOCUMENTS
01.14.2022

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	EX.	EXISTING TO REMAIN
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
	—	ELBOW UP
	—	ELBOW DOWN
	—	TEE DOWN
	—	TEE UP
	—	PIPE CAP OR FLUSHING CONNECTION
	—	GATE VALVE
	—	OS&Y GATE VALVE
	—	BUTTERFLY VALVE
	—	CHECK VALVE
	—	UNION
	—	TEMPERATURE GAGE
	—	PRESSURE GAGE
FS	—	WATER FLOW SWITCH
TS	—	TAMPER SWITCH
	—	INSPECTORS TEST CONNECTION
	—	FLOW ARROW
	—	SPRINKLER GUARD
E OR E	—	EXISTING SPRINKLER TO REMAIN
OR	—	EXISTING SPRINKLER TO BE REMOVED
N	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED.
N	—	NEW UPRIGHT SPRINKLER
	—	SIDEWALL SPRINKLER
	—	POINT OF CONNECTION
	—	POINT OF DISCONNECTION
N1	—	HYDRAULIC REFERENCE NODE
S2	—	HYDRAULIC REFERENCE SPRINKLER
	FDC	FIRE DEPARTMENT CONNECTION
	FP	FIRE PUMP
	AFF	ABOVE FINISHED FLOOR
	AHC	ABOVE HUNG CEILING
	ATC	AT CEILING
	BFP	BACKFLOW PREVENTOR
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
	DCV	DOUBLE CHECK VALVE BFP
	DN.	DOWN
	FCA	FLOOR CONTROL ASSEMBLY
	FD	FLOOR DRAIN
	FLFD	FUNNEL FLOOR DRAIN
	GPM	GALLONS PER MINUTE
	JP	JOCKEY PUMP
	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	(N0)	NORMALLY OPEN
	(NC)	NORMALLY CLOSED
	NTS	NOT TO SCALE
	PRV	PRESSURE REDUCING VALVE
	PSI	POUNDS PER SQUARE INCH
	RPZ	REDUCED PRESSURE ZONE BFP
	SF	SQUARE FOOT
	TS	TAMPER SWITCH
	TYP	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

EQUIPMENT NOTES

1. TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
   - MODEL OSYSU-2 - FOR OS&Y VALVES.
   - MODEL PCVS-2 - FOR BUTTERFLY VALVES.
   - MODEL RBVS - FOR BALL VALVES.
2. SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
3. FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON CROKER 6030 OR EQUAL AT BUILDING FACADE. SIAMESE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO AHJ STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE.
4. SPRINKLERS: REFER TO DRAWING SP-701 FOR SPRINKLER HEAD SCHEDULE.

GENERAL NOTES

1. THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMESIS.
2. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST ON THE MUNICIPAL WATER MAIN SERVICING THE BUILDING TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.
4. ALTER PIPING AS REQUIRED TO SUIT NEW AND EXISTING CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
5. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
6. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
7. SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED FULLY COORDINATED AND RECONCILED WITH SUBMITTED HYDRAULIC CALCULATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER.
8. INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
9. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
10. PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
11. SPRINKLER PLAN SHOWS NEW, EXISTING TO REMAIN AND SPRINKLER HEADS TO BE REMOVED ONLY. ADD SPRINKLER HEADS AS SHOWN ON PLAN AND REUSE EXISTING BRANCH PIPING. MODIFY, EXTEND, AND SHORTEN PIPING AS REQUIRED.
12. EXISTING FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. ALL REQUIRED EXTENDER PANELS, CODE TRANSMITTERS, ETC. AS MAY BE REQUIRED TO INTEGRATE THE SYSTEM EXPANSION SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR.
13. EXISTING DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS, AND APPARATUS SHALL BE MAINTAINED.
14. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
15. ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2016) SECTION 11.3.
16. THE CONTRACTOR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.

DESIGN CRITERIA

HAZARD CLASSIFICATION(1)	DENSITY(2)	PROTECTION AREA PER SPRINKLER(3)
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX

NOTES:
1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016.
5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).
6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE RISER OR SPRINKLER CONTROL VALVE (F.C.A).
FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

WATER SUPPLY DATA

DATE:	8/25/2021
TIME:	NOT PROVIDED
PERFORMED BY:	SUEZ
STATIC PRESSURE AT RESIDUAL FIRE HYDRANT:	120
RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT:	108
MEASURED FLOW AT FLOW FIRE HYDRANT:	1170
CITY MAIN SIZE:	12"Ø
CITY MAIN LOCATION:	NORTH MAIN STREET

NOTES:
FLOW HYDRANT #: 24-385
TEST HYDRANT #: 24-384
WORK ORDER #: 1962375

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ISSUES AND REVISIONS

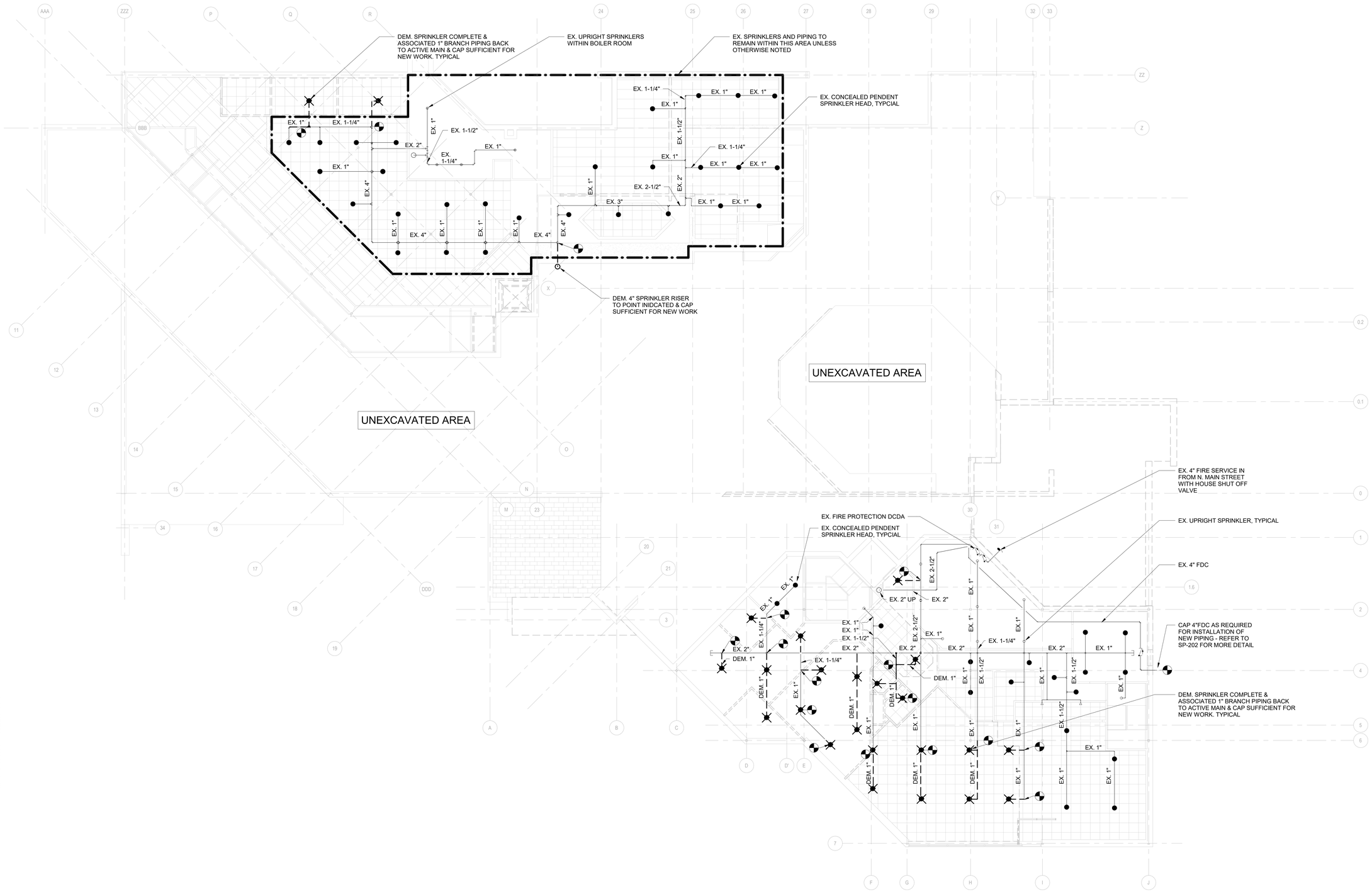
NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

SPRNIKLER SYMBOLS, ABBREVIATIONS AND NOTES

SP-001

CONSTRUCTION DOCUMENTS

01.14.2022



NORTH

1 SPRINKLER LOWER LEVEL DEMOLITION PLAN

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

NOTES:
1. PROVIDE FIRE WATCH DURING SPRINKLER SYSTEM SHUTDOWNS. SPRINKLER SYSTEM SHALL BE REFILLED AND ACTIVATED AT THE END OF EACH WORK DAY, COORDINATE WITH BUILDING MANAGEMENT. CONSTRUCTION SHALL BE PHASED SUCH THAT SYSTEM SHUTDOWNS ARE MINIMAL. COORDINATE ALL TIE-INS AND SYSTEM SHUT DOWNS WITH BUILDING MANAGEMENT AND PROVIDE AT LEAST TWO DAYS NOTICE.

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

SPRINKLER LOWER LEVEL DEMOLITION PLAN

SP-101

CONSTRUCTION DOCUMENTS
01.14.2022

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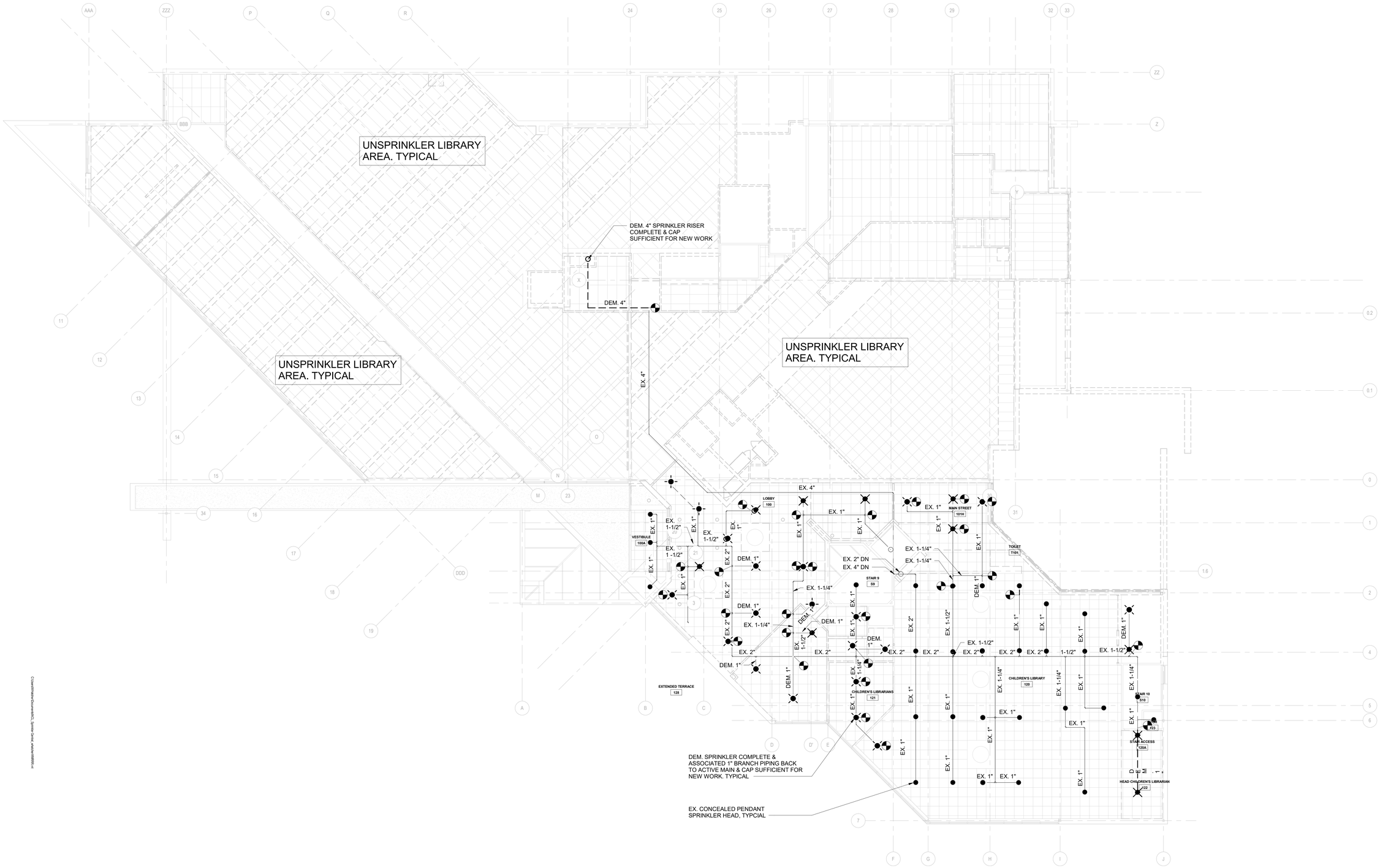

NORTH

1

SPRINKLER MAIN LEVEL DEMOLTION PLAN

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

NOTES:

1. PROVIDE FIRE WATCH DURING SPRINKLER SYSTEM SHUTDOWNS. SPRINKLER SYSTEM SHALL BE REFILLED AND ACTIVATED AT THE END OF EACH WORK DAY, COORDINATE WITH BUILDING MANAGEMENT.

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

SPRINKLER MAIN LEVEL DEMOLITION PLAN

SP-102

CONSTRUCTION DOCUMENTS
01.14.2022

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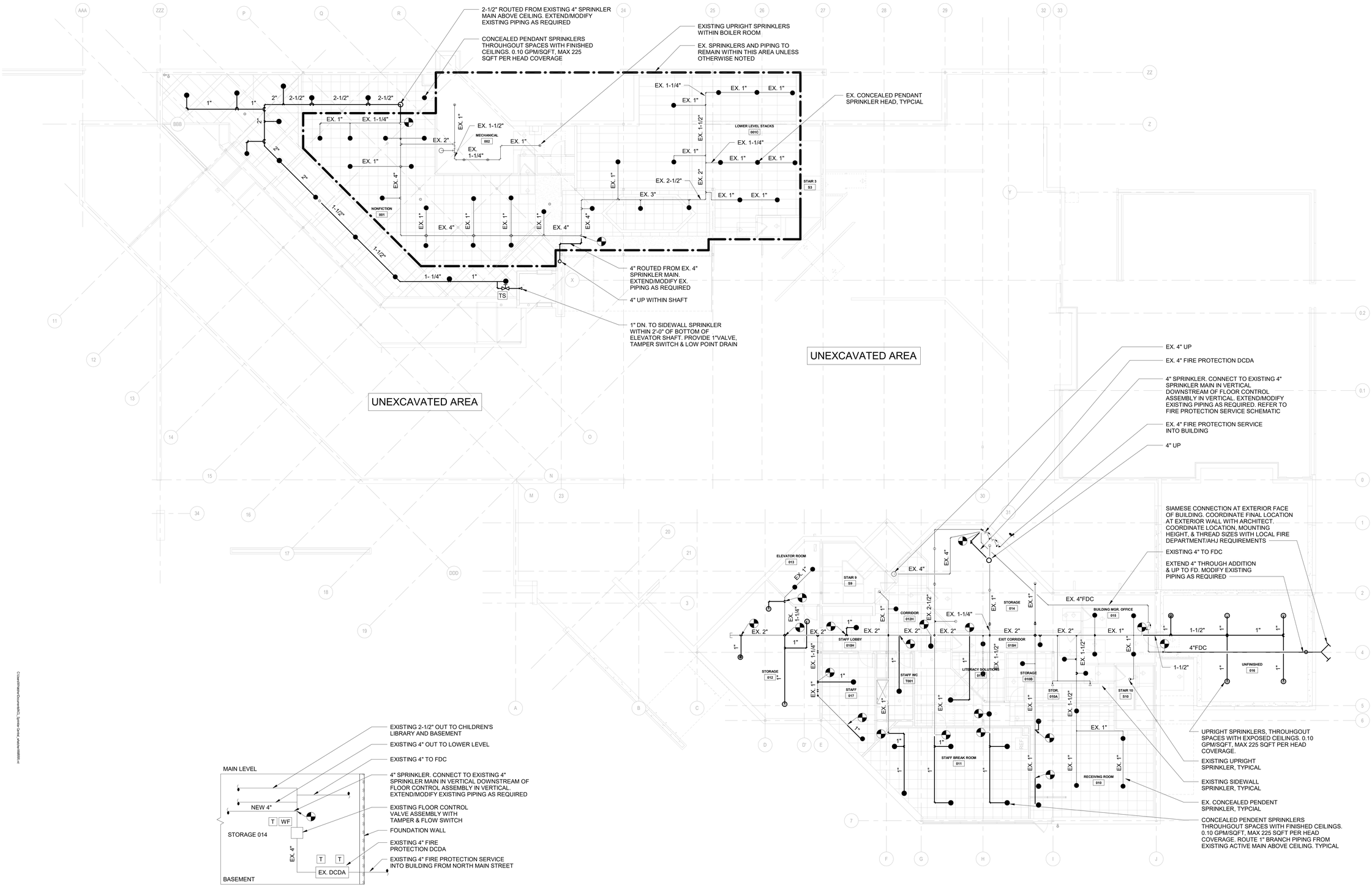

2 FIRE PROTECTION SERVICE SCHEMATIC

SCALE: NONE

1 SPRINKLER LOWER LEVEL NEW WORK PLAN

NORTH

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

NOTES:

1. PROVIDE FIRE WATCH DURING SPRINKLER SYSTEM SHUTDOWNS. SPRINKLER SYSTEM SHALL BE REFILLED AND ACTIVATED AT THE END OF EACH WORK DAY, COORDINATE WITH BUILDING MANAGEMENT. CONSTRUCTION SHALL BE PHASED SUCH THAT SYSTEM SHUTDOWNS ARE MINIMAL. COORDINATE ALL TIE-INS AND SYSTEM SHUT DOWNS WITH BUILDING MANAGEMENT AND PROVIDE AT LEAST TWO DAYS NOTICE.
2. SPRINKLER CONTRACTOR SHALL CONFIRM EXISTING SPRINKLERS TO BE STANDARD RESPONSE TYPE. ALL NEW SPRINKLERS WITHIN THE OPEN FLOOR AREAS SHALL BE STANDARD RESPONSE TYPE TO MATCH THE THE EXISTING HEAD RESPONSE TYPE. NEW SPRINKLERS WITHIN INDIVIDUAL ROOMS SHALL BE QUICK RESPONSE TYPE.

