

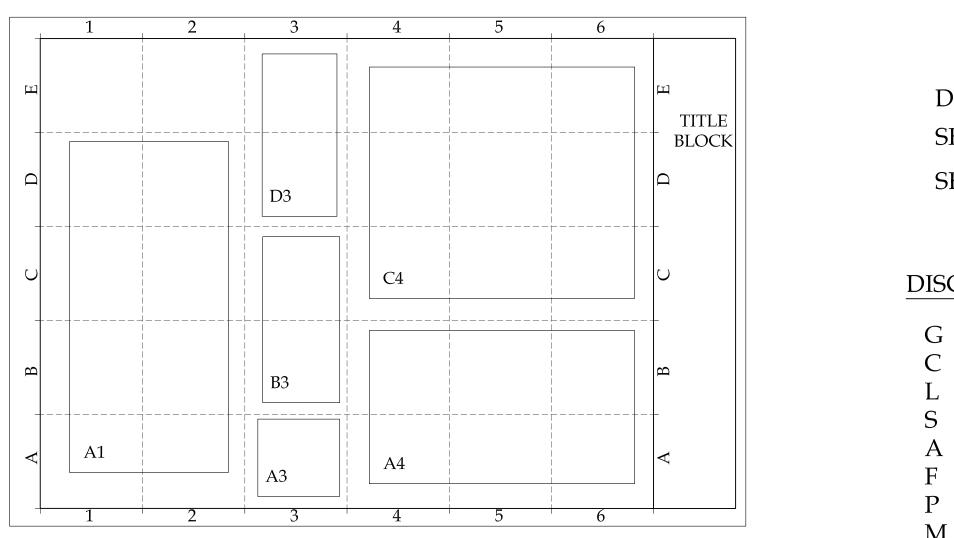
S.A. PROJECT # 08029.10

DATE: 11-26-2018

# West Herr Toyota Body Shop Addition

ARCHITECT:	<u>SHEE</u> TITLI
SILVESTRI ARCHITECTS, P.C. 1321 MILLERSPORT HIGHWAY, SUITE 101, AMHERST, NY 14221 (71) 691-0900 <u>CIVIL ENGINEER:</u>	<u>CIVIL:</u> G-100 C-101 C-102 C-103 C-104 C-105 C-106 C-107
NUSSBAUMER & CLARKE, INC. 3556 lake shore road, suite 500, buffalo, ny 14219 (716) 827-8000	S-100 S-101 S-102 S-201 S-202
STRUCTURAL ENGINEER: PETRILLI STRUCTURAL & CONSULTING ENGINEERING, P.C. 245 KINSEY AVENUE SUITE 100, KENMORE, NY 14217 (716) 854-3508	$\begin{array}{c} \text{ARCHI}\\ \text{A-001}\\ \text{A-002}\\ \text{A-003}\\ \text{A-004}\\ \text{A-100}\\ \text{A-101}\\ \text{A-101}\\ \text{A-102}\\ \text{A-103}\\ \text{A-201}\\ \text{A-301}\\ \text{A-301}\\ \text{A-301}\\ \text{A-302}\\ \text{A-401}\\ \text{A-402}\\ \text{A-501}\\ \text{A-601}\\ \text{A-602}\\ \text{A-603} \end{array}$

# DRAWING AREA LOGIC



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# 8129 Main Street, Clarence, NY

# ET INDEX

# LE SHEET

- COVER SHEET
- EXISTING CONDITIONS PLAN PROPOSED GRADING, PAVING AND UTILITY PLAN
- SITE DETAILS 1 OF 2
- SITE DETAILS 2 OF 2
- SANITARY SEWER NOTES SANITARY SEWER DETAILS
- **RPZ AND RPDA DETAILS**

# JCTURAL:

- GENERAL NOTES
- FOUNDATION PLAN
- ROOF FRAMING PLAN DETAILS
- DETAILS

# HITECTURAL:

GENERAL NOTES AND STANDARD MOUNTING HEIGHTS ACCESSIBILITY REQUIREMENTS 1 OF 2 ACCESSIBILITY REQUIREMENTS 2 OF 2 PARTITION TYPES CODE COMPLIANCE PLAN FLOOR PLAN **REFLECTED CEILING PLAN** ROOF PLAN EXTERIOR ELEVATIONS WALL SECTIONS & DETAILS WALL SECTIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS MILLWORK SECTIONS DOOR SCHEDULE & DETAILS FINISH LEGEND & SCHEDULE FINISH FLOOR PLAN

# SHEET IDENTIFICATION LOGIC



SEQUENCE NUMBER

DISCIPLINE DESIGNATOR

GENERAL CIVIL LANDSCAPE STRUCTURAL ARCHITECTURAL FIRE PROTECTION PLUMBING MECHANICAL ELECTRICAL

# A-101

# SHEET TYPE DESIGNATOR

GENERAL

0

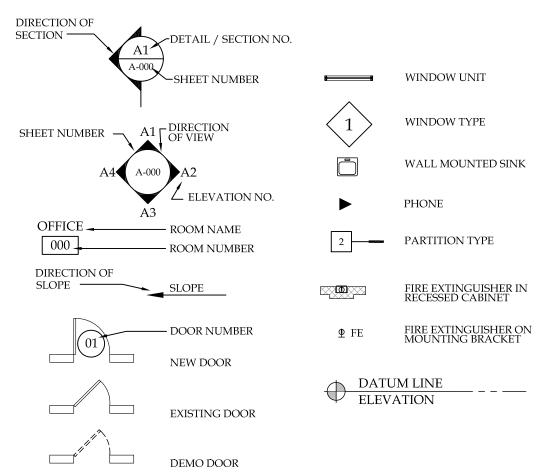
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- PLANS
- ELEVATIONS
- SECTIONS
- LARGE SCALE VIEWS
- DETAILS
- SCHEDULES & DIAGRAMS

