

# Waterville Public Library

73 Elm Street  
Waterville, ME

FOR CONSTRUCTION 22-0112

## SCOPE OF WORK

THIS PROJECT CONSISTS OF THE DEMOLITION OF EXISTING EXTERIOR RAMP AND THE CONSTRUCTION OF NEW EXTERIOR STAIRS AS WELL AS IMPROVEMENTS TO BASEMENT RAMP ACCESS AND REPLACEMENT OF BASEMENT DOOR.

## NOTES TO BIDDERS

CONTRACTOR, SUBCONTRACTOR, VENDOR, OR ANY OTHER PERSON PARTICIPATING IN BIDDING THIS PROJECT SHALL BE RESPONSIBLE FOR INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS

## DRAWING LIST

ARCHITECTURAL SHEET LIST		
Sheet Number	Sheet Name	Sheet Set
Architectural Demo		
AD2.1	EXISTING/ DEMO FLOOR PLANS	Architectural Demo
AD3.1	EXISTING/ DEMO ELEVATIONS	Architectural Demo
AD4.1	EXISTING/ DEMO BUILDING SECTIONS	Architectural Demo
AD4.2	EXISTING / DEMO BUILDING SECTIONS	Architectural Demo
Architectural		
A0.1	DOOR SCHEDULES	Architectural
A0.2	GENERAL NOTES	Architectural
A0.3	CODE REVIEW INFORMATION	Architectural
A2.1	FLOOR PLANS	Architectural
A3.1	ELEVATIONS	Architectural
A4.1	BUILDING SECTIONS	Architectural
A5.1	VERTICAL CIRCULATION	Architectural
A9.1	DETAILS	Architectural

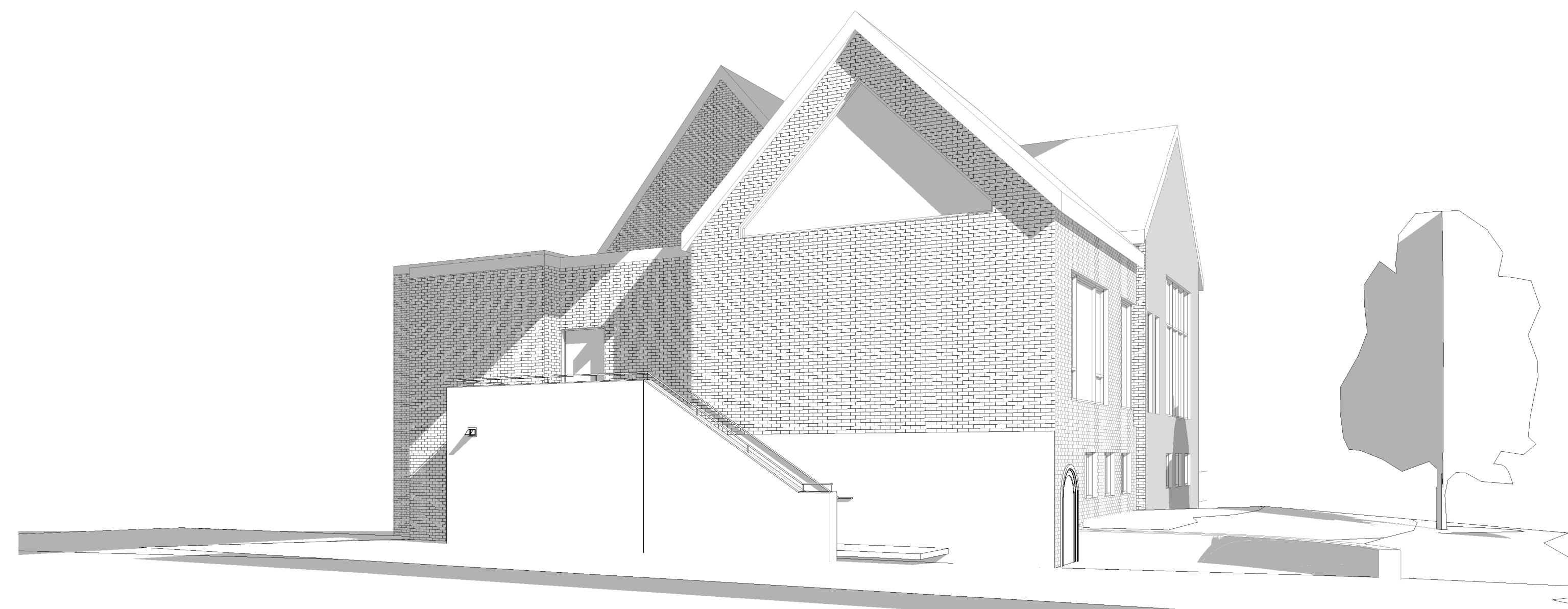
CIVIL SHEET LIST		
Sheet Number	Sheet Name	Sheet Set
Civil		
C-002	NOTES AND LEGEND	Civil
C-101	DEMOLITION PLAN	Civil
C-102	SITE AND LANDSCAPE PLAN	Civil
C-103	GRADING AND UTILITY PLAN	Civil
C-501	EROSION CONTROL NOTES	Civil
C-502	DETAILS	Civil
C-503	DETAILS	Civil
C-504	CONTRACTOR KEY PLAN	Civil

STRUCTURAL SHEET LIST		
Sheet Number	Sheet Name	Sheet Set
Structural		
S1.0	SITE WALLS	Structural

## VICINITY MAP



## RENDERING



## DEFERRED SUBMITTALS

- TBD

## SPECIAL INSPECTION

- TBD

PROJECT NAME

**Waterville Public Library**

PROJECT NO 20-15

PROJECT ADDRESS

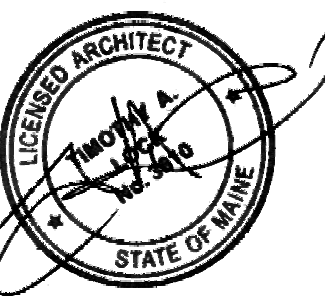
73 Elm Street  
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REVISIONS:

DATE & DESCRIPTION:

PAST ISSUES:

DATE & DESCRIPTION:



CURRENT ISSUE:

22-0112 FOR CONSTRUCTION

SHEET NO. AND NAME:

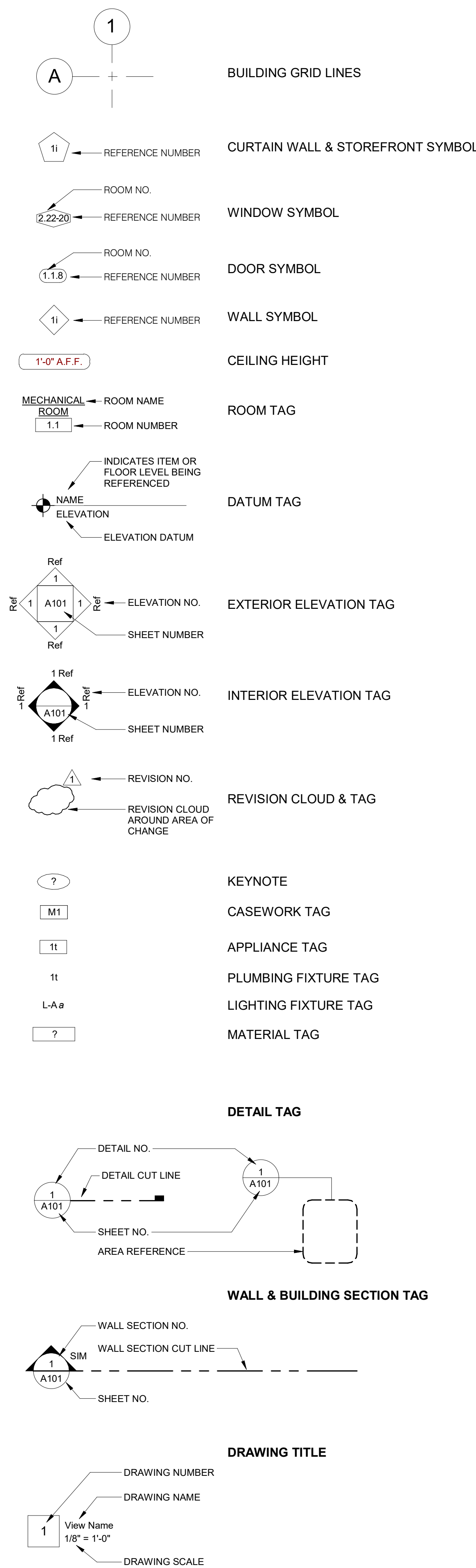
TITLE SHEET

**A0.0**

# ABBREVIATIONS

&	And	F.O.C.	Face of Concrete	Q.T.	Quarry Tile
<	Angle	F.O.F.	Face of Finish	R	Riser
@	At	F.O.M.	Face of Masonry	RAD	Radius
⊕	Centerline	F.O.S.	Face of Stud	R.D.	Roof Drain
⊥	Diameter or Round	FFRF	Fireproof	REF	Reference
#	Perpendicular	FR	Frame	REFR	Refrigerator
#	Number	FS	Full Size	REINF	Reinforced or Reinforcing
(E)	Existing	FT	Foot, Feet	REQ	Required
AB	Anchor Bolt	FTG	Footing	RESIL	Resilient
A/C	Air Conditioning	FUR	Furring, Furred	REV	Revised
A.C.	Asphaltic Concrete	G.A.	Gauge	RFG	Roofing
ACT	Acoustical Tile	GALV	Galvanized	R.H.	Right Hand
ACOUS	Acoustical	G.B.	Grab Bar	RM	Room
ADJ	Adjustable	G.I.	Galvanized Iron	R.O.	Rough Opening
A.F.F.	Above Finish Floor	GL	Glass, Glazing	RWD	Redwood
ALT	Alter or Alternate	GND	Ground	S	South
ALUM	Aluminum	GR	Grade	S.C.	Solid Core
ANOD	Anodized	GYP	Gypsum	SCHED	Schedule
A.P.	Access Panel	H	High	SECT	Section
APPROX	Approximate	H.B.	Hose Bib	SEP	Separation, Separate
ARCH	Architectural	H.C.	Hollow Core	SH	Shelf
ASPH	Asphalt	HCP	Handicapped	SHR	Shower
BD	Board	HDWR	Hardware	SHT	Sheet
BITUM	Bituminous	HDWD	Hardwood	SIM	Similar
BLDG	Building	H.M.	Hollow Metal	SLDG	Siding
BLK	Block	HORIZ	Horizontal	SPEC	Specification
BLKG	Blocking	HR	Hour	SQ	Square
BM	Beam	HT	Height	S.S.	Stainless Steel
BOT	Bottom	HVAC	Heating, Ventilation and Air Conditioning	SSK	Service Sink
BR	Bedroom	H.W.	Hot Water	STD	Standard
BSMT	Basement	I.D.	Inside Diameter	STL	Steel
B.U.R.	Built Up Roofing	INCL	Including	STOR	Storage
CAB	Cabinet	INSUL	Insulation	STRUCT	Structural
CARP	Carpet	INT	Interior	SUSP	Suspended
C.B.	Catch Basin	JAN	Janitor	SW	Switch
CEM	Cement	JST	Joist	SYM	Symmetrical
CER	Ceramic	JT	Joint	SYS	System
C.I.	Cast Iron	KIT	Kitchen	T	Tread
CLG	Ceiling	LAM	Laminate	T.B.	Towel Bar
CLO	Closet	LAV	Lavatory	T&G	Tongue and Groove
CLR	Clear	L.F.	Lineal Foot	T.O.C.	Top of Curb
CMU	Concrete Masonry Unit	L.H.	Left Hand	T.O.D.	Top of Drain
CNTR	Counter	L.R.	Living Room	TEL	Telephone
COL	Column	LT	Light	TEMP	Tempered, Temperature
CONC	Concrete	LVR	Louwer	TER	Terrazzo
CONN	Connection	MATL	Material	THK	Thick, Thickness
CONST	Construction	MAX	Maximum	THR	Threshold
CONT	Continuous	M.B.	Machine Ball	TOIL	Toilet
CONTR	Contractor	MECH	Mechanical	T.O.P.	Top of Pavement
CORR	Corridor	MEMB	Membrane	T.O.S.	Top of Slab
C.T.	Ceramic Tile	MET	Metal	T.P.D.	Toilet Paper Dispenser
CTR	Center	MFR	Manufacture	T.S.	Top of Steel
CTSK	Countersunk	MH	Manhole	TV	Television
C.W.	Cold Water	MIN	Minimum	T.W.	Top of Wall
D	Deep, Depth	MIR	Mirror	TYP	Typical
DBL	Double	MISC	Miscellaneous	UNF	Unfinished
DET	Detail	M.O.	Masonry Opening	U.O.N.	Unless Otherwise Noted
D.F.	Drinking Fountain	M.R.	Moisture Resistant	UR	Urinal
DIA	Diameter	MTD	Mounted	VERT	Vertical
DIM	Dimension	MUL	Mullion	VEST	Vestibule
DISP	Dispenser	N	North	V.E.F.	Verify in Field
DN	Down	N.I.C.	Not in Contract	VOL	Volume
DO	Door Opening	NO	Number	W	West
DR	Door	NOM	Nominal	W.H.	With
DR	Downspout	N.S.	No Scale	W.H.	Water Heater
D.S.P.	Dry Standpipe	N.T.S.	Not to Scale	W/O	Without
DWG	Drawing	O	Over	W.C.	Water Closet
DWR	Drawer	O.A.	Overall	WD	Wood
E	East	OBSC	Obscure	WP	Waterproof
EA	Each	O.C.	On Center	WPM	Waterproof Membrane
EJ	Expansion Joint	O.D.	Outside Diameter	WSCT	Wainscot
EL	Elevation	OFCI	Owner Furnished, Contractor Installed	W.S.P.	Wet Standpipe
ELEC	Electrical	O.F.D.	Overflow Drain	WT	Weight
ELEV	Elevation	OFF	Office		
EMER	Emergency	O.H.	Overhang		
ENCL	Enclosure	OVHD	Overhead		
E.O.S.	Edge of Slab	OPNG	Opening		
EQ	Equal	OPP	Opposite		
EQUIP	Equipment	PC	Piece		
E.W.	Each Way	P.D.	Planter Drain		
E.W.C.	Electric Water Cooler	PL	Plate		
EXIST	Existing	P.L.	Property Line		
EXP	Expansion	PLMG	Plumbing		
EXPO	Exposed	PLAM	Plastic Laminate		
EXT	Exterior	PLAS	Plaster		
F.A.	Fire Alarm	PLYWD	Plywood		
F.D.	Floor Drain	PR	Pair		
FDN	Foundation	PT	Paint		
F.E.	Fire Extinguisher	P.T.D.	Paper Towel Dispenser		
F.E.C.	Fire Extinguisher Cab	PTN	Partition		
F.G.	Finish Grade				
F.H.C.	Fire Hose Cabinet				
FIN	Finish				
FLASH	Flashing				
FLR	Floor				
FLUOR	Fluorescent				

# SYMBOLS



# GENERAL NOTES

- 1 THE GENERAL CONTRACTOR SHALL HEREAFTER BE REFERRED TO AS "GENERAL CONTRACTOR" OR "GC". THE OWNER MAY HEREAFTER BE REFERRED TO AS "OWNER".
- 2 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE COMPLETE & ENTIRE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION DURING COMPLETE CONSTRUCTION OF THIS PROJECT AND IS RESPONSIBLE TO COORDINATE ALL DRAWINGS AND SPECIFICATIONS WITH ALL SUBCONTRACTORS REGARDLESS OF LOCATION IN CONTRACT DOCUMENTS. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.
- 3 UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE ENTIRE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
- 4 THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.
- 5 DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES DURING BIDDING AND PRIOR TO COMMENCING WORK.
- 6 DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK. CHANGES IN THE WORK TO BE DOCUMENTED IN WRITING AND APPROVED IN WRITING PRIOR TO BEING STARTED - (IMPLEMENTED)
- 7 ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK UNLESS OTHERWISE INDICATED.
- 8 THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION / APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.
- 9 DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- 10 THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS. THE ARCHITECT WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS REVIEWED AND STAMPED THE SHOP DRAWING SUBMITTAL. THE GC IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE BY THE ARCHITECT. WORK SHALL NOT PROCEED WITHOUT RETURNED REVIEW SUBMITTALS.
- 11 FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 12 FOR GRADING, TRENCHING ETC., CONTACT THE ARCHITECT FOR INSTRUCTIONS PRIOR TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BE ENCOUNTERED DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE GENERAL CONTRACTOR BEFORE CONSTRUCTION.
- 13 ALL WORK, MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
- 14 ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-117.1-2009, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- 15 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING INSPECTION.
- 16 THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS AND FIRE LANES IN WORKING ORDER.
- 17 A GENERAL BUILDING PERMIT IS REQUIRED. ALL PERMITS AND CONNECTION FEES SHALL BE SECURED BY THE GENERAL CONTRACTOR AND REIMBURSED THROUGH THE OWNER.
- 18 THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE SHOWN ON PLAN.
- 19 MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES. SEE CODE SUMMARY, SHEET A0.3
- 20 THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR AND INTERIOR PEDESTRIAN TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO THE ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT.
- 21 THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES FOR DUST AND NOISE CONTROL, AND ALL REQUIRED ENVIRONMENTAL PROTECTION WHERE WORK JOINS EXISTING CONDITIONS.
- 22 ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION DAILY.
- 23 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND OR CALL BLUE STAKES TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT AND WHEN IDENTIFIED TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF IDENTIFIED UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- 24 APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB SUPERINTENDENT.
- 25 THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING AS REQUIRED FOR MOUNTING OF WALL MOUNTED SHELVES, CABINETS, HC GRAB BARS AND PARTITION BRACES AND ALL OTHER ITEMS IDENTIFIED ON THE EQUIPMENT OR ACCESSORY SCHEDULE. BLOCKING SHALL BE FIRE TREATED WHERE REQUIRED BY THE BUILDING CODE.
- 26 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, UNCRATING, INSTALLATION AND HOOK-UP OF ALL OWNER FURNISHED ITEMS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 27 THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.
- 28 PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS WHERE REQUIRED.
- 29 PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- 30 PROVIDE METAL CORNER TRIM AT ALL OUTSIDE CORNERS OF PLASTER AND DRYWALL SURFACES.
- 31 ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH APPROPRIATE SEALANT MATERIAL.
- 32 UNLESS OTHERWISE NOTED, ALL EXTERIOR AND INTERIOR METAL, TRIM, TRELLAGE, RAILINGS, MOLDINGS, FRAMES, CASTING ETC., SHALL BE PAINTED.
- 33 FOR PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS, PROVIDE APPROVED ASSEMBLIES WITH SELF CLOSING DEVICES FOR ANY PENETRATIONS IN RATED CONSTRUCTION.
- 34 THE GC SHALL VERIFY LOCATIONS OF ALL CEILING & WALL ACCESS PANELS WITH MECHANICAL, FIRE SPRINKLER AND PLUMBING PLANS. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED WITH A FIRE RATING EQUAL TO THE WALL OR CEILING ASSEMBLY INTO WHICH THEY ARE TO BE INSTALLED. FINISH AND LOCATION SHALL BE APPROVED BY THE ARCHITECT.
- 35 THE GC SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS & BASES WITH EQUIPMENT MANUFACTURERS & SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS ON ROOF AND INTERIOR SHAFTS.

## ZONING SUMMARY

BUILDING AUTHORITY:	CITY OF WATERVILLE MAINE BUILDING DEPARTMENT
ZONING:	ASSEMBLY GROUP A-3 (LIBRARIES)
BUILDING HEIGHT:	36' - 0"
SETBACKS:	FRONT 30' - 0" SIDE 50' - 0" REAR 50' - 0"
OTHER DEVELOPMENT PARAMETERS:	N/A
OVERLAY DISTRICTS:	N/A
LOT SIZE:	2 ACRES
BUILDING FOOTPRINT:	N/A
BUILDING SQUARE FOOTAGE:	N/A
LOT COVERAGE:	N/A
CLIMATE ZONE:	5 (A)

## BUILDING CODE SUMMARY

BUILDING CODES	
MAINE UNIFORM BUILDING AND ENERGY CODE	2015
INTERNATIONAL BUILDING CODE (IBC)	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	2009
NATIONAL ELECTRICAL CODE	2017
NFPA 101 LIFE SAFETY CODE – CURRENT EDITION ADOPTED BY THE STATE OF MAINE	
STATE OF MAINE PLUMBING CODE	

OCCUPANCY CLASSIFICATION - IBC CHAPTER 3  
**'A' - ASSEMBLY GROUP A-3 (LIBRARIES)**

ALLOWABLE FLOOR AREA ALLOWANCE PER OCCUPANT BY FUNCTION OF SPACE - IBC 2015 TABLE 1004.1.2  
**'A' - ASSEMBLY GROUP A-3 (LIBRARIES)**

ASSEMBLY	
EXHIBIT GALLERY AND MUSEUM	30 NET SQUARE FEET
BUSINESS AREAS	100 GROSS SQUARE FEET
EDUCATIONAL CLASSROOM AREA	20 NET SQUARE FEET
LIBRARY	
READING ROOMS	50 NET SQUARE FEET
STACK AREA	100 GROSS SQUARE FEET
ACCESSORY STORAGE AREAS, MECH/EQUIPMENT	300 GROSS SQUARE FEET

MINIMUM CORRIDOR WIDTHS - IBC TABLE 1020.1

STANDARD WIDTH	<b>REQUIRED</b> 44"
'A' - ASSEMBLY	30'

TABLE 1020.1  
CORRIDOR FIRE-RESISTANCE RATING

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (hours)	
		Without sprinkler system	With sprinkler system <sup>a</sup>
H-1, H-2, H-3	All	Not Permitted	1
H-4, H-5	Greater than 30	Not Permitted	1
A, B, E, F, M, S, U	Greater than 30	1	0
R	Greater than 10	Not Permitted	0.5
I-2 <sup>b</sup> , I-4	All	Not Permitted	0
I-1, I-3	All	Not Permitted	1 <sup>b</sup>

- a. For requirements for occupancies in Group I-2, see Sections 407.2 and 407.3.  
b. For a reduction in the fire-resistance rating for occupancies in Group I-3, see Section 408.8.  
c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 where allowed.

TABLE 1020.2  
MINIMUM CORRIDOR WIDTH

OCCUPANCY	MINIMUM WIDTH (inches)
Any facilities not listed below	44
Access to and utilization of mechanical, plumbing or electrical systems or equipment	24
With an occupant load of less than 50	36
Within a dwelling unit	36
In Group E with a corridor having an occupant load of 100 or more	72
In corridors and areas serving stretcher traffic in occupancies where patients receive outpatient medical care that causes the patient to be incapable of self-preservation	72
Group I-2 in areas where required for bed movement	96

For SI: 1 inch = 25.4 mm.

### NUMBER OF EXITS

2 EXITS REQUIRED WHEN OCCUPANCY OF A SPACE IS GREAT THAN 49  
1 EXIT REQUIRED FROM THE STORY <49 OCCUPANTS

TABLE 1006.2.1  
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY	MAXIMUM OCCUPANT LOAD OF SPACE	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (feet)		
		Without Sprinkler System (feet)		With Sprinkler System (feet)
		Occupant Load		
A, E, M	49	OL ≤ 30	75	75 <sup>a</sup>
		OL > 30	75	100 <sup>a</sup>
B	49	OL ≤ 30	100	100 <sup>a</sup>
		OL > 30	75	100 <sup>a</sup>
F	49	OL ≤ 30	75	100 <sup>a</sup>
		OL > 30	75	100 <sup>a</sup>
H-1, H-2, H-3	3	NP	NP	25 <sup>b</sup>
		NP	NP	75 <sup>b</sup>
H-4, H-5	10	NP	NP	75 <sup>b</sup>
		NP	NP	75 <sup>b</sup>
I-1, I-2 <sup>b</sup> , I-4	10	NP	NP	75 <sup>b</sup>
		NP	NP	100 <sup>a</sup>
I-3	10	NP	NP	100 <sup>a</sup>
		NP	NP	75 <sup>a</sup>
R-1	10	NP	NP	75 <sup>a</sup>
		NP	NP	125 <sup>a</sup>
R-2	10	NP	NP	125 <sup>a</sup>
		NP	NP	125 <sup>a</sup>
R-3 <sup>a</sup>	10	NP	NP	125 <sup>a</sup>
		NP	NP	125 <sup>a</sup>
R-4 <sup>a</sup>	10	75	75	125 <sup>a</sup>
		75	75	125 <sup>a</sup>
S <sup>a</sup>	29	100	75	100 <sup>a</sup>
		100	75	100 <sup>a</sup>
U	49	100	75	75 <sup>a</sup>
		100	75	75 <sup>a</sup>

For SI: 1 foot = 304.8 mm, NP = Not Permitted.

TABLE 1006.3.1  
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY

OCCUPANT LOAD PER STORY	MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS FROM STORY
1-500	2
501-1,000	3
More than 1,000	4

STAIRS / RAMPS - IBC CHAPTER 10

SECTION 1009.3.2: EXCEPTION 1 - CLEAR WIDTH OF 48 INCHES MINIMUM BETWEEN HANDRAILS IS NOT REQUIRED (SPRINKLER)

SECTION 1005.3.1 - THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT (PER FLOOR FOR THAT FLOOR)

BASEMENT LEVEL:	91 (OCCUPANTS) X 0.3 = 27.3 IN. MINIMUM
FIRST FLOOR:	94 (OCCUPANTS) X 0.3 = 28.2 IN. MINIMUM
SECOND FLOOR:	39 (OCCUPANTS) X 0.3 = 11.7 IN. MINIMUM

SECTION 1005.3.1 EXCEPTION 1 - THE WIDTH SHALL NOT BE LESS THAN 44 INCHES

SECTION 1009.3

EXCEPTION 1 - EXIT ACCESS STAIRWAYS PROVIDING MEANS FOR EGRESS FROM MEZZANINES ARE PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS.

EXCEPTION 2 - THE CLEAR WIDTH OF 48 INCHES BETWEEN HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEMS.

EXCEPTION 3 - AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

DOORS

SECTION 1010.1.1 - SIZE OF DOORS: THE REQUIRED CAPACITY OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32 INCHES.

SECTION 1005.3.2 - THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH (5.1 MM) PER OCCUPANT.

BASEMENT LEVEL:	91 (OCCUPANTS) X 0.2 = 18.2 IN. MINIMUM
FIRST FLOOR:	94 (OCCUPANTS) X 0.2 = 18.8 IN. MINIMUM
SECOND FLOOR:	39 (OCCUPANTS) X 0.2 = 7.8 IN. MINIMUM

**THE MINIMUM WIDTH SHALL NOT BE LESS THAN 32 INCHES AND THE MINIMUM HEIGHT SHALL NOT BE LESS THAN 80"**

EGRESS THROUGH INTERVENING SPACES (SECTION 1016.2)

EXIT ACCESS THROUGH AN ENCLOSED ELEVATOR LOBBY IS PERMITTED. ACCESS TO NOT LESS THAN ONE OF THE REQUIRED EXITS SHALL BE PROVIDED WITHOUT TRAVEL THROUGH THE ENCLOSED ELEVATOR LOBBIES REQUIRED BY SECTION 3006, WHERE THE PATH OF EXIT ACCESS TRAVEL PASSES THROUGH AN ENCLOSED ELEVATOR LOBBY, THE LEVEL OF PROTECTION REQUIRED FOR THE ENCLOSED ELEVATOR LOBBY IS NOT REQUIRED TO BE EXTENDED TO THE EXIT UNLESS DIRECT ACCESS TO AN EXIT IS REQUIRED BY OTHER SECTIONS OF THIS CODE.

EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

EXCEPTION: MEANS OF EGRESS ARE NOT PROHIBITED THROUGH ADJOINING OR INTERVENING ROOMS OR SPACES IN A GROUP H, S, OR F OCCUPANCY WHERE THE ADJOINING OR INTERVENING ROOMS OR SPACES ARE THE SAME OR A LESSER HAZARD OCCUPANCY GROUP. ELEVATORS - IBC SECTIONS 1009.4 AND 3006

AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS

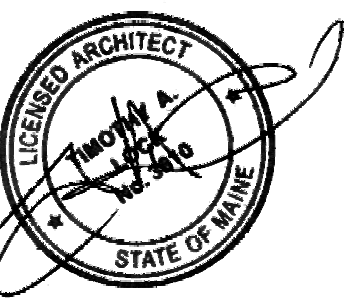
EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES.

EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE VALUES GIVEN BELOW:

TABLE 1017.2  
EXIT ACCESS TRAVEL DISTANCE<sup>a</sup>

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)
A, E, F-1, M, R, S-1	200	250 <sup>b</sup>
I-1	Not Permitted	250 <sup>b</sup>
B	200	300 <sup>b</sup>
F-2, S-2, U	300	400 <sup>b</sup>
H-1	Not Permitted	75 <sup>b</sup>
H-2	Not Permitted	100 <sup>b</sup>
H-3	Not Permitted	150 <sup>b</sup>
H-4	Not Permitted	175 <sup>b</sup>
H-5	Not Permitted	200 <sup>b</sup>
I-2, I-3, I-4	Not Permitted	200 <sup>b</sup>

For SI: 1 foot = 304.8 mm.









**NOTES:**

1. CONTRACTOR SHALL ENSURE SMOOTH TRANSITION TO EXISTING BITUMINOUS SURFACE.
2. CONTRACTOR SHALL COORDINATE WITH CITY OF WATERVILLE AND WATERVILLE SEWERAGE DISTRICT TO OBTAIN ANY NECESSARY PERMITS.
3. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS TO ENSURE THAT ALL DOWNSPOUTS DISCHARGING ONTO NON PAVED AREAS ARE PROVIDED WITH A MINIMUM 12"x24" CONCRETE SPLASH BLOCK.