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3	100% CONSTRUCTION DOCUMENTS	01.14.2022

SPRINKLER LOWER LEVEL NEW WORK PLAN

SP-201

CONSTRUCTION DOCUMENTS

01.14.2022

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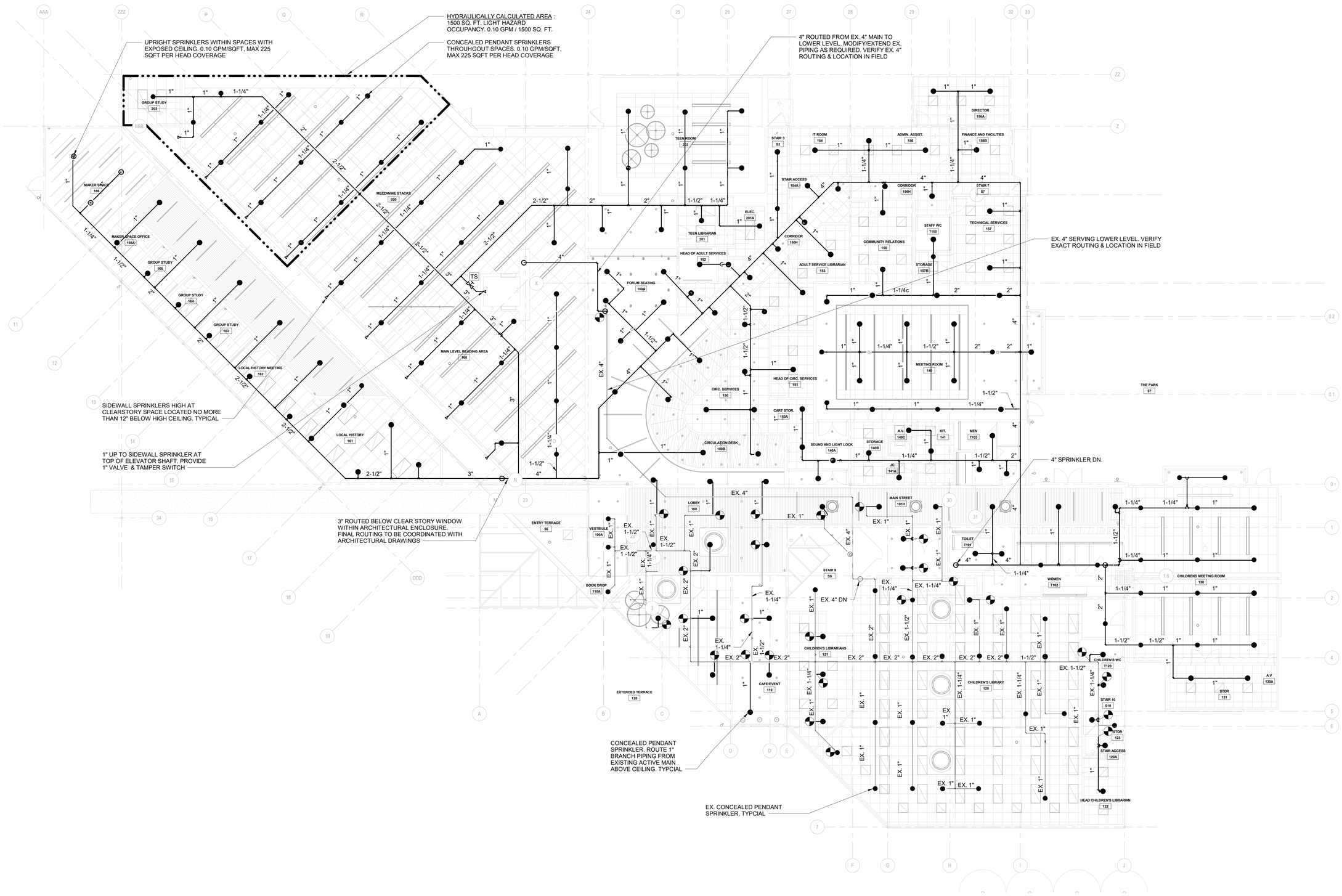

NORTH

1

SPRINKLER MAIN LEVEL NEW WORK PLAN

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

NOTES:
1. PROVIDE FIRE WATCH DURING SPRINKLER SYSTEM SHUTDOWNS. SPRINKLER SYSTEM SHALL BE REFILLED AND ACTIVATED AT THE END OF EACH WORK DAY, COORDINATE WITH BUILDING MANAGEMENT.
2. SPRINKLER CONTRACTOR SHALL CONFIRM EXISTING SPRINKLERS TO BE STANDARD RESPONSE TYPE. ALL NEW SPRINKLERS WITHIN THE OPEN FLOOR AREAS SHALL BE STANDARD RESPONSE TYPE TO MATCH THE THE EXISTING HEAD RESPONSE TYPE. NEW SPRINKLERS WITHIN INDIVIDUAL ROOMS SHALL BE QUICK RESPONSE TYPE.

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SPRINKLER MAIN LEVEL NEW WORK PLAN

SP-202

CONSTRUCTION DOCUMENTS

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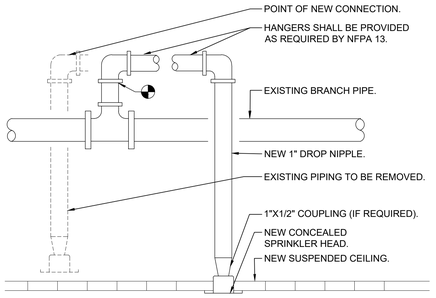


9 SPRINKLER HEAD RELOCATION DETAIL
SCALE: NONE

SPRINKLER HEAD SCHEDULE

SYM.	TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP.	MAX CEILING TEMP.	ORIFICE	K-FACTOR	MEA#
●	CONCEALED	FINISHED AREAS PER PLANS	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G5-56	165°F	100°F	½"	5.6	258-93-E
◎	UPRIGHT	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	½"	5.6	258-93-E
◁	SIDEWALL	FINISHED AREAS PER PLANS	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G6-56	165°F	100°F	½"	5.6	258-93-E

NOTES:

1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF AND HEADS IN TRASH CHUTE.
3. ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
   - 3.1. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, HOT WATER PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
   - 3.2. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

7 SPRINKLER HEAD SCHEDULE
SCALE: NONE

HYDRAULIC SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION _____

NO. OF SPRINKLERS _____

BASIS OF DESIGN
1--DENSITY _____ GPM/SQ.FT.
2--DESIGNED AREA OF DISCHARGE _____ SQ.FT.

SYSTEM DEMAND
1-GPM DISCHARGE _____ GPM
2-RESIDUAL PRESSURE AT FIRE PUMP DISCHARGE _____ P.S.I.

AUTO. SPRINKLER AND STANDPIPE _____

INSPECTORS TEST

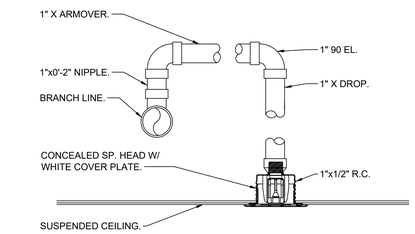
THIS VALVE CONTROLS AUTOMATIC SPRINKLER SYSTEM IN _____ AND MUST ALWAYS BE KEPT OPEN.

LOW POINT DRAIN

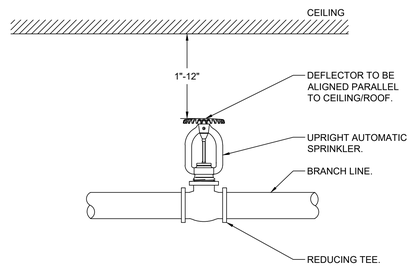
DRAIN VALVE

AUTO. SPRINKLER FIRE DEPT. CONNECTION FOR SPRK. SYST. _____

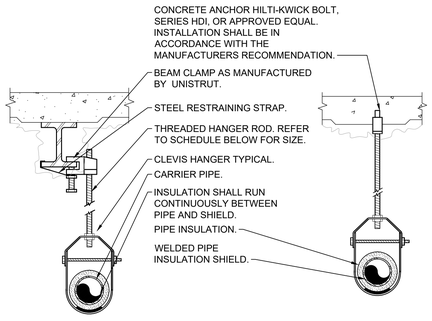
5 TYPICAL SIGNS
SCALE: NONE



3 TYPICAL CONCEALED PENDENT SPRINKLER
SCALE: NONE



2 TYPICAL UPRIGHT SPRINKLER
SCALE: NONE



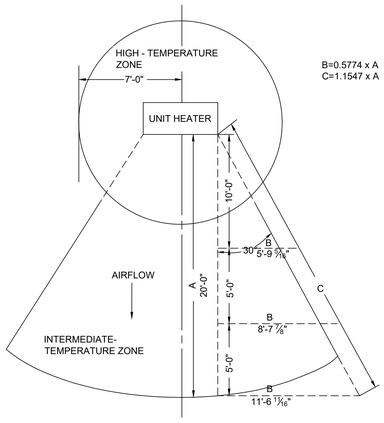
PIPE HANGER SCHEDULE

PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

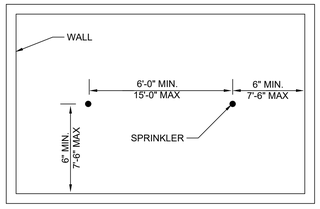
NOTES:

1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

8 PIPE HANGER DETAIL
SCALE: NONE

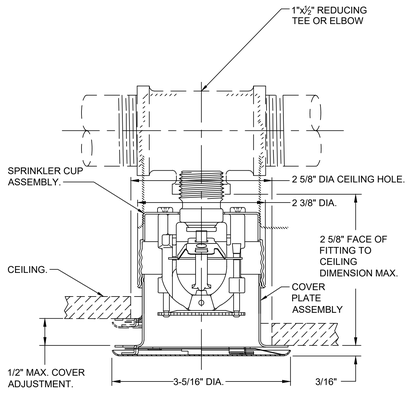


6 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
SCALE: NONE



	MAX AREA PER HEAD	DENSITY PER 1500 SQ. FT
LIGHT HAZARD	225 SQ. FT.	0.10 GPM/SQ. FT.
ORDINARY HAZARD	130 SQ. FT.	0.16 GPM/SQ. FT.

4 SPRINKLER HEAD SPACING CRITERIA
SCALE: NONE



NOTE: SPRINKLER COVER PLATE SHALL NOT BE INSTALLED UNTIL DEFLECTOR POSITION (DEPLOYED) IS CONFIRMED TO BE BELOW THE CEILING TILE.

1 CONCEALED PENDENT SPRINKLER HEAD
SCALE: NONE

VMDO

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200 E Market Street
Charlottesville, VA 22902

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New York, NY 10018
646.849.4110

OLA Project Number: NVMD0001.00

New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

STATE OF NEW YORK · BARBARA JILL HALAS · 075260 · LICENSED PROFESSIONAL ENGINEER

Checked By RG
Drawn By AMB

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021
	60% CONSTRUCTION DOCUMENTS	11.12.2021
	100% CONSTRUCTION DOCUMENTS	01.14.2022

SPRINKLER DETAILS

SP-701

CONSTRUCTION DOCUMENTS
01.14.2022

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MAIN FLOOR

DRAWING INDEX

AV-xx.yyy
- 001-099=OVERVIEW & NOTES
- 101-199=AV FACILITY & ELECTRICAL FLOOR & CEILING PLANS
- 201-299=AV AUXILARY PLANS
- 301-399=WIRING DIAGRAMS
- 401-499=CONTROL DIAGRAMS
- 501-599=DETAIL DIAGRAMS
- 00=GENERAL NOTES
- 01-99=SYSTEM NUMBER (TYPICALLY PER ROOM)

ISSUE DESCRIPTION/DATE: 11/12/2021 60% CD; 01/14/2022 100% CONSTRUCTION DOCUMENTS

DRAWING NO	DESCRIPTION	ISSUE NO	
AV-00.001	DRAWING INDEX, LEGEND, GENERAL NOTES & DIVISION OF RESPONSIBILITY	1	2
AV-00.002	AREA OF WORK - MAIN FLOOR	1	2
AV-00.501	AV DETAILS - 1	1	2
AV-00.502	AV DETAILS - 2	1	2
AV-01.101	AV ELECTRICAL & FACILITY PLAN - DIGITAL SIGNAGE DISPLAY	1	2
AV-02.101	AV ELECTRICAL & FACILITY PLAN - CHILDREN'S MEETING ROOM	1	2
AV-02.102	AV CONDUIT RISER - CHILDREN'S MEETING ROOM	1	2
AV-03.101	AV ELECTRICAL & FACILITY PLAN - ADULT MEETING ROOM	1	2
AV-03.102	AV CONDUIT RISER - ADULT MEETING ROOM	1	2

DIVISION OF RESPONSIBILITY

ABBREVATION KEY	
SYMBOL	DESCRIPTION
F	FURNISHED BY
I	INSTALLED BY
E	EXISTING
NA	NOT APPLICABLE

CEILING MOUNTED EQUIPMENT	USIS	CLIENT	G.C.	BASE E.C.	EXISTING/NA
MOTORIZED PROJECTION SCREEN	F/I				
MOTORIZED PROJECTION SCREEN - LINE VOLTAGE HOOKUP			F/I		
MOTORIZED PROJECTION SCREEN - LINE VOLTAGE INTERFACE & SWITCH	F/I				
MOTORIZED PROJECTION SCREEN - CEILING SUPPORTS/UNISTRUT			F/I		
MOTORIZED PROJECTION SCREEN - FRAMING OF CEILING TILE OR GYP			F/I		
PROJECTOR & MOUNT	F/I				
PROJECTOR - CEILING SUPPORTS/UNISTRUT			F/I		
FLAT PANEL					NA
FLAT PANEL MOUNT					NA
FLAT PANEL - CEILING SUPPORTS/UNISTRUT					NA
MICROPHONE & TERMINATION					NA
LOUDSPEAKER & TERMINATION	F/I				
LOUDSPEAKER - CEILING SUPPORTS/UNISTRUT			F/I		
CAMERA & MOUNT	F/I				
CAMERA - CEILING SUPPORTS/UNISTRUT			F/I		
LIGHT TRUSSES					NA
WALL MOUNTED EQUIPMENT					
FLAT PANEL MOUNT	F/I				
FLAT PANEL DISPLAY & TERMINATION	F/I				
FLAT PANEL BLOCKING/WALL SUPPORTS			F/I		
CAMERA					NA
CAMERA MOUNT					NA
CAMERA BLOCKING/WALL SUPPORTS					NA
CAMERA & TERMINATION					NA
LOUDSPEAKER & TERMINATION					NA
LOUDSPEAKER - BLOCKING/WALL SUPPORTS					NA
TOUCH PANEL	F/I				
BACK BOX FOR TOUCH PANEL				F/I	
FIXED SCREEN					NA
TABLE OR MILLWORK MOUNTED DEVICES					
MICROPHONE & TERMINATION	F/I				
MICROPHONE HOLE CUT IN TABLE/MILLWORK			F/I		
AV TABLE BOX					NA
AV TABLE BOX HOLE CUT IN TABLE/MILLWORK					NA
AV TABLE BOX CONNECTIVITY INSERTS					NA
TOUCH PANEL					NA
TABLE TOP AUDIO CONFERENCE PHONE					NA