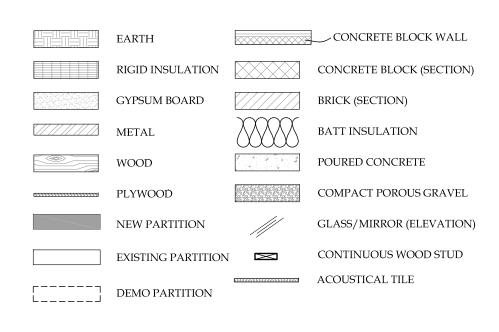
# ABBREVIATIONS

.F.F CT. .C. LT. LUM.	ABOVE FINISH FLOOR ACOUSTICAL TILE AIR CONDITION ALTERNATE ALUMINUM		N.I.C. N.T.S. NOM NO.	NOT IN CONTRACT NOT TO SCALE NOMINAL NUMBER	
PPROX. RCH. UTO M RG	APPROXIMATE ARCHITECTURAL AUTOMATIC BEAM BEARING		O.C. OPNG OPP OPPH OH	ON CENTER OPENING OPPOSITE OPPOSITE HAND OVERHEAD	
M. LK LKG OT RK E.J. LDG UR	BENCH MARK BLOCK BLOCKING BOARD BOTTOMS BRICK BRICK EXPANSION JOINT BRICK COURSE BUILDING BUILT-UP ROOFING		PMBC PNT PNL P.T.D. P.T.R. PVMT PC, BD	PRENGINEERED METAL BUILDING CONTRACTOR PAINT (ED) PANEL PAPER TOWEL DISPENSER PAPER TOWEL RECEPTOR PAVEMENT PEG BOARD	
LG. AB PT .W. .B. EM T HBD LR OOL OOL ONC. MU	CEILING CABINET CARPET CASEWORK CATCH BASIN CEMENT CERAMIC TILE CHALK BOARD CLEAR COLUMN CONCRETE CONCRETE CONCRETE MASONRY UNIT	Г	PLAS. P. LAM PL POL PWD PT PSI PSF P.P. PRE. FAB. PREF PROJ. PL	PLASTER PLASTIC LAMINATE PLATE POLISHED PLYWOOD POINT POUNDS PER SQ. INCH POUNDS PER SQ. FOOT POWER PANEL PREFABRICATED PREFINISHED PROJECTION PROPERTY LINE	
ONT. ONTR JT .G. PS	CONTINUOUS CONTRACTOR CONTROL JOINT CORNER GUARD		QT	QUARRY TILE	
RS ET. IA. IM. ISP. N S S WG .F. IFF.	COURSE DETAIL DIAMETER DIMENSION DISPENSER DOWN DOWNSPOUT DRAWING DRINKING FOUNTAIN DIFFUSER		RAD R.W.L. RECPT. REC. REFR REG REINF. REQ'D RES R.C.P. RET	RADIUS RAIN WATER LEADER RECEPTACLE, ELECTRIC RECESS REFRIGERATOR REGISTER REINFORCE (D) (ING) REQUIRED RECESS (ED) REFLECTED CEILING PLAN RETURN	
A LEC PNL L LEV. Q X. F. XIST. XP. JT.	EACH EXTERIOR INSULATION & FINISH SYSTEM ELECTRICAL ELECTRIC PANEL ELEVATOR ELEVATOR EQUAL EXHAUST FAN EXISTING EXPANSION JOINT		RA RVS REV RH ROW R.D. RFG RM RND	RETURN AIR REVERSE REVISION RIGHT HAND RIGHT OF WAY RISER ROOF DRAIN ROOFING ROOM ROUND	
B IN A. EC HC P. L. D. F W.C. IG DTN UR	FACE BRICK FINISH (ED) FIRE ALARM FIRE EXTINGUISHER CABIN FIRE HOSE CABINET FIRE PROOFING FLOOR FLOOR DRAIN FOOT FACE WALL COVERING FOOTING FOUNDATION FURRING	IET	SDL STG SHTTH SHT SHR SIM SPKR SPEC SQ. SST SP STD SD S.G.T.	SADDLE SEATING SHEATHING SHEET SHOWER SIMILAR SPEAKER SPECIFICATIONS SQUARE STAINLESS STEEL STAND PIPE STANDARD STORM DRAIN STRUCTURAL GLAZED TILE	7
AL A .C. L. .B. .W.B. YP.	GALLON GAGE GENERAL CONTRACTOR GLASS GRAB BAR GYPSUM WALL BOARD GYPSUM		STRUCT. SUSP. SW. SWBD SV	STRUCTURAL SUSPENDED SWITCH SWITCH BOARD SHEET VINYL	2
DW D. WD. VAC T C M ORIZ B .W.	HARDWARE HARDWOOD HEATING, VENTILATING, & AIR CONDITIONING HEIGHT HOLLOW CORE HOLLOW METAL HORIZONTAL HOSE BIB HOT WATER		T.B. TEL TEMP TEX THK THR TP T/O TB TYP	TACKBOARD TELEPHONE TEMPERATURE TEXTURE THICK (NESS) THRESHOLD TOILET PAPER HOLDER TOP OF TOWEL BAR TYPICAL	
ISUL IS. GL IV	INSULATE (D) (ION) INSULATED GLASS INVERT		U.C.L. U.C. UR	UNDER CABINET LIGHT UNDERCUT UNDAL	
Ň	JANITOR JOINT			URINAL	
IТ О АМ	KITCHEN KNOCK OUT		V.T.R. VENT VERT VEST V.C.T.	VENT THRU ROOF VENTILATOR VERTICAL VESTIBULE VINYL COMPOSITE TILE	
AV H GT F	LAVATORY LEFT HAND LENGTH LIGHT		V.I.F. V.W.C.	VERIFY IN FIELD VINYL WALL COVERING	
F. TL LH LV M.F. VR P.	LINEAR FEET LINTEL LINEL LONG LEG HORIZONTAL LONG LEG VERTICAL LIGHT GAUGE METAL FRAN LOUVER LOW POINT	MING	WSCT WS WT WWF W.C.D.F. W/ W/O WD	WAINSCOT WEATHER STRIP WEIGHT WELDED WIRE FABRIC WHEELCHAIR DRINKING FO WITH WITHOUT WOOD	DUNTAIN
ACH .H. FR AS .O. ATL AX ECH EMB ET .T.P. IN ISC. ULL	MACHINE MANHOLE MANUFACTURE MASONRY MASONRY OPENING MATERIAL MAXIMUM MECHANICAL MEMBRANE METAL METAL METAL TOILET PARTITION MINIMUM MISCELLANEOUS MULLION				

# **DRAFTING SYMBOLS**



# MATERIAL SYMBOLS



# **BUILDING DATA**

OCCUPANCY CLASSIFICATION: B, S1 CONSTRUCTION TYPE: 2B GROSS PROJECT AREA: 4,725 NET PROJECT AREA: 4,488 (NON) SPRINKLERED OCCUPANCY LOAD: 37 PEOPLE

ISSUE

# NOTE: (DESIGN BUILD)

HVAC, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE PREPARED AND STAMPED BY THE DESIGN/ BUILD HVAC, PLUMBING, AND ELECTRICAL SUBCONTRACTORS.