PROJECT NAME

**Waterville  
Public  
Library**

PROJECT NO **20-15**

PROJECT ADDRESS

73 Elm Street  
Waterville, ME

REVISIONS:

DATE & DESCRIPTION:

PAST ISSUES:

DATE & DESCRIPTION:



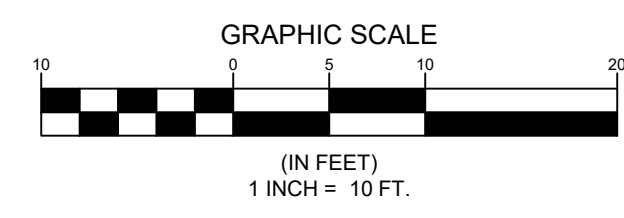
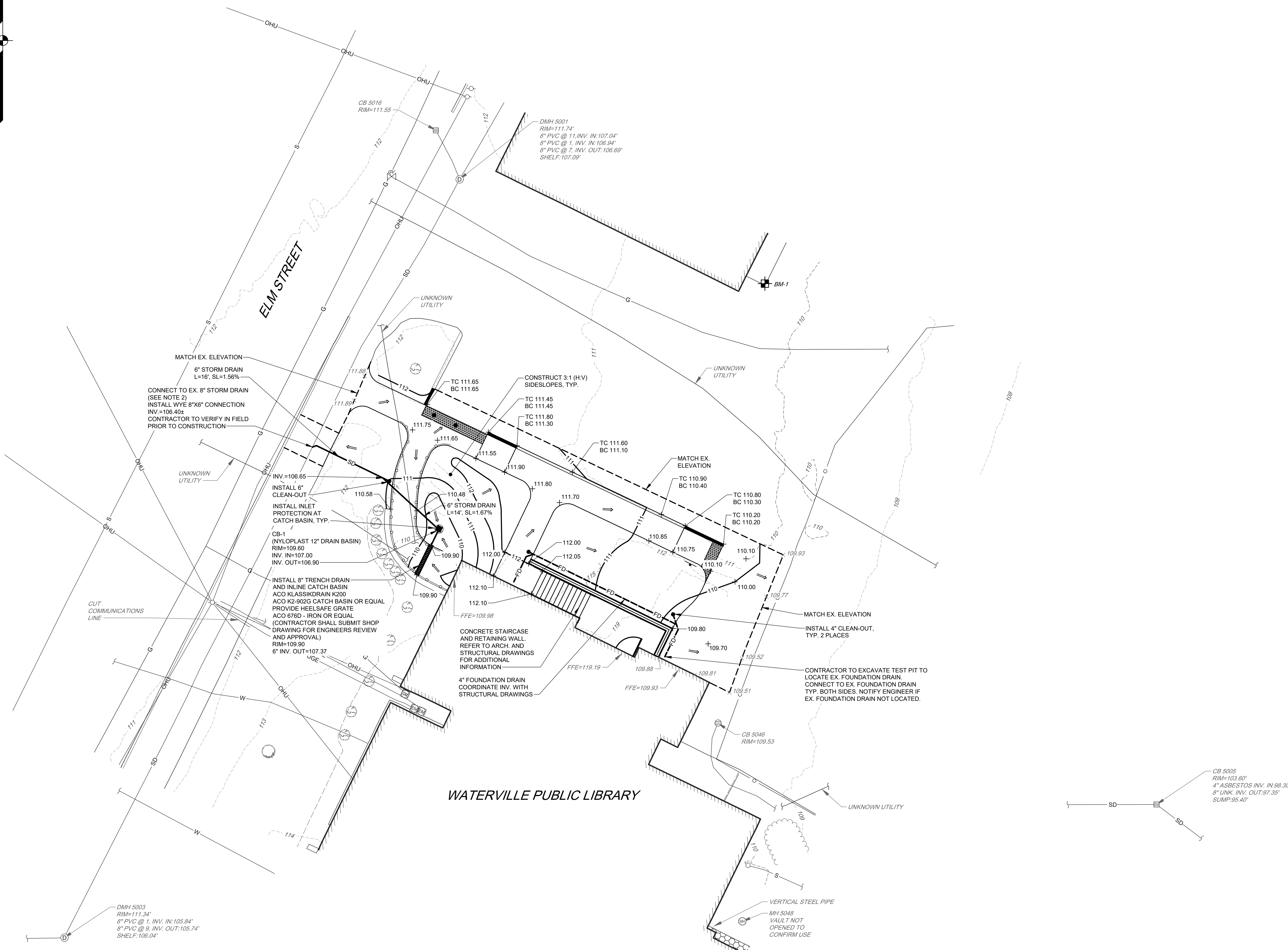
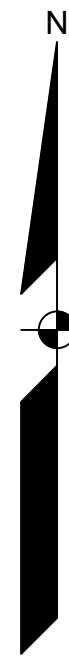
CURRENT ISSUE:

**22-0112 FOR CONSTRUCTION**

SHEET NO. AND NAME:

GRADING AND  
UTILITY PLAN

**C-103**



## EROSION CONTROL MEASURES

### PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 60% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCES AND EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL STAFF. THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

### CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD, SUCH AS ACTIVE EXCAVATION AND ACTIVE GRADING. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS ACTIVELY OCCURRING OR CAN BE MULCHED IN THE SAME DAY. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100 FEET OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

**EROSION CONTROL APPLICATIONS & MEASURES**  
THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

#### 1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. DISTURBED AREAS ADJACENT TO NATURAL RESOURCES THAT ARE NOT GRADED WITHIN SEVEN (7) DAYS SHALL BE MULCHED. ALSO, AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRASSED WATERWAYS AND ON SLOPES GREATER THAN 3%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES).  
TYPES OF MULCH:

**HAY OR STRAW:** SHALL BE APPLIED AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE).

**EROSION CONTROL MIX:** SHALL BE PLACED EVENLY AND MUST PROVIDE 100% SOIL COVERAGE. EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES 3:1 OR LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS FERTILIZER SHOULD NOT BE USED ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET.

**EROSION CONTROL BLANKET:** SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### 2. SOIL STOCKPILES:

STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILE.

#### 3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1 OF THIS SECTION) WITHIN 7 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4 OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.

#### 4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS SHALL BE STAKED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. SEDIMENT BARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION.

**SILT FENCE:** SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

**HAY BALES:** SHALL NOT BE INSTALLED ADJACENT TO WETLAND. INSTALL PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DETERIORATION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

**EROSION CONTROL MIX:** SHALL NOT BE USED ADJACENT TO WETLANDS. INSTALL PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. THE MIX COMPOSITION SHALL MEET THE STANDARDS SET FORTH IN THE MDEP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER. EROSION CONTROL MIX BERM SHALL NOT BE USED AT THE BOTTOM OF STEEP SLOPES (>8%) OR SLOPES WITH FLOWING WATER.

**CONTINUOUS CONTAINED BERM:** SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX PLACED WITHIN A SYNTHETIC TUBULAR NETTING AND PERFORMS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

#### 5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALE ARE ESTABLISHED WITH AT LEAST 90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

**STONE CHECK DAMS:** STONE DAMS SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAN THE OUTER EDGES.

**HAY BALE CHECK DAMS:** BALES SHALL BE WIRE-BOUND OR STRING-TIED. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. HAY BALES SHALL BE PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAN THE OUTER EDGES.

**MANUFACTURED CHECK DAMS:** MANUFACTURED CHECK DAMS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL, STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### 6. STORMDRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORMDRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT PONDING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

**HAY BALE DROP INLET PROTECTION:** WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

**CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET):** SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

**MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET):** MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### 7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE THE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY SWEEP TO FURTHER MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. THE TERM "SWEEP" IS UNDERSTOOD TO MEAN REMOVAL AND RECOVERY OF TRACKED SEDIMENT WITH A STREET SWEEPER, NOT BRUSHING THE MATERIAL INTO SWALES OR STRUCTURES WITH A MECHANICAL BROOM. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

#### DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY TO REDUCE DUST DURING THE DRY MONTHS, APPLYING OTHER DUST CONTROL PRODUCTS SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES. HOWEVER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE. IF OFFSITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NOT LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS.

#### TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDBED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHORT LIVING) SHALL BE SELECTED FROM THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUALS FOR CONTRACTORS AND ENGINEERS, 2016 OR LATEST REVISION. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

#### PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

#### SEEDBED PREPARATION:

A. FOUR (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

ITEM	APPLICATION RATE
10-20-20 FERTILIZER (N-P205-K20 OR EQUAL)	18.4 LBS/1,000 S.F.
GROUND LIME/STONE (50% CALCIUM & MAGNESIUM OXIDE)	138 LBS/1,000 S.F.

C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDBED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND.

#### APPLICATION OF SEED:

A. SEEDING SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: (MDEP SEED MIX 2 IS DISPLAYED)

SEED TYPE	APPLICATION RATE
CREeping RED FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
REDTOP	0.05 LBS/1,000 S.F. (2 LBS/ACRE)
TALL FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
TOTAL:	0.97 LBS/1,000 S.F. (42 LBS/ACRE)

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. MDEP RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 2016 OR LATEST REVISION.

B. HYDROSEEDING SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. RECOMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. **MULCHING:** SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

#### SOODING:

USING SEEDBED PREPARATION, SOO CAN BE APPLIED IN LIEU OF SEEDING IN AREAS WHERE IMMEDIATE VEGETATION IS MOST BENEFICIAL SUCH AS DITCHES, AROUND STORMWATER DROP INLETS AND AREAS OF AESTHETIC VALUE. SOO SHOULD BE LAID AT RIGHT ANGLES TO THE DIRECTION OF FLOW, STARTING AT THE LOWEST ELEVATION. SOO SHOULD BE ROLLED OR TAMPED DOWN TO EVEN OUT THE JOINTS ONCE LAID DOWN. WHERE FLOW IS PREVALENT THE SOO MUST BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOO IMMEDIATELY AFTER INSTALLATION. IN MOST CASES, SOO CAN BE ESTABLISHED BETWEEN APRIL 1ST AND NOVEMBER 15TH OF THE CONSTRUCTION YEAR, HOWEVER, REFER TO THE WINTER EROSION CONTROL NOTES FOR ANY ACTIVITIES AFTER OCTOBER 1ST.

#### STANDARDS FOR TIMELY STABILIZATION:

**STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES** – THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

A. **STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS** – BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(C) OF THIS STANDARD.

B. **STABILIZE THE SLOPE WITH SOO** – THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOO ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOO INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).

C. **STABILIZE THE SLOPE WITH WOOD WASTE COMPOST** – THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

D. **STABILIZE THE SLOPE WITH STONE RIPRAP** – THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

**STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS** – BY SEPTEMBER 15 THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

A. **STABILIZE THE SOIL WITH TEMPORARY VEGETATION** – BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET. LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C) OF THIS STANDARD.

B. **STABILIZE THE SOIL WITH SOO** – THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOO ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

C. **STABILIZE THE SOIL WITH MULCH** – BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

1. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, AND AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS NO LATER THAN THE END OF THE NEXT WORKDAY, TO ALLOW CONTINUED PROPER FUNCTIONING OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN WITHIN SEVEN (7) DAYS.

2. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

#### HOUSEKEEPING:

1. **SPILL PREVENTION:** CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.

2. **GROUNDWATER PROTECTION:** DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN INFILTRATION AREA IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL, DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

3. **FUGITIVE SEDIMENT AND DUST:** ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.

4. **DEBRIS AND OTHER MATERIALS:** MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

5. **EXCAVATION DE-WATERING:** EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODDED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN, AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

6. **AUTHORIZED NON-STORMWATER DISCHARGES:** IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:

- DISCHARGES FROM FIREFIGHTING ACTIVITY;
- FIRE HYDRANT FLUSHINGS;
- VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
- DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS;
- ROUTINE EXTERNAL BUILDING WASHDOWN, THAT DOES NOT INVOLVE DETERGENTS;
- PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED); IF DETERGENTS ARE NOT USED;
- UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- UNCONTAMINATED GROUNDWATER OR SPRING WATER;
- FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING;
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
- LANDSCAPE IRRIGATION.

7. **UNAUTHORIZED NON-STORMWATER DISCHARGES:** THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:

- WASTEWATER FROM THE WASHOUT OR CLEAN OUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
- BALES OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
- SOAP, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
- TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

## WINTER EROSION CONTROL MEASURES

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 1 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDER TAKEN DURING THE PROCEEDING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. ALL AREAS SHALL BE CONSIDERED TO BE DENIED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOADED, SEEDED AND MULCHED. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS/1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

#### 1. SOIL STOCKPILES

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1,000 S.F. (3 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

#### 2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA.

PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

#### 3. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT SILT FENCES.

#### 4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUED UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOADED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1 000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS/1,000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION OF MULCH EACH DAY OF FINAL GRADING. THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1 000 SQUARE FEET (3 TONS/ACRE) AND ADEQUATELY ANCHORED THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH.

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

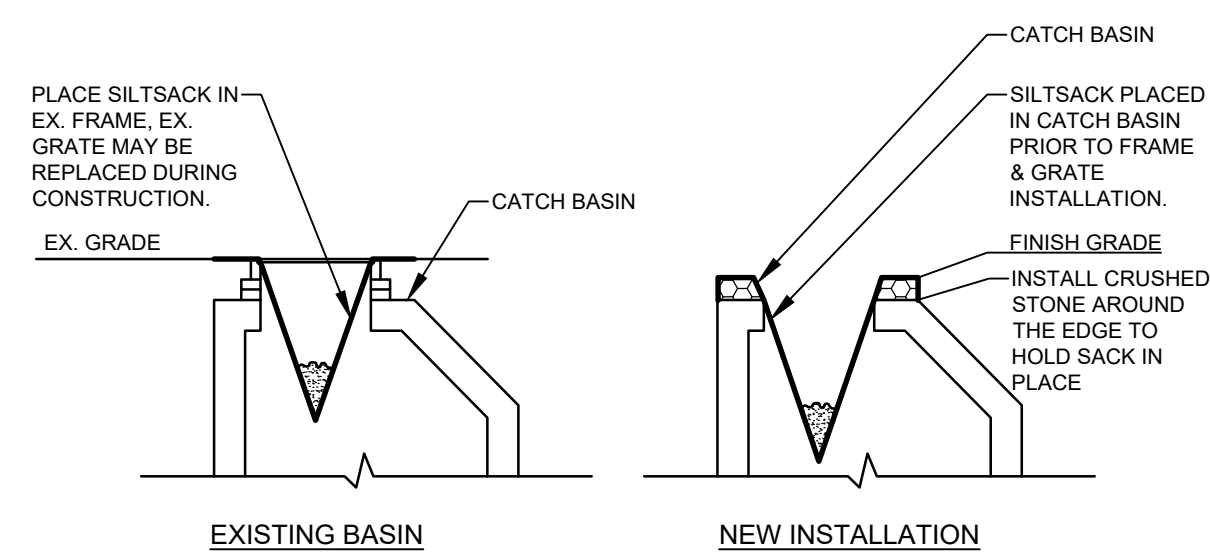
#### 5. MULCHING ON SLOPES AND DITCHES

SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH PEG AND NETTING OR WITH EROSION CONTROL BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 300 LBS/1,000 S.F. ON ALL SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 5%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

#### 6. SEEDING

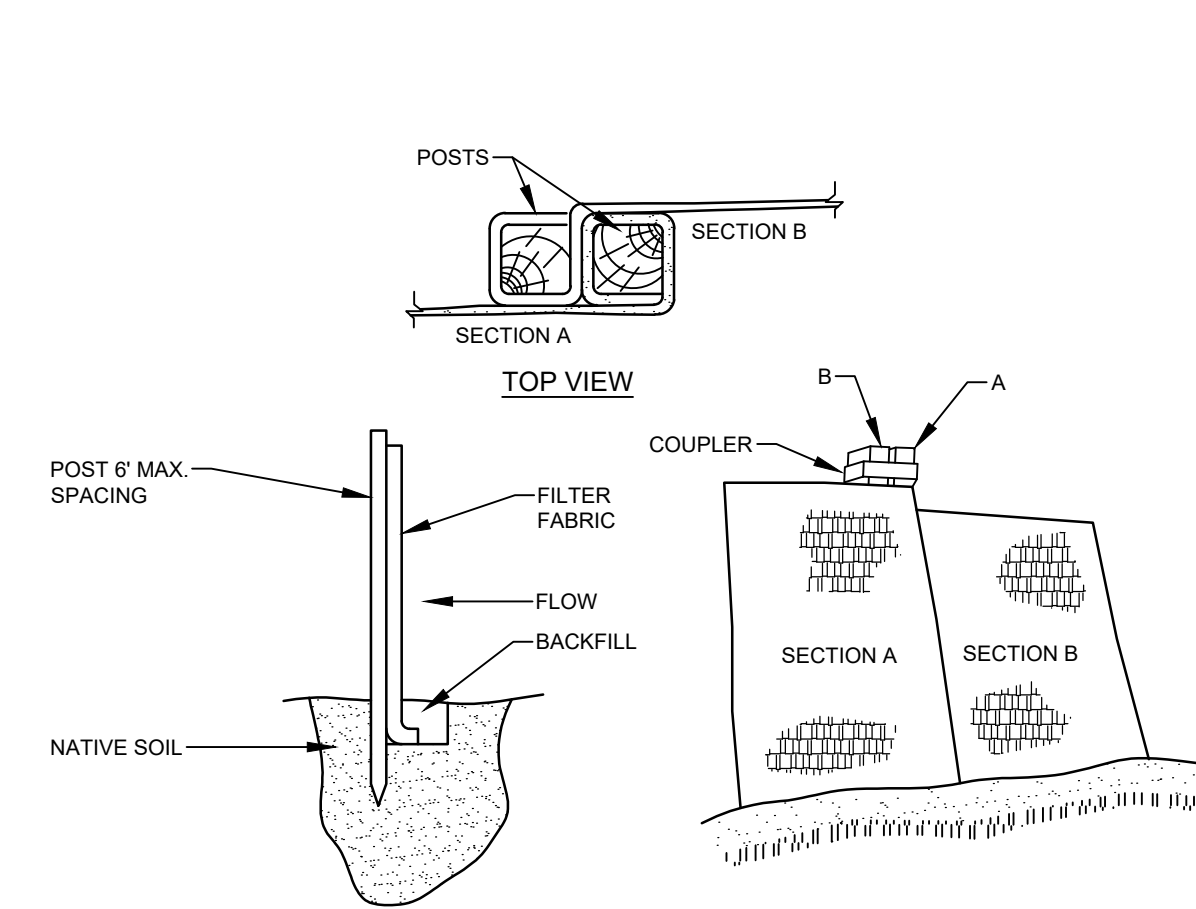
BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA





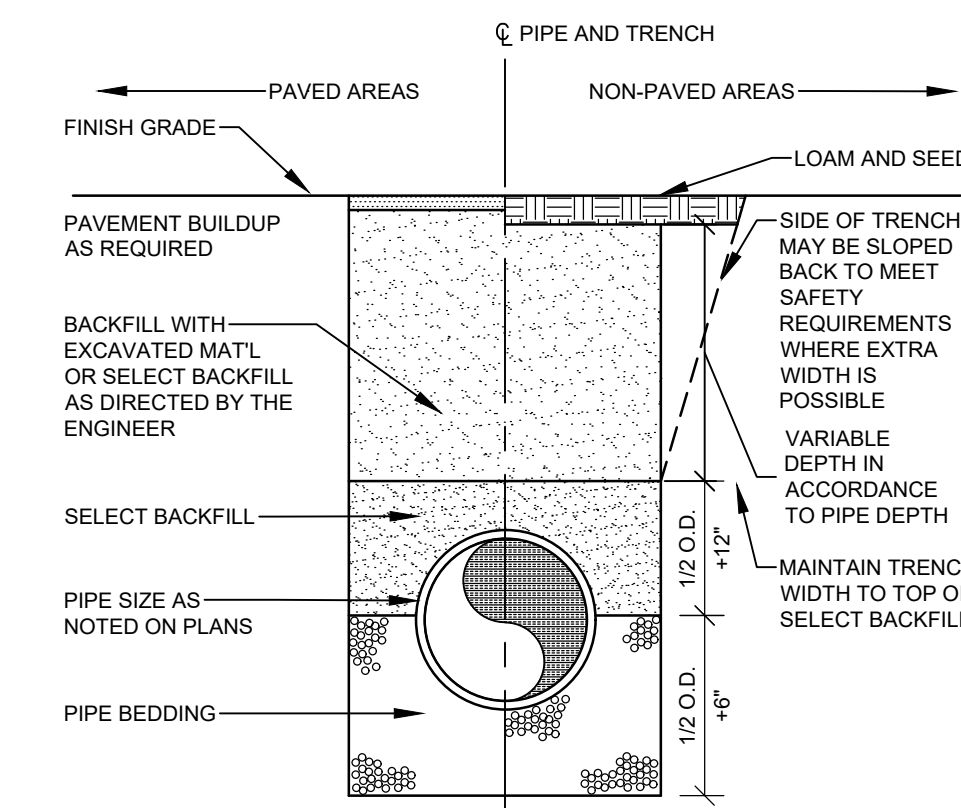
NOTES:  
PRIOR TO FINAL GRADING AND PAVING OPERATIONS BEGIN A CATCH BASIN INSERT (SUCH AS A SILT SACK OR A DANDY BAG. IT) MUST BE INSTALLED IN EACH BASIN PER MANUFACTURER'S INSTRUCTIONS. HAY BALES SHOULD BE REMOVED ONCE INSERTS ARE INSTALLED.

**CATCH BASIN PROTECTION DETAIL (FOR PAVED AREAS)**  
NOT TO SCALE



- INSTALLATION:
- EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
  - UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
  - DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.
  - LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.
  - JOIN SECTION AS SHOWN ABOVE.
  - BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.
  - THE FENCE SHOULD BE ANCHORED TO RESIST PULL-OUT AND BE STRETCHED TIGHTLY BETWEEN STAKES TO PREVENT SAGGING.
  - IN AREAS WHERE FLAP CANNOT BE KEYED PROPERLY (DUE TO FROZEN GROUND, BEDROCK, STONY SOILS, ROOTS NEAR A PROTECTED NATURAL RESOURCE, ETC.) THE SILT FENCE SHOULD BE ANCHORED WITH AGGREGATE, CRUSHED STONE, EROSION CONTROL MIX OR OTHER MATERIAL.
  - FILTER BARRIER NEEDS TO BE REMOVED WHEN THE AREA IS STABILIZED.

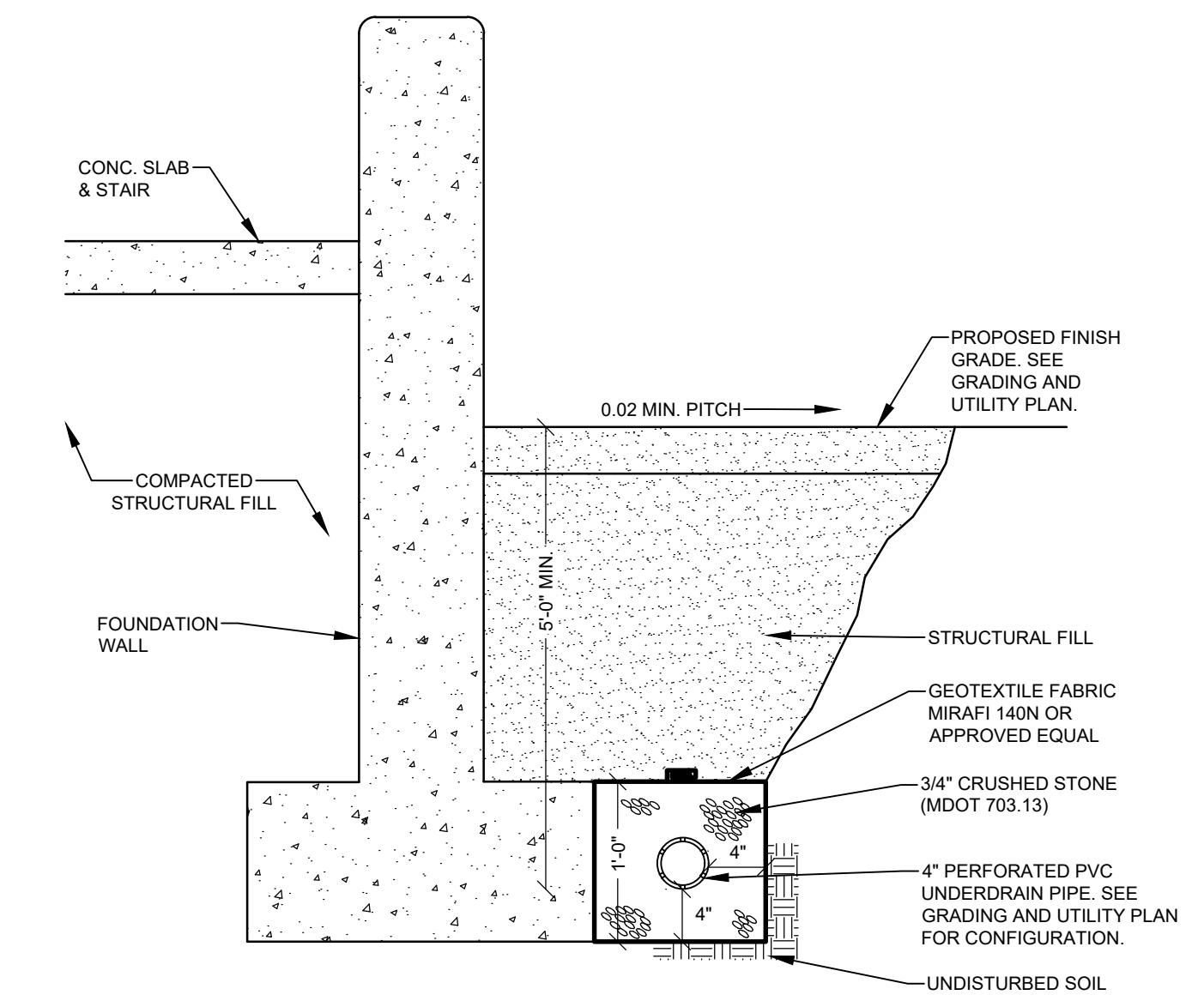
**FILTER BARRIER**  
NOT TO SCALE



PIPE TYPE	PIPE BEDDING MATERIAL	SELECT BACKFILL
PVC-SDR 35 HDPE	MDOT 703.13 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL, OR MDOT 703.13 3/4" CRUSHED STONE
PERFORATED PVC-SDR 35 HDPE	MDOT 703.13 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL, OR MDOT 703.13 3/4" CRUSHED STONE

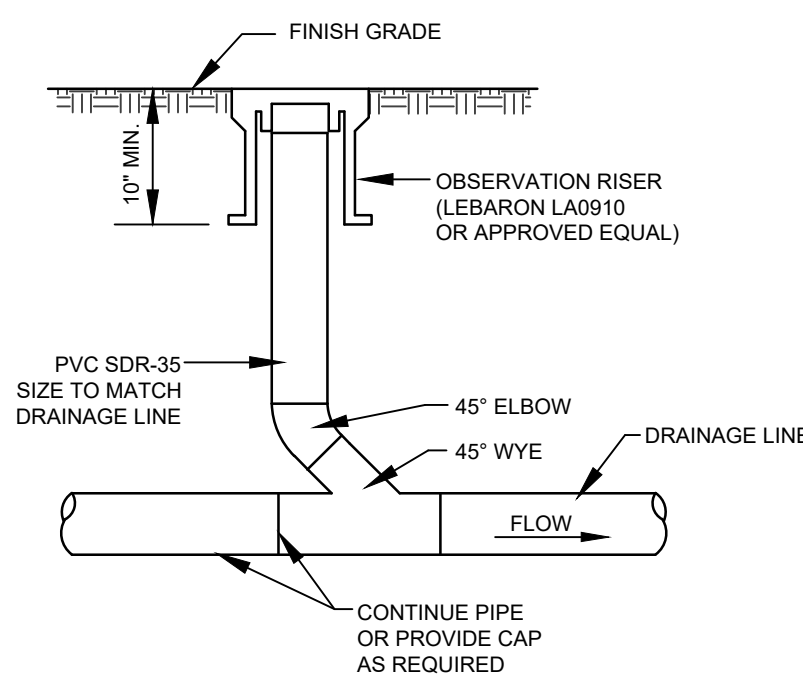
NOTE:  
ALL BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL MEET ALL STATE AND O.S.H.A. SAFETY STANDARDS.

**TYPICAL TRENCH SECTION**  
NOT TO SCALE

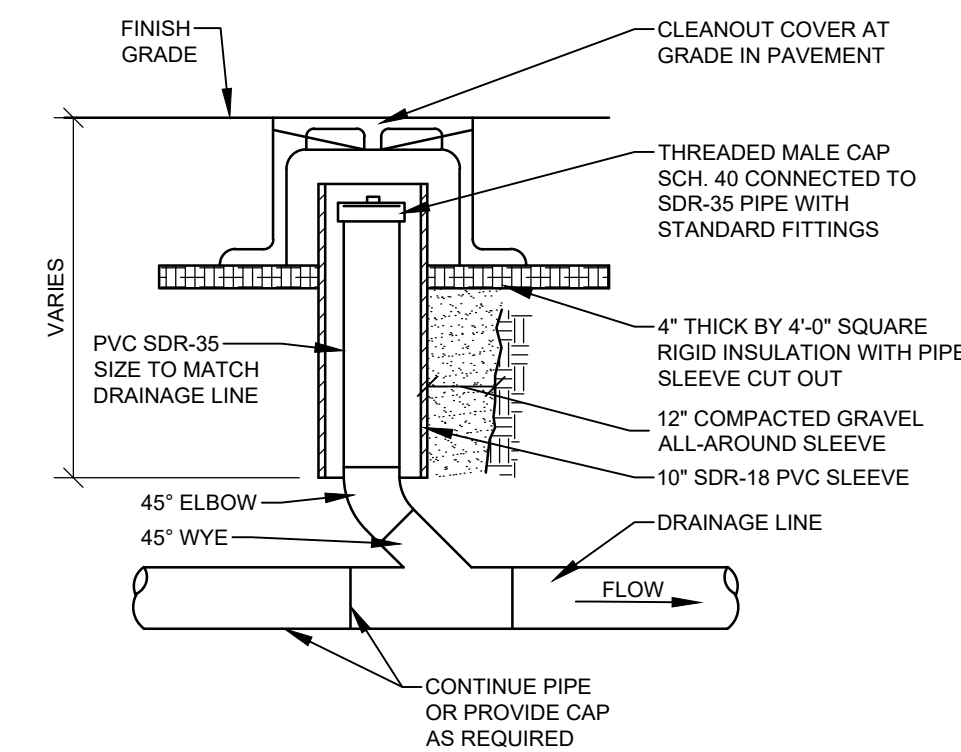


- NOTES:  
1. FOUNDATION DRAIN INSTALLATION AND MATERIAL GRADATION RECOMMENDATIONS SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.  
2. THIS DETAIL FOR PURPOSES OF THE FOUNDATION DRAIN AND BUILDING BACKFILL IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONSTRUCTION OF THE FOUNDATION DRAIN, FOOTING AND ASSOCIATED MATERIALS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.