ABBREVATION KEY	
SYMBOL	DESCRIPTION
F	FURNISHED BY
I	INSTALLED BY
E	EXISTING
NA	NOT APPLICABLE

FLOOR MOUNTED DEVICES	USIS	CLIENT	G.C.	BASE E.C.	EXISTING/NA
PORTABLE PODIUM		F/I			
VIDEO CONFERENCING SYSTEM & STAND/CART					NA
CREDENZA FOR AV EQUIPMENT					NA
AV RACK IN CREDENZA					NA
LECTERN		F/I			
AV RACK IN CLOSET	F/I				
PORTABLE SPEAKER TRIPOD					NA
AV ELECTRICAL					
AV ELECTRICAL OUTLETS AND CONNECTORS				F/I	
AV ELECTRICAL CONDUITS AND PULL LINE				F/I	
AV LOW VOLTAGE CABLE	F/I				
FLOOR CORE, POKE-THRU, FLOOR RACEWAY, FLOOR BOX & CONNECTRAC				F/I	
FLOOR BOX TERMINATION/POCKETS/DIVIDERS				F/I	
FLOOR BOX AC OUTLETS				F/I	
FLOOR BOX TEL/DATA PLATES				F/I	
CABLE LADDER TRAY				F/I	
FIRE ALARM RELAY ENCLOSURE				F/I	
AV CONNECTORS	F/I				
AV INTERCONNECT WALL PLATES	F/I				
AV ELECTRICAL BOXES AND COVER PLATES				F/I	
IN WALL PAC BOX BEHIND THE DISPLAY	F			I	
DATA NETWORK					
DATA CABLING		F/I			
CABLE TERMINATION		F/I			
NETWORK SERVICES		F/I			
DATA PLATES		F/I			
REPEATERS AND HUBS		F/I			
HIGH SPEED DATALINKS		F/I			
CONNECTORS		F/I			
FIRE ALARM MUTE		F/I			
VOICE NETWORK					
POTS (ANALOG PHONE) DISTRIBUTION & VOIP		F/I			
PBX PHONE DISTRIBUTION		F/I			
PBX SYSTEM		F/I			
CATV					
CATV PLATES		F/I			
CATV RF CABLE		F/I			
CATV DISTRIBUTION AMPLIFIERS		F/I			
CATV TAPS AND TERMINATORS		F/I			
CATV HORIZONTAL RISER		F/I			

AV, ELECTRICAL & ARCHITECTURAL NOTES

GENERAL NOTES:
1. UNLESS NOTED OTHERWISE, THE INFORMATION CONTAINED IN THIS DRAWING IS FOR REFERENCE ONLY.THIS DRAWING IS NOT INTENDED TO BE USED AS A CONSTRUCTION DOCUMENT. UPON APPROVAL, THESE DRAWINGS SHOULD BE INCORPORATED INTO THE ARCHITECTS OR ENGINEERS PROJECT CONSTRUCTION DOCUMENTS.
2. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND CONSTRUCTION DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT OR OWNER FOR RESOLUTION.
3. THE FINAL LOCATION OF ALL INDICATED DEVICES SHALL BE COORDINATED BY THE ARCHITECT OR OWNER.
4. WHERE EXACT DIMENSIONS ARE CALLED FOR, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT.
5. ALL DIFFUSERS SHOULD BE KEPT CLEAR OF ANY PROJECTION SCREEN TO AVOID MOVEMENT.
6. ALL DIFFUSERS SHOULD NOT MOVE AIR TOWARDS ANY CEILING MOUNTED MICROPHONE.
7. THE CONFERENCE ROOM WALL TO WHICH DISPLAY IS ANCHORED MUST BE FULL HEIGHT AND SECURED TO CEILING DECK TO AVOID SOUND TRANSFER AND MAINTAINING SAFETY FACTOR RATIO OF 5:1.

ELECTRICAL NOTES:
1. ALL INDICATED 120V SERVICE LOCATIONS AND OUTLETS ARE FOR THE EXCLUSIVE USE OF THE AUDIOVISUAL SYSTEMS AND EQUIPMENT EXCEPT WHERE NOTED, ALL AV POWER WITHIN A ROOM TO BE FED OFF ONE DEDICATED CIRCUIT AND BE ON THE SAME ELECTRICAL PHASE.
2. ALL AV SYSTEM POWER CIRCUITS SHALL BE PROTECTED BY 20AMP BREAKERS UON.
3. AV SYSTEM POWER CIRCUIT SHALL BE KEPT ISOLATED FROM LIGHTING DIMMERS, LARGE MOTORIZED EQUIPMENT OR OTHER INDUCTIVE OR NOISY ELECTRICAL LOADS.
4. ALL CONDUIT TO HAVE A PULL STRING INSTALLED , AND A SPARE STRING PULLED IN WITH THE CABLING.
5. UNLESS OTHERWISE NOTED ALL CONDUIT, PULL BOXES, TROUGH, WIRE WAYS, RACEWAYS, LADDER RACKS, AND OTHER INFRASTRUCTURE TO PROVIDE CABLE PATHWAYS FOR AUDIOVISUAL CABLING SHALL BE PROVIDED AND INSTALLED BY THE BASE ELECTRICAL CONTRACTOR.
6. WHERE POSSIBLE, EMPTY CONDUITS FOR AV SIGNAL SHALL BE KEPT 3 FEET FROM PARALLEL POWER CIRCUITS IN RUNS UNDER 80 FEET, AND 6 FEET IN RUNS OVER 80 FEET. AV WIRING, RACEWAYS AND CONDUITS MUST NOT RUN PARALLEL TO POWER MAINS OF POTENTIAL IN EXCESS OF 600V.
7. ALL CONDUIT SHALL BE CLEAN, DRY AND DEBURRED.
8. AUDIOVISUAL CABLE AND CONDUIT RUNS SHOULD MORE THAN 3 FEET FROM ALL POWER CIRCUITS. WHERE POWER AND AUDIOVISUAL CABLING AND CONDUIT MUST CROSS, THEY SHOULD DO SO AT RIGHT ANGLES.
9. ALL AUDIOVISUAL CONDUIT TO BE RIGID EMT UNLESS NOTED.IF FLEX CONDUIT OR GREEN FIELD IS SUBSTITUTED ADD 1/2"TO THE SPECIFIED DIAMETER SIZE.
10. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100 FEET OF STRAIGHT EMPTY CONDUIT AND EXTRA PULL BOXES FOR EVERY TWO 90 DEGREES BENDS IN A CONDUIT RUN.
11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL, LOCAL AND OTHER APPLICABLE CODES.
12. WHERE POWER, COMMUNICATION AND AV JUNCTION BOXES ARE GROUPED TOGETHER AT THE SAME LOCATION AND ELEVATION, INSTALL AS CLOSE TOGETHER AS PHYSICALLY POSSIBLE WITH SUFFICIENT SEPARATION FOR INDIVIDUAL DEVICE COVER PLATES.
13. WHERE POWER, COMMUNICATION OR AV JUNCTION BOX MUST COORDINATE WITH FIXED MILLWORK OR ARCHITECTURAL FEATURES, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND DETAILS.

GENERAL LIGHTING NOTES:
1. THE SPILL LIGHT ON FLAT PANEL DISPLAYS SHOULD BE LESS THAN 20 FOOT CANDLES.
2. THE SPILL LIGHT ON PROJECTION SCREENS SHOULD BE LESS THAN 10 FOOT CANDLES.
3. THE SUGGESTED COLOR TEMPERATURE FOR LAMPS IS 3000-3500K CORRELATED COLOR TEMPERATURE, 80 COLOR RENDERING INDEX (CRI)

GENERAL ACOUSTICAL NOTES:
1. THE ROOM AMBIENT NOISE SHOULD NOT EXCEED 35DB A-WEIGHTED.
2. THERE SHOULD BE AN OVERALL DESIGN GOAL OF NC-25 TO NC-30 NOISE CRITERIA RATING.
3. ACOUSTICAL PANELS OR "SOUND-SOAK" WALL TREATMENTS SHOULD BE CONSIDERED FOR TWO PERPENDICULAR WALL SURFACE.
4. ACOUSTICAL PROPERTIES OF THE CEILING TILES, CARPET AND CARPET PAD SHOULD BE CONSIDERED DURING SELECTION.
5. TO PREVENT SOUND LEAKAGE INTO THESE ROOMS FROM ADJOINING SPACES, ALL WALLS SHOULD EXTEND TO THE DECKING ABOVE. ALL PENETRATIONS LEAVING THE SPACE SHOULD BE SEALED AS REQUIRED. THE SPACE ABOVE THE CEILING TILES MAY ALSO NEED CONSIDERATION AND TREATED WITH FIBERGLASS BATTING.
6. ACOUSTICAL REFLECTIONS OFF ALL GLASS SURFACES SHOULD BE ADDRESSED WITH APPROPRIATE WINDOW TREATMENTS.
7. MAXIMUM REVERBERATION TIME SHOULD NOT EXCEED 0.5 SECONDS FOR ALL ROOMS.
8. THE RECOMMENDED SOUND TRANSMISSION CLASS FOR THE WALL CONSTRUCTION METHOD IS TO BE OF A STC-45 RATING.

ENVIRONMENTAL NOTES:
1. TO THE FULLEST EXTENT POSSIBLE ALL FINISHES SHOULD BE OF A NEUTRAL COLOR, LIGHT GRAY TO LIGHT BLUE IS RECOMMENDED FOR VIDEO CONFERENCING CAMERA FIELD OF VIEW.

CREDENZA/TABLE NOTES:
1. THE CABINETS CONTAINING THE EQUIPMENT RACKS MUST PROVIDE FOR THE CIRCULATION OF AIR TO REMOVE HEAT GENERATED BY AV EQUIPMENT. VENTS MUST BE PROVIDED AT FRONT/BOTTOM AND TOP/REAR OF CABINET TO MAINTAIN MAXIMUM INTERNAL TEMPERATURE OF 83 DEGREES.
2. THE DOORS ON THE SECTIONS CONTAINING THE EQUIPMENT RACKS MUST BE REMOVABLE OR HINGED TO PERMIT 180 DEGREES SWING TO ALLOW FOR SERVICING OF THE EQUIPMENT.
3. EXACT LOCATION AND SIZE OF MICROPHONE CUT OUT NEEDS TO BE COORDINATED AND APPROVED BY WITH THE ARCHITECT AND AVC.
   A. TABLE BOX LOCATION AND CUT OUT SIZE NEEDS TO BE COORDINATED AND APPROVED BY THE ARCHITECT AND AVC.
4. CREDENZA DETAILS AND DRAWINGS NEED TO BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, DESIGN TEAM AND AVC.

MISCELLANEOUS/PROJECT SPECIFIC NOTES:
AV RACK ROOM FLOORING TO BE A NON OR LOW STATIC VCT.

AV & ELECTRICAL SYMBOLS LEGEND

CEILING MOUNT SYMBOLS	
SYMBOL	DESCRIPTION
S# P/R	SPEAKER CONNECTION
SH#	SHADES CONNECTION
VP#	VIDEO PROJECTOR CONNECTION
PS#	PROJECTION SCREEN CONNECTION
PM#	VIDEO PROJECTOR LIFT CONNECTION
M#	MICROPHONE CONNECTION
LC#	LIGHTING CONTROLLER CONNECTION
AT#	ANTENNA CONNECTION
JB#	JUNCTION BOX/PULL BOX
SUB# P/R	SUBWOOFER CONNECTION
	DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT
	QUAD OUTLET 120V 20A DEDICATED CIRCUIT
	DUPLEX OUTLET 120V 20A
	QUAD OUTLET 120V 20A
	TEL/DATA CEILING OUTLET
L5-20R	L5-20R TWIST LOCK 20 AMP/120 V AC ELECTRICAL OUTLET
CL	CABLE LADDER TRAY ABOVE AV RACKS

FLOOR MOUNT SYMBOLS	
SYMBOL	DESCRIPTION
FB#	FLOOR BOX (REFER TO NOTE #3)
FC#	FLOOR CORE (REFER TO NOTE #3)
PT#	FLOOR POKE THROUGH DEVICE (REFER TO NOTE #3)
	DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT
	QUAD OUTLET 120V 20A, DEDICATED CIRCUIT
	DUPLEX OUTLET 120V 20A
	QUAD OUTLET 120V 20A

WALL MOUNT SYMBOLS	
SYMBOL	DESCRIPTION
CT#	CONDUIT TERMINATION POINT (REFER TO NOTE #1)
D#	DISPLAY CONNECTION (REFER TO NOTE #1)
SW#	PROJECTION SCREEN SWITCH (REFER TO NOTE #1)
CP#	CONTROL PANEL CONNECTION (REFER TO NOTE #1)
AT#	ANTENNA CONNECTION (REFER TO NOTE #1)
CA#	CAMERA CONNECTION (REFER TO NOTE #1)
PC#	LAPTOP CONNECTION (REFER TO NOTE #1)
SP#	SPEAKER CONNECTION (REFER TO NOTE #1)
AV#	AUDIO/VIDEO CONNECTION (REFER TO NOTE #1)
XLR#	MICROPHONE CONNECTION (REFER TO NOTE #1)
HA#	HEARING ASSISTANCE CONNECTION (REFER TO NOTE #1)
A/X#	MICROPHONE/LINE LEVEL AUDIO CONNECTION (REFER TO NOTE #1)
PR#	PRESENTER CONNECTION (REFER TO NOTE #1)
PR#	PANELIST CONNECTION (REFER TO NOTE #1)
AD#	ADMIN CONNECTION (REFER TO NOTE #1)
DA	DANTE CONNECTION (REFER TO NOTE #1)
USB	USB CONNECTION (REFER TO NOTE #1)
RS	ROOM SCHEDULER CONNECTION (REFER TO NOTE #1)
	DUPLEX OUTLET 120V 20A, DEDICATED CIRCUIT (REFER TO NOTE #2)
	QUAD OUTLET 120V 20A, DEDICATED CIRCUIT (REFER TO NOTE #2)
CL	RECESSED (CLOCK STYLE) OUTLET 120V 20A, DEDICATED CIRCUIT (REFER TO NOTE #2)
	DUPLEX OUTLET 120V 20A (REFER TO NOTE #2)
	QUAD OUTLET 120V 20A (REFER TO NOTE #2)
X#	TEL/DATA WORKSTATION OUTLET (REFER TO NOTE #4)

SYMBOLS KEY & NOTES

FLOOR SYMBOL
TYPE INDICATOR AND NUMBER OF DEVICES → Z#

WALL SYMBOL
TYPE INDICATOR AND NUMBER OF DEVICES → Z#
GANG → X
INCHES AFF → Y

CEILING SYMBOL
TYPE INDICATOR AND NUMBER OF DEVICES → Z#
INDICATED PENDANT OR RECESSED DEVICE → P/R

AV & ELECTRICAL SYMBOL NOTES:
1. ALL GANG JUNCTION BOXES TO BE A MINIMUM 2-1/2" DEEP UON. ALL MOUNTING HEIGHTS ARE TO BE CENTER OF DEVICE UON.
2. ALL MOUNTING HEIGHTS ARE TO BE CENTER OF DEVICE UON.
3. ARCHITECT TO COORDINATE WITH ELECTRICAL ENGINEER.
4. "X" REFERS TO NUMBER OF PLENUM RATED CAT 6 CABLES, RELATED TO THE DATA DROP SYMBOL SEE ELECTRICAL SERIES DRAWINGS FOR PATHWAY AND INSTALLATION DETAILS.