Ú JOB RC PROJ. P.Silv **PRINCIPAL:** TEAM: PROIEC A S A. PROJECT # 08029.10 ATE: 11-26-2018

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INTERIORS:

DRAFTER:

APTAIN:

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Clarenc

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Main

# WEST HERR TOYOTA **BODY SHOP ADDITION**



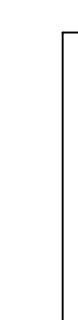




# 8129 MAIN STREET CLARENCE, ERIE COUNTY STATE OF NEW YORK

NOVEMBER 26, 2018

DWG	Т
G-100	C
C-101	E
C-102	F
C-103	0)
C-104	0)
C-105	(V)
C-106	0
C-107	F
	•



# LOCATION MAP



3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219 (716) 827-8000 | (716) 826-7958 fax www.nussclarke.com

# LIST OF DRAWINGS

TITLE

COVER SHEET EXISTING CONDITIONS PLAN

PROPOSED GRADING, PAVING AND UTILITY PLAN

SITE DETAILS 1 OF 2

SITE DETAILS 2 OF 2

SANITARY SEWER NOTES

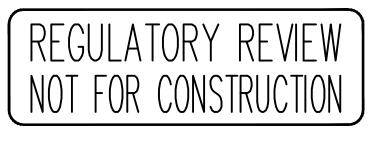
SANITARY SEWER DETAILS

RPZ AND RPDA DETAILS

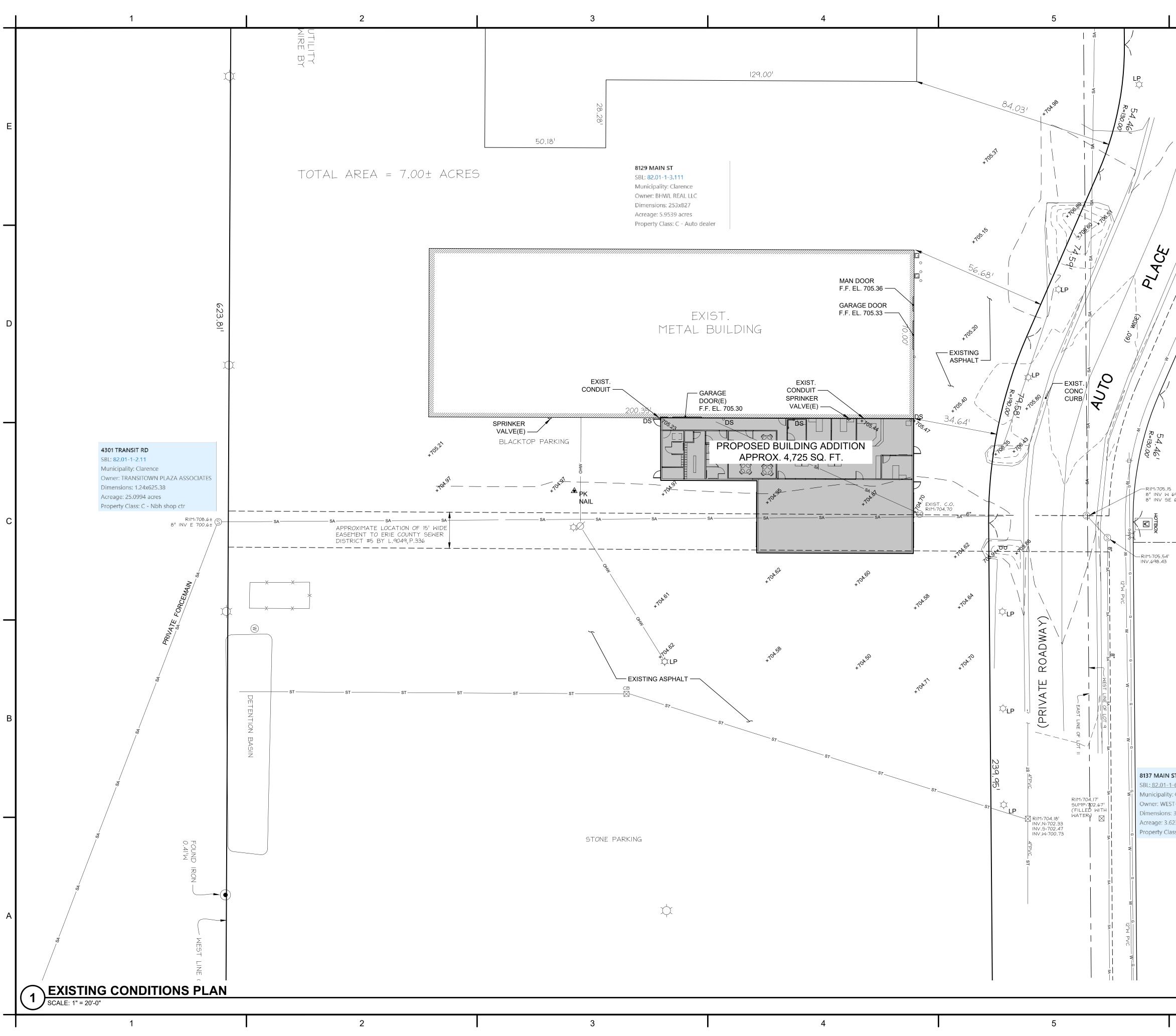
# **APPLICANT**:

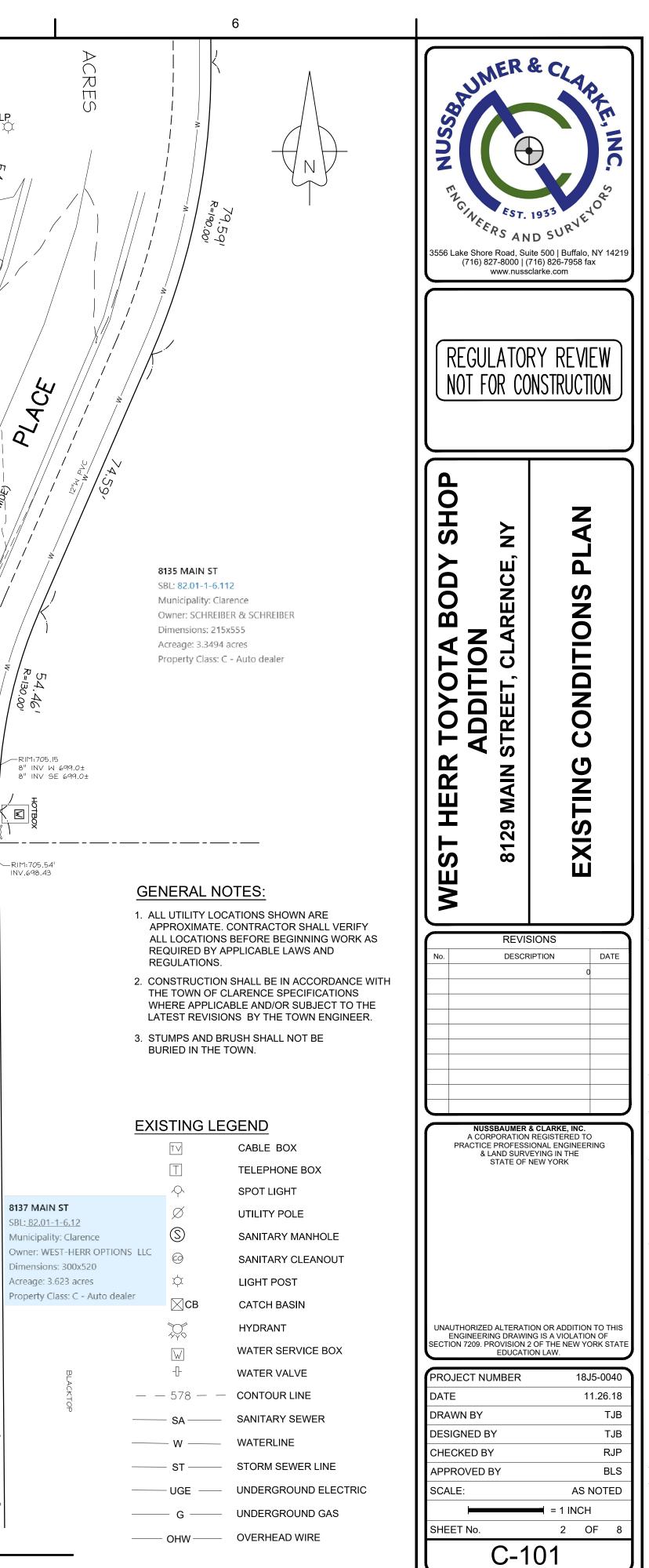
WEST HERR AUTOMOTIVE GROUP 8129 MAIN STREET CLARENCE, NEW YORK 14031

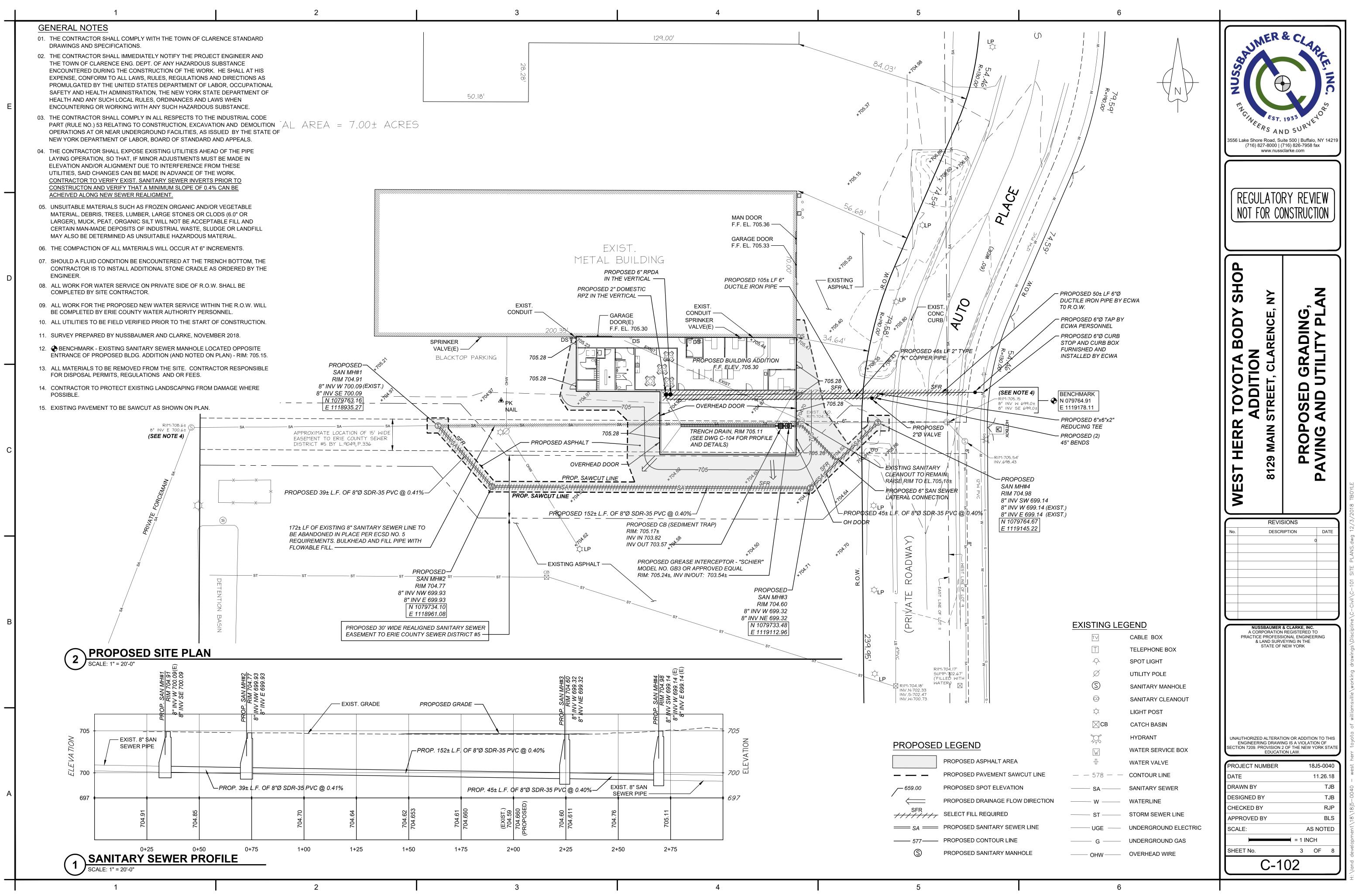
PHONE NUMBER: 716-491-7000