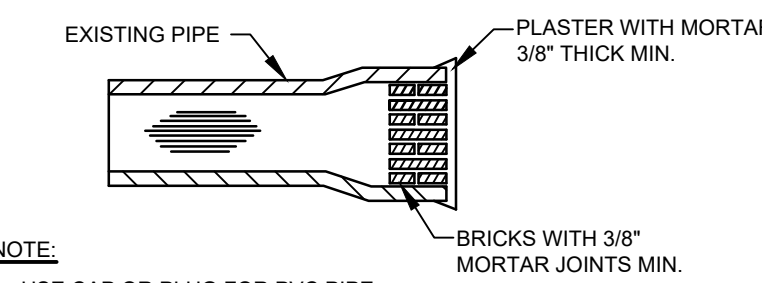
**FOUNDATION DRAIN SECTION**  
NOT TO SCALE



**CLEANOUT IN GRASSED AREAS**  
NOT TO SCALE

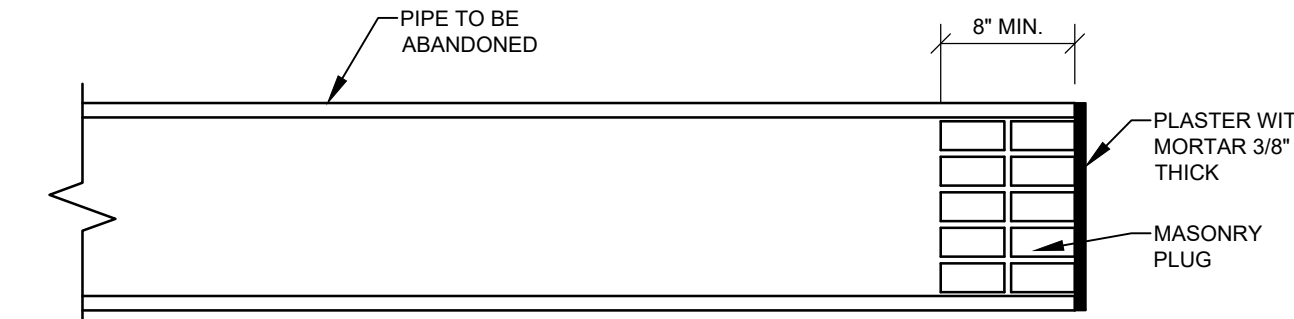


**CLEANOUT IN PAVEMENT AREAS**  
NOT TO SCALE



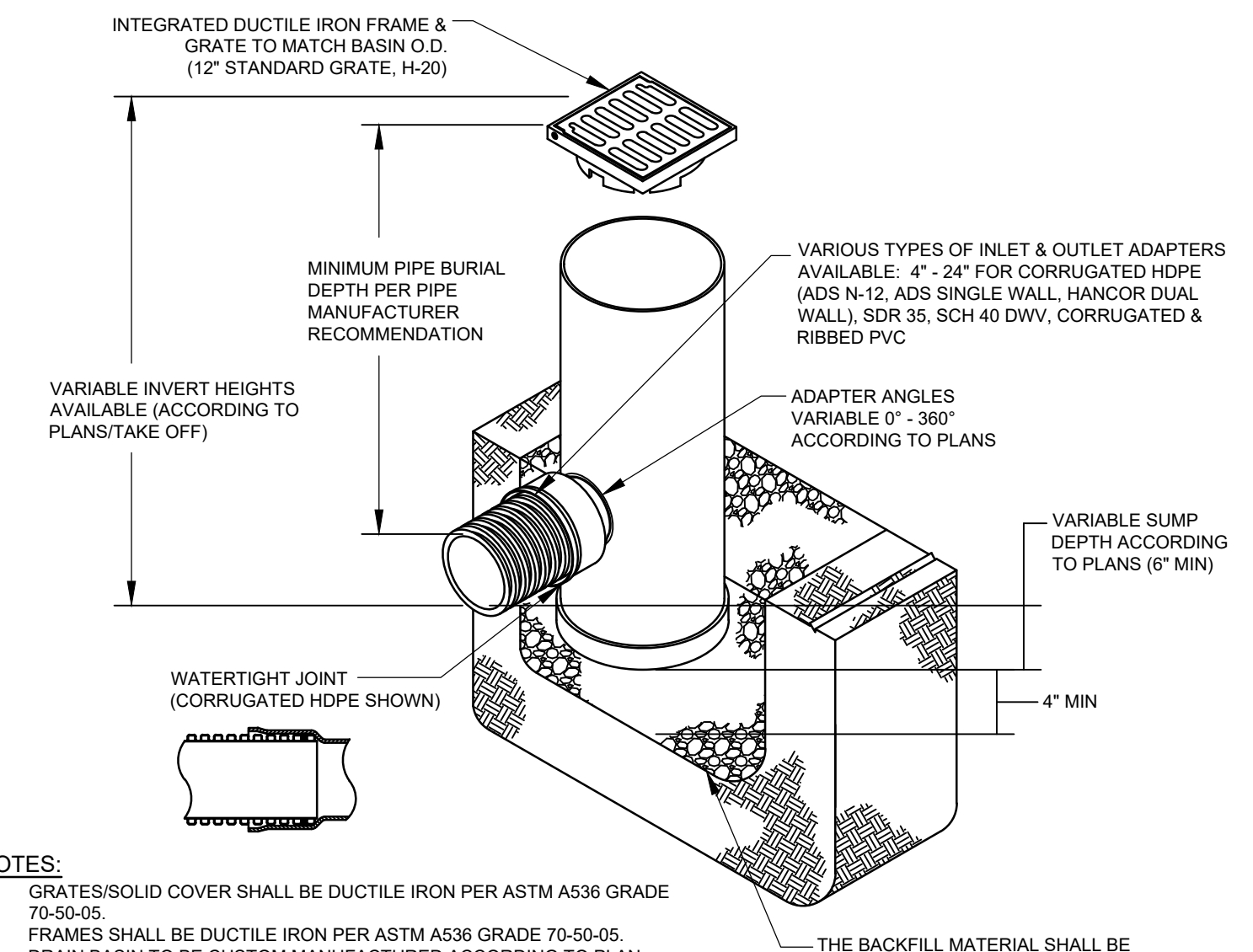
NOTE:  
1. USE CAP OR PLUG FOR PVC PIPE

**MASONRY PLUG DETAIL**  
NOT TO SCALE



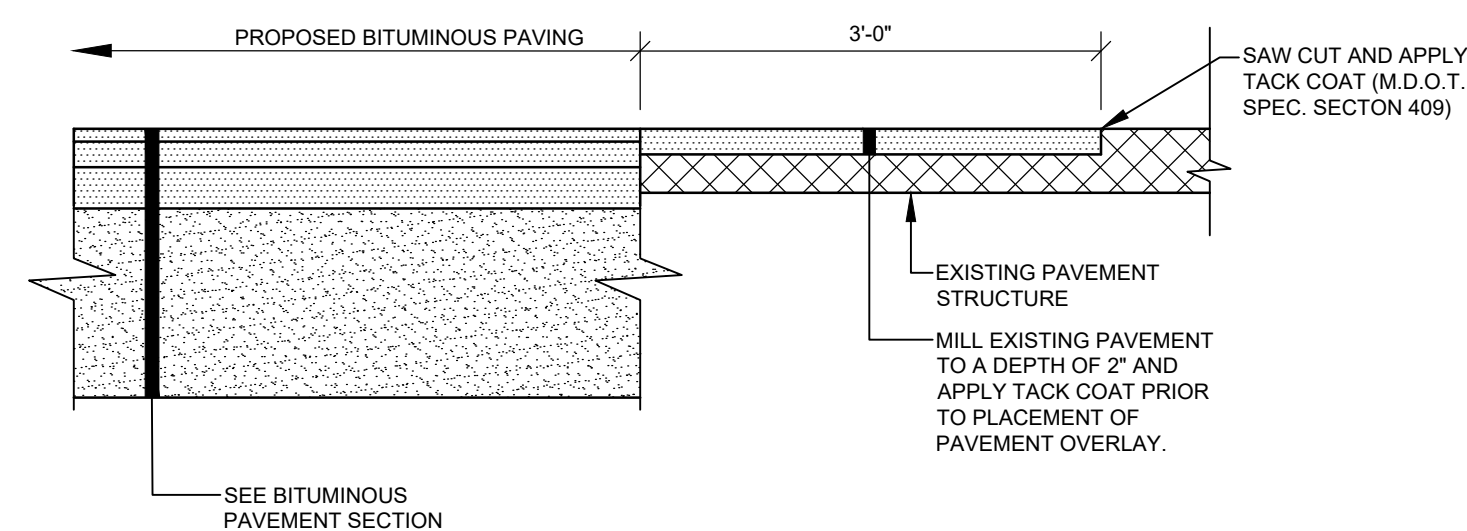
- NOTES:  
1. PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER AND SEWER DISTRICT.  
2. BACKFILL IS TO BE EITHER FLOWABLE BACKFILL OR FINE AGGREGATE.  
3. CAP PVC PIPE.

**ABANDONED PIPE PLUG DETAIL**  
NOT TO SCALE

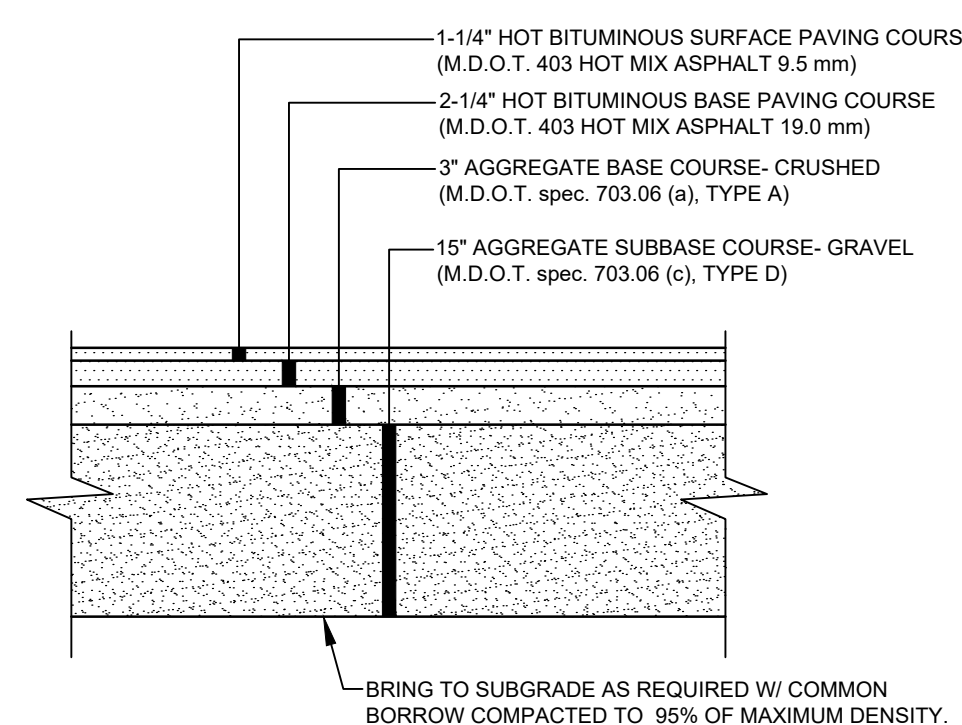


- NOTES:  
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.  
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.  
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.  
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.  
5. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

**NYLOPLAST 12" DRAIN BASIN**  
NOT TO SCALE

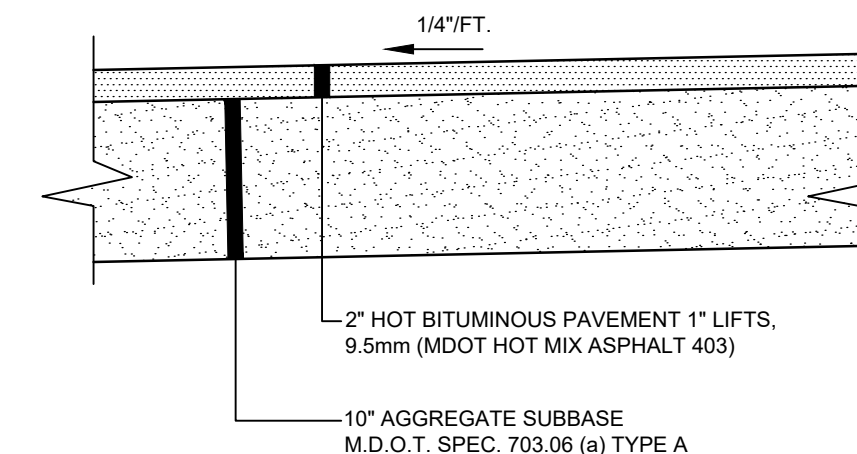


**PAVEMENT JOINT**  
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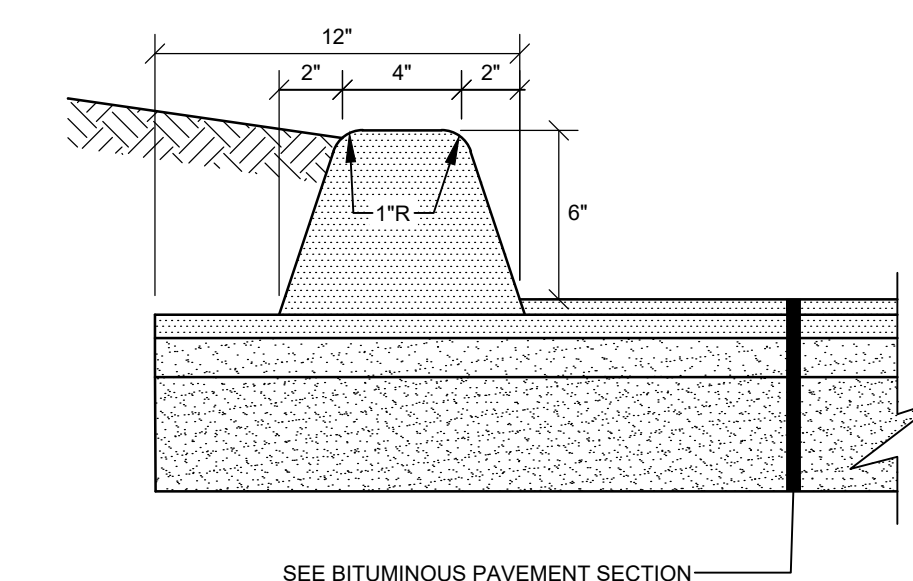


- NOTES:  
1. COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.  
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.  
3. ALL MATERIALS AND PAVEMENT OPERATIONS SHALL MEET THE MINIMUM REQUIREMENTS OF M.D.O.T. STANDARD SPECIFICATIONS

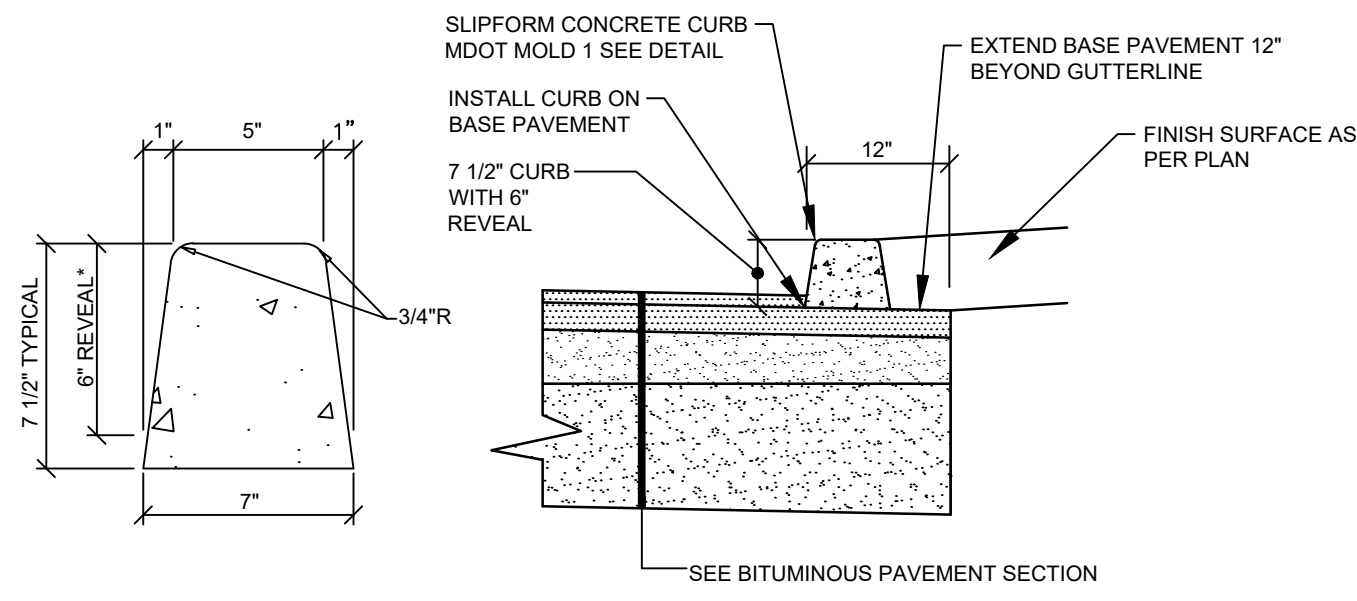
**BITUMINOUS PAVING**  
NOT TO SCALE



**BITUMINOUS SIDEWALK**  
NOT TO SCALE

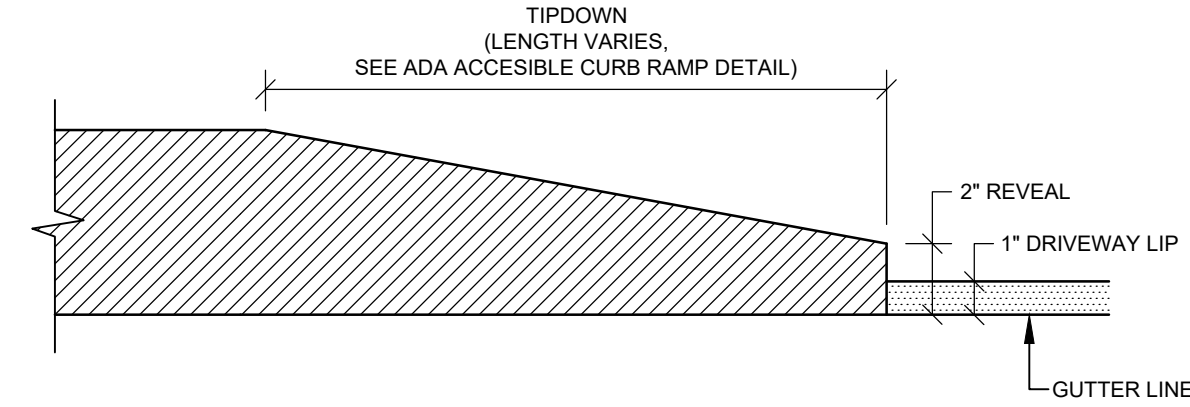


**BITUMINOUS CURB SECTION**  
NOT TO SCALE



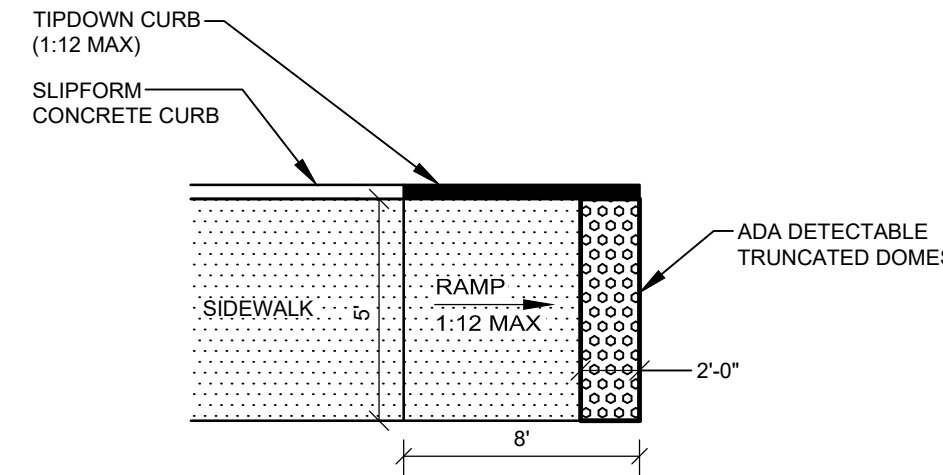
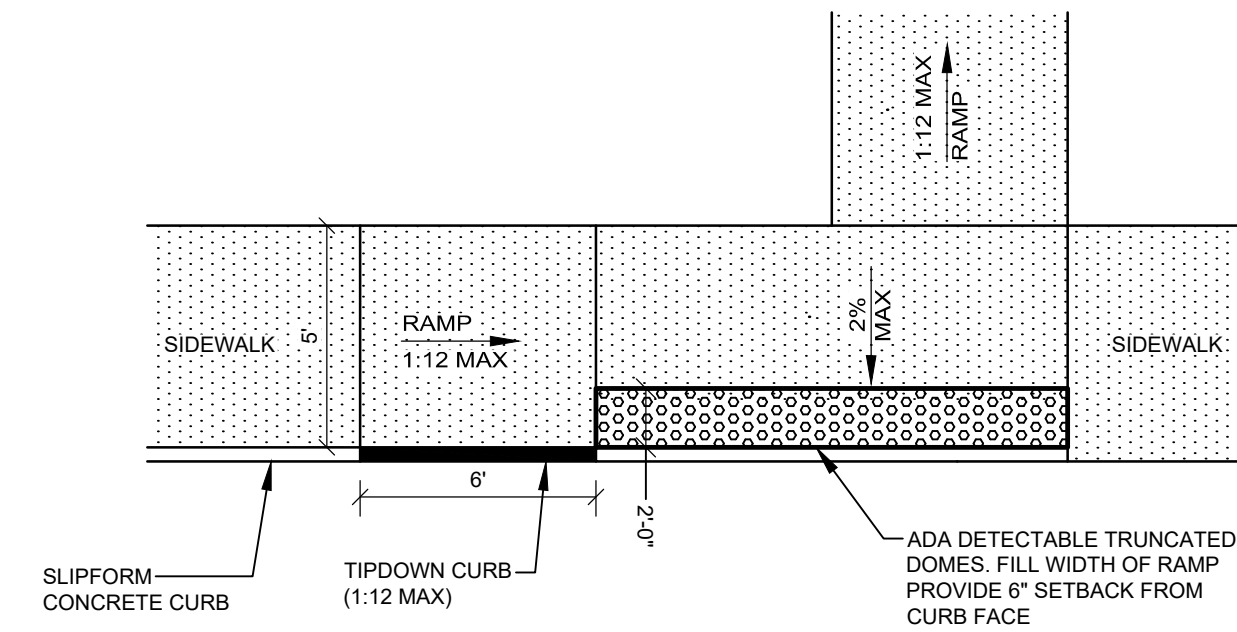
**CONCRETE SLIPFORM CURB**

NOT TO SCALE



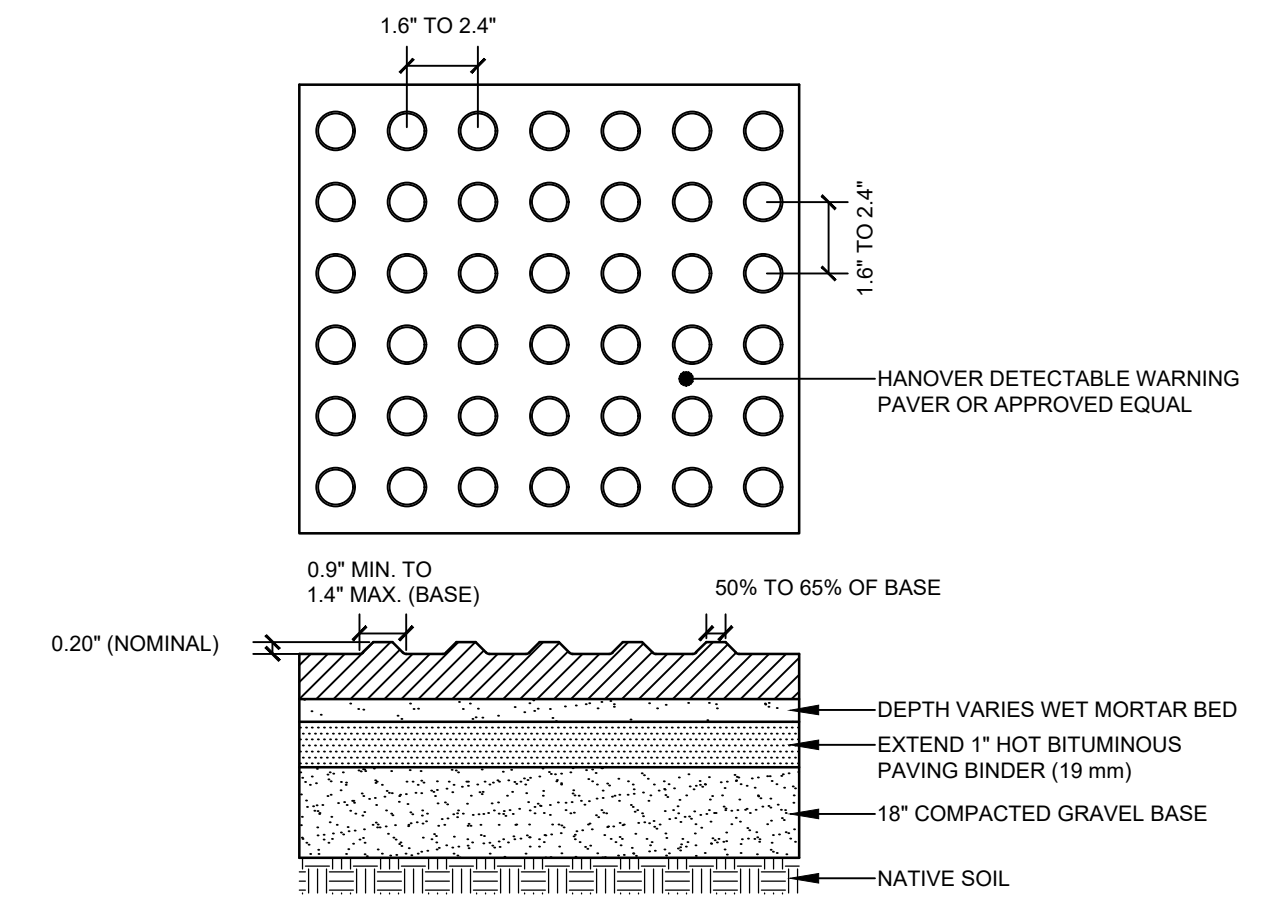
**TIPDOWN CURB INSTALLATION**

NOT TO SCALE



**ADA ACCESSIBLE CURB RAMPS**

NOT TO SCALE

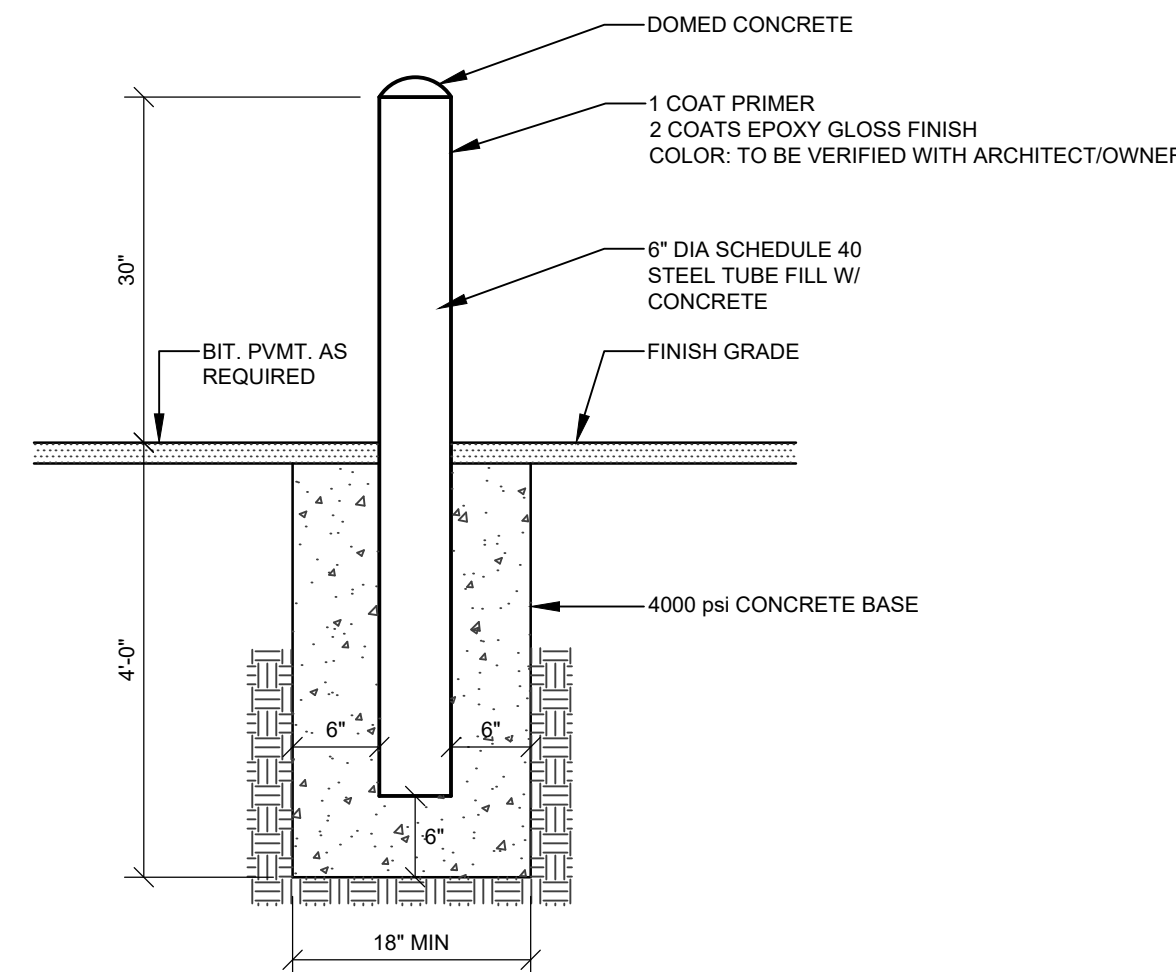


**NOTES:**

1. PAVERS ARE INSTALLED IN A WET MORTAR BED OVER HOT BITUMINOUS OR COMPACTED FILL BASE. THE WET MORTAR BED IS REQUIRED TO LEVEL THE PAVERS.
2. SPACING REQUIREMENTS:
  - A. TRUNCATED DOME PAVERS HAVE A BASE DIAMETER OF 0.9\" (23 MM) MINIMUM TO 1.4\" (36 MM) MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A NOMINAL DOME HEIGHT OF 0.2\" (5 MM).
  - B. TRUNCATED DOME PAVERS IN A DETECTABLE WARNING SURFACE HAVE A CENTER-TO-CENTER SPACING OF 1.6\" (41 MM) MINIMUM AND 2.4\" (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65\" (16 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE SQUARE GRID.
  - C. DETECTABLE WARNING SURFACES COLOR: TO BE COORDINATED WITH ARCHITECT.