AUDIOVISUAL ABBREVATIONS

SYMBOL	DESCRIPTION
AVC	AUDIOVISUAL CONTRACTOR
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AV	AUDIOVISUAL
BFC	BELOW FINISHED CEILING
BEH	BASE ELECTRICAL HEIGHT
CL	CENTER LINE
C	CONDUIT
EMT	ELECTRICAL METALLIC TUBING
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
H	HEIGHT
MIN	MINIMUM
MAX	MAXIMUM
NIC	NOT IN CONTRACT
OFE	OWNER FURNISHED EQUIPMENT
TYP	TYPICAL
TBV	TO BE VERIFIED
TBD	TO BE DETERMINED
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD

CONDUIT LEGEND

SYMBOL	DESCRIPTION
	EMT CONDUIT
	FREE AIR CABLE

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New City Library

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GRAPHIC SCALE - 12" = 1'-0"
0 | 0' - 1" | 0' - 2" | 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

DRAWING INDEX, LEGEND, GENERAL NOTES & DIVISION OF RESPONSIBILITY

AV-00.001

CONSTRUCTION DOCUMENTS
11.12.2021

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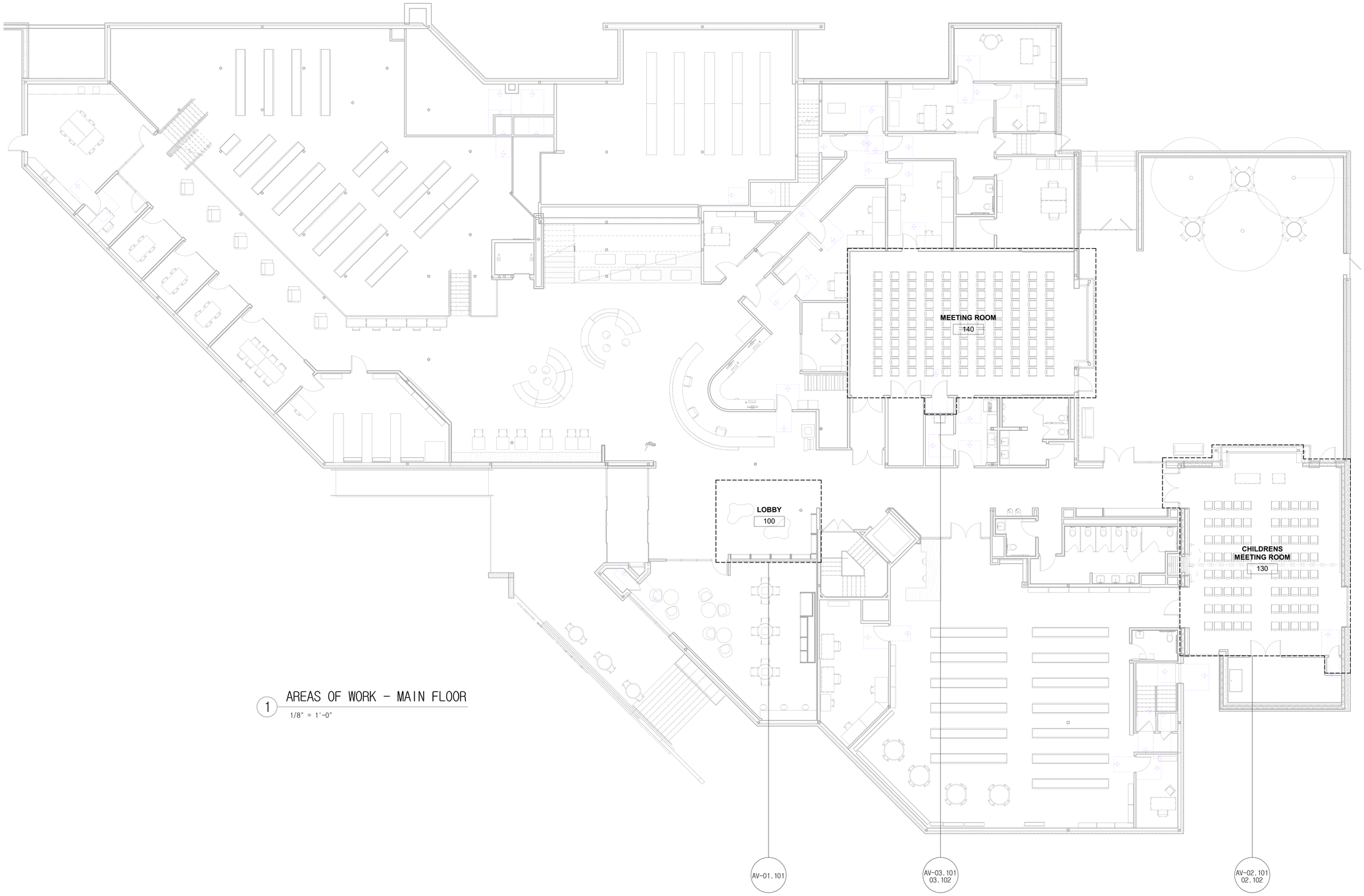

1 AREAS OF WORK - MAIN FLOOR

1/8" = 1'-0"

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0 0'-1" 0'-2" 0'-3"

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NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

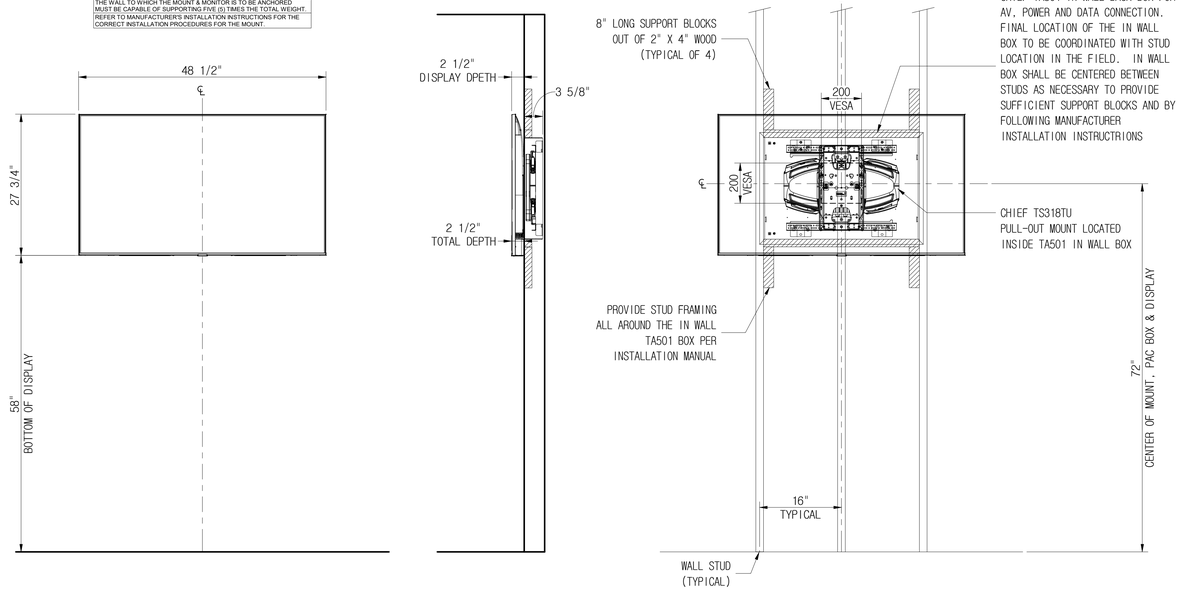
AREAS OF WORK - MAIN FLOOR

AV-00.002

CONSTRUCTION DOCUMENTS

11.12.2021

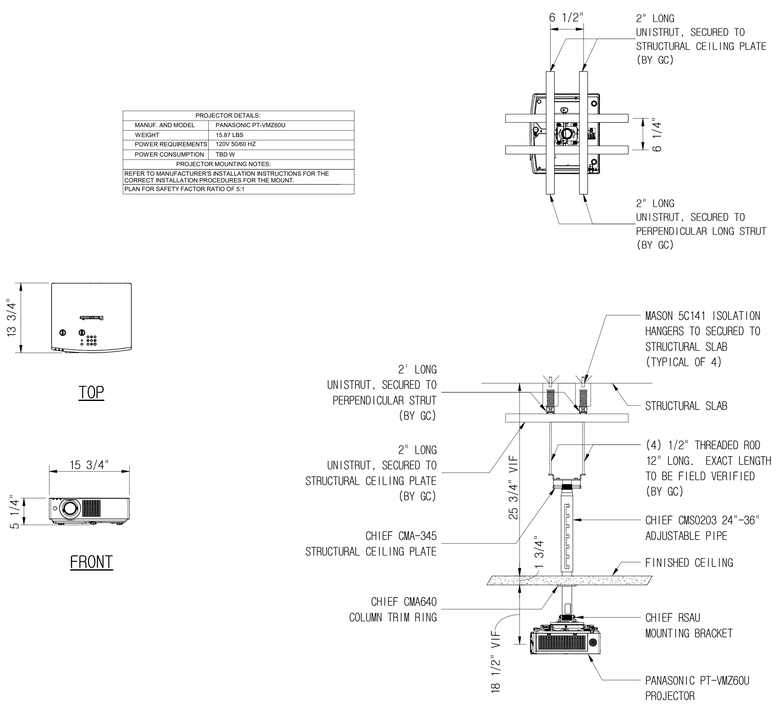
DISPLAY DETAILS:	
MANUF. AND MODEL	SAMSUNG BE55T-H 55" DISPLAY
WEIGHT	30.6 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	140 W
DISPLAY MOUNTING NOTES:	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	
THE WALL TO WHICH THE MOUNT & MONITOR IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	



SAMSUNG BE55T-H 55" DISPLAY MOUNTING DETAIL

1 — 1" = 1'-0"

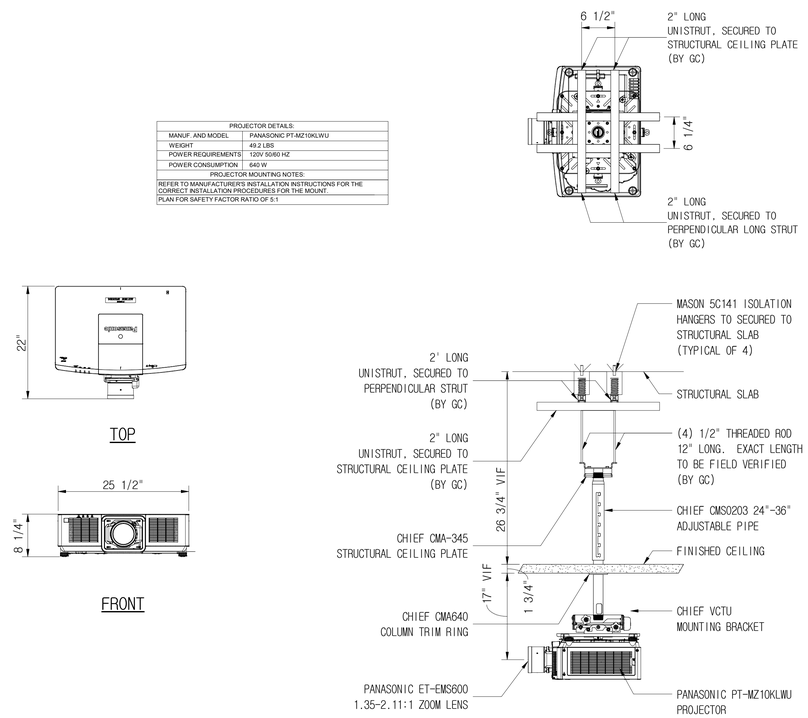
PROJECTOR DETAILS:	
MANUF. AND MODEL	PANASONIC PT-VMZ60U
WEIGHT	15.87 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	TBD W
PROJECTOR MOUNTING NOTES:	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	



PANASONIC PT-VMZ60U PROJECTOR MOUNTING DETAIL

2 — 1" = 1'-0"

PROJECTOR DETAILS:	
MANUF. AND MODEL	PANASONIC PT-MZ10KLWU
WEIGHT	49.2 LBS
POWER REQUIREMENTS	120V 50/60 HZ
POWER CONSUMPTION	640 W
PROJECTOR MOUNTING NOTES:	
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.	
PLAN FOR SAFETY FACTOR RATIO OF 5:1	



PANASONIC PT-MZ10KLWU PROJECTOR MOUNTING DETAIL

3 — 1" = 1'-0"

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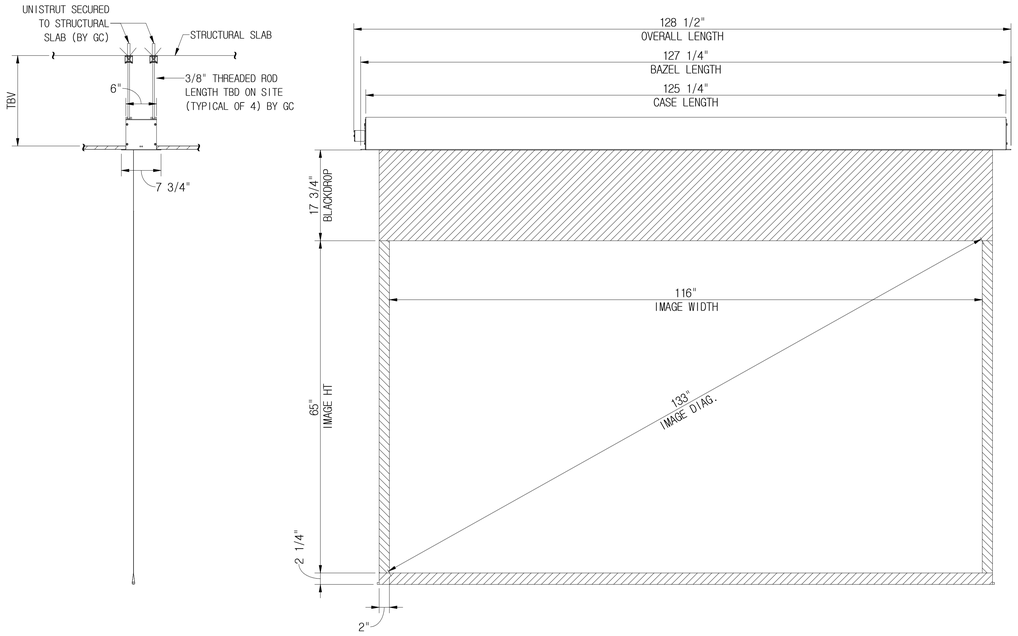
AV DETAILS - 1

AV-00.501

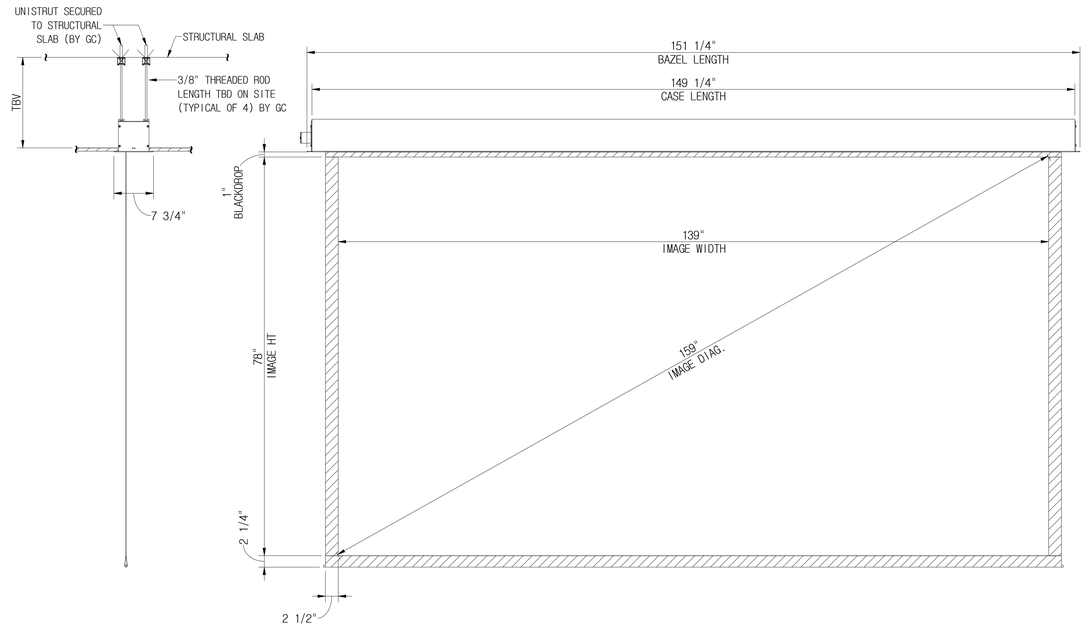
CONSTRUCTION DOCUMENTS

11.12.2021



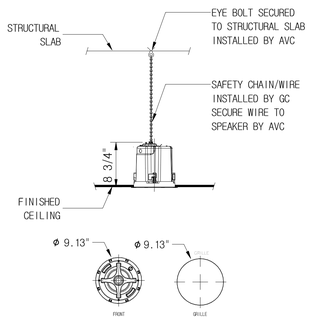
DA-LITE 84328LS 133" CEILING RECESSED ELECTRIC PROJECTION SCREEN

1 — 1" = 1'-0"



DA-LITE 84329L 159" CEILING RECESSED ELECTRIC PROJECTION SCREEN

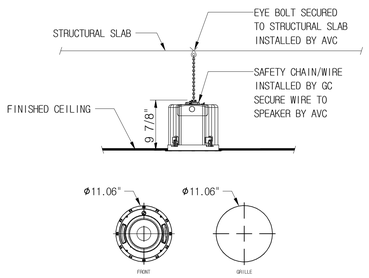
2 — 1" = 1'-0"



TEMPLATE HOLE CUTOUT SIZE - Ø 8.25"