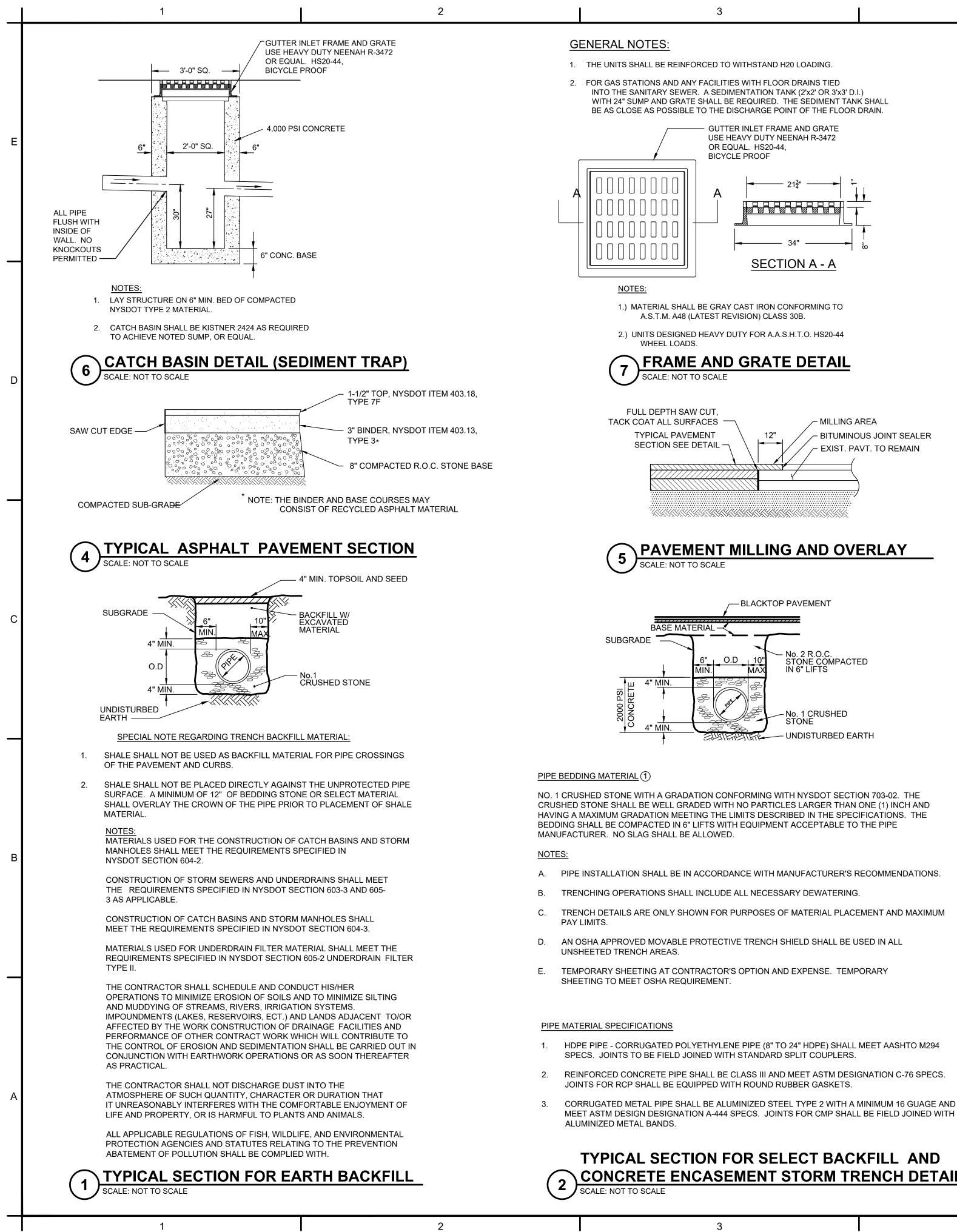


NUSSBAUMER & CLARKE, INC. A CORPORATION REGISTERED TO PRACTICE PROFESSIONAL ENGINEERING & LAND SURVEYING IN THE STATE OF NEW YORK CERTIFICATE NO.