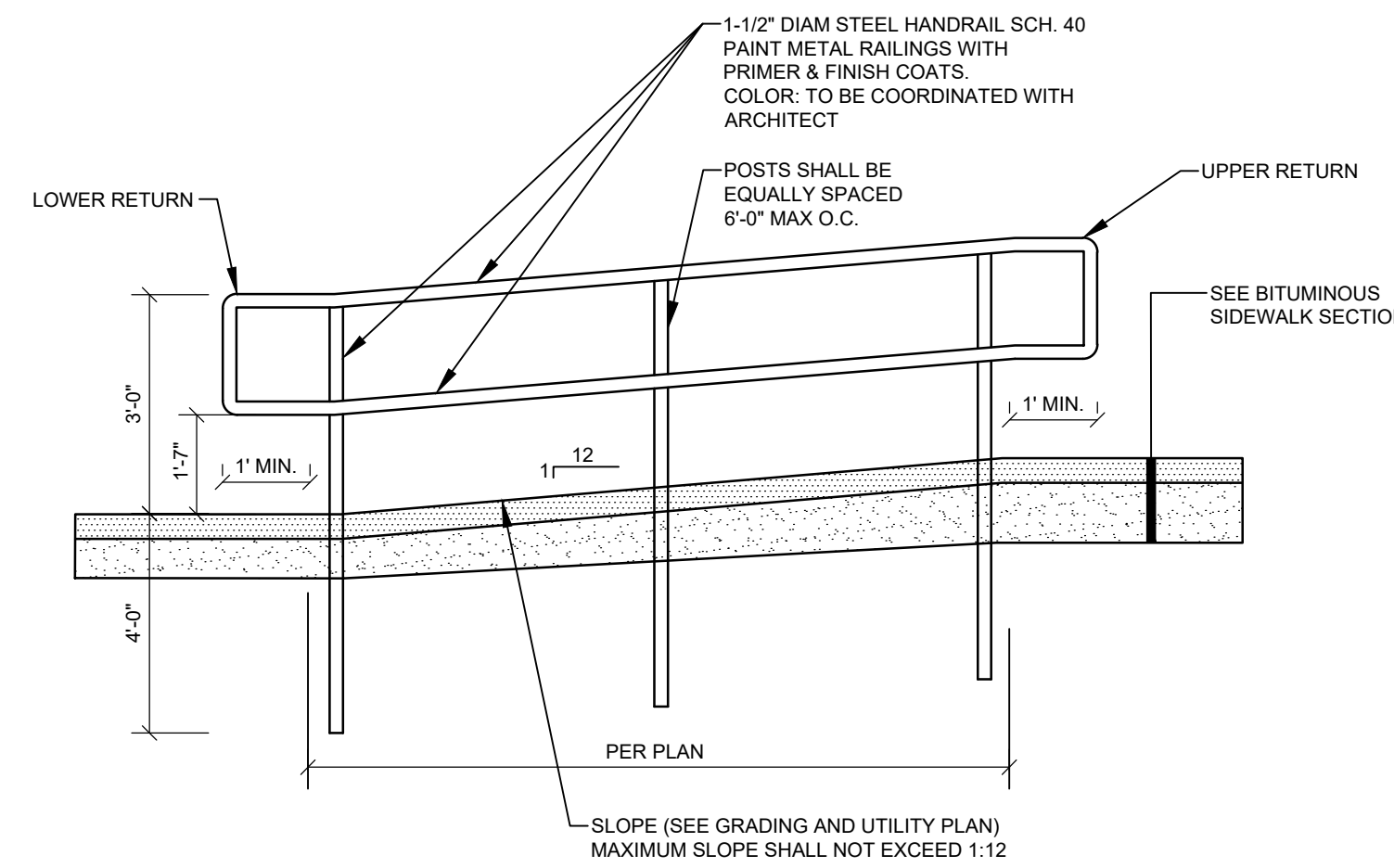
**ADA DETECTABLE TRUNCATED DOME DETAIL**

NOT TO SCALE



**METAL DOMED CONCRETE BOLLARD**

NOT TO SCALE



**TYPICAL PROFILE - RAMP**

NOT TO SCALE

PROJECT NAME

**Waterville Public Library**

PROJECT NO **20-15**

PROJECT ADDRESS

73 Elm Street  
Waterville, ME

REVISIONS:

DATE & DESCRIPTION:

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DATE & DESCRIPTION:



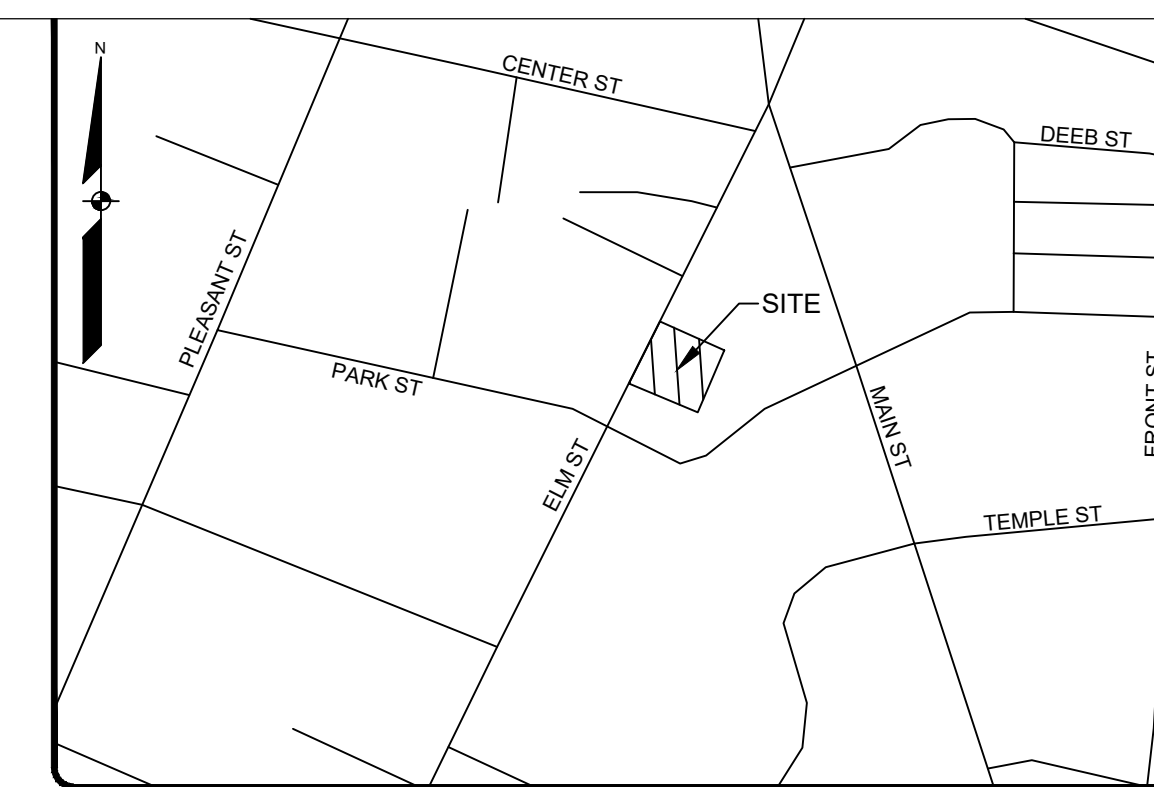
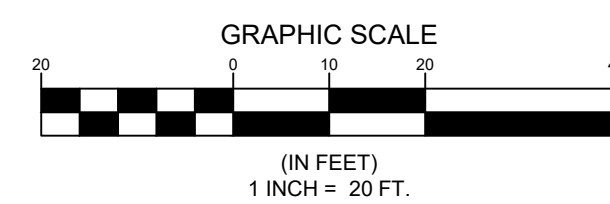
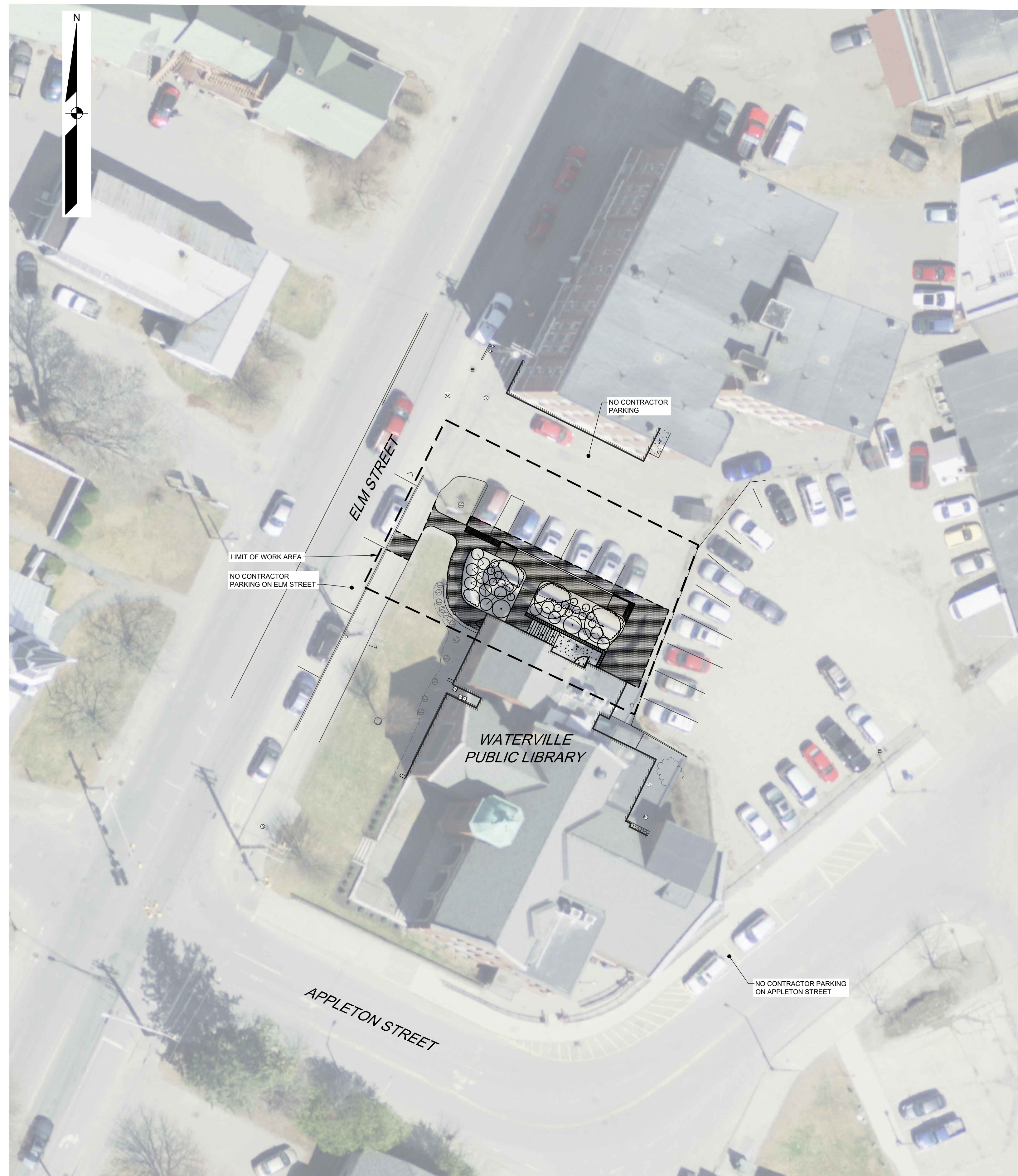
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**22-0112 FOR CONSTRUCTION**

SHEET NO. AND NAME:

DETAILS

**C-503**



LOCATION MAP

N.T.S.

PROJECT NAME

**Waterville  
 Public  
 Library**

PROJECT NO **20-15**

PROJECT ADDRESS

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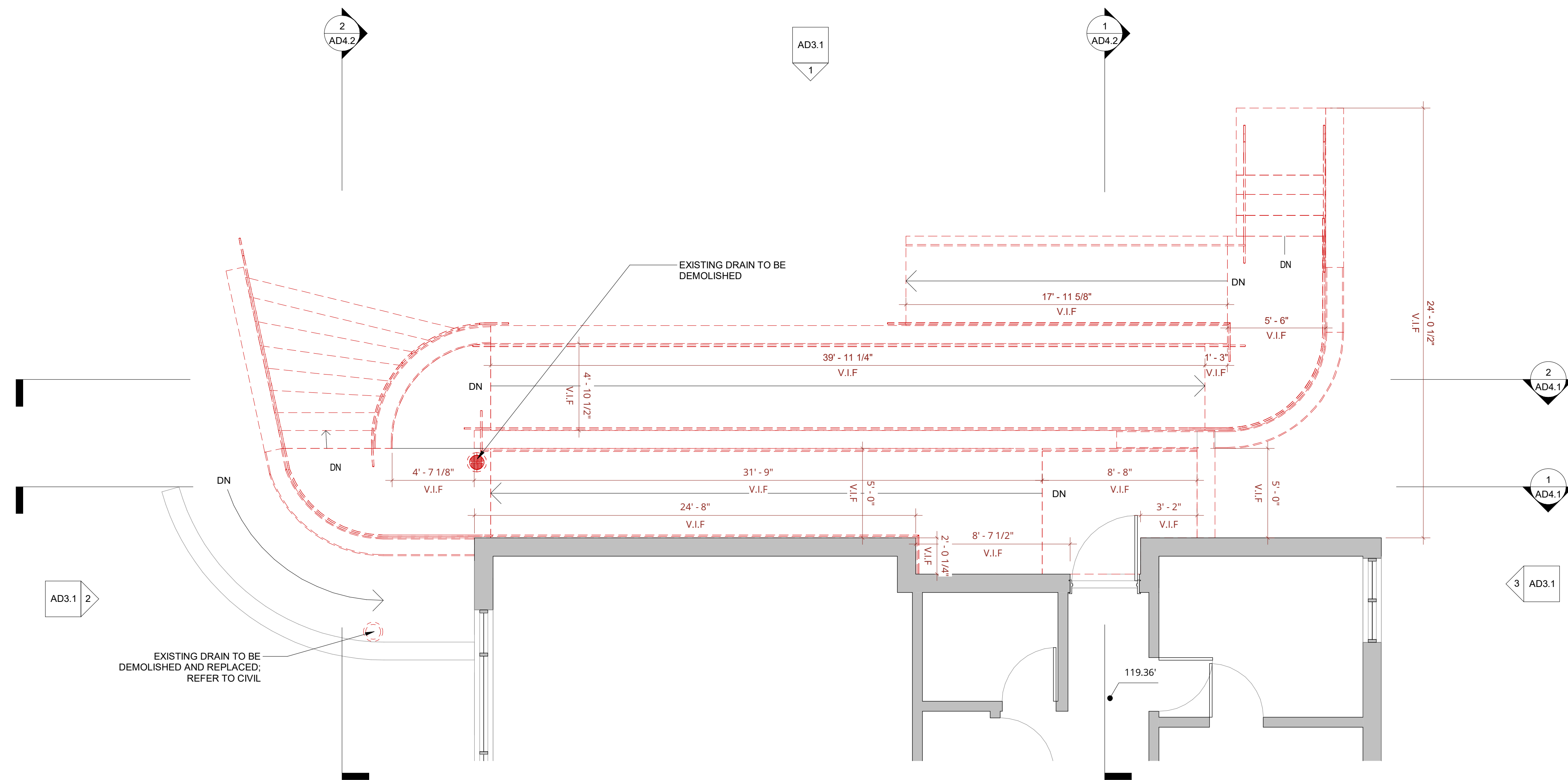
**CONTRACTOR KEY  
 PLAN**

**C-504**

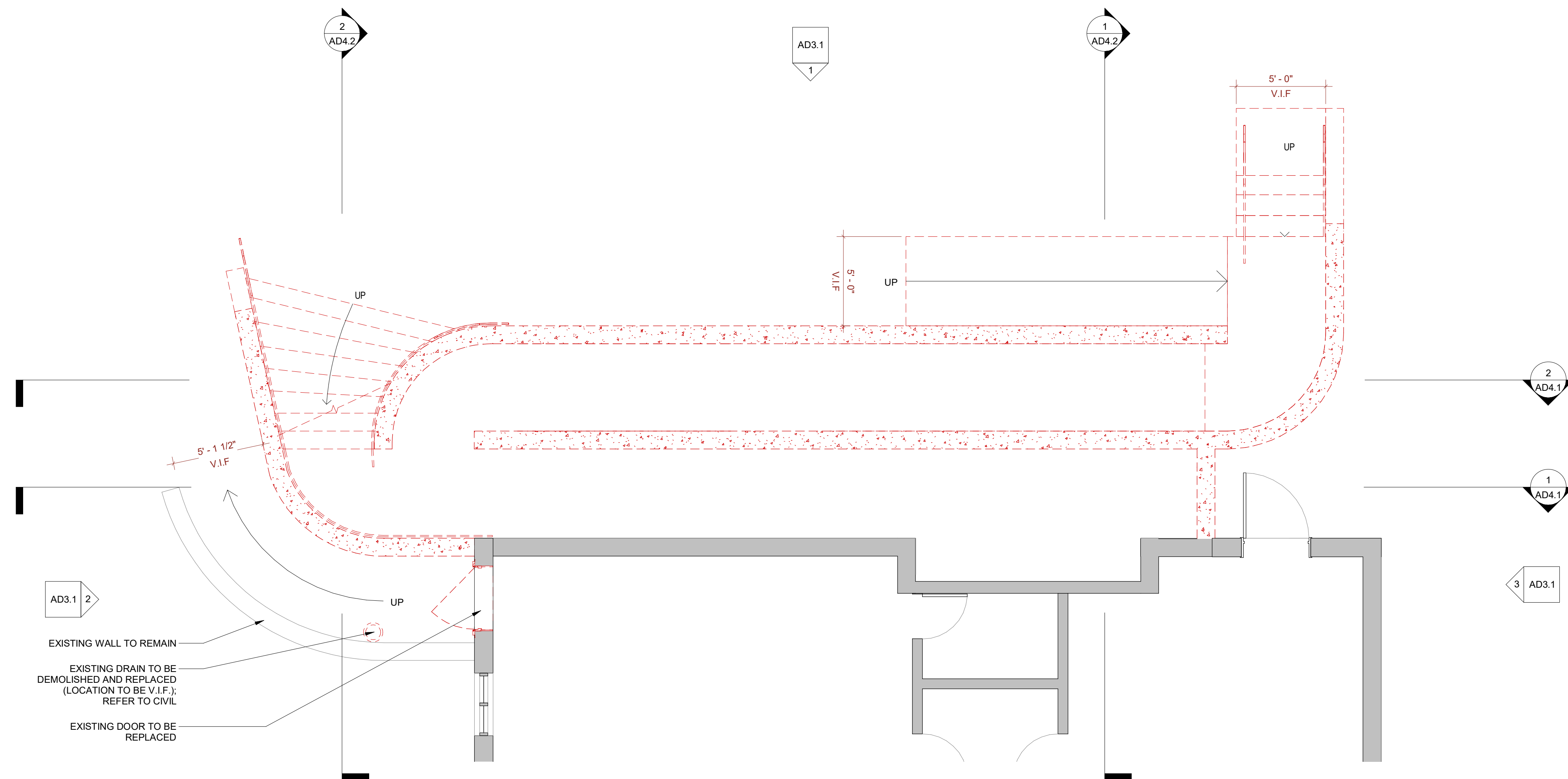
DEMOLITION DRAWING LEGEND

--- LINE INDICATES ITEM TO  
BE DEMOLISHED

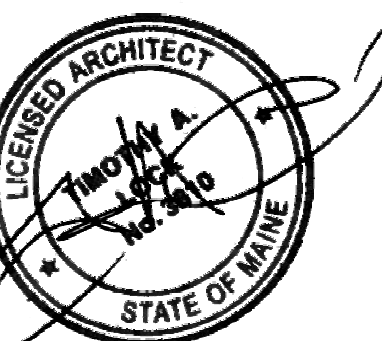
EXISTING TO REMAIN



2 LEVEL 1 - DEMOLITION PLAN  
1/4" = 1'-0"



1 BASEMENT STACKS LEVEL - DEMOLITION PLAN  
1/4" = 1'-0"



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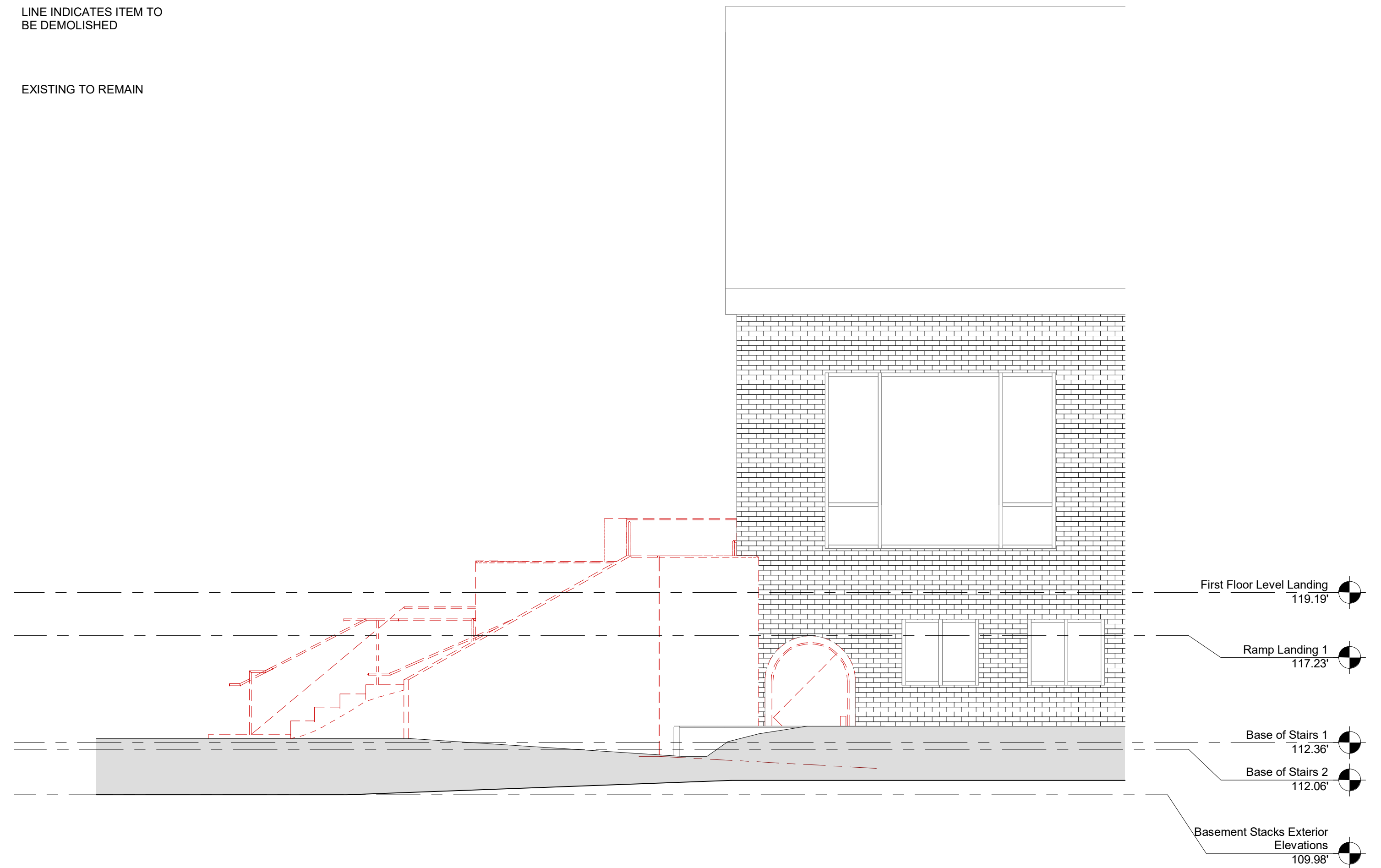
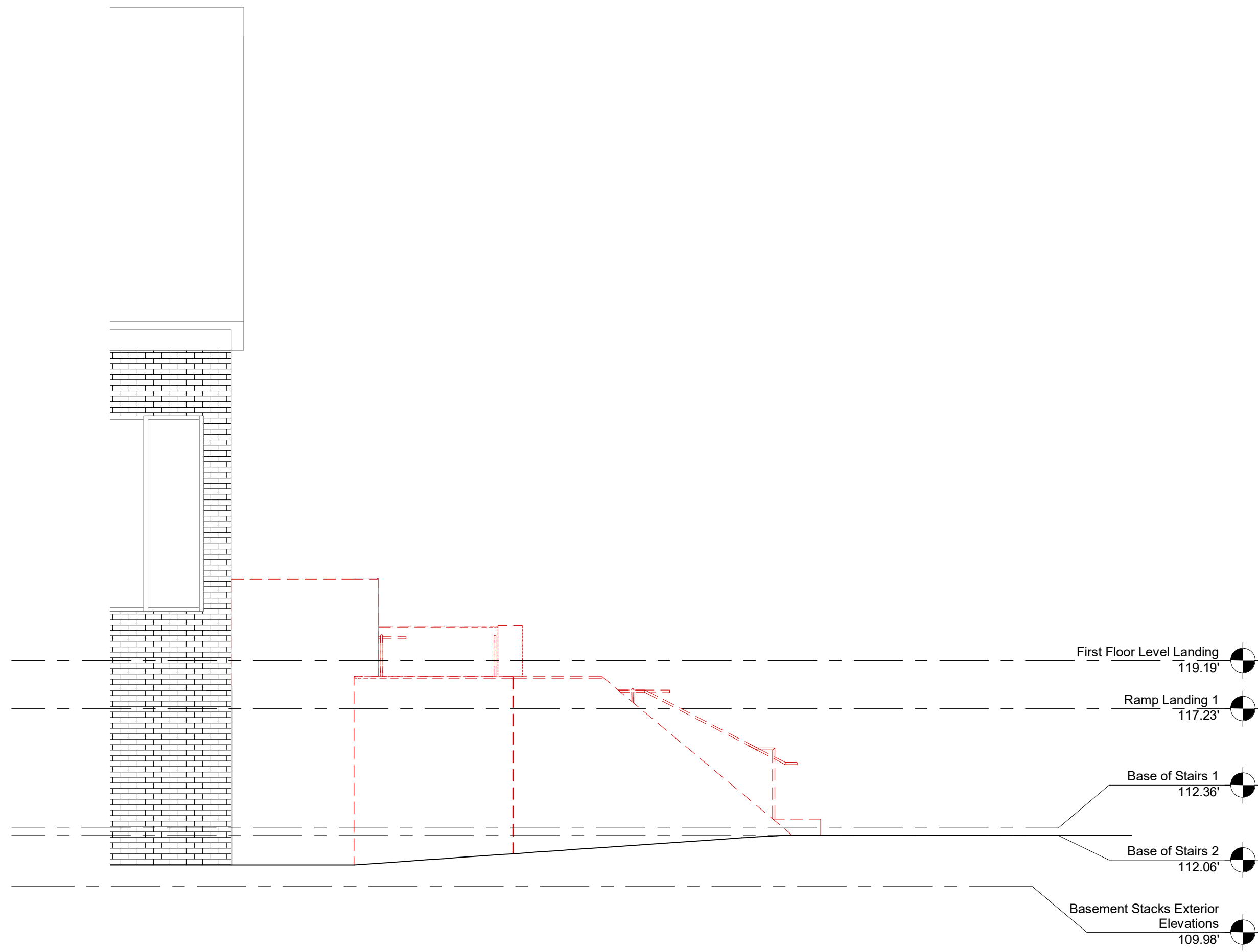
EXISTING/ DEMO  
ELEVATIONS

**AD3.1**

**DEMOLITION DRAWING LEGEND**

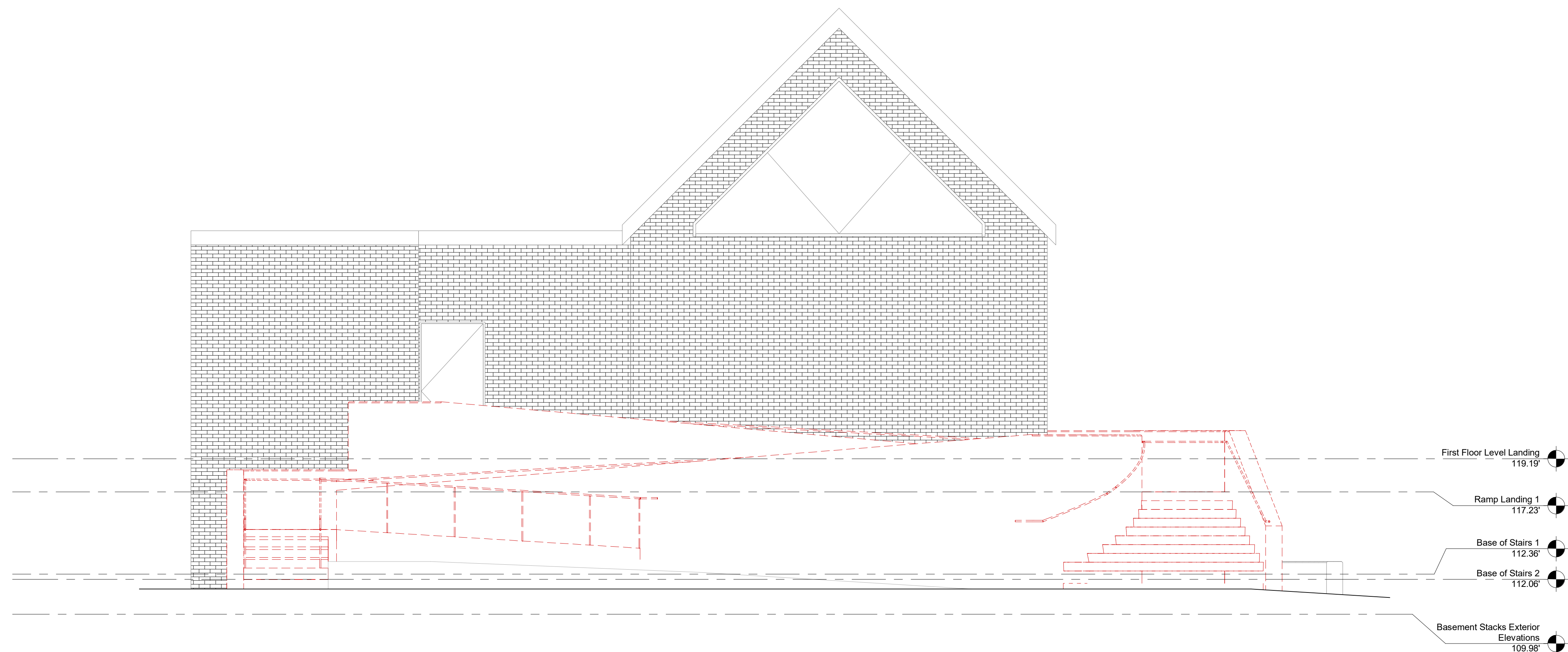
--- LINE INDICATES ITEM TO  
BE DEMOLISHED