SONANCE PS-C63RT CEILING RECESSED SPEAKER

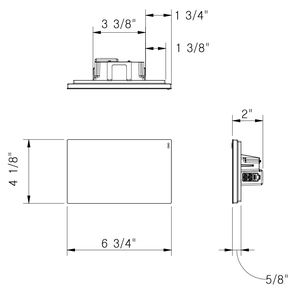
3 — 1" = 1'-0"



TEMPLATE HOLE CUTOUT SIZE - Ø 10.125"

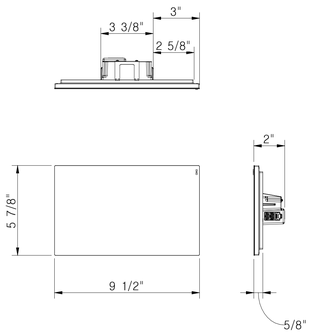
SONANCE PS-C83RT CEILING RECESSED SPEAKER

4 — 1" = 1'-0"



CRESTRON TSW-770 TOUCH PANEL

5 — 3" = 1'-0"



CRESTRON TSW-1070 TOUCH PANEL

6 — 3" = 1'-0"

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Client Project Number
VMDO Project Number

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Drawn By FCC

GRAPHIC SCALE - 12" = 1'-0"

0 0'-1" 0'-2" 0'-3"

ISSUES AND REVISIONS

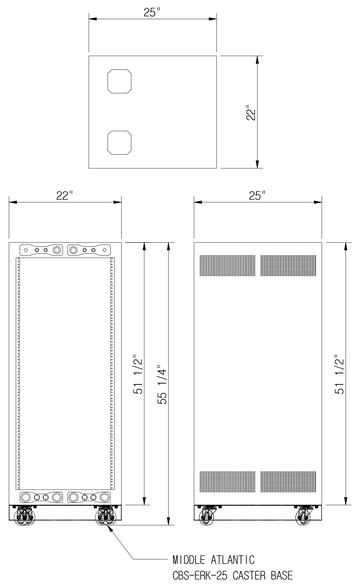
NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

AV DETAILS - 2

AV-00.502

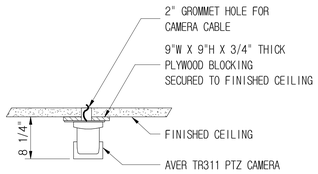
CONSTRUCTION DOCUMENTS

11.12.2021

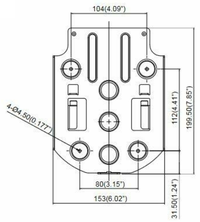


1 MIDDLE ATLANTIC ERK-2725 AV RACK

1" = 1'-0"



SIDE VIEW

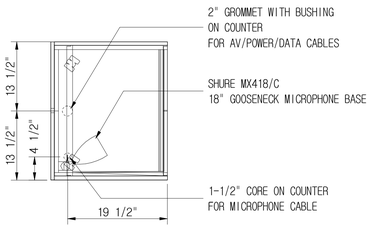


Ceiling installation

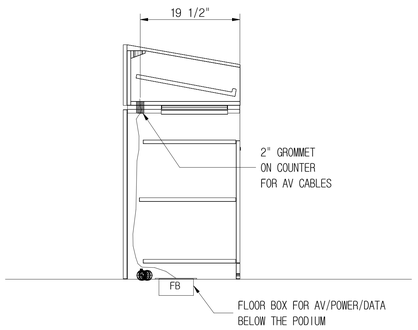
1. Secure the mount bracket on the ceiling. Screw: 4 screws, M4 x 10mm(Not Included in the package)	2. Install the mount bracket on the camera. Screw: 1 screw , 1/4"-20 L=6.5mm(Included in the package)
3. Slide the mount bracket with the camera into the mount bracket which secured on the ceiling. **[Note]** Connects necessary cables after sliding the camera into the mount bracket.	4. Secure the camera with screws. Screw: 3 screws, M3 x 6mm(Included in the package)

AVER TR311 AUTO-FRAMING PTZ CAMERA
ON PTMLTCM01 CEILING MOUNT

2 1" = 1'-0"



PLAN VIEW



SIDE VIEW

3 PORTABLE PODIUM DETAIL

1" = 1'-0"

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0 0'-1" 0'-2" 0'-3"

ISSUES AND REVISIONS

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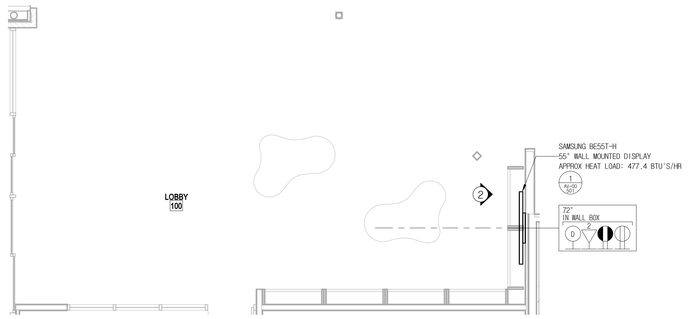
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

AV DETAILS - 3

AV-00.503

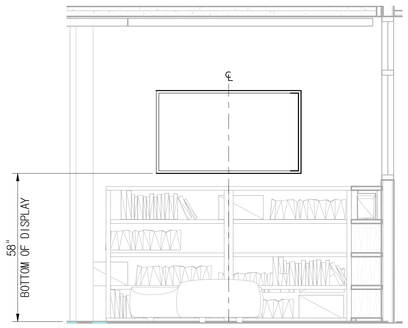
CONSTRUCTION DOCUMENTS

11.12.2021



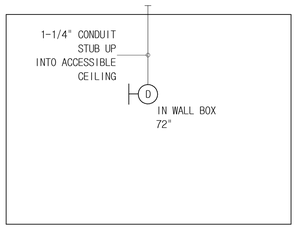
1 AV ELECTRICAL & FACILITY PLAN - DIGITAL SIGNAGE DISPLAY

1/4" = 1'-0"



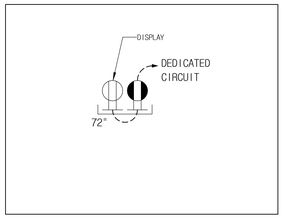
2 DIGITALE SIGNAGE ELEVATION

1/2" = 1'-0"



3 DIGITAL SIGNAGE CONDUIT RISER

1" = 1'-0"



4 DIGITAL SIGNAGE POWER CIRCUIT DIAGRAM

1" = 1'-0"

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0 0'-1" 0'-2" 0'-3"

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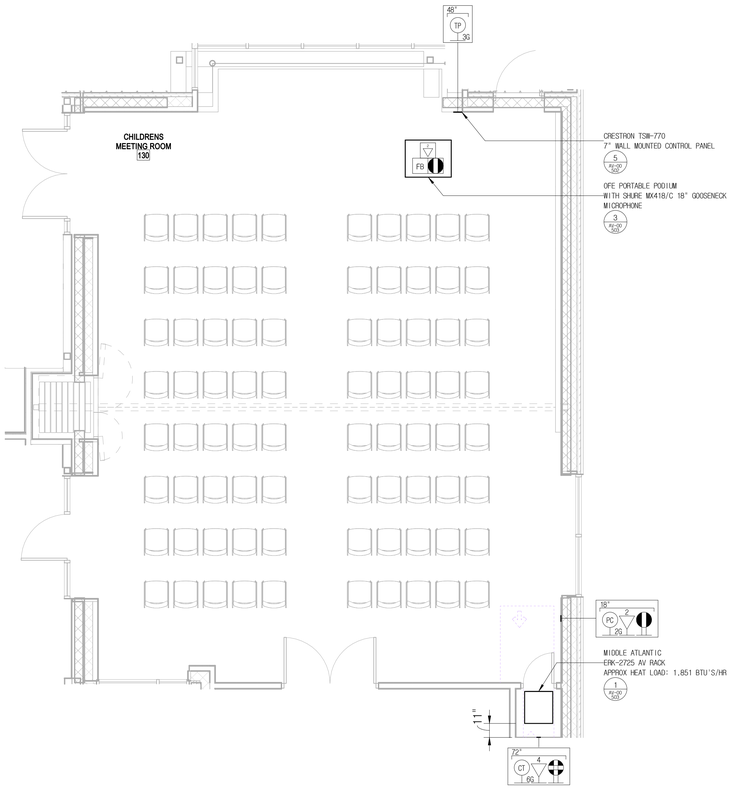
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

AV ELECTRICAL & FACILITY PLAN - DIGITAL SIGNAGE DISPLAY

AV-01.101

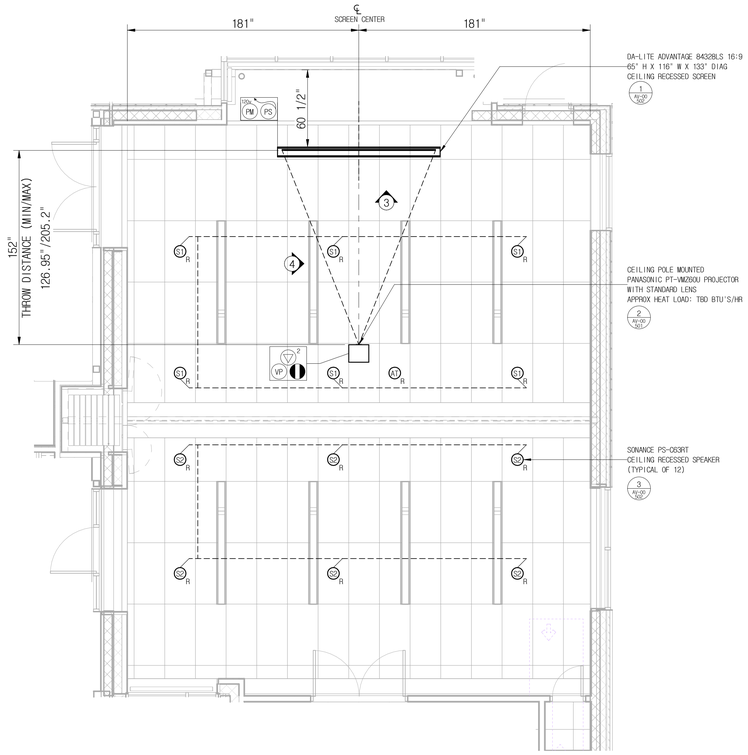
CONSTRUCTION DOCUMENTS

11.12.2021



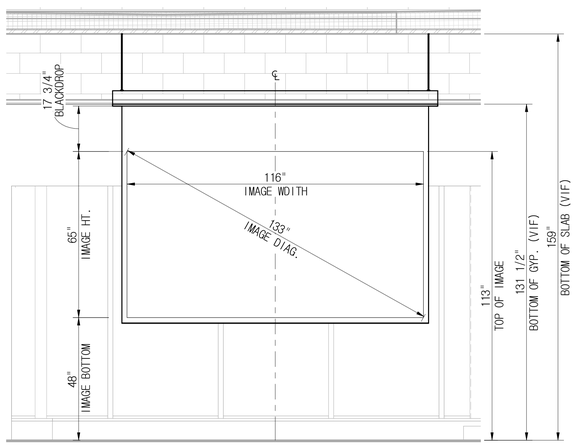
1 AV ELECTRICAL & FACILITY PLAN - CHILDREN MEETING ROOM

1/4" = 1'-0"



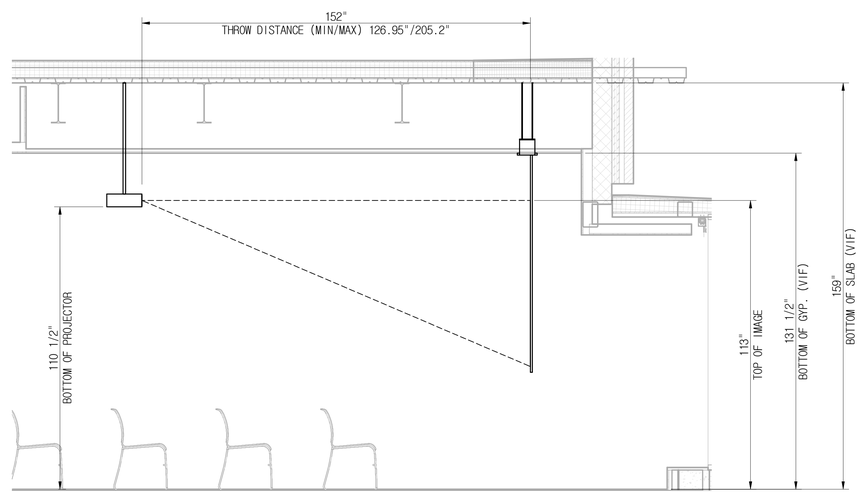
2 AV ELECTRICAL & FACILITY CEILING PLAN - CHILDREN MEETING ROOM

1/4" = 1'-0"



3 CHILDREN'S MEETING ROOM FRONT ELEVATION

1/2" = 1'-0"



4 CHILDREN'S MEETING ROOM SIDE ELEVATION

1/2" = 1'-0"

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GRAPHIC SCALE - 12" = 1'-0"
0 0'-1" 0'-2" 0'-3"

ISSUES AND REVISIONS

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1	60% CD	11/12/2021
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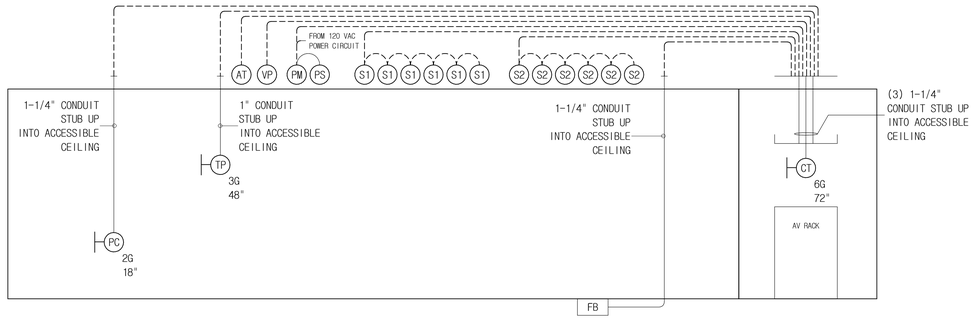
AV ELECTRICAL & FACILITY PLAN - CHILDREN'S MEETING ROOM

AV-02.101

CONSTRUCTION DOCUMENTS

11.12.2021



1 CHILDREN'S MEETING ROOM CONDUIT RISER

1" = 1'-0"

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0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

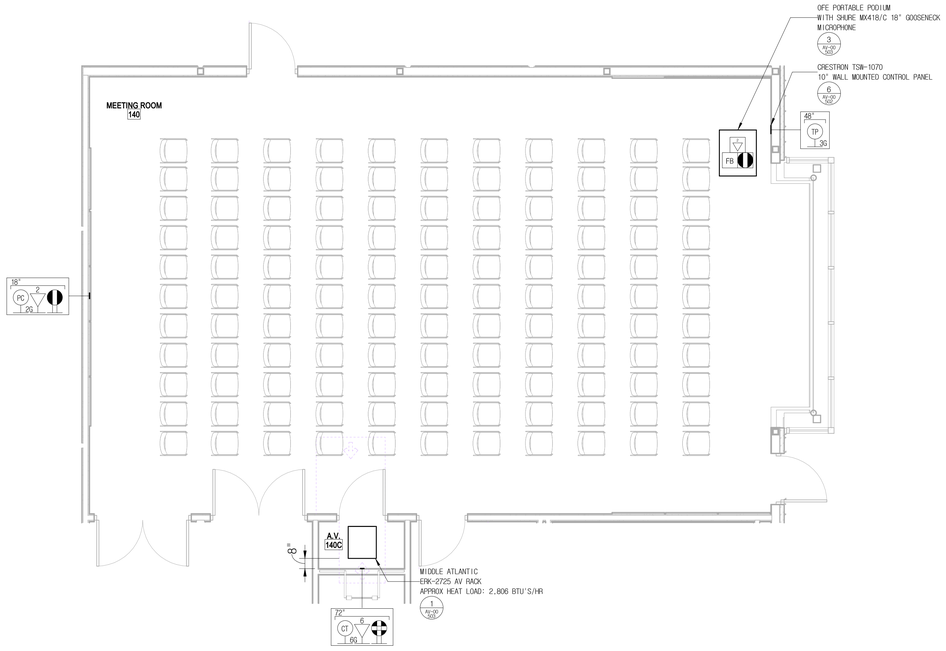
NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