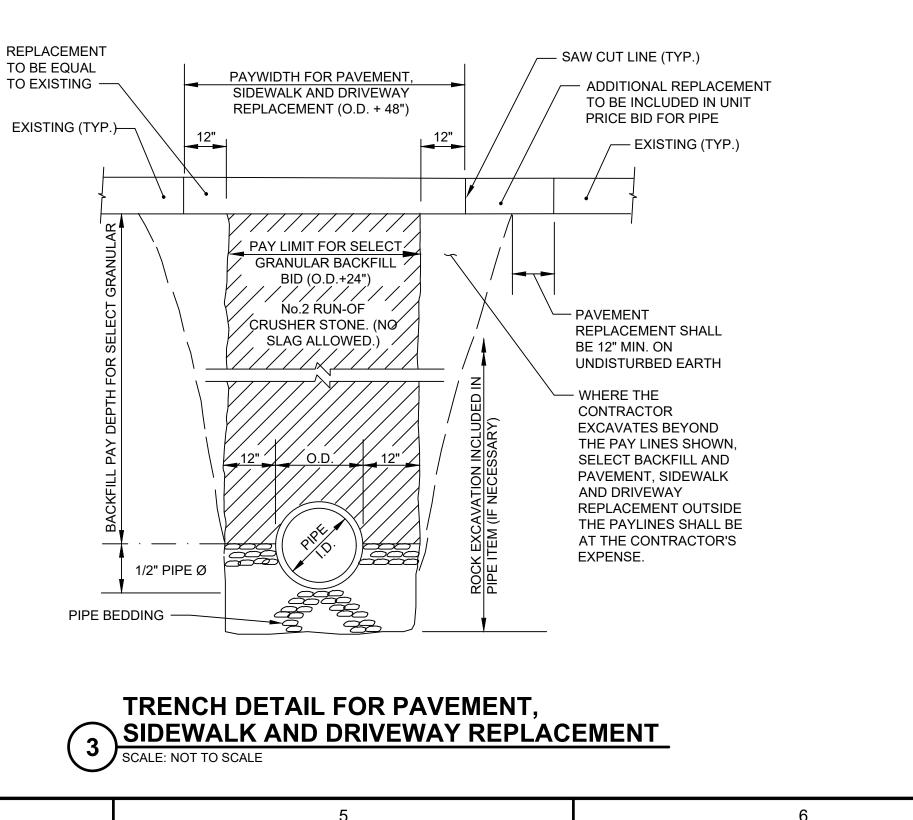




	3		4	5	
NERAL NOTES:					
THE UNITS SHALL BE REINFOR	RCED TO WITHSTAND H20 LOADING.				
INTO THE SANITARY SEWER WITH 24" SUMP AND GRATE	FACILITIES WITH FLOOR DRAINS TIED . A SEDIMENTATION TANK (2'x2' OR 3'x3' D. SHALL BE REQUIRED. THE SEDIMENT TAN TO THE DISCHARGE POINT OF THE FLOOR	JK SHALL			
	<ul> <li>GUTTER INLET FRAME AND GRATE USE HEAVY DUTY NEENAH R-3472 OR EQUAL. HS20-44, BICYCLE PROOF</li> </ul>				
	A 21 <sup>3</sup> / <sub>4</sub> "				
NOTES:					
	BE GRAY CAST IRON CONFORMING TO ATEST REVISION) CLASS 30B.				
2.) UNITS DESIGNED WHEEL LOADS.	HEAVY DUTY FOR A.A.S.H.T.O. HS20-44				
7 FRAME SCALE: NOT TO	AND GRATE DETAIL				
FULL DEPTH SAW TACK COAT ALL SURFA TYPICAL PAVEM SECTION SEE D	ACES MILLING A IENT BITUMINO ETAIL EXIST. PA	AREA OUS JOINT SEALER AVT. TO REMAIN			

# PAVEMENT MILLING AND OVERLAY

# CONCRETE ENCASEMENT STORM TRENCH DETAILS



4

# **GENERAL NOTES:**

1. UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND LOCATED PRIOR TO CONSTRUCTION.

2. WHERE EXISTING UTILITIES ARE REQUIRED TO BE RELOCATED, THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY CONCERNED REGARDING SUCH RELOCATION. THE COST FOR RELOCATION OF UTILITIES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR PIPE, INSTALLATION AND TRENCHING.

3. ALL DEBRIS AND SPOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

4. BEFORE YOU DIG OR BLAST IN WESTERN NEW YORK CALL "DIG SAFELY NEW YORK "1-800-962-7962.

5. PRIOR TO SUBBASE COURSE PLACEMENT, THE SURFACE ON WHICH THE SUBBASE IS TO BE PLACED SHALL BE THOROUGHLY COMPACTED TO THE 95% PROCTOR DENSITY AND PROOF ROLLED. PROOF ROLLING SHALL BE IN ACCORDANCE WITH SECTION 203-3.02C OF THE NYSDOT STANDARD SPECIFICATIONS.

6. MATERIALS USED FOR THE CONSTRUCTION OF CATCH BASINS SHALL MEET THE REQUIREMENTS SPECIFIED IN NYSDOT SECTION 604-2

7. CONSTRUCTION OF CATCH BASINS SHALL MEET THE REQUIREMENTS SPECIFIED IN NYSDOT SECTION 604-3.

8. MATERIALS USED FOR UNDERDRAIN FILTER MATERIAL SHALL MEET THE REQUIREMENTS SPECIFIED IN NYSDOT SECTION 605-2 UNDERDRAIN FILTER TYPE II .

9. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT HIS/HER OPERATIONS TO MINIMIZE EROSION OF SOILS AND TO MINIMIZE SILTING AND MUDDYING OF STREAMS, RIVERS, IRRIGATION SYSTEMS. IMPOUNDMENTS (LAKES, RESERVOIRS, ETC.) AND LANDS ADJACENT TO/OR AFFECTED BY THE WORK CONSTRUCTION OF DRAINAGE FACILITIES AND PERFORMANCE OF OTHER CONTRACT WORK WHICH WILL CONTRIBUTE TO THE CONTROL OF EROSION AND SEDIMENTATION SHALL BE CARRIED OUT IN CONJUNCTION WITH EARTHWORK OPERATIONS OR AS SOON THEREAFTER AS PRACTICAL.

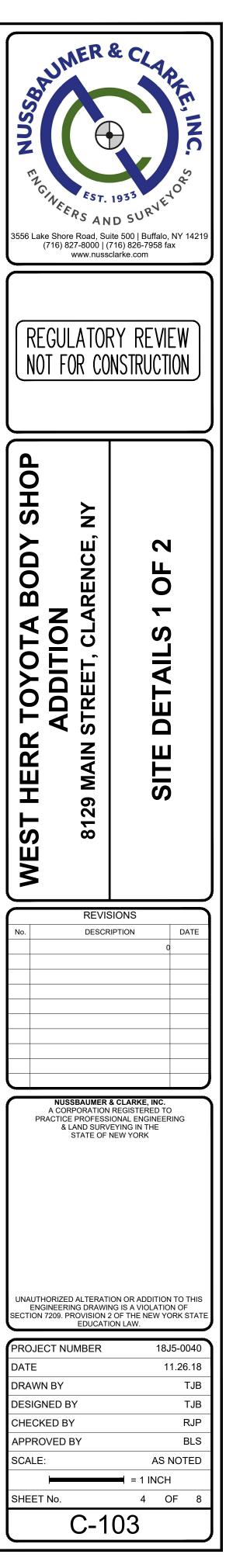
10. THE CONTRACTOR SHALL NOT DISCHARGE DUST INTO THE ATMOSPHERE OF SUCH QUANTITY, CHARACTER OR DURATION THAT IT UNREASONABLY INTERFERES WITH THE COMFORTABLE ENJOYMENT OF LIFE AND PROPERTY, OR IS HARMFUL TO PLANTS AND ANIMALS.