EXISTING TO REMAIN

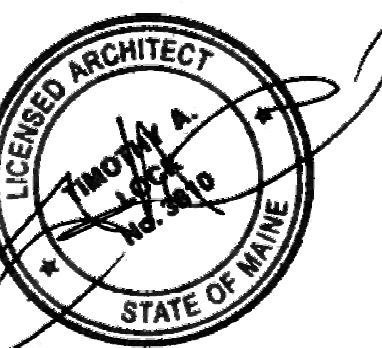


**3** EAST ELEVATION - DEMOLITION  
1/4" = 1'-0"

**2** WEST ELEVATION - DEMOLITION  
1/4" = 1'-0"



**1** NORTH ELEVATION - DEMOLITION  
1/4" = 1'-0"



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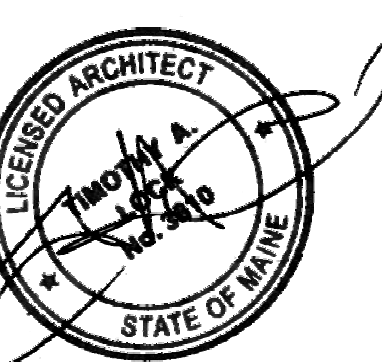
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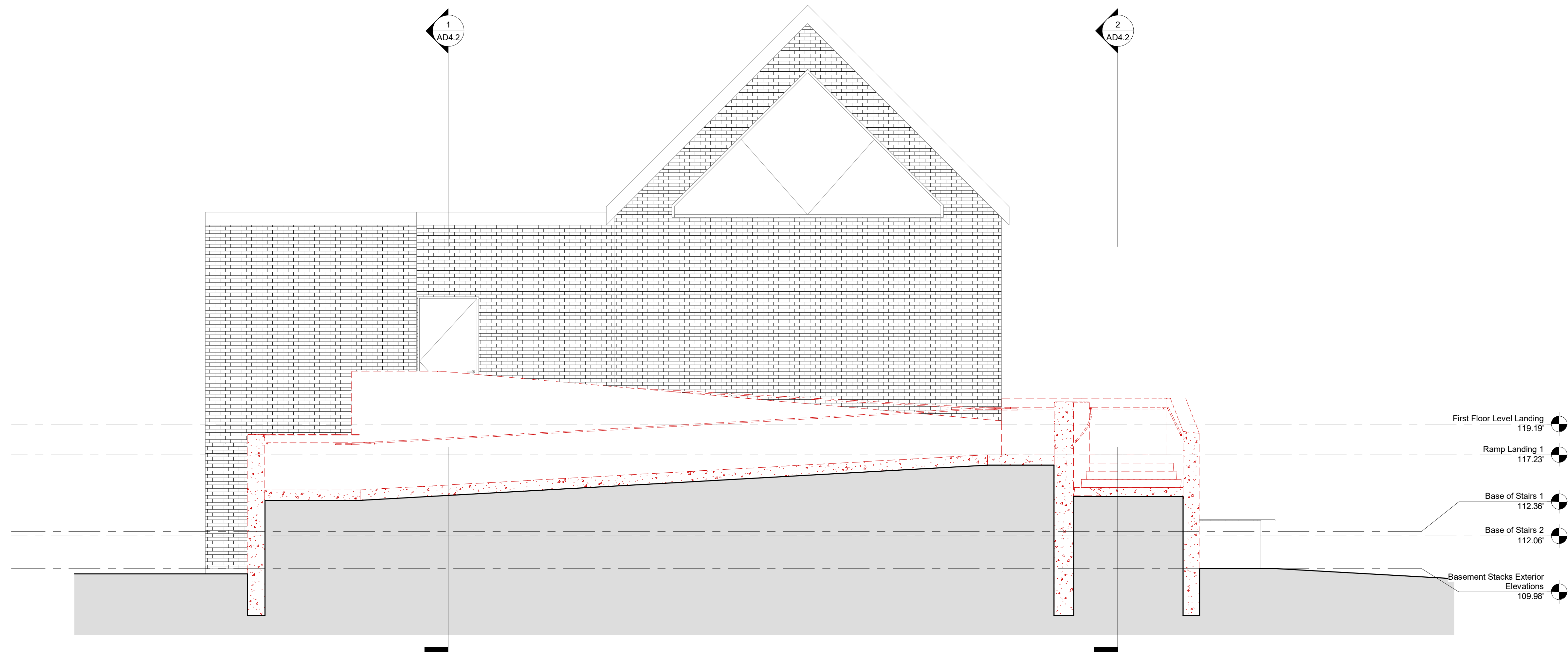
EXISTING/ DEMO  
BUILDING SECTIONS

**AD4.1**

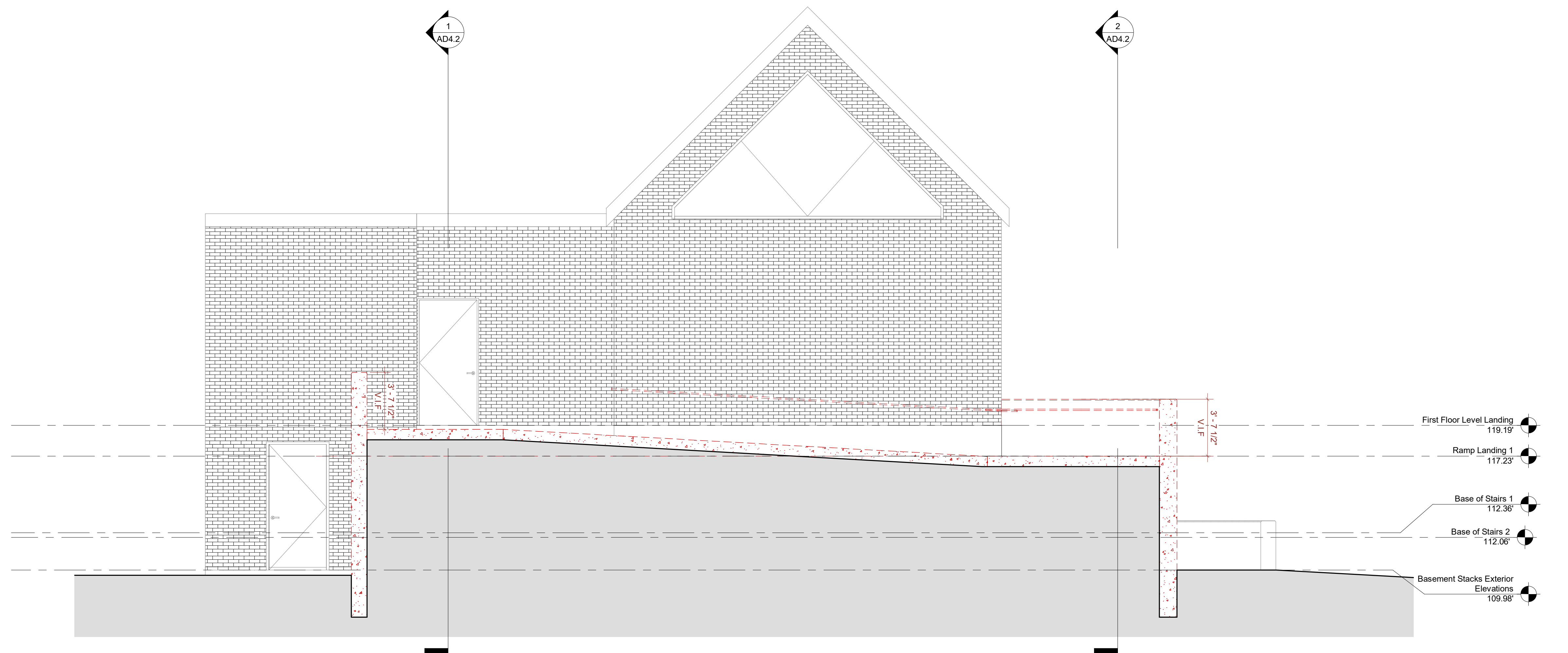
**DEMOLITION DRAWING LEGEND**

--- LINE INDICATES ITEM TO  
BE DEMOLISHED

█ EXISTING TO REMAIN



**2** BUILDING SECTION 2 - DEMOLITION  
1/4" = 1'-0"



**1** BUILDING SECTION 1 - DEMOLITION  
1/4" = 1'-0"

PROJECT NAME

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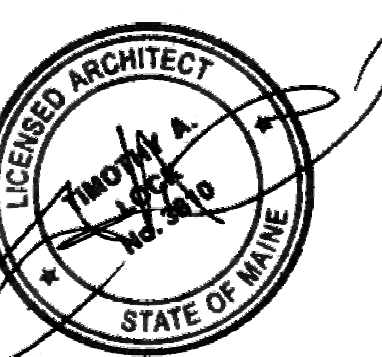
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EXISTING / DEMO  
BUILDING SECTIONS

**AD4.2**

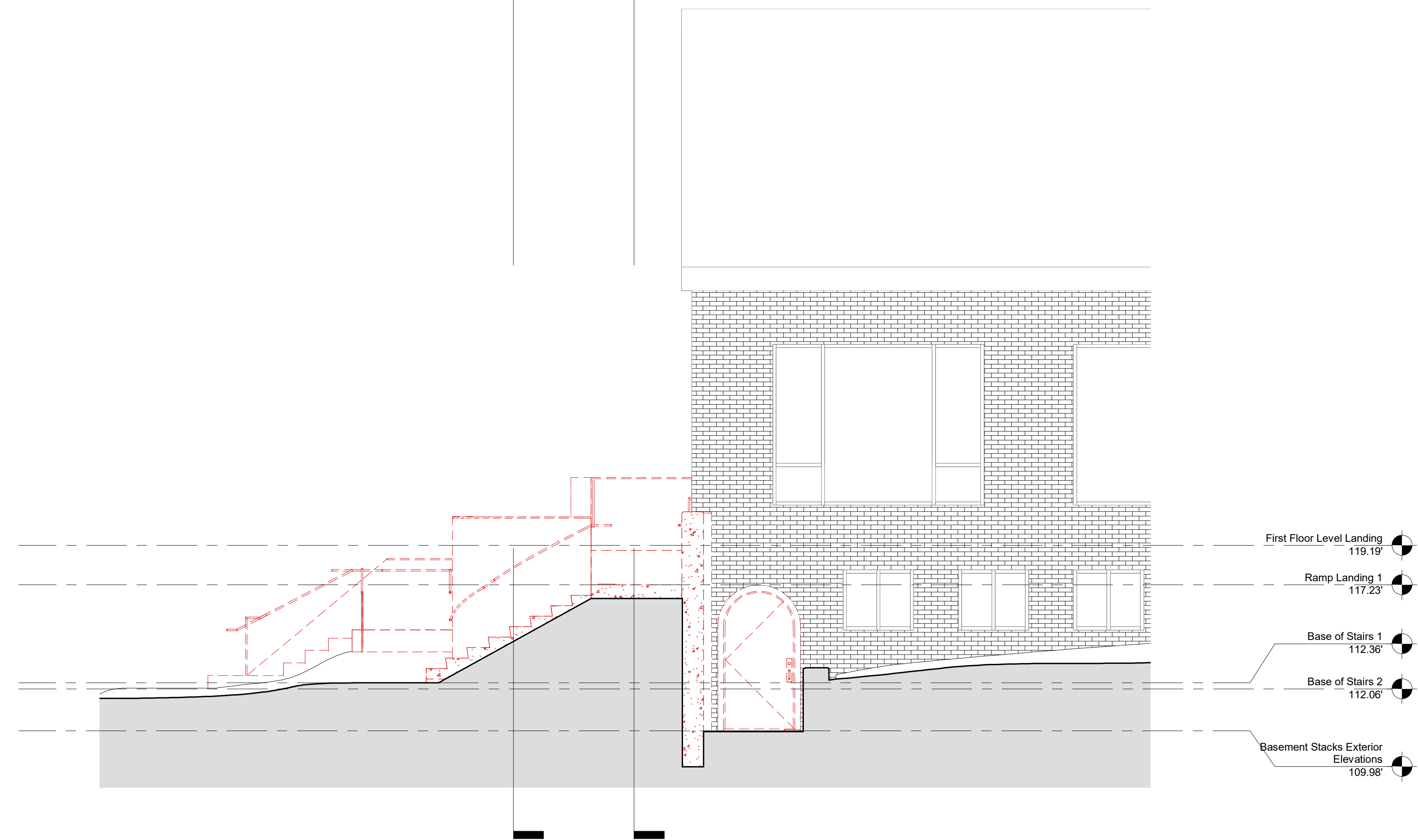
DEMOLITION DRAWING LEGEND

--- LINE INDICATES ITEM TO  
BE DEMOLISHED

█ EXISTING TO REMAIN

2  
AD4.1

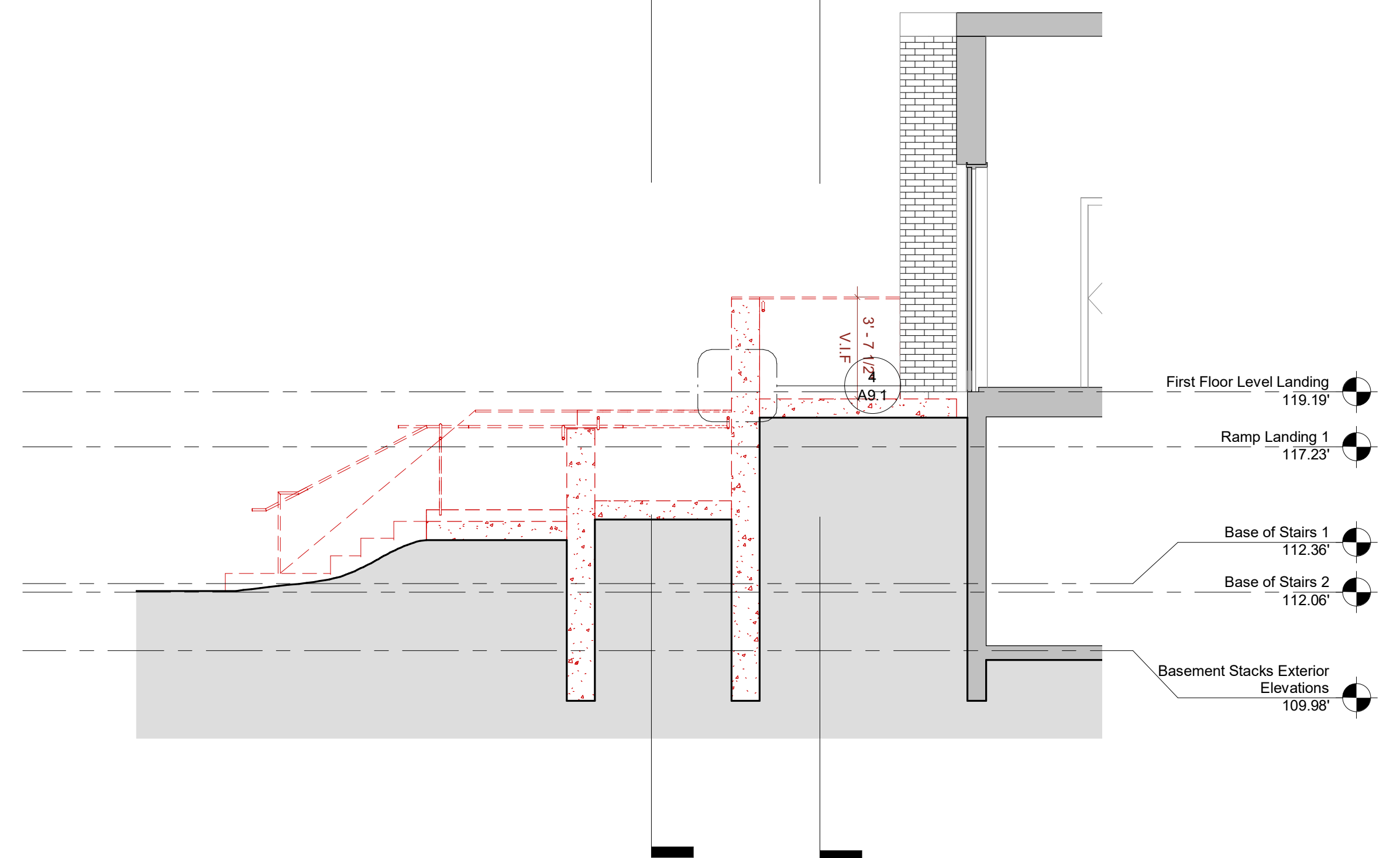
1  
AD4.1



2 BUILDING SECTION 4 - DEMOLITION  
1/4" = 1'-0"

2  
AD4.1

1  
AD4.1



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

**OPAL**  
137 High St.  
Belfast, ME 04915  
t: 207.338.1566

**SEBAGO TECHNICS**  
75 John Roberts Rd., Suite 4A  
South Portland ME 04106  
t: 207 200 2100

**THORNTON TOMASETTI**  
14 York Street, Suite 201  
Portland, ME 04101  
t: 207 245 6060

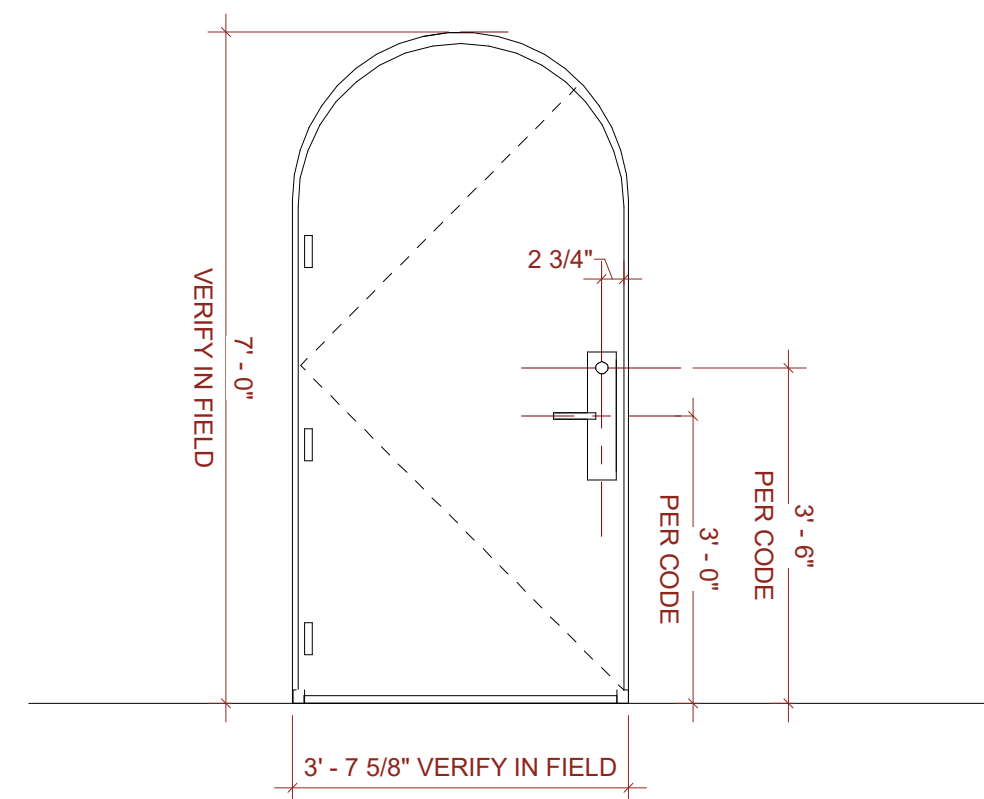
EXTERIOR DOOR SCHEDULE										
MARK	TYPE	DOOR DESCRIPTION	MANUFACTURER	UNIT SIZING (VERIFY IN FIELD)			UNIT INFORMATION			
				WIDTH	HEIGHT	PERFORMANCE VALUES	FINISH		EGRESS	HARDWARE/LOCKSET
							INTERIOR	EXTERIOR		
001.1	OUTSWING SINGLE	CUSTOM BUILT ROUNDTOP POLYURETHANE INSULATED DOOR WITH THERMALLY BROKEN HOLLOW METAL FRAME & EGRESS ADA COMPLIANT THRESHOLD	EXACTITUDE ; OR SIM. APPROVED EQUAL	3' - 7 5/8"	7' - 0"	INSULATED DOOR PANEL; THERMALLY BROKEN HOLLOW METAL FRAME	FACTORY PAINTED; COLOR TBD	FACTORY PAINTED; COLOR TBD	YES	A

DOOR HARDWARE SCHEDULE									
HARDWARE GROUP	HARDWARE DESCRIPTION	MANUFACTURER	HANDLE MODEL	LOCK/LATCH	BACKSET	HARDWARE FINISH	HINGES/TRACK	ACCESSORIES	
A	EXTERIOR EGRESS DOOR	ASSA ABLOY - ADAMS RITE; WATERSON OR SIM. APPROVED EQUAL	ADAMS RITE 3080 ENTRY TRIM WITH AVENTURA SERIES MI LEVER	ADAMS RITE MS1850 SN SERIES 2 3/4" DEADLOCK; ADAMS RITE STANDARD DEADLATCH STRIKE		STAINLESS STEEL - SATIN BRUSHED FINISH	WATERSON K51M SERIES 3 IN 1 CLOSER HINGES IN SATIN BRUSHED FINISH	ADAMS RITE EX89 PULLMAN RIM EXIT DEVISE (PUSH BAR); PROVIDE STAINLESS STEEL KICK PLATE; PEMKO BARRIER FREE THERMAL BARRIER THRESHOLD	

**GENERAL NOTES - EXTERIOR DOOR & HARDWARE SCHEDULE**

1. ALL DIMENSIONS TO BE FIELD VERIFIED.
2. SUBSTITUTIONS MUST BE SUBMITTED TO ARCHITECT FOR REVIEW.

**DOOR LEGEND**



FINISH SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MODEL	FINISH/COLOR
C1	CAST-IN PLACE CONCRETE	N/A	N/A	
ST1	STAINLESS STEEL	N/A	N/A	BRUSHED FINISH
STU1	ACRYLIC BASED STUCCO	STO OR SIMILAR	STOLIT 1.0	FINE FINISH; COLOR TBD

**GENERAL NOTES - FINISH SCHEDULE**

1. ALL SUBSTITUTIONS MUST BE SUBMITTED FOR REVIEW BY ARCHITECT - SEE SPECIFICATIONS.
2. CONTRACTOR TO PROVIDE SAMPLE OR CUT SHEETS OF ALL FINISHES FOR APPROVAL BY ARCHITECT PRIOR TO PURCHASE.

PROJECT NAME

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PROJECT ADDRESS

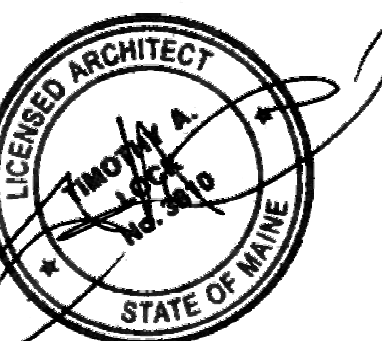
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DOOR SCHEDULES

**A0.1**



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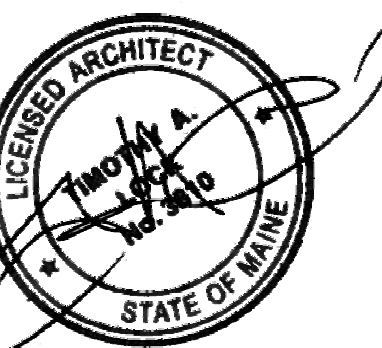
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SHEET NO. AND NAME:

FLOOR PLANS

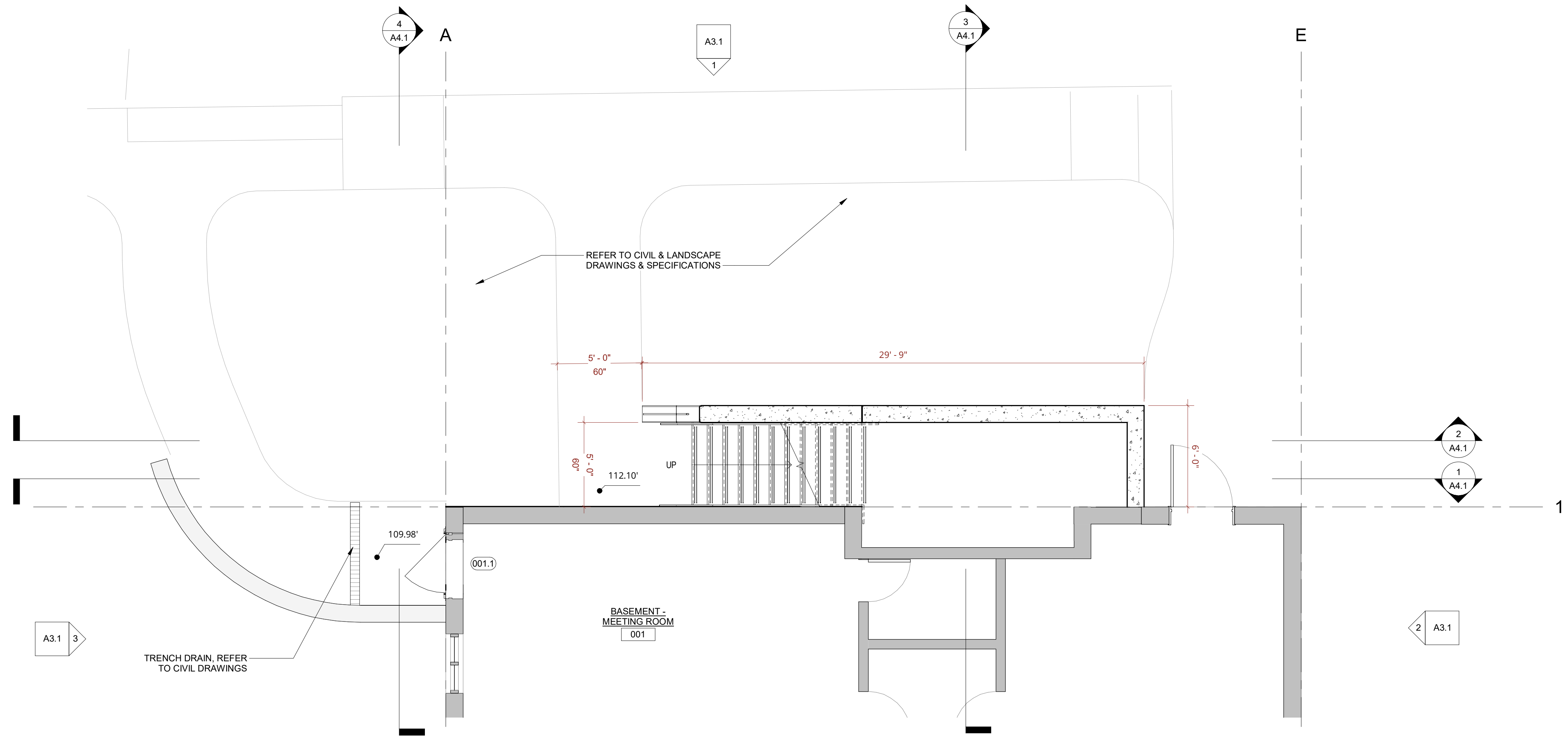
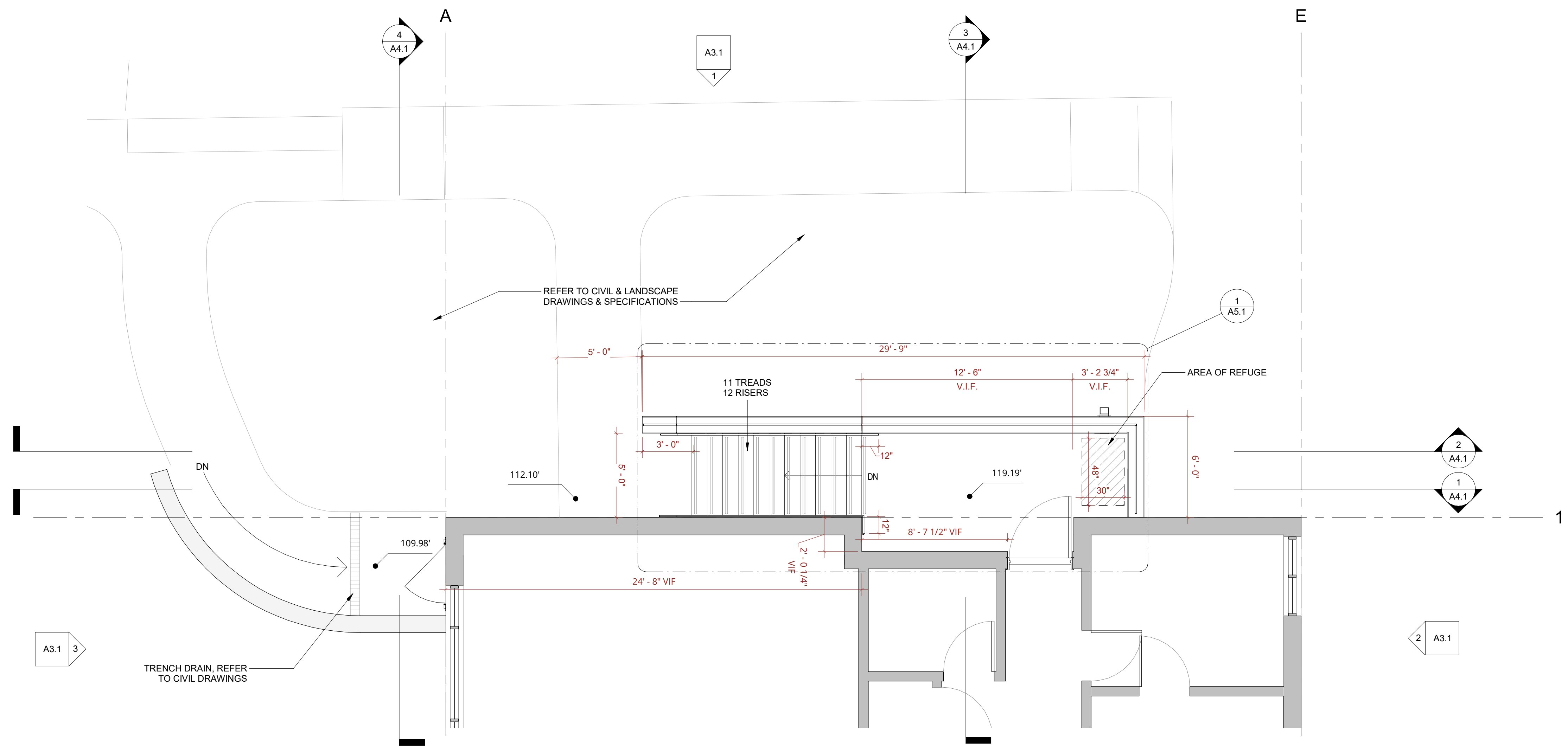
**A2.1**