AV CONDUIT RISER - CHILDREN'S MEETING ROOM

AV-02.102

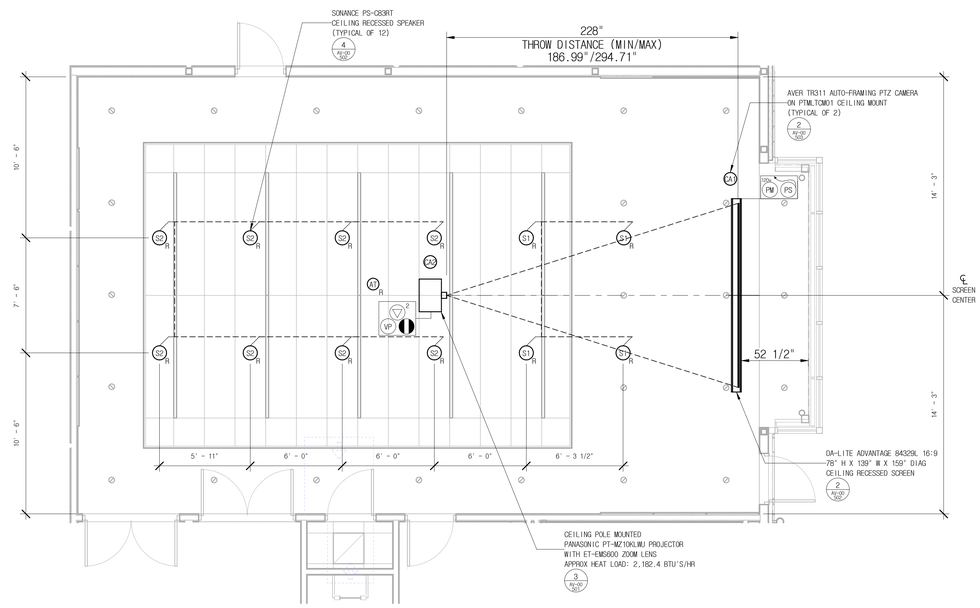
CONSTRUCTION DOCUMENTS

11.12.2021



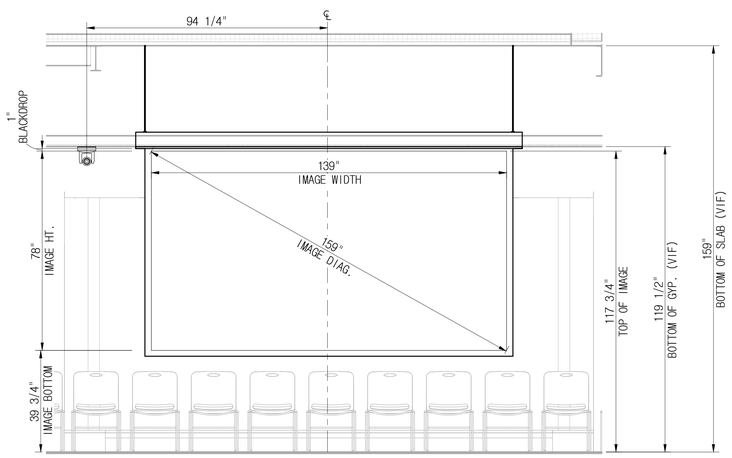
1 AV ELECTRICAL & FACILITY PLAN - ADULT MEETING ROOM

1/4" = 1'-0"



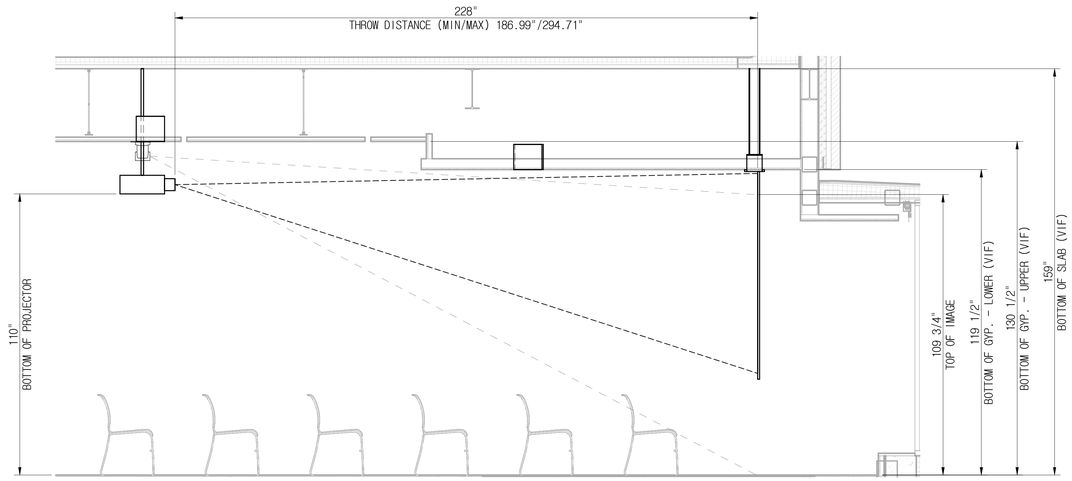
2 AV ELECTRICAL & FACILITY CEILING PLAN - ADULT MEETING ROOM

1/4" = 1'-0"



3 ADULT MEETING ROOM FRONT ELEVATION

1/2" = 1'-0"



4 ADULT MEETING ROOM SIDE ELEVATION

1/2" = 1'-0"

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0 0'-1" 0'-2" 0'-3"

ISSUES AND REVISIONS

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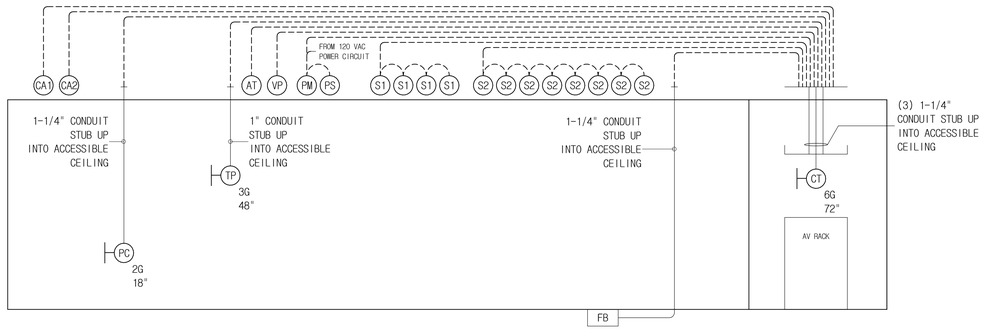
AV ELECTRICAL & FACILITY PLAN - ADULT MEETING ROOM

AV-03.101

CONSTRUCTION DOCUMENTS

11.12.2021



1 ADULT MEETING ROOM CONDUIT RISER

1" = 1'-0"

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ISSUES AND REVISIONS

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AV CONDUIT RISER -
ADULT MEETING ROOM

AV-03.102

CONSTRUCTION DOCUMENTS

11.12.2021

RVT File: 11-12-2021
Revit Model: 21-0-NEW CITY LIBRARY_FINCDN_CONT.rvt

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MAIN FLOOR

DRAWING INDEX

SC-XXX
- 001-099=OVERVIEW, NOTES & LEGEND
- 101-199=SC ACCESS CONTROL & SURVEILLANCE PLANS
- 201-299=SECURITY HEAD END ELEVATIONS
- 301-399=SECURITY RISER DIAGRAMS
- 401-499=SECURITY DEVICE SCHEDULES
- 501-599=SECURITY DETAIL DIAGRAMS

ISSUE DESCRIPTION/DATE

DRAWING NO	DESCRIPTION	ISSUE NO 1 (11/12/2021 - 60% CD)	ISSUE NO 2 (01/14/2021 - 100% CONSTRUCTION DOC.)
SC-001	SECURITY DRAWING INDEX & DIVISION OF RESPONSIBILITY	1	2
SC-002	SECURITY LEGEND	1	2
SC-100	LOWER LEVEL & BASEMENT SECURITY PLANS	1	2
SC-101	MAIN LEVEL SECURITY PLAN	1	2
SC-102	MEZZANINE SECURITY PLAN	1	2
SC-200	SECURITY HEAD END ELEVATION	1	2
SC-300	SECURITY RISER DIAGRAM		2
SC-400	SECURITY DEVICE SCHEDULES	1	2
SC-500	SECURITY DEVICE DETAILS	1	2

DIVISION OF RESPONSIBILITY

ABBREVATION KEY

SYMBOL	DESCRIPTION
F	FURNISHED BY
I	INSTALLED BY
E	EXISTING
NA	NOT APPLICABLE

	SCC CONTRACTOR	CLIENT	G.C.	BASE C.C.	IT CONTRACTOR	EXISTING/NA
ACCESS CONTROL SYSTEM HEAD END						
ACCESS CONTROL PANELS	F/I					
ACCESS CONTROL SERVERS						NA
ACCESS CONTROL POWER SUPPLIES	F/I					
ACCESS CONTROL SOFTWARE	F/I					
3/4" PLYWOOD BACKBOARD			F/I			
ACCESS CONTROL FIELD DEVICES						
CARD READERS	F/I					
TRANSFER HINGE			F/I			
DOOR CONTACTS	F/I					
ACCESS CONTROL ADMIN WORKSTATIONS		F/I				
DOOR PREPERATION FOR SECURITY DEVICES			F/I			
ACCESS CONTROL LOCKING HARDWARE						
ELECTRIC LOCKSETS			F/I			
SURVEILLANCE SYSTEM HEAD END						
NVR SERVERS	F/I					
NVR SOFTWARE	F/I					
UPS POWER					F/I	
KNM SWITCHES		F			I	
POE NETWORK SWITCHES		F			I	
SURVEILLANCE SYSTEM FIELD DEVICES						
IP DOME CAMERAS	F/I					
SURVEILLANCE SYSTEM VIEWING WORKSTATIONS		F/I				
SC ELECTRICAL						
FIRE ALARM RELAY				F/I		
120V HARD WIRED ELECTRICAL CONNECTIONS				F/I		
CONDUIT, BACK BOXES, AND JUNCTION BOXES				F/I		
ELECTRICAL MAINTENANCE BYPASS SWITCHES				F/I		
WALLFIELD TROUGH	F/I					
DATA CABLING FOR SURVEILLANCE DEVICES	F/I					

SECURITY, ELECTRICAL & ARCHITECTURAL NOTES

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE BID DOCUMENTS AND SHALL BE REFERRED TO THROUGHOUT THESE DOCUMENTS AS "CONTRACTOR" OR "SECURITY CONTRACTOR". THE PROJECT DOCUMENTS SHALL INCLUDE THE CONTRACT DRAWINGS, THE PROJECT GENERAL CONDITIONS AND ALL ADDITIONAL RIDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL SECURITY SYSTEM EQUIPMENT LAYOUT AS SHOWN ON THE DRAWINGS WITH THE SITE CONDITIONS. CONFLICTS, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHO SHALL APPROVE ALL CHANGES PRIOR TO THE INSTALLATION OF THE WORK.
3. ALL CONDUITS, PENETRATIONS, JUNCTION BOXES CABLE LADDERS AND REQUIRED SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. THE CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS. THE NUMBER OF CONDUCTORS REQUIRED MAY VARY DEPENDENT ON THE MANUFACTURERS OF EQUIPMENT SELECTED BY THE CONTRACTOR. IF THE EQUIPMENT THAT THE CONTRACTOR INTENDS TO FURNISH AND INSTALL HAS ANY SPECIAL REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE FOR THESE REQUIREMENTS IN THE BID AT NO EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUITS AND JUNCTION BOXES (40% MAXIMUM FILL) WITH THE ELECTRICAL CONTRACTOR. THE MINIMUM CONDUIT SIZE SHALL BE ¾ ".
5. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
6. WIRING SYSTEMS SHALL BE CONSISTENTLY COLOR CODED AND TAGGED. COORDINATION OF EXACT WIRE CODING AND TAGGING IS MANDATORY AND PART OF THE SUBMITTAL PROCESS. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR COORDINATING WIRING FROM EQUIPMENT MANUFACTURERS' TERMINAL STRIPS TO THE FINAL CONNECTION POINTS OF EQUIPMENT WITHIN THE SCOPE OF THE PROJECT.
7. MINIMUM SIZE OF THE CONDUCTORS SHALL BE 18 AWG, UNLESS OTHERWISE INDICATED. CONTRACTORS SHALL MODIFY STANDARD EQUIPMENT INPUT/OUTPUTWIRING TERMINALS TO ACCEPT 18 AWG. EXCEPTIONS MAY BE ALLOWED FOR MANUFACTURER PROVIDED LEADS AND INTERNAL EQUIPMENT WIRING, IF APPROVED BY THE ENGINEER.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120VAC INPUT POWER SUPPLIES AND OTHER SYSTEM COMPONENTS. SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE POWER REQUIREMENTS. ALL EQUIPMENT, INCLUDING LOCAL UPS UNITS AND BATTERY BACK-UP POWER SUPPLIES, SHALL BE FROM DEDICATED CIRCUIT BREAKERS CONNECTED TO THE BUILDING'S EMERGENCY POWER DISTRIBUTION SYSTEM.
9. RACEWAYS AND CONDUITS SHALL BE CONCEALED IN WALL AND CEILING. EXPOSED RACEWAYS, WHERE NECESSARY AND APPROVED BY THE ENGINEER, SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALLS.
10. THE INTEGRATOR MUST BE MANUFACTURER CERTIFIED TO INSTALL THE PRODUCTS SPECIFIED IN THESE DOCUMENTS.
11. WHERE CABLES AND/OR CONDUITS PASS THROUGH FIRE RATED, FIRE RESISTANT AND/OR FIRE STOPPED FLOORS AND WALLS USE CABLE SLEEVES THAT PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION. SLEEVES SHALL NELSON "FLAME SEAL" OR AS APPROVED BY THE ENGINEER. APPROVED FIRE SEALS SHALL ALSO BE PROVIDED AT ALL CABLE AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
12. WHERE CONDUITS PASS THROUGH EXTERIOR WALLS, PENETRATION SHALL BE WATERPROOFED TO MAINTAIN ORIGINAL ENVIRONMENT RATING AND PROTECTION.
13. 120 VAC POWER CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS LOW VOLTAGE AUDIO, VIDEO, CONTROL, DC POWER, OR ANY OTHER LOW VOLTAGE CABLES.
14. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED.
15. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE BEND RADIUS OF CONDUITS SHALL BE NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER OF THAT CONDUIT. (6X CONDUIT). BUSHINGS SHALL BE INSTALLED AT THE END OF ALL CONDUITS TO AVOID CHAFFING OF THE CABLE.
16. ALL ELECTRICAL, SAFETY, AND FIRE CODES SHALL BE FOLLOWED. IF NATIONAL, STATE AND/OR CITY CODES DIFFER ON THE SAME POINT THEN THE MOST STRICT DEFINITION AND /OR INTERPRETATION SHALL BE FOLLOWED.
17. IF THE SECURITY GENERAL CONDITIONS AND THE PROJECT GENERAL CONDITIONS DIFFER ON THE SAME POINT THEN THE MOST STRICT DEFINITION AND/OR INTERPRETATION SHALL BE FOLLOWED.
18. THE CONTRACTOR SHALL NOT EXCEED THE MAXIMUM TENSILE FORCE THAT THE MANUFACTURER RECOMMENDS WHEN PULLING CABLE.
19. THE CONTRACTOR SHALL PROVIDE A COMPLETE TURNKEY, FULLY OPERATIONAL SYSTEM AS SPECIFIED WITHIN THE CONSTRUCTION DOCUMENTS. ALL TERMINATIONS ARE TO BE COMPLETED/SUPERVISED BY A SECURITY CONTRACTOR REPRESENTATIVE TRAINED AND AUTHORIZED BY THE SYSTEM MANUFACTURER TO ENSURE ALL SYSTEMS ARE PROPERLY INSTALLED PER THE DIRECTION OF THE MANUFACTURER.
20. CONDUIT RUNS CANNOT CONTAIN THE EQUIVALENT OF TWO 90-DEGREE TURNS IN ANY DIMENSIONAL PLANE WITHOUT THE ADDITION OF A PULL BOX.
21. CONDUIT INFRASTRUCTURE WILL BE STUBBED TO ACCESSIBLE CEILING AREAS AND CONDUITS AND CONDUIT SLEEVING WILL BE PROVIDED FOR ROUTING TO THE SECURITY CLOSETS, PER THE RISER DIAGRAM. SECURITY CABLING WILL BE INSTALLED AS OPEN CABLE IN ACCESSIBLE CEILING AREAS.
22. CONDUITS ARE REQUIRED THROUGH NON-ACCESSIBLE CEILINGS AS REQUIRED. THE SECURITY CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR CONDUIT IN NON-ACCESSIBLE CEILINGS.
23. SECURITY EQUIPMENT SCHEDULES ARE PROVIDED AS A GUIDE. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DEVICES IDENTIFIED AND PROVIDE THE APPROPRIATE NUMBER OF DEVICES AS IDENTIFIED ON THE FLOOR PLANS.
24. SECURITY CONTRACTOR TO REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL SECURITY DEVICES. ALL FINAL EQUIPMENT COLOR AND FINISH SELECTIONS SHALL BE APPROVED BY THE PROJECT ARCHITECT.
25. THE ORIENTATION OF THE SYMBOLS REFLECTS THE MOUNTING LOCATION AND DIRECTION OF THE DEVICE. SHOULD THE CONTRACTOR PROGRAM THE DEVICE OWNER REVIEW WILL BE REQUIRED.
26. CONTRACTOR SHALL PROVIDE A DEVICE NAMING MATRIX FOR ALL SECURITY DEVICES AND ALARM POINTS PRIOR TO PROGRAMMING FOR OWNER REVIEW, COMMENT, AND APPROVAL. SHOULD THE PROGRAM DEVICE NAMES PRIOR TO RECEIVING THIS APPROVAL FROM THE OWNER. THE CONTRACTOR IS DEEMED AWARE, THAT THEY WILL BE RESPONSIBLE TO RE-PROGRAM ACCORDING TO THE OWNER'S REQUEST AT NO ADDITIONAL COST.
27. SECURITY CONTRACTOR TO SUBMIT PRODUCT DATA OF ALL SECURITY DEVICES BEING PROVIDED IN A CONSOLIDATED PACKAGE FOR FINAL REVIEW AND APPROVAL BY ENGINEER, ARCHITECT, AND OWNER.
28. SECURITY CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING DEVICE LOCATIONS AND ROUTING OF CONDUIT AND CABLING. ALL WORK IS TO BE ORIGINAL AND SHOULD NOT BE A DIRECT COPY OF THE ENGINEER'S DRAWING PACKAGE.
29. THE CONTRACTOR RESPONSIBLE FOR PULLING CABLE(S) BETWEEN THE PERIPHERAL SECURITY DEVICE AND THE HEAD-END EQUIPMENT IS TO IDENTIFY TOTAL CABLE LENGTH FROM END-TO-END. THIS INFORMATION IS TO BE PROVIDED IN TABLE FORMAT PRIOR TO FURNISHING AND INSTALLING THE CABLE(S). IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING VOLTAGE DROP CALCULATIONS BASED ON THE ROUTES OF THE CABLES AND INFORMATION FOUND IN THE CABLE LENGTH TABLE PREPARED BY SAME CONTRACTOR.
30. THE SECURITY CONTRACTORS IS DIRECTLY RESPONSIBLE FOR COORDINATING WIRING FROM EQUIPMENT MANUFACTURERS' TERMINAL STRIPS TO THE FINAL CONNECTION POINTS OF EQUIPMENT WITHIN THE SCOPE OF THE PROJECT.
31. ANY CONDUIT RISER REQUIRED SPECIFICALLY FOR THE PHYSICAL SECURITY SYSTEMS, AND IS NOT SHARED BY OTHER SYSTEMS, IS TO BE PROVIDED WITH AN ACCESS POINT AT EACH LEVEL WITHIN THE CONDUIT RISERS.
32. WHERE CABLES PASS THROUGH FIRE RATED, FIRE RESISTANT AND/OR FIRE STOPPED FLOORS AND WALLS USE CABLE SLEEVES THAT PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION.
33. BUSHINGS SHALL BE INSTALLED AT THE END OF ALL CONDUITS TO AVOID CHAFFING OF THE CABLE
34. ALL WIRING SHALL BE INSTALLED ACCORDING TO THE LATEST ACCEPTED REVISION OF THE NATIONAL ELECTRIC CODE, ARTICLE 760.
35. WHEN INSTALLING SHIELDED CABLE, THE FOLLOWING MUST BE OBSERVED:
    - -METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE CABLE RUN
    - -THE CABLE SHIELD MUST BE ISOLATED FROM THE GROUND
    - -GROUNDING MUST COMPLY WITH THE ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
    - -GROUNDING CONDUCTOR MUST BE NO.10 AWG SINGLE CONDUCTOR UNLESS OTHERWISE NOTED.