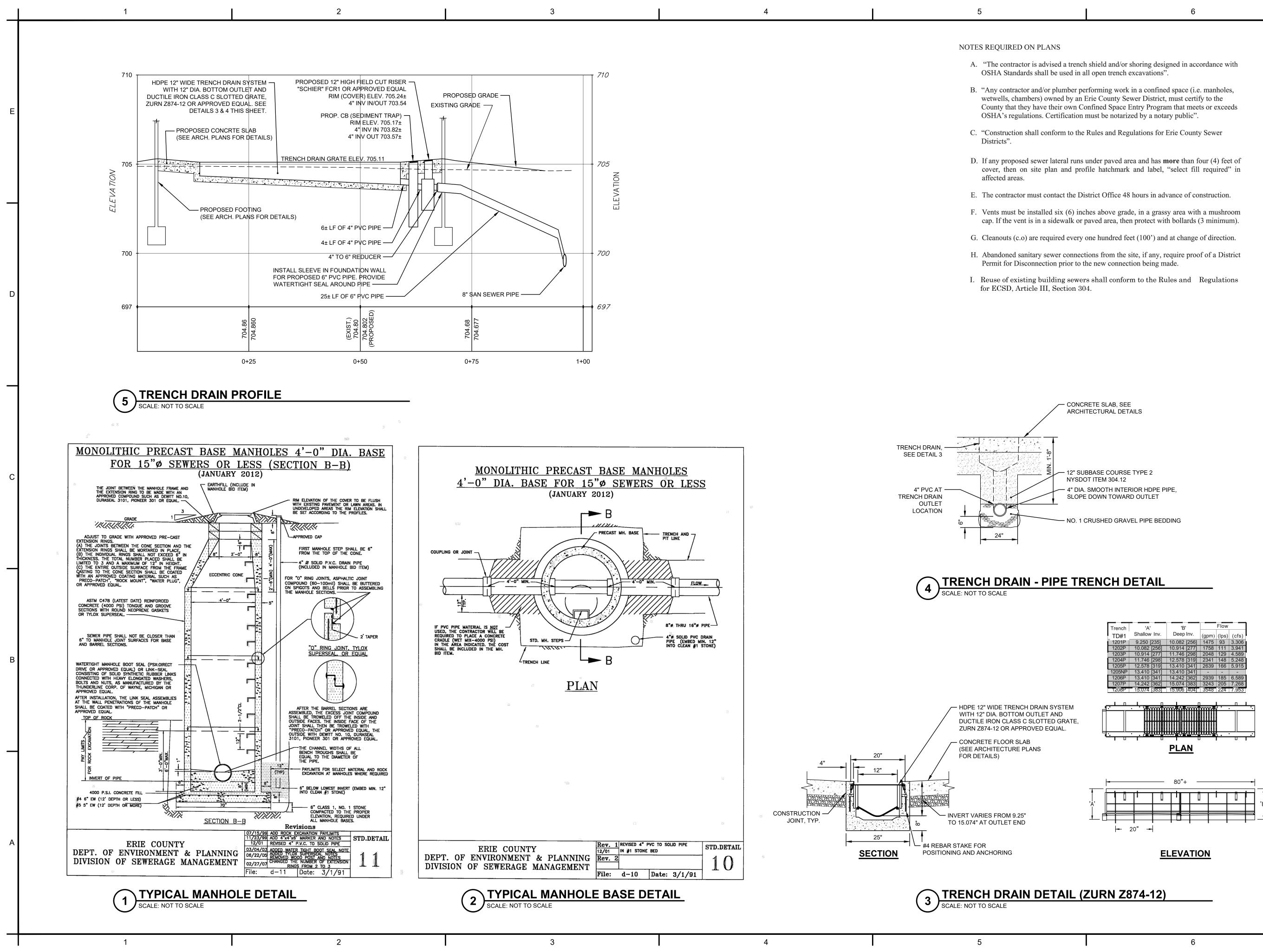
11. ALL APPLICABLE REGULATIONS OF FISH, WILDLIFE, AND ENVIRONMENTAL PROTECTION AGENCIES AND STATUTES RELATING TO THE PREVENTION ABATEMENT OF POLLUTION SHALL BE COMPLIED WITH.

# SPECIAL NOTE REGARDING TRENCH BACKFILL MATERIAL

1. SHALE SHALL NOT BE USED AS BACKFILL MATERIAL FOR PIPE CROSSINGS OF THE PAVEMENT AND CURBS.

2. SHALE SHALL NOT BE PLACED DIRECTLY AGAINST THE UNPROTECTED PIPE SURFACE. A MINIMUM OF 12" OF BEDDING STONE OR SELECT MATERIAL SHALL OVERLAY THE CROWN OF THE PIPE PRIOR TO PLACEMENT OF SHALE MATERIAL.