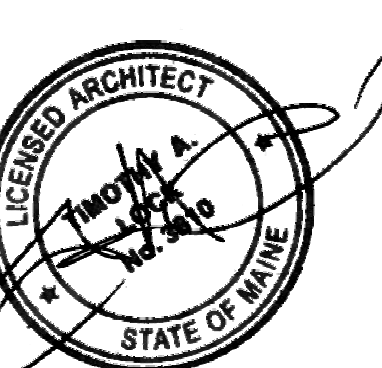


**PLAN LEGEND**  
EXISTING WALL TO REMAIN

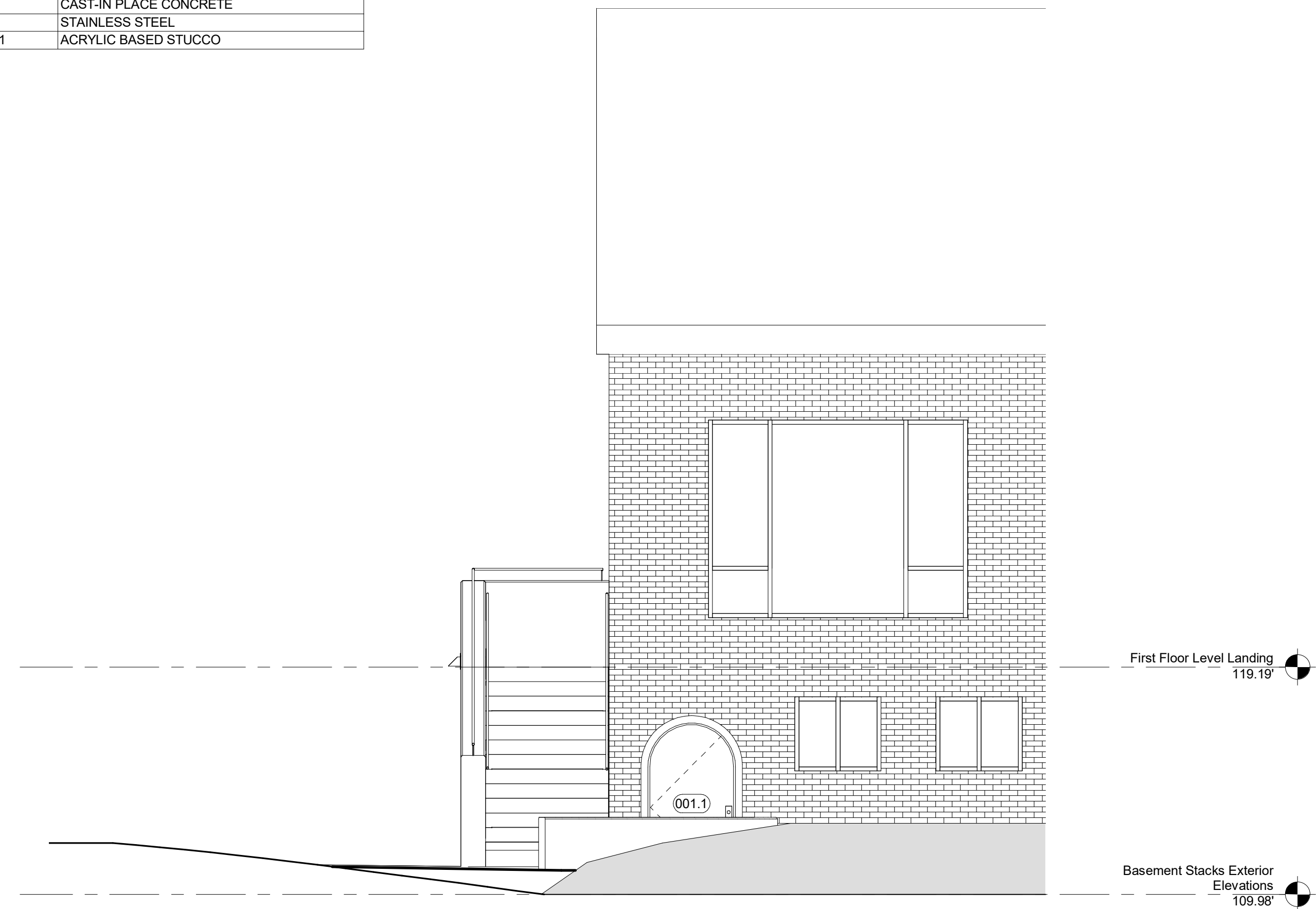
**2** LEVEL 1 FLOOR PLAN  
1/4" = 1'-0"

**1** BASEMENT STACKS LEVEL  
1/4" = 1'-0"

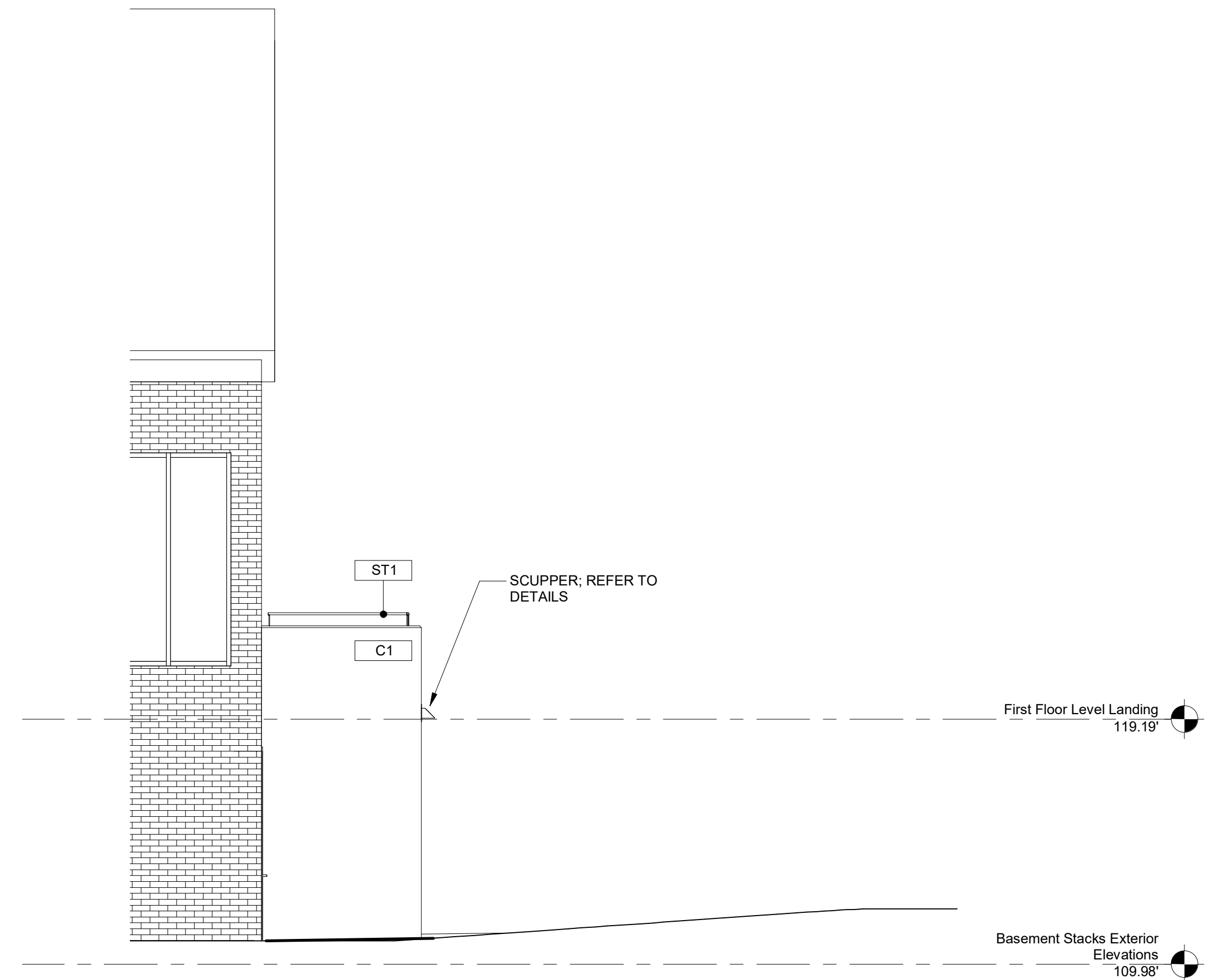




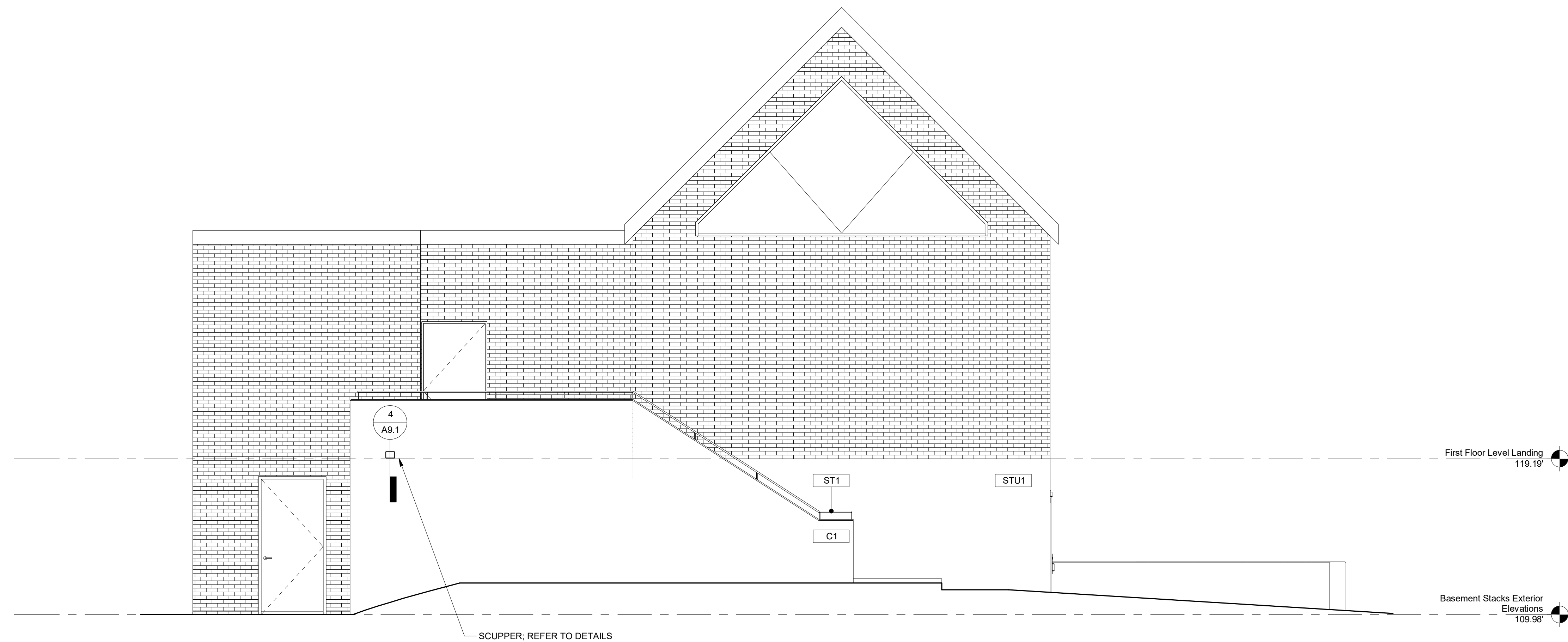
EXTERIOR FINISH SCHEDULE	
MATERIAL TYPE	MATERIAL DESCRIPTION
C1	CAST-IN PLACE CONCRETE
ST1	STAINLESS STEEL
STU1	ACRYLIC BASED STUCCO



**3** WEST ELEVATION  
1/4" = 1'-0"



**2** EAST ELEVATION  
1/4" = 1'-0"



**1** NORTH ELEVATION  
1/4" = 1'-0"

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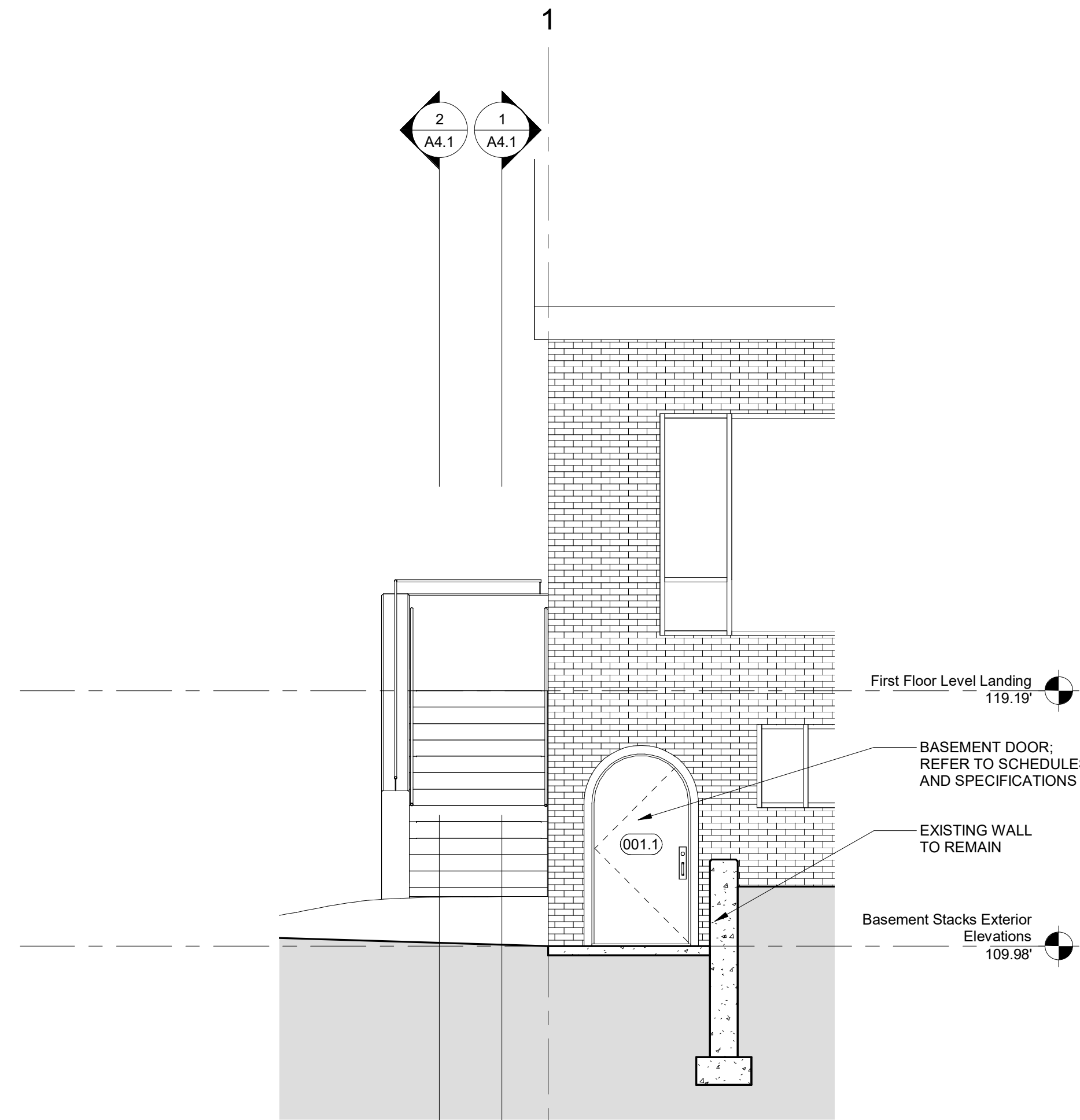
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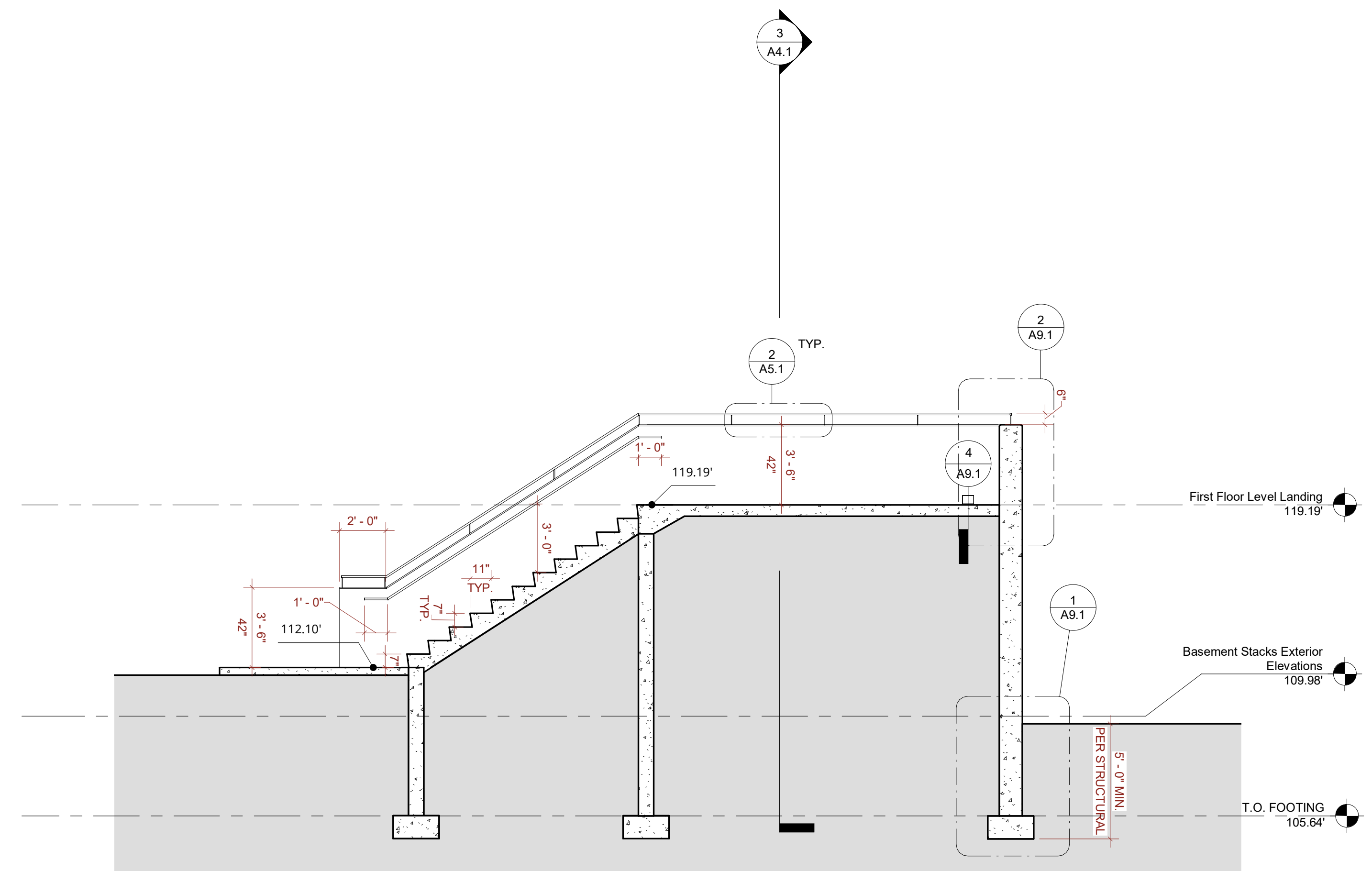
SHEET NO. AND NAME:

BUILDING SECTIONS

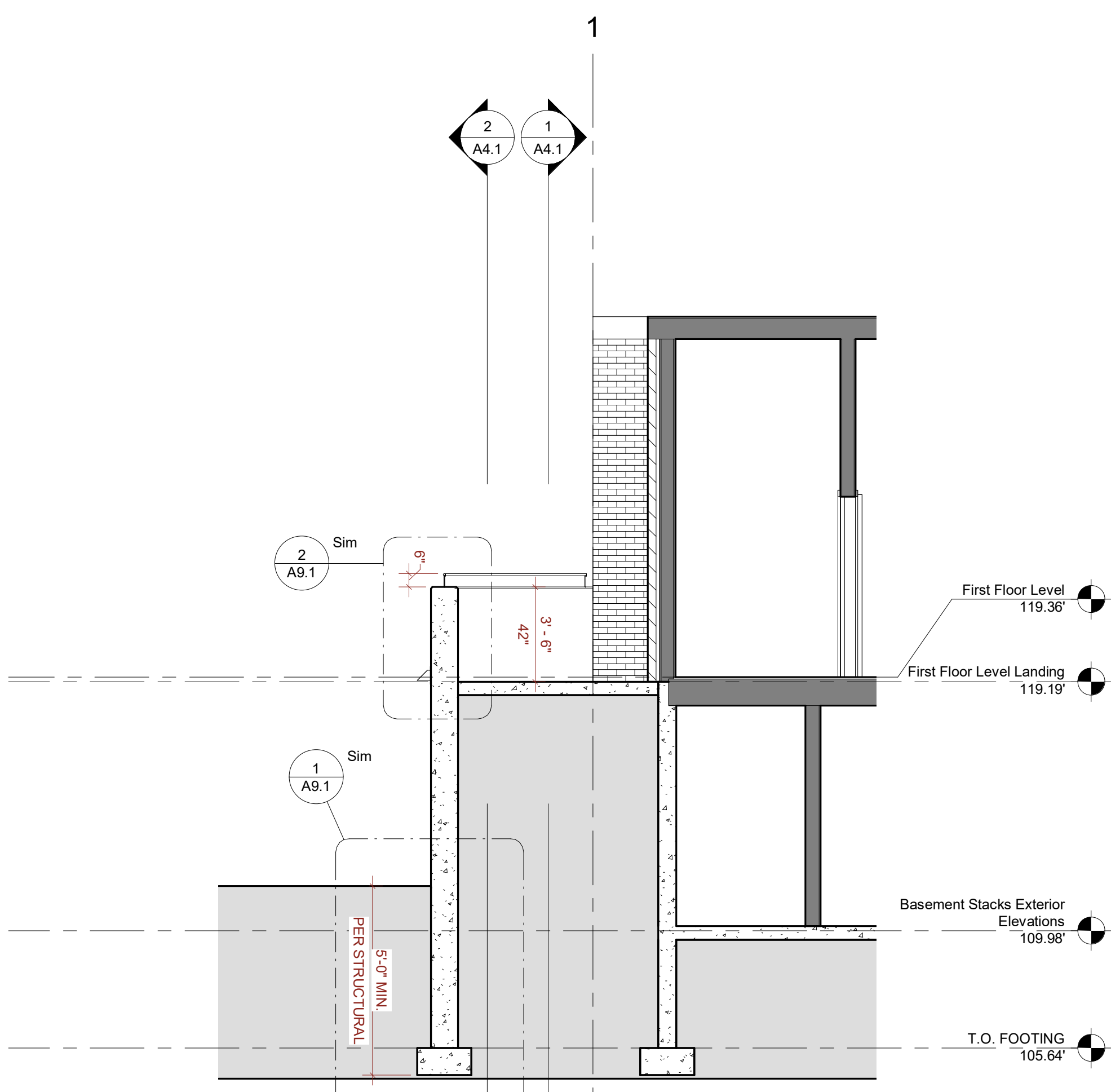
**A4.1**



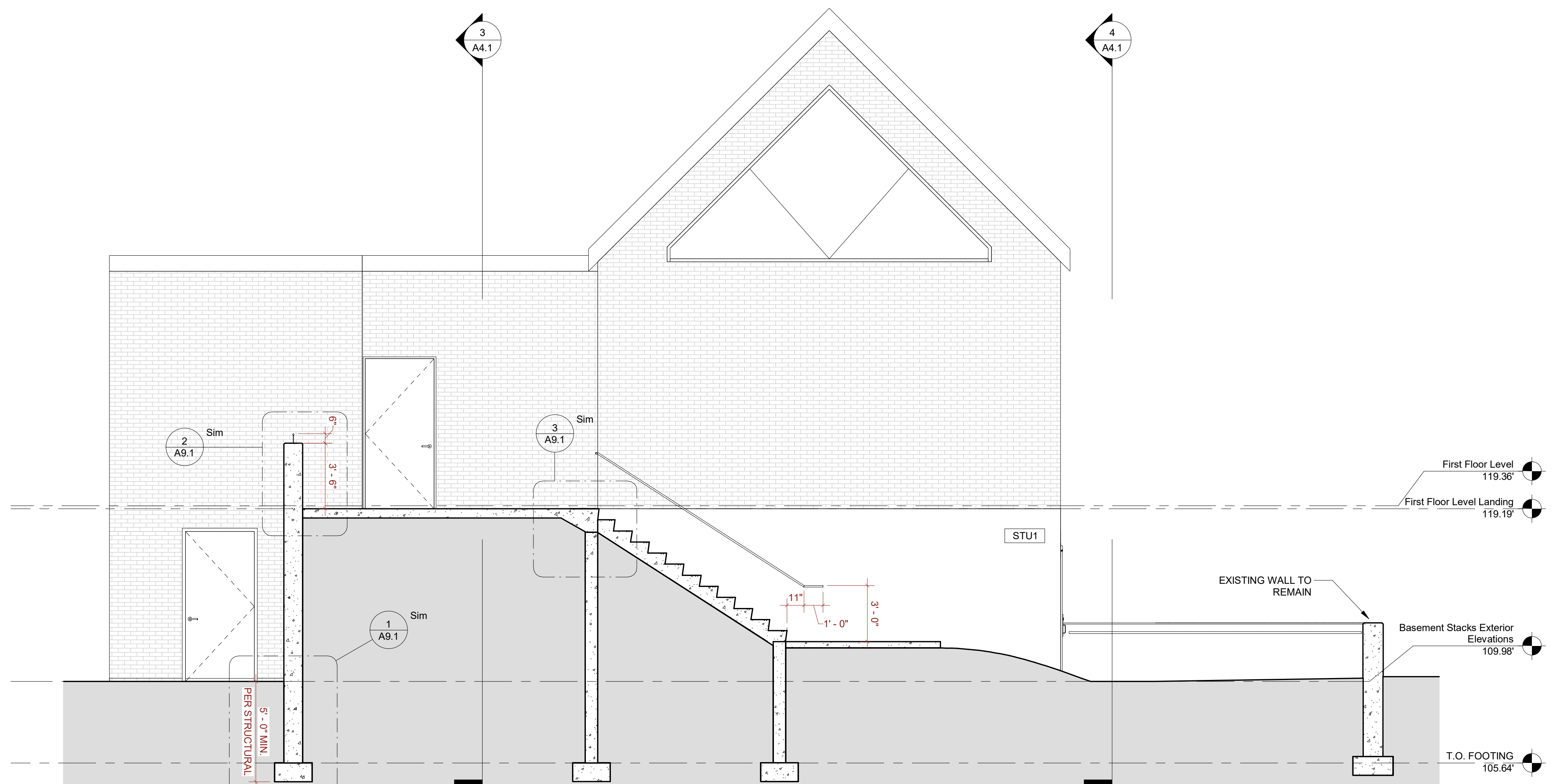
4 BUILDING SECTION 4  
1/4" = 1'-0"



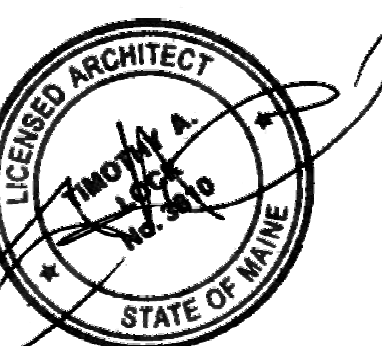
2 BUILDING SECTION 2  
1/4" = 1'-0"