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0 | 0'-1" | 0'-2" | 0'-3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

SECURITY DRAWING INDEX & DIVISION OF RESPONSIBILITY

SC-001

CONSTRUCTION DOCUMENTS

11.12.2021

DEVICE SYMBOL LEGEND

DEVICE — XX

DEVICE QUANTITY — - -

DEVICE TYPE

DEVICE SECURITY LEGEND		
CR 1W	CARD READER	W = WALL MOUNTED
		M = MULLION WALL MOUNTED
DC 1F	DOOR CONTACT	F= FLUSH MOUNTED
		S = SURFACE MOUNTED
EL 1L	ELECTRIC LOCKSET	L = LOCKSET
		R = INTEGRATED REQUEST TO EXIT
TH 14	TRANSFER HINGE	4 = FOUR WIRE
		8 = EIGHT WIRE

CAMERA SYMBOL LEGEND

FLOOR

CAM01-XX-XX

SERVER ID# CAMERA#

CAM01-XX-XX
TYPE: X
X MOUNT

A = SAMSUNG X ND-6020R	W = WALL MOUNTED
B = SAMSUNG XNF-8010RW	C = CEILING MOUNTED
C = SAMSUNG XNV-8080R	
D = SAMSUNG PNM-9085RQZ	
E = SAMSUNG PNM-9000VD	

CAM01-XX-XX	SURVEILLANCE CAMERA TAG
UNLESS OTHERWISE NOTED ALL CAMERAS ARE WALL MOUNTED	
NVR NETWORK VIDEO RECORDER	NPP NETWORK PATCH PANEL
POE POWER OVER ETHERNET	RR READER ROUTER
PP PATCH PANEL	
J JUNCTION BOX. SURFACE MOUNTED ABOVE CEILING	

CABLE LEGEND

ACCESS CONTROL SYSTEM

LETTER	DESCRIPTION	NOTES
A	18 GA / 4 COND UNSHIELDED - GRAY	COMPOSITE CABLE
B	22 GA / 4 COND UNSHIELDED - BLUE	COMPOSITE CABLE
C	22 GA / 6 COND SHIELDED - ORANGE	COMPOSITE CABLE
D	22 GA / 2 COND UNSHIELDED - WHITE	COMPOSITE CABLE
E	18 GA / 2 COND UNSHIELDED - GRAY	JUMPER - GRAY
X = COMPOSITE CABLE COMPRISED OF CABLES A,B,C, AND D		
A= LOCK POWER, B= REX, C= READER, D= CONTACT, E= JUMPER		

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SECURITY LEGEND

SC-002

CONSTRUCTION DOCUMENTS

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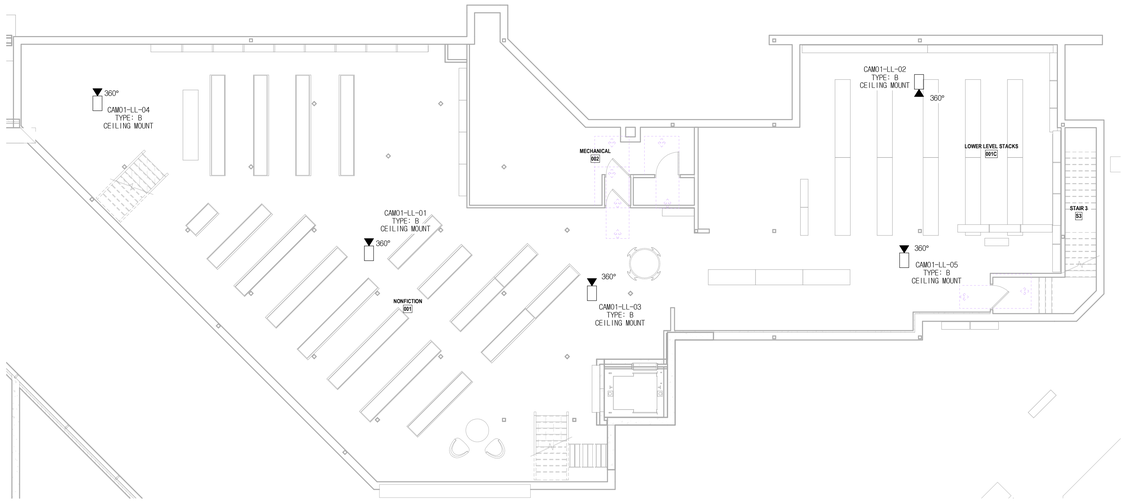
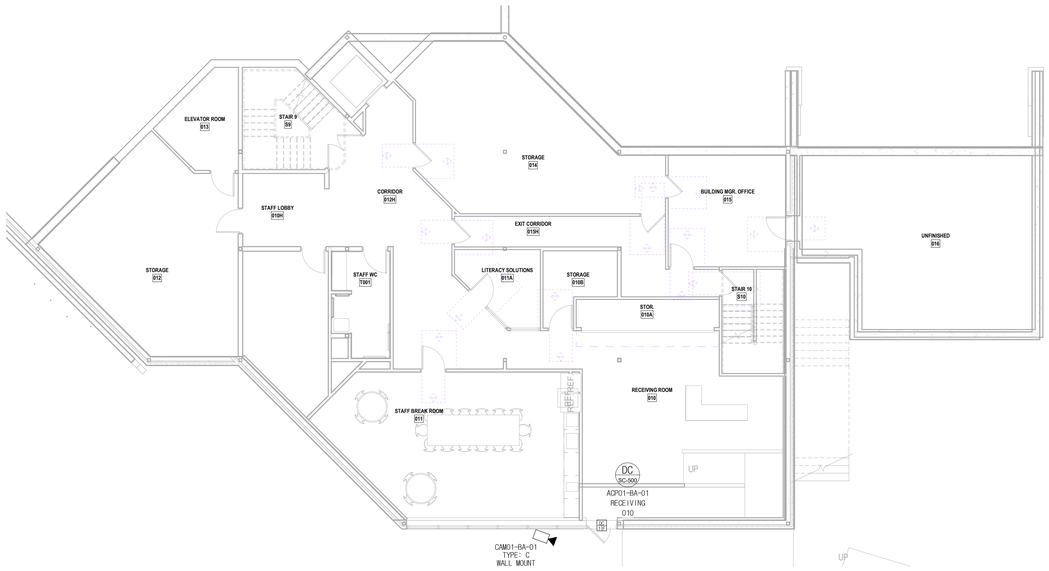


2 LOWER LEVEL SECURITY PLAN

1/8" = 1'-0"



1 BASEMENT LEVEL SECURITY PLAN

1/8" = 1'-0"

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LOWER LEVEL & BASEMENT SECURITY PLANS

SC-100

CONSTRUCTION DOCUMENTS

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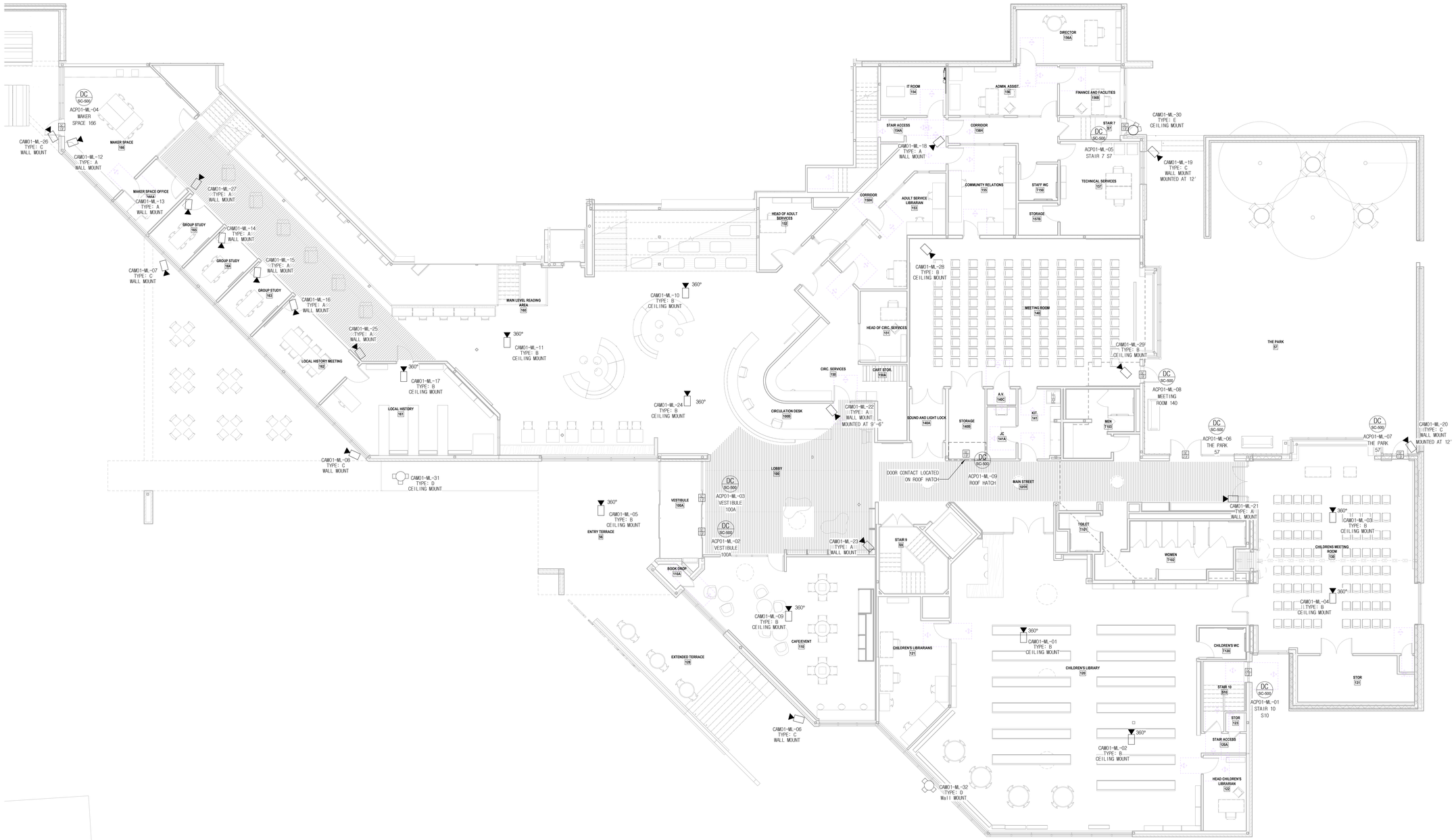

1 MAIN LEVEL SECURITY PLAN

1/8" = 1'-0"

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MAIN LEVEL SECURITY PLAN

SC-101

CONSTRUCTION DOCUMENTS

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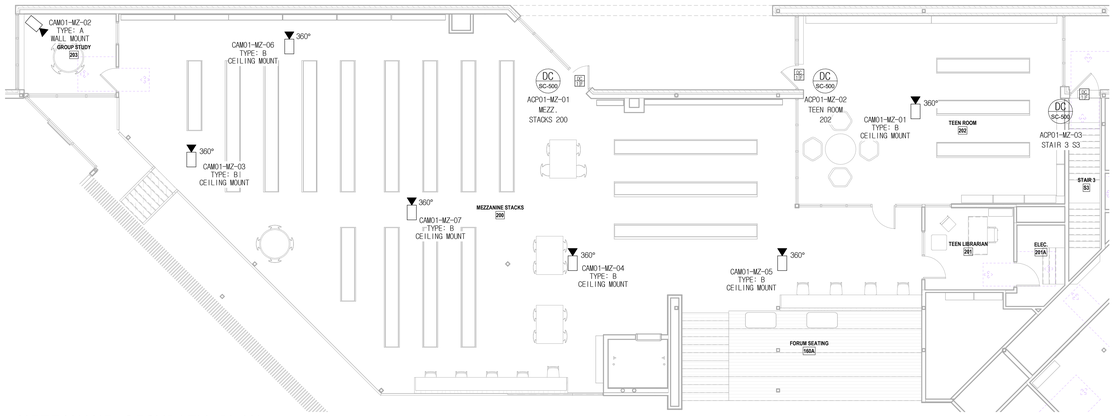

1 MEZZANINE SECURITY PLAN

1/8" = 1'-0"

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MEZZANINE SECURITY PLAN

SC-102

CONSTRUCTION DOCUMENTS

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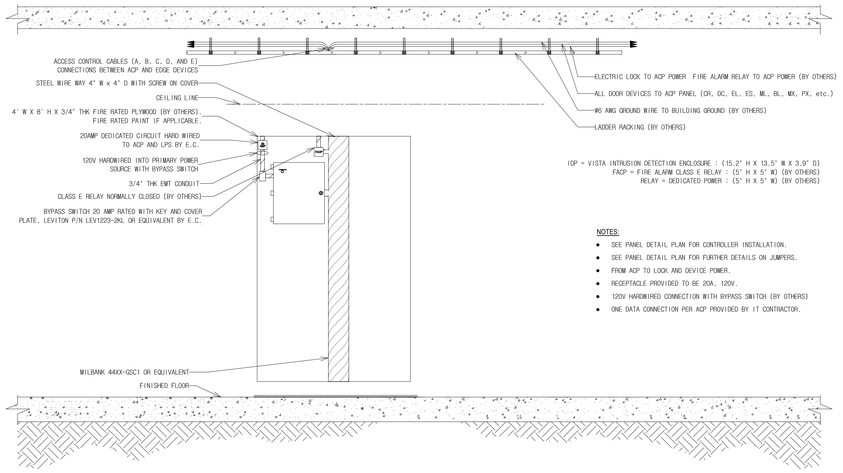
ACCESS CONTROL SYSTEM
EQUIPMENT ELEVATION NOTES - HEAD END CONNECTIONS



NOTES:

- SEE PANEL DETAIL PLAN FOR CONTROLLER INSTALLATION.
- SEE PANEL DETAIL PLAN FOR FURTHER DETAILS ON JUMPERS.
- FROM ACP TO LOCK AND DEVICE POWER.
- RECEPTACLE PROVIDED TO BE 20A, 120V.
- 120V HARDWIRED CONNECTION WITH BYPASS SWITCH (BY OTHERS)
- ONE DATA CONNECTION PER ACP PROVIDED BY IT CONTRACTOR.

SYMBOL REPRESENTATION:
ELEVATION: WALLFIELD LAYOUT OF THE ACCESS CONTROL SYSTEM FLOOR: MAIN LEVEL

DRAWING ASPECT:
AC-ACP

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SECURITY HEAD END ELEVATION

SC-200

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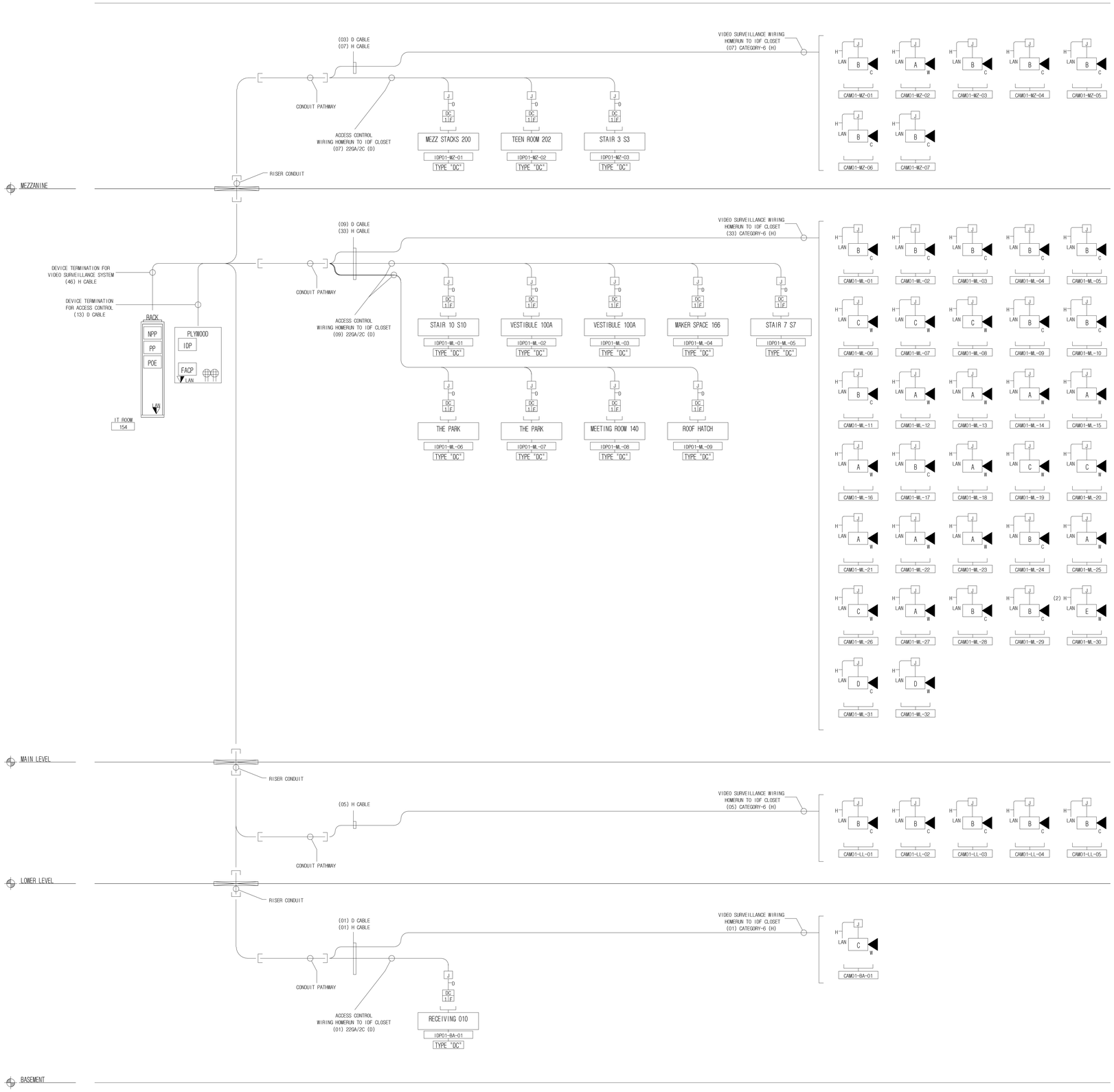

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SECURITY RISER DIAGRAM

SC-300

CONSTRUCTION DOCUMENTS
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ACCESS CONTROL DEVICE TERMINATION LOCATION

CT	FLOOR	LOCATION	ROOM #	DEVICE ID#	HEAD END LOCATION	DETAIL	CR (W)	DC	EL (R)	TH
1	BASEMENT	RECEIVING	010	ACP01-BA-01	MAIN LEVEL IT ROOM	DC	0	1	0	0
2	MAIN LEVEL	STAIR 10	S10	ACP01-ML-01	MAIN LEVEL IT ROOM	DC	0	1	0	0
3	MAIN LEVEL	VESTIBULE	100A	ACP01-ML-02	MAIN LEVEL IT ROOM	DC	0	1	0	0
4	MAIN LEVEL	VESTIBULE	100A	ACP01-ML-03	MAIN LEVEL IT ROOM	DC	0	1	0	0
5	MAIN LEVEL	MAKER SPACE	166	ACP01-ML-04	MAIN LEVEL IT ROOM	DC	0	1	0	0
6	MAIN LEVEL	STAIR 7	S7	ACP01-ML-05	MAIN LEVEL IT ROOM	DC	0	1	0	0
7	MAIN LEVEL	THE PARK	57	ACP01-ML-06	MAIN LEVEL IT ROOM	DC	0	1	0	0
8	MAIN LEVEL	THE PARK	57	ACP01-ML-07	MAIN LEVEL IT ROOM	DC	0	1	0	0
9	MAIN LEVEL	MEETING ROOM	140	ACP01-ML-08	MAIN LEVEL IT ROOM	DC	0	1	0	0
10	MAIN LEVEL	ROOF HATCH		ACP01-ML-09	MAIN LEVEL IT ROOM	DC	0	1	0	0
11	MEZZANINE	MEZZ. STACKS	200	ACP01-MZ-01	MAIN LEVEL IT ROOM	DC	0	1	0	0
12	MEZZANINE	TEEN ROOM	202	ACP01-MZ-02	MAIN LEVEL IT ROOM	DC	0	1	0	0
13	MEZZANINE	STAIR 3	S3	ACP01-MZ-03	MAIN LEVEL IT ROOM	DC	0	1	0	0
Grand total: 13							0	13	0	0

SURVEILLANCE DEVICE TERMINATION LOCATION SCHEDULE

CT	FLOOR	CAMERA ID#	MOUNTING	HEAD END LOCATION	DETAIL	TYPE
1	BASEMENT	CAM01-BA-01	WALL	MAIN LEVEL IT ROOM	C-W	C
2	LOWER LEVEL	CAM01-LL-01	CEILING	MAIN LEVEL IT ROOM	B-C	B
3	LOWER LEVEL	CAM01-LL-02	CEILING	MAIN LEVEL IT ROOM	B-C	B
4	LOWER LEVEL	CAM01-LL-03	CEILING	MAIN LEVEL IT ROOM	B-C	B
5	LOWER LEVEL	CAM01-LL-04	CEILING	MAIN LEVEL IT ROOM	B-C	B
6	LOWER LEVEL	CAM01-LL-05	CEILING	MAIN LEVEL IT ROOM	B-C	B
7	MAIN LEVEL	CAM01-ML-01	CEILING	MAIN LEVEL IT ROOM	B-C	B
8	MAIN LEVEL	CAM01-ML-02	CEILING	MAIN LEVEL IT ROOM	B-C	B
9	MAIN LEVEL	CAM01-ML-03	CEILING	MAIN LEVEL IT ROOM	B-C	B
10	MAIN LEVEL	CAM01-ML-04	CEILING	MAIN LEVEL IT ROOM	B-C	B
11	MAIN LEVEL	CAM01-ML-05	CEILING	MAIN LEVEL IT ROOM	B-C	B
12	MAIN LEVEL	CAM01-ML-06	WALL	MAIN LEVEL IT ROOM	C-W	C
13	MAIN LEVEL	CAM01-ML-07	WALL	MAIN LEVEL IT ROOM	C-W	C
14	MAIN LEVEL	CAM01-ML-08	WALL	MAIN LEVEL IT ROOM	C-W	C
15	MAIN LEVEL	CAM01-ML-09	CEILING	MAIN LEVEL IT ROOM	B-C	B
16	MAIN LEVEL	CAM01-ML-10	CEILING	MAIN LEVEL IT ROOM	B-C	B
17	MAIN LEVEL	CAM01-ML-11	CEILING	MAIN LEVEL IT ROOM	B-C	B
18	MAIN LEVEL	CAM01-ML-12	WALL	MAIN LEVEL IT ROOM	A-W	A
19	MAIN LEVEL	CAM01-ML-13	WALL	MAIN LEVEL IT ROOM	A-W	A
20	MAIN LEVEL	CAM01-ML-14	WALL	MAIN LEVEL IT ROOM	A-W	A
21	MAIN LEVEL	CAM01-ML-15	WALL	MAIN LEVEL IT ROOM	A-W	A
22	MAIN LEVEL	CAM01-ML-16	WALL	MAIN LEVEL IT ROOM	A-W	A
23	MAIN LEVEL	CAM01-ML-17	CEILING	MAIN LEVEL IT ROOM	B-C	B
24	MAIN LEVEL	CAM01-ML-18	WALL	MAIN LEVEL IT ROOM	A-W	A
25	MAIN LEVEL	CAM01-ML-19	WALL	MAIN LEVEL IT ROOM	C-W	C
26	MAIN LEVEL	CAM01-ML-20	WALL	MAIN LEVEL IT ROOM	C-W	C
27	MAIN LEVEL	CAM01-ML-21	WALL	MAIN LEVEL IT ROOM	A-W	A
28	MAIN LEVEL	CAM01-ML-22	WALL	MAIN LEVEL IT ROOM	A-W	A
29	MAIN LEVEL	CAM01-ML-23	WALL	MAIN LEVEL IT ROOM	A-W	A
30	MAIN LEVEL	CAM01-ML-24	CEILING	MAIN LEVEL IT ROOM	B-C	B
31	MAIN LEVEL	CAM01-ML-25	WALL	MAIN LEVEL IT ROOM	A-W	A
32	MAIN LEVEL	CAM01-ML-26	WALL	MAIN LEVEL IT ROOM	C-W	C
33	MAIN LEVEL	CAM01-ML-27	WALL	MAIN LEVEL IT ROOM	A-W	A
34	MAIN LEVEL	CAM01-ML-28	CEILING	MAIN LEVEL IT ROOM	B-C	B
35	MAIN LEVEL	CAM01-ML-29	CEILING	MAIN LEVEL IT ROOM	B-C	B
36	MAIN LEVEL	CAM01-ML-30	CEILING	MAIN LEVEL IT ROOM	E-W	E
37	MAIN LEVEL	CAM01-ML-31	CEILING	MAIN LEVEL IT ROOM	D-C	D
38	MAIN LEVEL	CAM01-ML-32	Wall	MAIN LEVEL IT ROOM	D-W	D
39	MEZZANINE	CAM01-MZ-01	CEILING	MAIN LEVEL IT ROOM	B-C	B
40	MEZZANINE	CAM01-MZ-02	WALL	MAIN LEVEL IT ROOM	A-W	A
41	MEZZANINE	CAM01-MZ-03	CEILING	MAIN LEVEL IT ROOM	B-C	B
42	MEZZANINE	CAM01-MZ-04	CEILING	MAIN LEVEL IT ROOM	B-C	B
43	MEZZANINE	CAM01-MZ-05	CEILING	MAIN LEVEL IT ROOM	B-C	B
44	MEZZANINE	CAM01-MZ-06	CEILING	MAIN LEVEL IT ROOM	B-C	B
45	MEZZANINE	CAM01-MZ-07	CEILING	MAIN LEVEL IT ROOM	B-C	B
Grand total: 45						

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SECURITY DEVICE SCHEDULES

SC-400

CONSTRUCTION DOCUMENTS

11.12.2021

PLOT DATE: Friday, January 14, 2022 11:07:12 AM | C:\Users\RWilliams\Desktop\NEW CITY LIBRARY_R22_RW.rvt
PM 01/13/22 | 22020.15

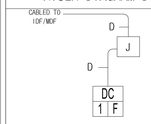
SINGLE DOOR WITH SINGLE DOOR MAGNETIC CONTACT

DRAWING ASPECT: TYPE "DC"

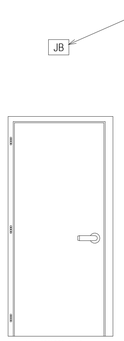
DOOR DEVICE LEGEND

#	DOOR DEVICE	SYMBOL
1	MAGNETIC DOOR CONTACT FLUSH POSITION SWITCH.	
2	3/4" CONDUIT WITH DRAG LINE, BY ELECTRICAL CONTRACTOR	
3	ELECTRICAL JUNCTION BOX ABOVE FINISHED CEILING, DOUBLE GANG BOX. BY ELECTRICAL CONTRACTOR	
4	STUB 1" CONDUIT WITH DRAG LINE, PIPED TO GYPSUM WALL BOARD CEILING.	

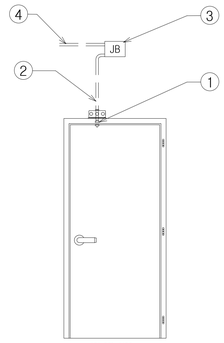
RISER DIAGRAM DOOR LEGEND



CABLE LEGEND		
LETTER	DESCRIPTION	COLOR
A	18 GAI 4 COND UNSHIELDED	GRAY
B	22 GAI 4 COND UNSHIELDED	BLUE
C	22 GAI 6 COND SHIELDED	ORANGE
D	22 GAI 2 COND UNSHIELDED	WHITE
E	18 GAI 2 COND UNSHIELDED	GRAY
X	COMPOSITE CABLE COMPRISED OF CABLES A,B,C, AND D	



NON SECURED SIDE



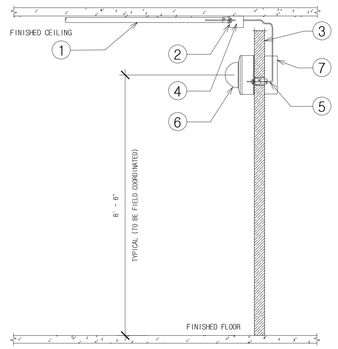
SECURED SIDE

WALL MOUNTED SURVEILLANCE CAMERA

DRAWING ASPECT: TYPE "X-W"

CAMERA DEVICE LEGEND

#	CAMERA DEVICE	SYMBOL
1	3/4" CONDUIT WITH DRAG LINE, BY ELECTRICAL CONTRACTOR	
2	4" X 4" X 4" JUNCTION BOX	
3	1/2" GREENFIELD	
4	2 PORT BISQUIT WITH CAT6 JACK	
5	CAT6 PATCH CORD	
6	CAMERA	
7	4X ELECTRICAL BOX BY ELECTRICAL CONTRACTOR	

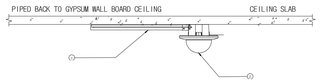


CEILING MOUNTED SURVEILLANCE CAMERA

DRAWING ASPECT: TYPE "X-C"

CAMERA DEVICE LEGEND

#	CAMERA DEVICE	SYMBOL
1	3/4" CONDUIT WITH DRAG LINE, BY ELECTRICAL CONTRACTOR	
2	CAMERA	



SYMBOL REPRESENTATION:
INTERIOR CEILING MOUNTED CAMERA CONNECTIONS

VMDO

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Charlottesville, VA 22902

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New City Library

Owner

NEW CITY LIBRARY

220 N MAIN ST.
NEW CITY, NY 10956

Client Project Number
VMDO Project Number

Checked By RW/DR
Drawn By RW

GRAPHIC SCALE - 12" = 1'-0"

0 0' - 1" 0' - 2" 0' - 3"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	60% CD	11/12/2021
2	100% CONSTRUCTION DOCUMENTS	01/14/2022

SECURITY DEVICE DETAILS

SC-500

CONSTRUCTION DOCUMENTS

11.12.2021