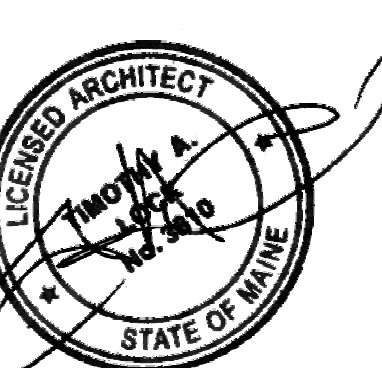


3 BUILDING SECTION 3  
1/4" = 1'-0"

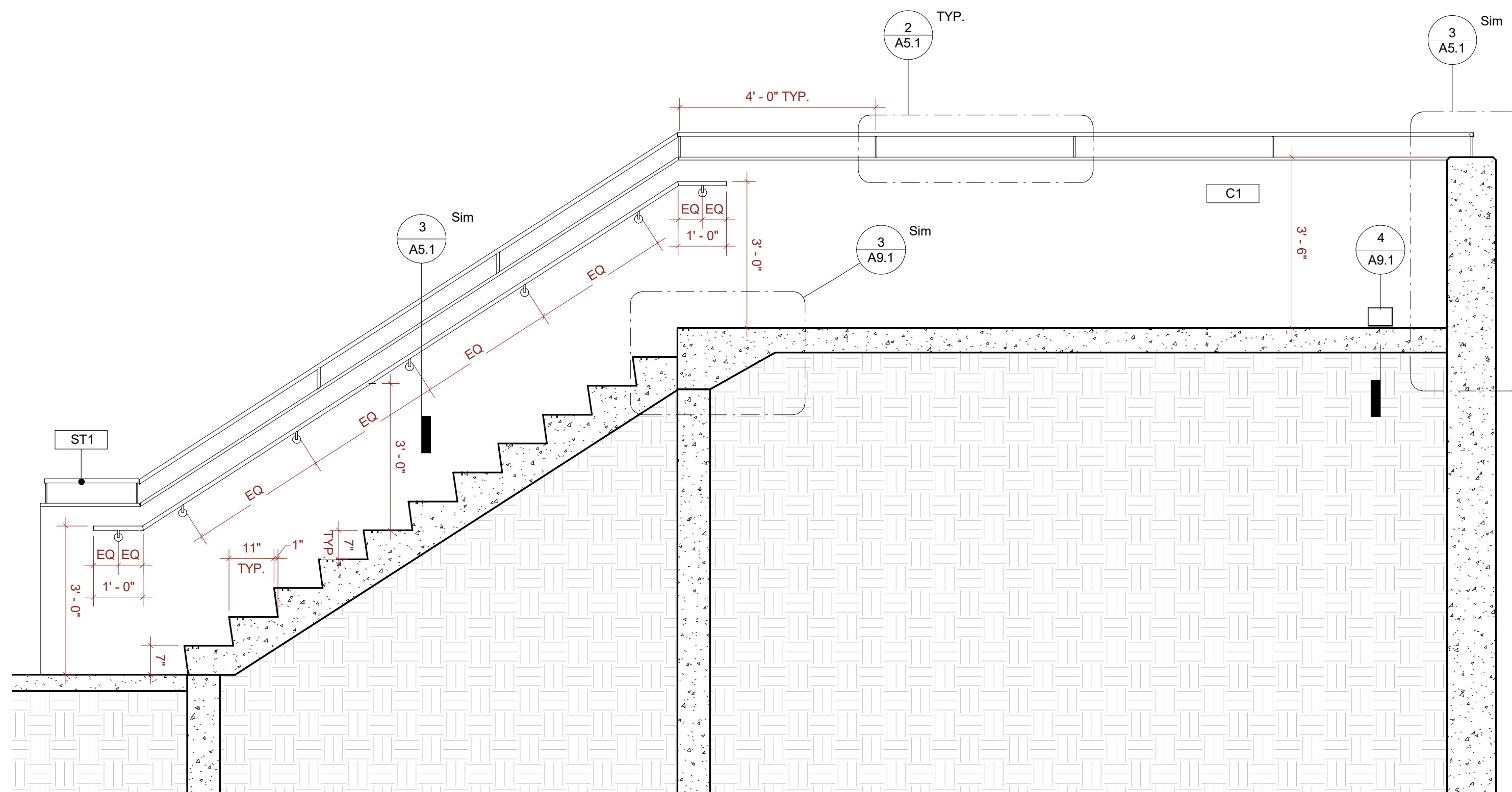


1 BUILDING SECTION 1  
1/4" = 1'-0"

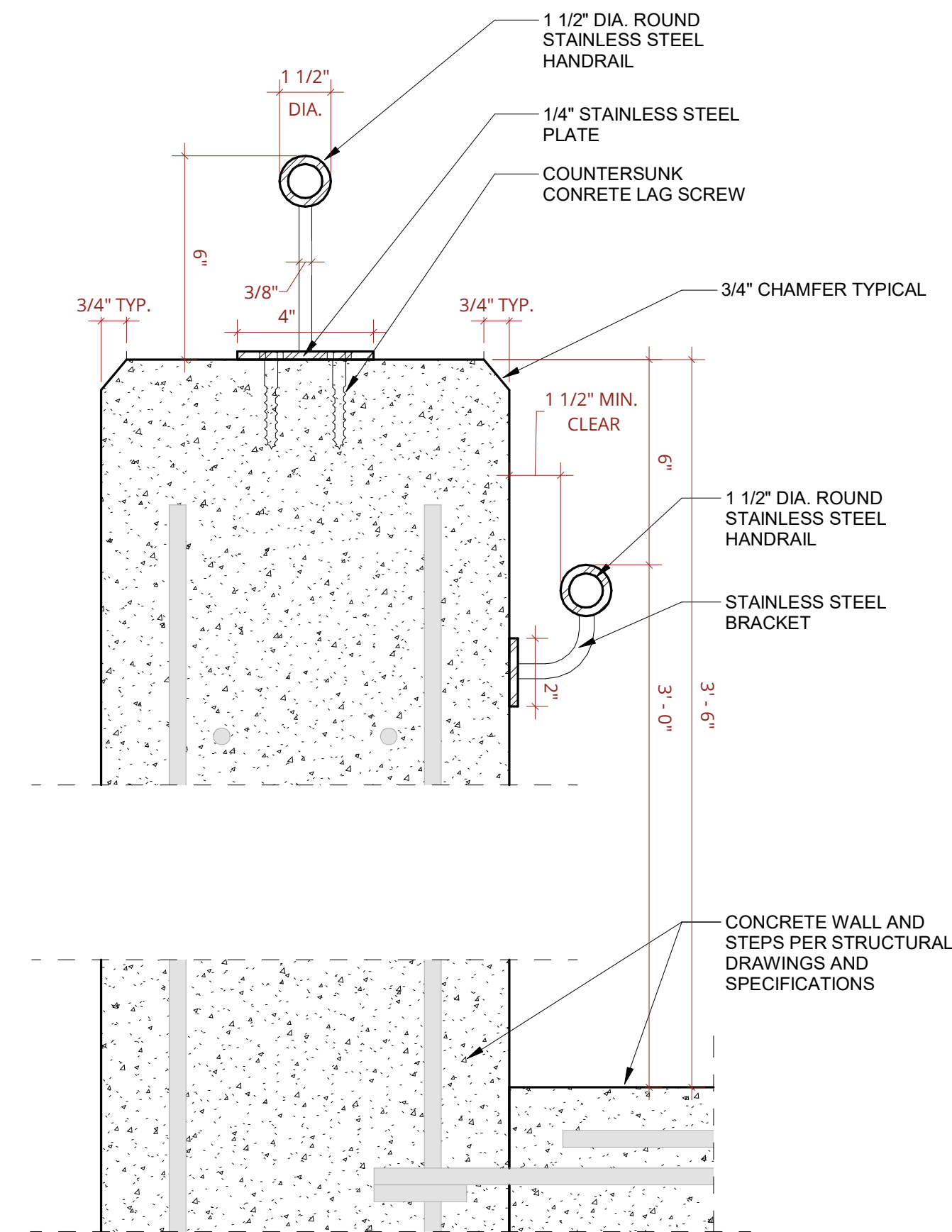




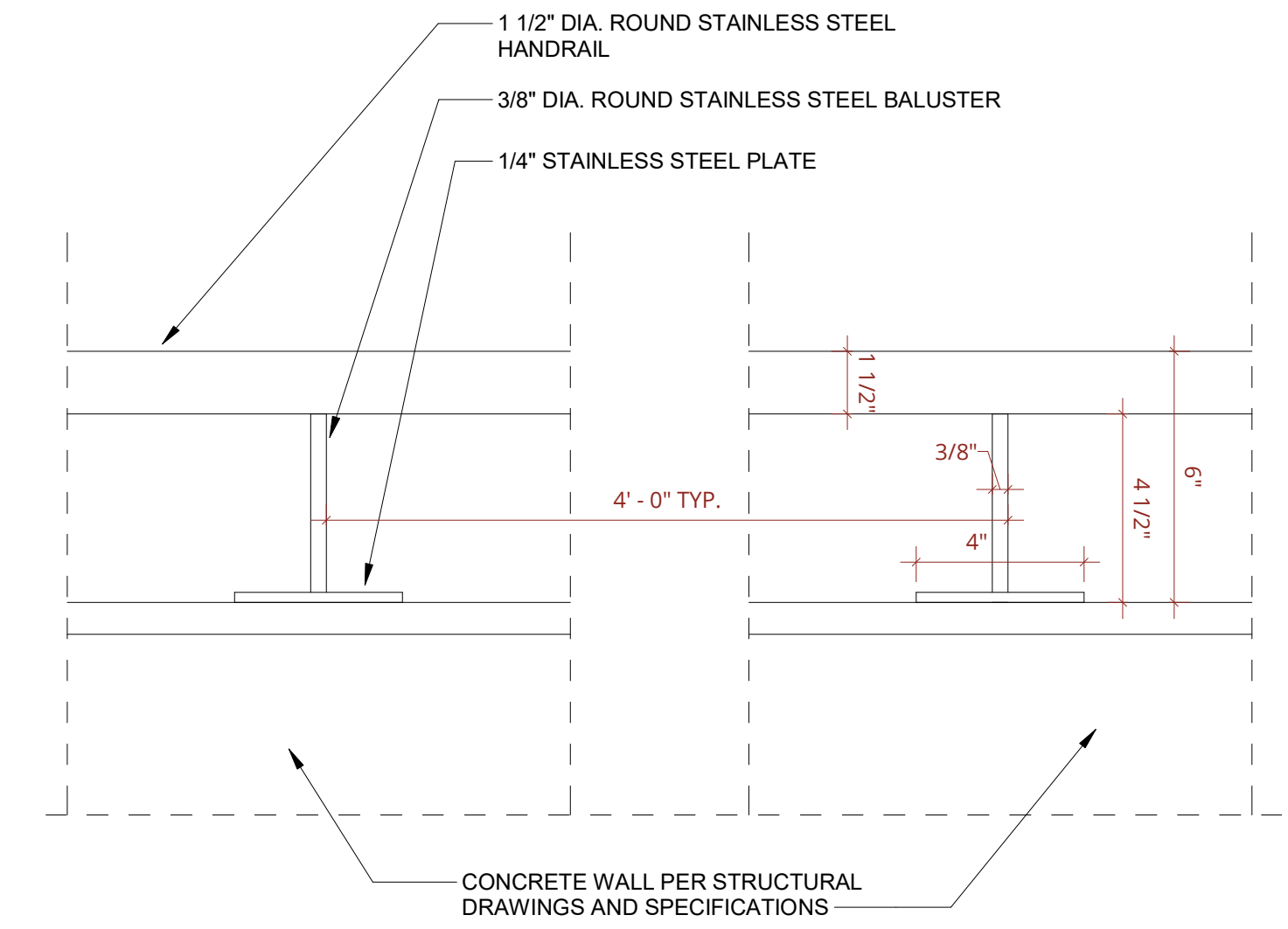
EXTERIOR FINISH SCHEDULE	
MATERIAL TYPE	MATERIAL DESCRIPTION
C1	CAST-IN PLACE CONCRETE
ST1	STAINLESS STEEL
STU1	ACRYLIC BASED STUCCO



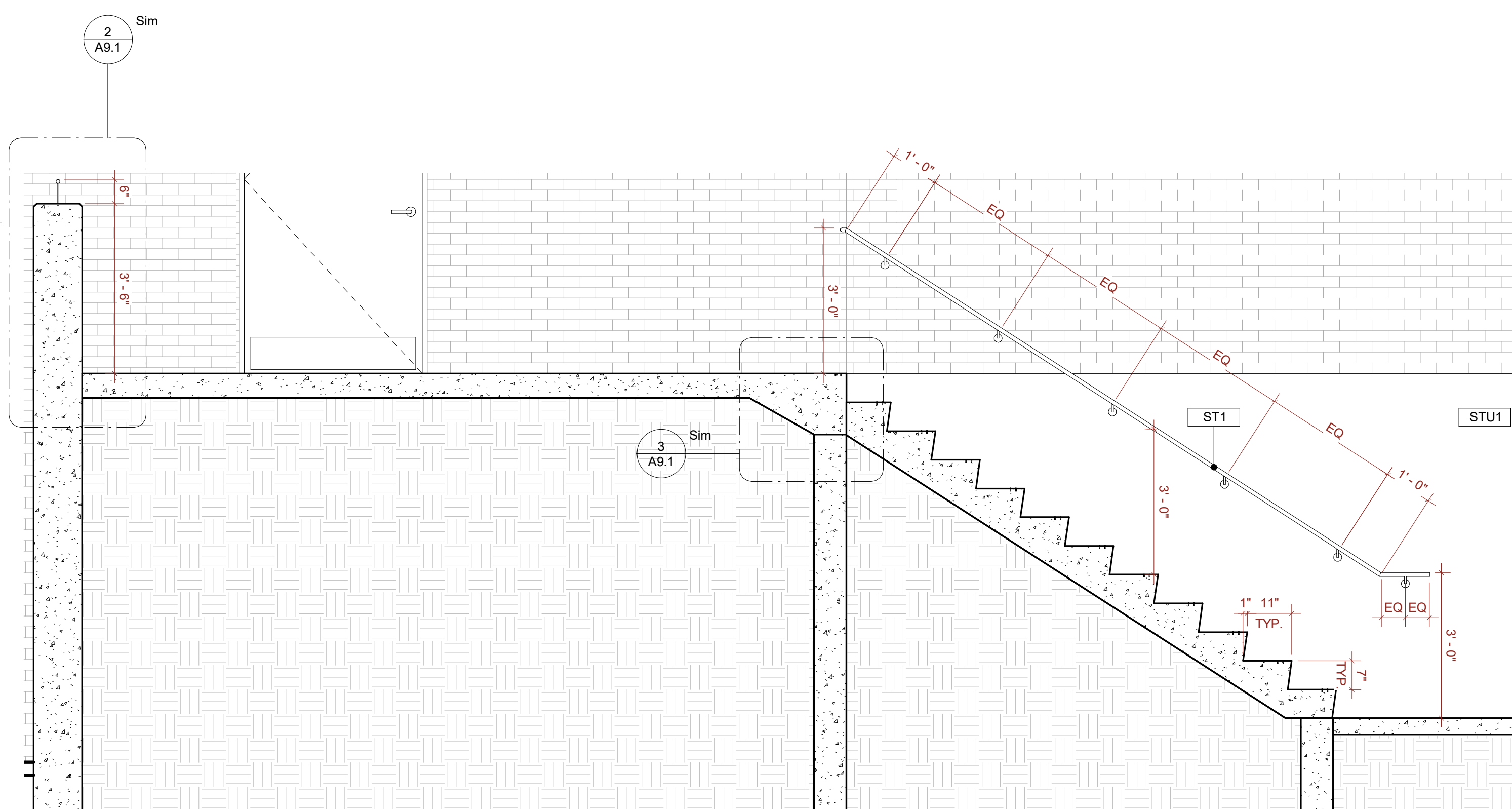
5 STAIR SECTION LOOKING NORTH  
1/2" = 1'-0"



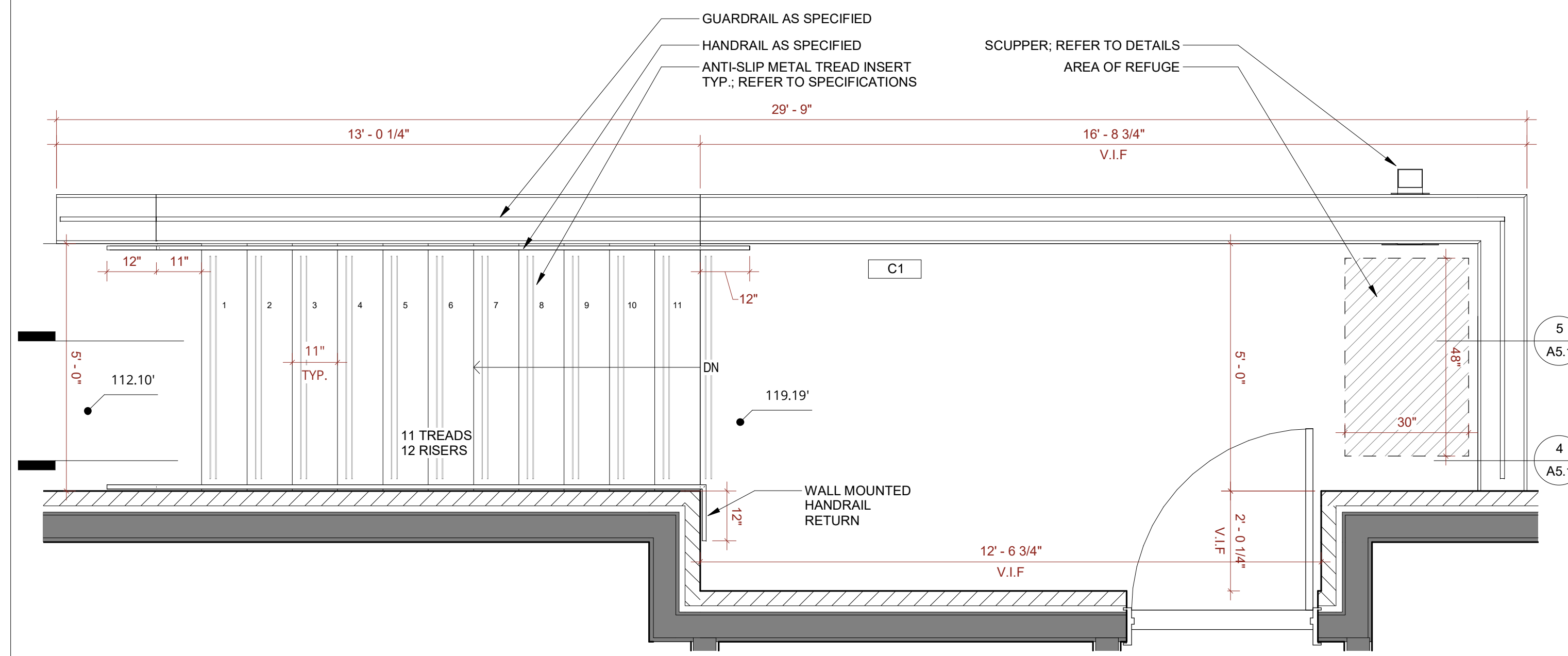
3 RAILING DETAIL CROSS SECTION  
3" = 1'-0"



2 RAILING DETAIL ELEVATION  
3" = 1'-0"



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



1 ENLARGED PLAN - STAIR  
1/2" = 1'-0"

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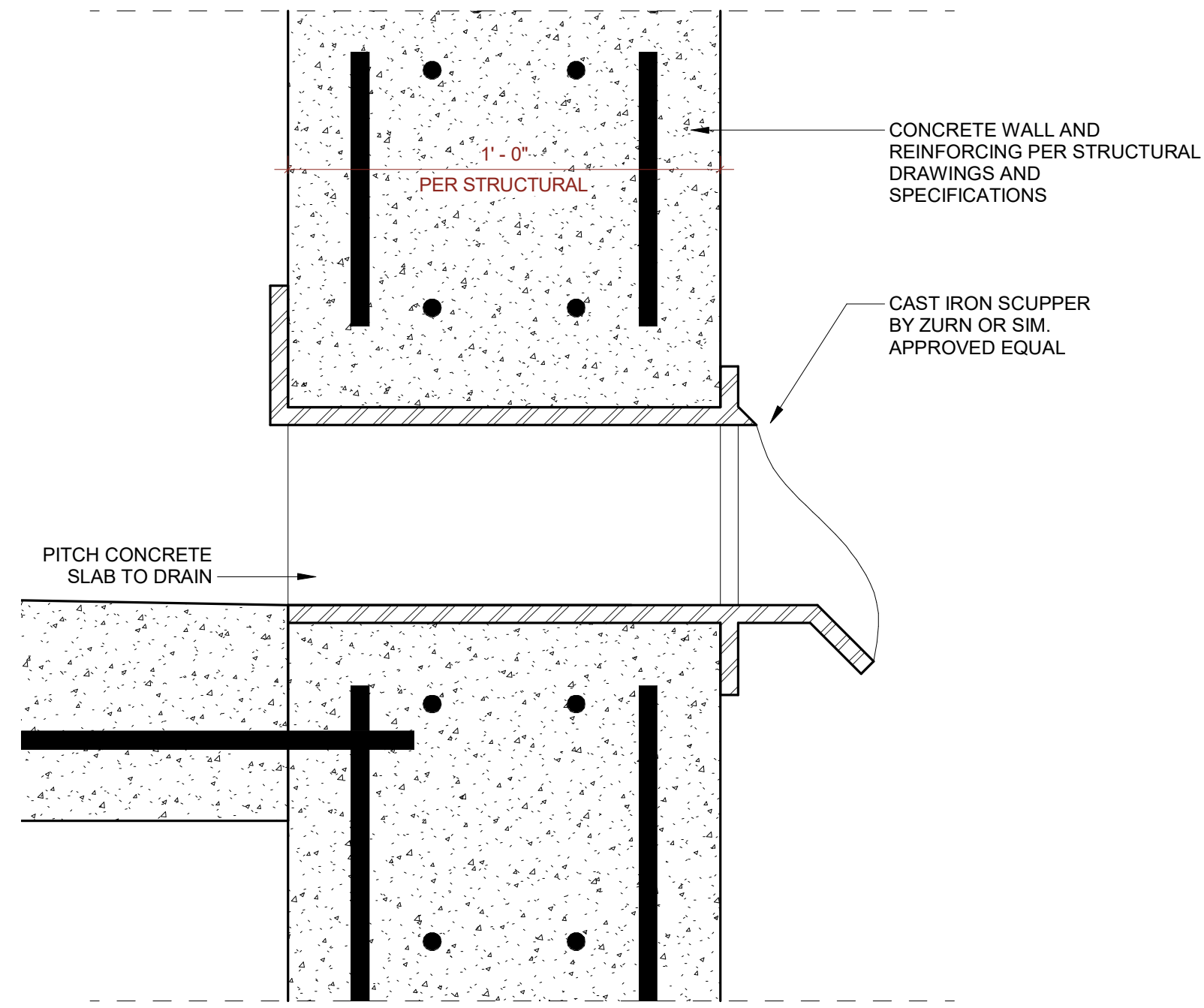
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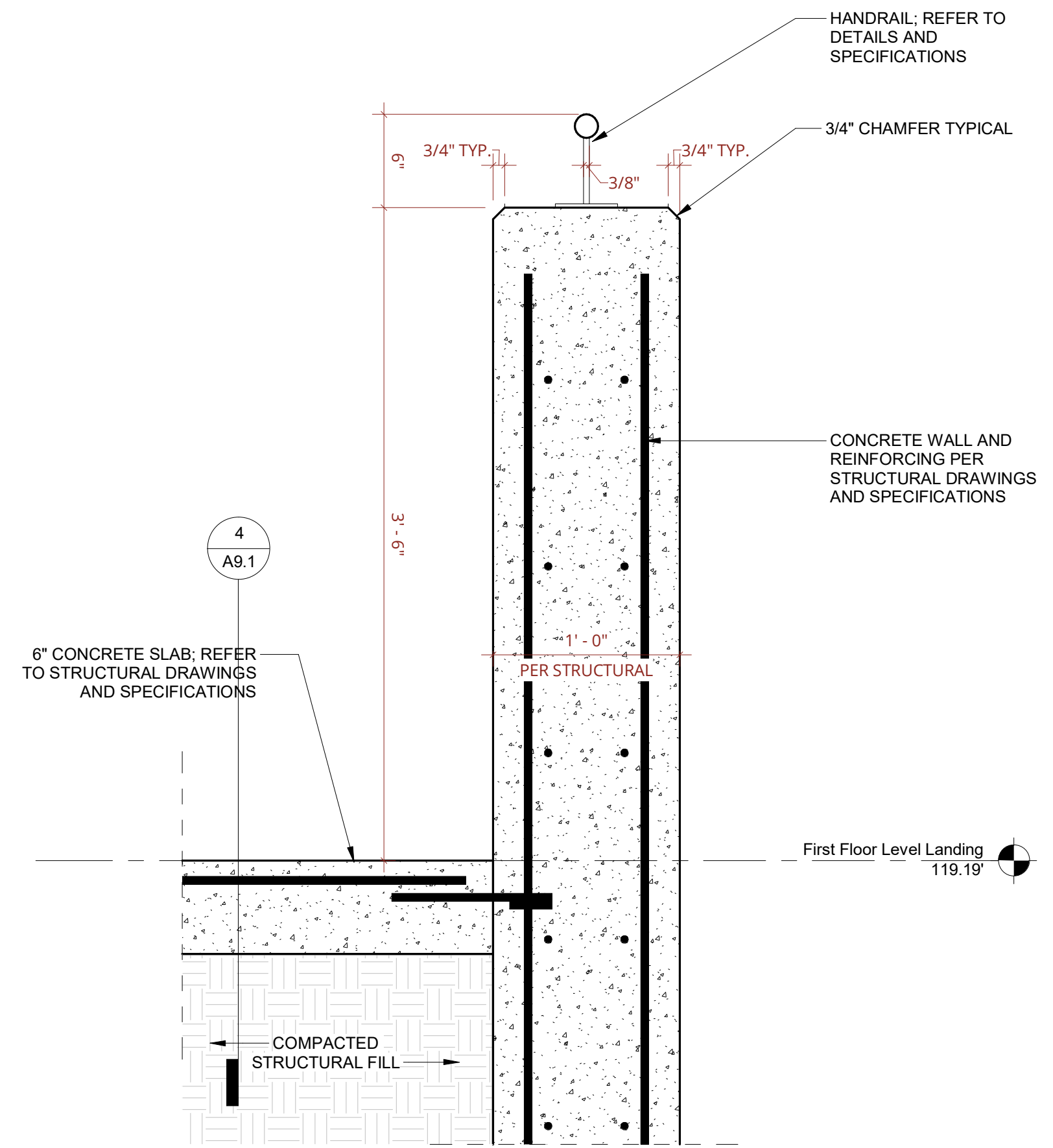
SHEET NO. AND NAME:

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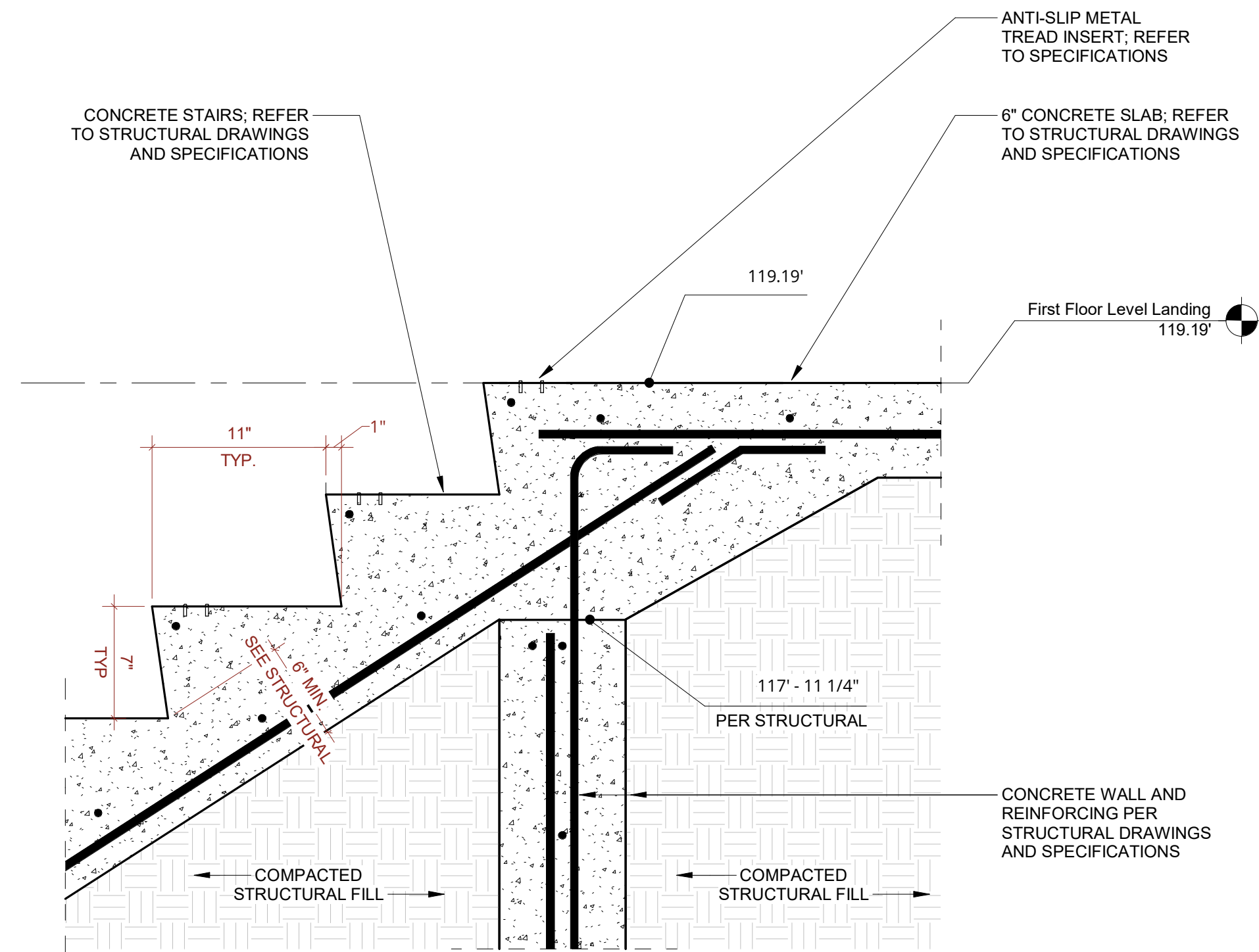
**A9.1**



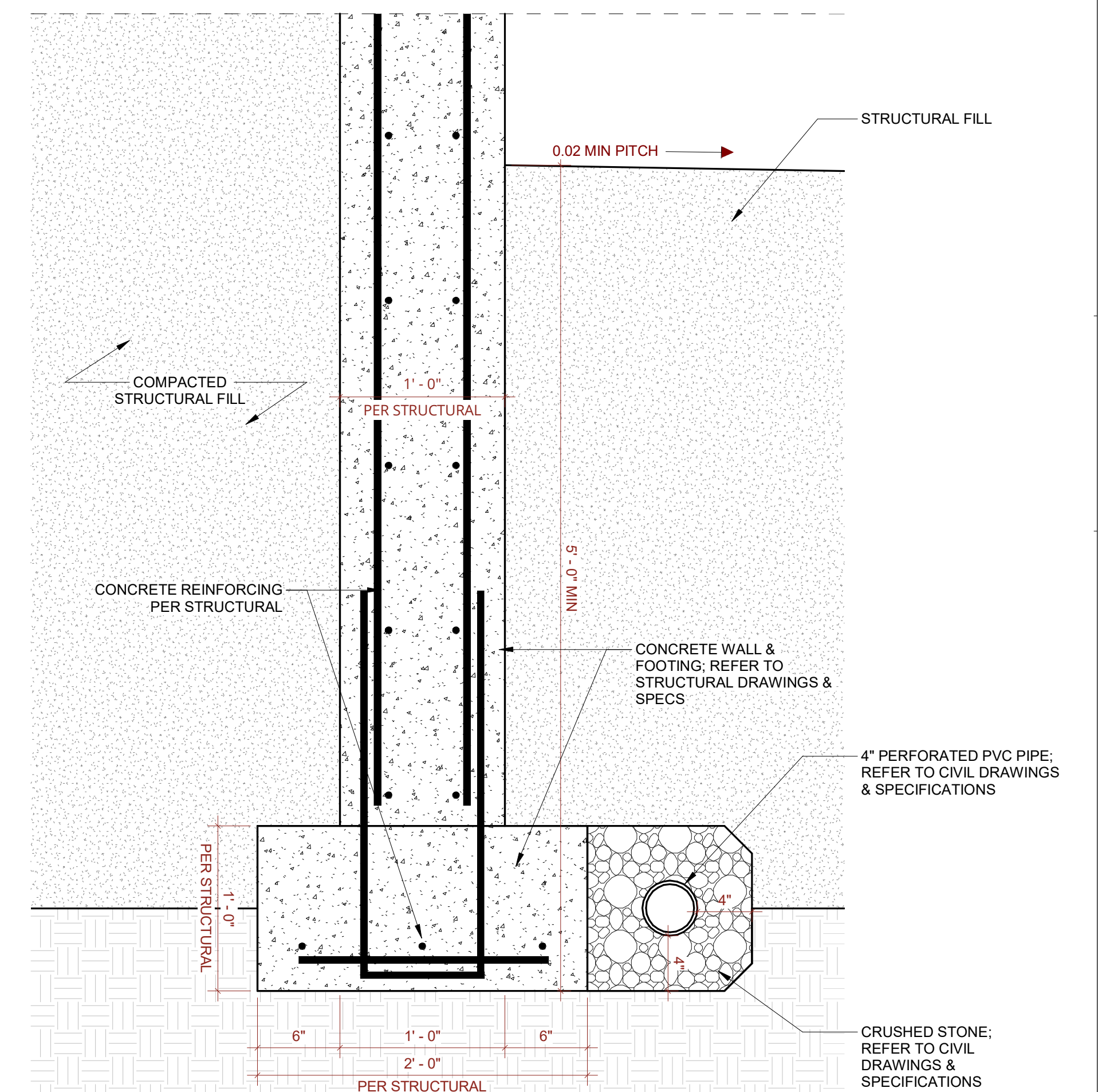
**4** SCUPPER DETAIL  
3" = 1'-0"



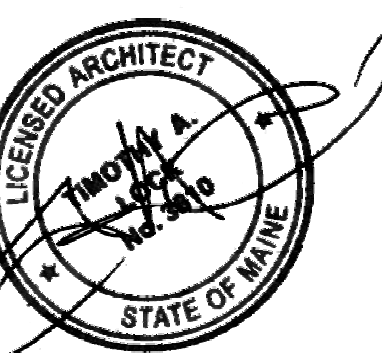
**2** LANDING WALL  
1 1/2" = 1'-0"



**3** SLAB EDGE DETAIL  
1 1/2" = 1'-0"



**1** TYPICAL FOUNDATION  
1 1/2" = 1'-0"



**FOUNDATION NOTES (SOIL SUPPORTED)**

- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY EXISTING SOIL CONDITIONS AND TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING PLACEMENT OF FOUNDATIONS.
- PRESUMPTIVE BEARING CAPACITY 3,000 PSF
- EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 5'-0" FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- REMOVE INADEQUATE LEDGE, DEBRIS, CLAY, AND ORGANIC MATERIAL FOR FOOTING BEARING.
- COMPACTED STRUCTURAL FILL SHALL BE USED TO BACKFILL TO THE DESIGN FOOTING SUBGRADE AND BENEATH ALL SLABS ON GRADE. STRUCTURAL FILL SHALL BE A CLEAN SAND-GRAVEL MIXTURE MEETING THE FOLLOWING GRADATION:

SCREEN OR SIEVE SIZE	PERCENT PASSING
6 INCH	100
3 INCH	90-100
1/4 INCH	25-90
NO. 40	0-30
NO. 200	0-5

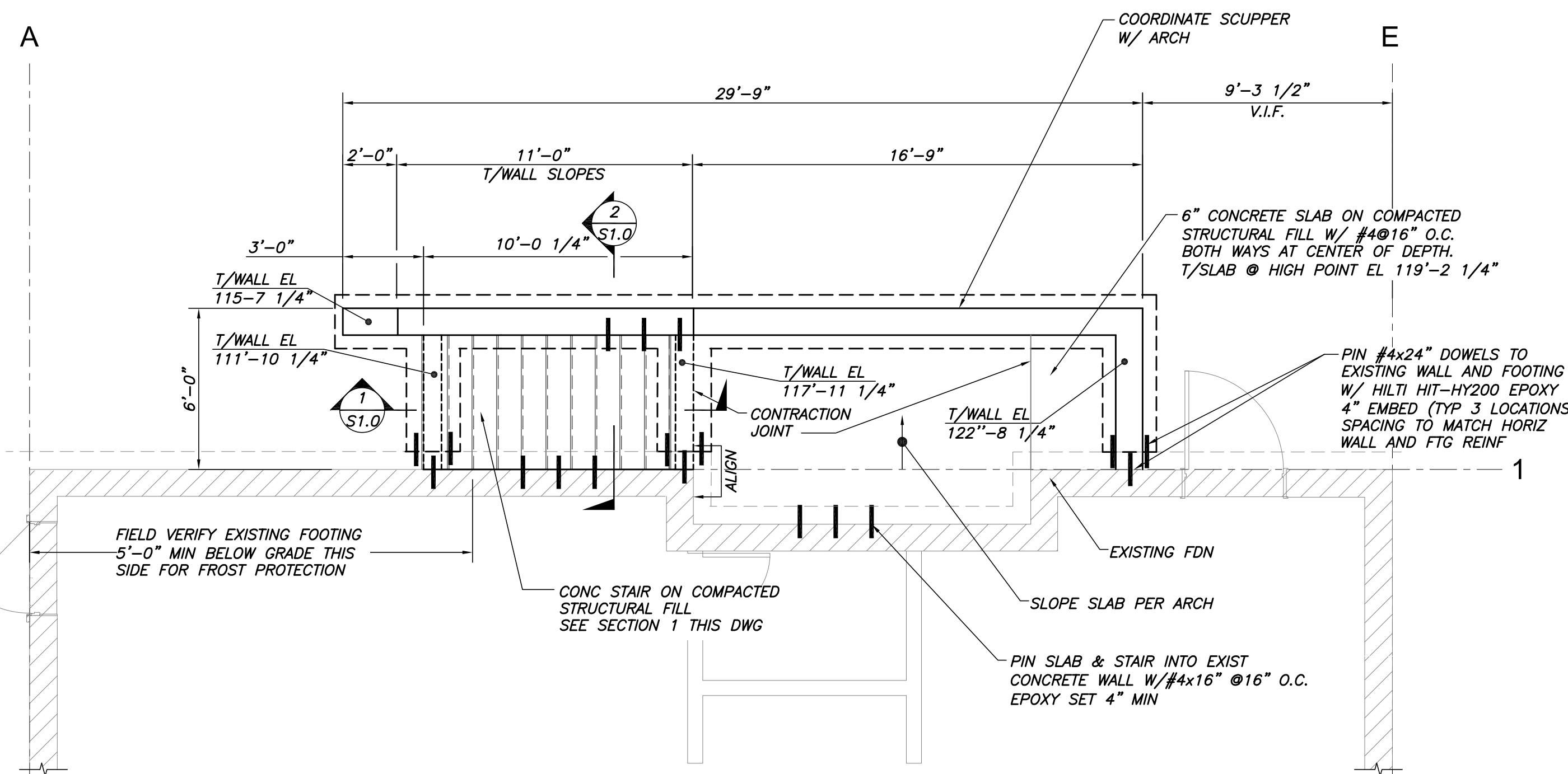
- STRUCTURAL FILL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557, MODIFIED PROCTOR TEST. COMPACT ADJACENT TO FOUNDATION WALLS SUPPORTING UNBALANCED FILL (RETAINING WALLS) TO 94 TO 96 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557. HAND OPERATED EQUIPMENT SHALL BE USED FOR COMPACTION WITHIN 8 FEET OF NEW FOUNDATION WALL.
- PROVIDE PVC DRAINPIPE AROUND THE PERIMETER OF THE STRUCTURE. LOCATE AT THE BOTTOM OF THE FOUNDATION WALLS AND PROVIDE POSITIVE GRAVITY FLOW TO PROPERLY DESIGNED OUTLET. REFER TO SITE DRAWINGS FOR ADDITIONAL INFORMATION.
- BACKFILL RETAINING WALLS AFTER CONCRETE HAS PROPERLY CURED AND ATTAINED DESIGN STRENGTH.
- SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHALL BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.

**REBAR LAP SPLICE TABLE**

BAR SIZE	LAP LENGTH	
	3,500 PSI	5,000 PSI
#4	24"	30"
#5	28"	34"

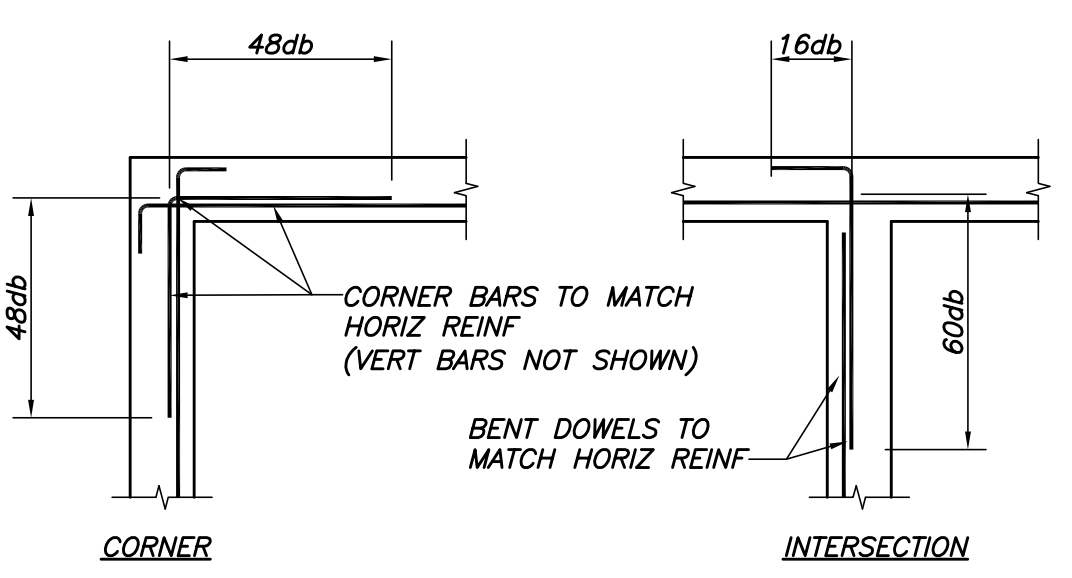
**CONCRETE NOTES**

- CONCRETE WORK SHALL CONFORM TO THE ACI "MANUAL OF CONCRETE PRACTICE," INCLUDING, BUT NOT LIMITED TO, ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
- CONCRETE SHALL BE READY-MIXED CONCRETE, PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN ACI 318.
- CONCRETE MIX DESIGN:
  - FOOTINGS:
    - A. STRENGTH: 3,500 PSI @ 28 DAYS
    - B. AGGREGATE: 3/4"
    - C. W/C RATIO: 0.55 MAX
    - D. ENTRAINED AIR: 6% ± 1 1/2%
    - E. SLUMP: 4" MAX
  - EXTERIOR SLAB AND FOUNDATION WALLS:
    - A. STRENGTH: 5,000 PSI @ 28 DAYS
    - B. AGGREGATE: 3/4"
    - C. W/C RATIO: 0.40 MAX
    - D. ENTRAINED AIR: 6% ± 1 1/2%
    - E. SLUMP: 4" MAX
- NOTES:
  - A. ADD AIR ENTRAINING ADMIXTURE AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING THE ABOVE NOTED AIR CONTENT.
  - B. ADDITIONAL SLUMP MAY BE ACHIEVED BY THE ADDITION OF A MIDRANGE OR HIGH RANGE WATER REDUCING ADMIXTURE. MAXIMUM SLUMP AFTER ADDITION OF ADMIXTURE SHALL BE 6" AND 8" RESPECTIVELY.
- ADJUSTMENT TO CONCRETE MIXES: MIX ADJUSTMENTS MAY BE REQUESTED BY THE CONTRACTOR, WHEN CHARACTERISTICS OF THE MATERIALS, JOB CONDITIONS, WEATHER OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO THE OWNER AS ACCEPTED BY THE ENGINEER. LABORATORY TEST DATA FOR THE REVISED MIX DESIGN AND STRENGTH DATA MUST BE SUBMITTED AND ACCEPTED BY THE ENGINEER BEFORE INCORPORATING INTO THE WORK.
  - NOTES:
    - A. WATER MAY BE ADDED AT THE PROJECT ONLY IF THE MAXIMUM SPECIFIED WATER-CEMENT RATIO AND SLUMP ARE NOT EXCEEDED. CONTRACTOR SHALL HAVE BATCH TICKET INDICATING WATER AND CEMENT MIXED IN THE PLANT, AND SHALL RECORD THE WATER ADDED AS EVIDENCE THAT THE WATER-CEMENT RATIO HAS NOT BEEN EXCEEDED.
    - B. ADDITIONAL DOSES OF SUPER PLASTICIZER SHOULD BE USED WHEN DELAYS OCCUR AND REQUIRED SLUMP HAS NOT BEEN MAINTAINED. A MAXIMUM OF TWO ADDITIONAL DOSAGES ARE PERMITTED PER ACI 212.3R RECOMMENDATIONS.
- CONCRETE MIXING:
  - A. JOB-SITE MIXING OF CONCRETE WILL NOT BE PERMITTED.
  - B. READY-MIX CONCRETE MUST COMPLY WITH THE REQUIREMENTS OF ASTM C94, AND AS SPECIFIED HEREIN. PROVIDE BATCH TICKET FOR EACH BATCH DISCHARGED AND USED IN WORK, INDICATING PROJECT NAME, MIX TYPE, MIX TIME, BATCH QUANTITY, AND PROPORTIONS OF INGREDIENTS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 315.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
  - A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3"
  - B. FORMED SURFACES IN CONTACT WITH EARTH OF EXPOSED TO WEATHER:
    - #5 BARS AND SMALLER, 1 1/2"
    - #6 THROUGH #11 BARS, 2"
  - C. SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:
    - WALLS, SLABS, AND JOISTS #11 AND SMALLER, 1"
    - BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1 1/2"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. SEE SCHEDULE FOR REQUIRED REBAR LAP SPLICE LENGTHS.
- WELDING OF REINFORCEMENT IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED.
- PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH WALLS. ADJACENT SLEEVES SHALL BE SPACED A MINIMUM OF THREE DIAMETERS APART. OPTION: CORED HOLES. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.

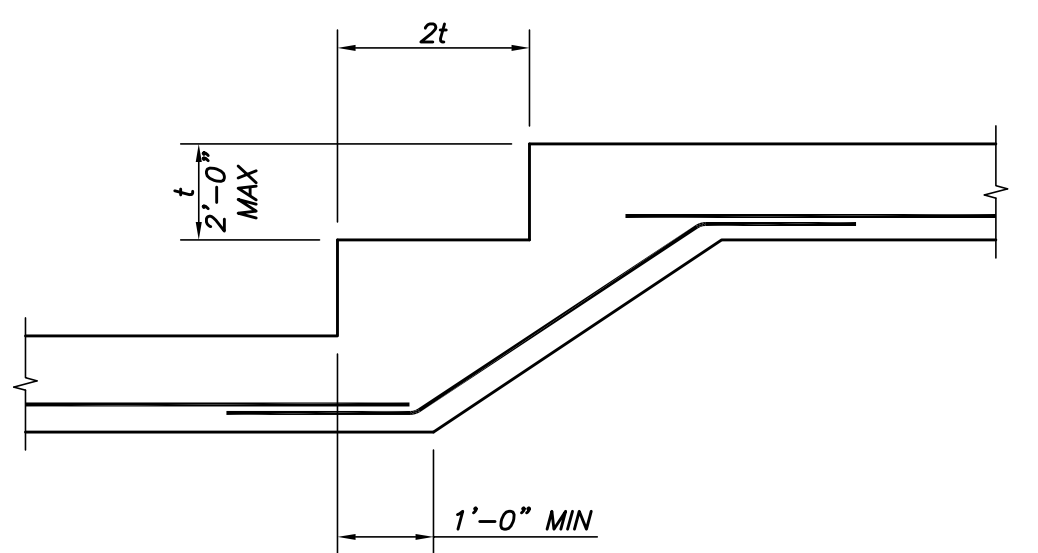


**SITE RETAINING WALL PLAN**

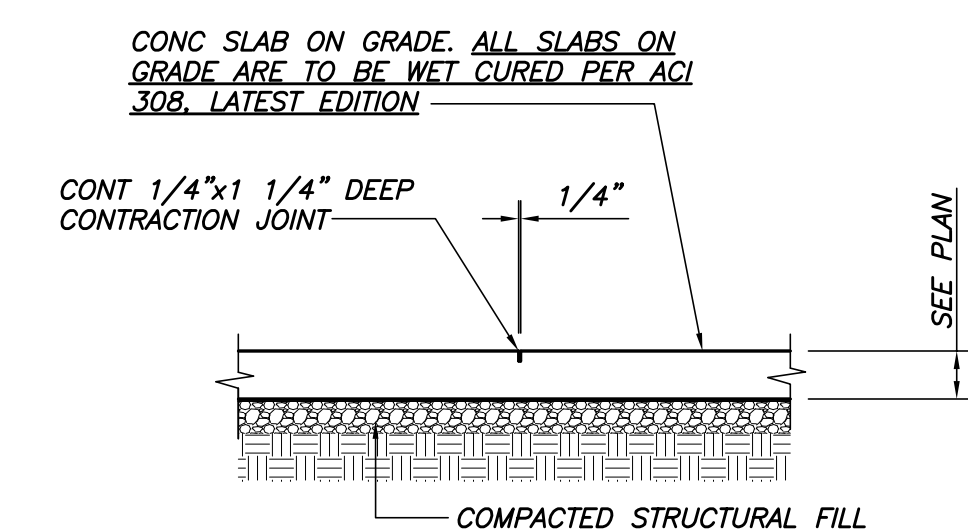
- 1/4"=1'-0"
- NOTES:
- ELEVATIONS REFERENCE CIVIL DATUM.
  - BOTTOM OF NEW FOOTINGS TO BE 5'-0" MIN BELOW FINAL GRADE FOR FROST PROTECTION.
  - DO NOT UNDERMINE EXISTING FOUNDATION. STEP FOOTING AS REQUIRED TO ALIGN W/ BOTTOM OF EXISTING FOOTING.
  - PROVIDE DRAINAGE SYSTEM OUTLETS AND DISCHARGE LOCATIONS (COORDINATE W/CIVIL).
  - REF ARCH FOR STAIR RISER GEOMETRY.
  - ARCHITECTURALLY EXPOSED CONCRETE WALLS. PROVIDE PLASTIC CONE AT FORM TIES AND PATCH VOIDS.



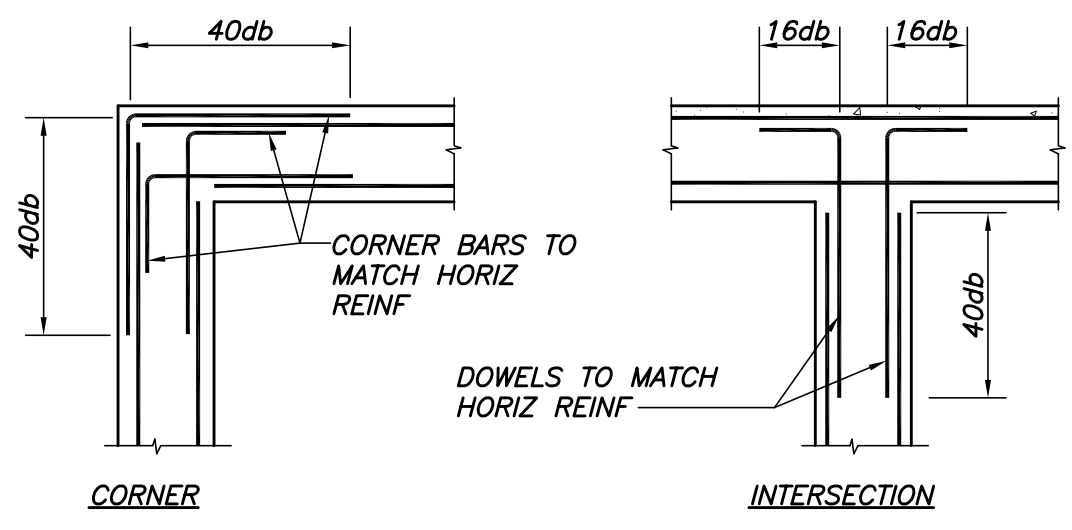
**SINGLE LAYER TYP WALL REINF DETAILS**



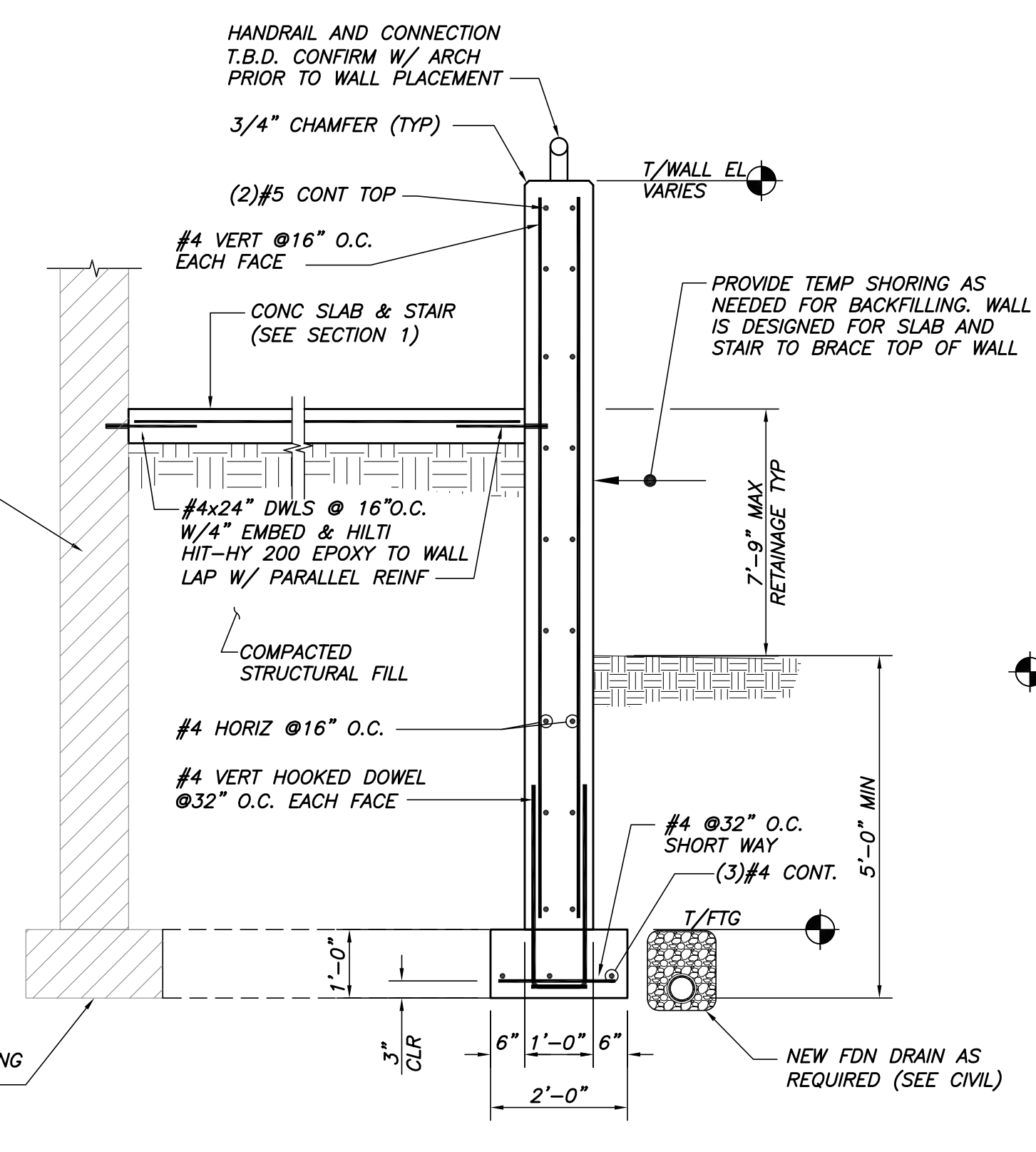
**TYP STEP FOOTING DETAIL**



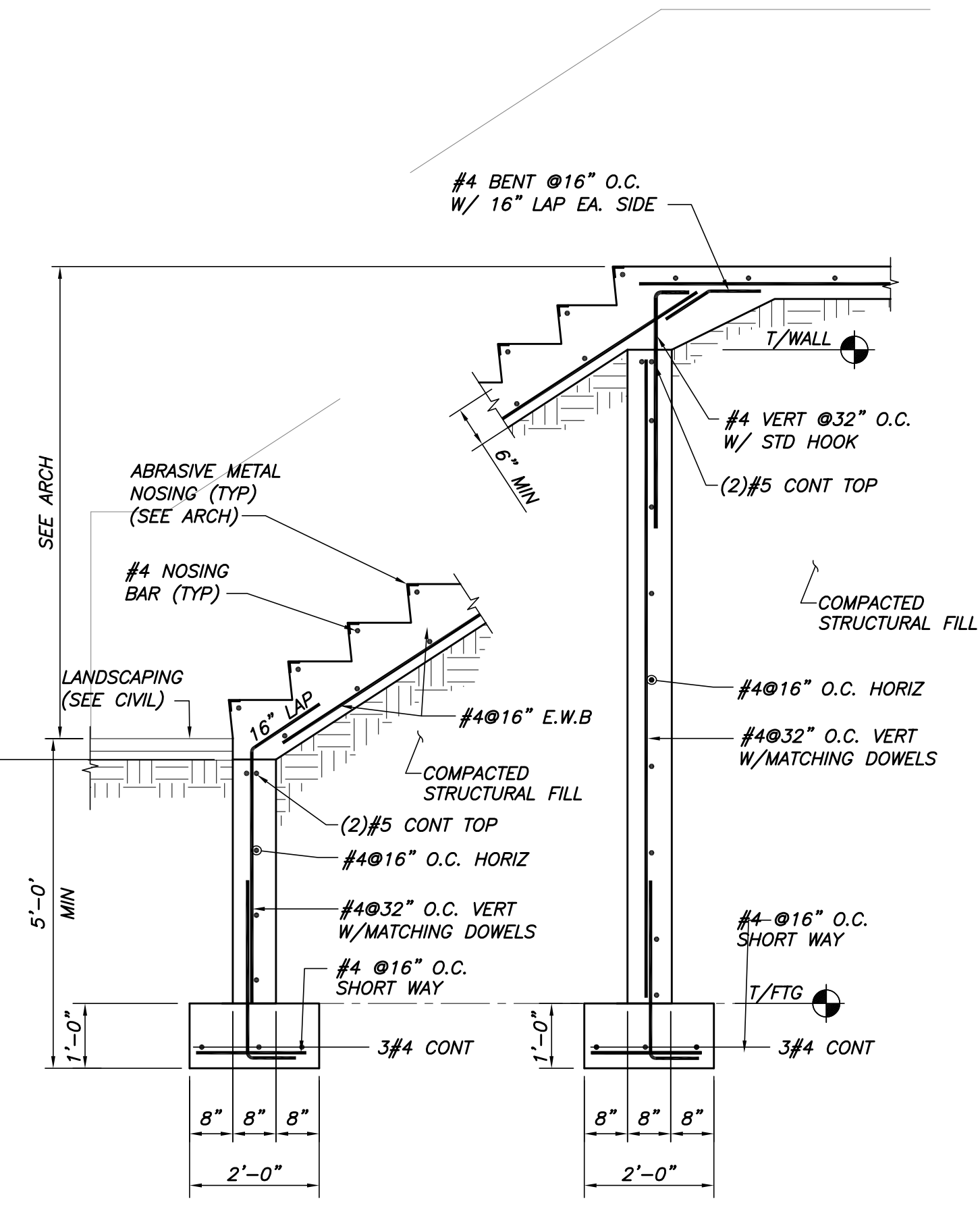
**TYP SLAB ON GRADE & CONTRACTION JOINT DETAIL**



**TWO LAYER TYP WALL REINF DETAILS**



**SECTION 2**



**SECTION 1**

OPAL  
137 High St.  
Belfast, ME 04915  
t: 207.338.1566

SEBAGO TECHNICS  
75 John Roberts Rd., Suite 4A  
South Portland ME 04106  
t: 207.200.2100

THORNTON TOMASETTI  
14 York Street, Suite 201  
Portland, ME 04101  
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PROJECT NAME

**Waterville Public Library**

PROJECT NO 20-15

PROJECT ADDRESS

73 Elm Street  
Waterville, ME

REVISIONS:

DATE & DESCRIPTION:

PAST ISSUES:

DATE & DESCRIPTION:



CURRENT ISSUE:

22-0112 FOR CONSTRUCTION

SHEET NO. AND NAME:

SITE WALLS

**S1.0**