		1		2	
	<u>GEN</u>	IERAL NOTES FOR SANITARY SEWER CONSTI	RUCTION WITHIN E		OUNTY SEWER DISTRICTS
	1.	The Erie County Division of Sewerage Management (DSM), wh the existing sewer lines and appurtenances within Erie County S to be notified at least 48 hours in advance of the start of construct	ewer Districts (ECSD), is tion.		If it is impossible to obtain proper horizontal and verti- both the water main and sewer must be constructed of complying with public water supply design standards of pressure tested to 150 pounds per square inch (psi) (10
	2.	Construction shall be in accordance with the Rules and Regulation Sewer Districts.	ons for Erie County	20	prior to backfilling. 0. Sewers crossing watermains - <i>Ten State Standards, La</i>
Е	3.	All permits required by the Federal, State, County, City and/or T perform work must be obtained prior to the start of work, and pa	id for by the Contractor.	20	38.32, Page 30-11 to 30-12: Sewers crossing water ma minimum vertical distance of 18-inches (460 mm) betw and the outside of the sewer. This shall be the case wh
	4.	If easement and/or Out of District Agreements are required, they ready to be filed before the project will be approved for construc			or below the sewer. The crossing shall be arranged so equidistant and as far as possible from the water main under a sewer, adequate structural support shall be pro
	5.	The contractor shall comply in all respects to the Industrial Code relating to construction, excavation, and demolition operations at facilities, as issued by the State of New York Department of Lab	or near underground	21.	line and grade. When it is impossible to obtain proper horizontal ar
	6	and Appeals.			above, one of the following methods must be specified
	6.	The construction of the sanitary sewer facilities shall be under th or firm qualified to practice professional engineering in New You Education Law of the State, whenever engineering services are re- such purposes.	k State under the		<ul> <li>a. The sewer shall be designed and constructed equipressure tested at 150 psi (1034 kPa) to assure the b. Either the water main or the sewer line may be which extends ten (10') feet (three (3) meters) of measured perpendicular to the water main. The</li> </ul>
	7.	Where such sanitary sewer facilities are under the supervision of he/she shall certify to the DSM and to the applicant that the cons been under his/her supervision and that the work has been fully c with the approved engineering reports, plans, specifications, and	tructed facilities have ompleted in accordance		<ul> <li>approved by the regulatory agency for use in water main. The approved by the regulatory agency for use in water main.</li> <li>c. The sewer shall be encased in concrete per the I Typical For Encasement</li> </ul>
D	8.	The Contractor is solely responsible for all site safety. The Contr methods of operation shall be in full compliance with OSHA Star Federal, State and Local Health and Safety Regulations.	actor's equipment and	22.	The manhole covers are to bear the inscription "ECSD the DSM Standard Frame and Cover detail. For private inscription "SANITARY SEWER" and comply with the (Private Sewer) detail.
	9.	The Contractor is advised a trench shield and/or shoring designed OSHA Standards shall be used in all open trench excavations.		23.	Building sanitary sewer vents must be installed six (6) grassy area with a mushroom cap. If the vent is in a sid with 6" diameter bollards (2 minimum).
	10.	Any contractor and/or plumber performing work in a confined sp wetwells, and chambers) owned by an Erie County Sewer Distric County that they have their own Confined Space Entry Program to OSHA's regulations. Certification must be notarized by a notary	t, must certify to the hat meets or exceeds	24.	Cleanouts (c.o.) are required on 4" and 6" building sew hundred feet respectively, and at every change of align
	11.	The contractor shall expose existing utilities ahead of the pipe lay	ing operation so if	25.	Abandoned building sewer connections from the site, if Permit for Disconnection prior to the new connection b
	12.	minor adjustments must be made in the pipe elevation and/or alig interference from these utilities, said changes can be made in adv 1 of 4 The contractor shall retain the services of a qualified tree expert t	nment due to ance of the work.	26.	The following pertains only for direct replacement of ir a. Each new pipe joint shall be ultrasonic tested a pipe is laid. All tests shall be in accordance with recommendations.
		necessary, branches which interfere with the construction operation having suffered damage by construction activities. The cost invo- the various items of the contract.	on, or to repair trees		<ul> <li>b. The ultrasonic test shall be performed in lieu of t</li> <li>c. A video inspection of the entire sewer shall inspection tape and related paperwork to DSM for</li> </ul>
с	13.	The proposed 8 through 12 inch diameter sanitary sewer pipe sha (PVC) sewer pipe conforming to the latest revisions of American Materials (ASTM) designation D-3034, SDR-35, installed in accord designation D-2321-83a or the latest revision thereof, or approved pipes will be reviewed on a case by case basis.	Society for Testing and ordance with the ASTM	27.	<ul> <li>d. A deflection test is required in all cases.</li> <li>For all sanitary sewer installations, a written certificate compliance, including the results of the hydrostatic leal air test, etc. shall be submitted to the Erie County Healt thirty (30) days after completion of construction</li> </ul>
	14.	Sewers shall be laid with straight alignment between manholes ar using a laser beam or lamping.	d shall be checked by	28.	thirty (30) days after completion of construction. For all public and private 8" diameter pipe or larger sar
	15.	Should a fluid condition be encountered at the trench bottom, the undercut the trench and provide suitable fill material (stone & fab trench bottom.			developer/contractor must provide one (1) set of record x 36") and in an electronic file format (CD or flash driv AutoCAD release.
_	16.	Sanitary sewer bedding material shall be No. 1 crushed stone with conforming to the DSM Specifications for Subdivisions and Sanita	e	29.	All public sewer extension projects that consist of more or larger, shall furnish a 2 year maintenance bond to the
	17.	Backfill shall be of a suitable material removed from the excavati	on except where other	30.	Final Certification will be issued upon the full complete project including any requirement(s) of I&I remedial w
		material is specified. Debris, frozen material, large clods or stone other unstable materials shall not be used for backfill within two ( pipe.		REQI	ESTS, INFILTRATION OR EXFILTRATIO
	18.	All pipes crossing under paved areas are to be backfilled to sub-gr select material (No. 2 crushed stone) to five (5') feet outside the p required by the highway permit. If any proposed sewer runs under	avement edges or as	Α.	Requirements 1. After backfilling and prior
в		less than four (4) feet of cover, then concrete encasement is require DSM Typical Concrete Encasement Detail.			the project, the Contractor will be r llowing four tests on all sewers built a) Air Tests
	19.	Sewers parallel to watermains - <i>Ten State Standards, Latest Editio</i> 38.31, and Page 30-11: Sewers shall be laid at least ten (10') feet	(three (3) meters)		<ul><li>b) Infiltration or Ex</li><li>c) Deflection Test (1)</li></ul>
		horizontally from any existing or proposed water main. The dista edge to edge. In cases where it is not practical to maintain a ten ( appropriate reviewing agency may allow deviation on a case-by-c by data from the design engineer. Such deviation may allow insta	10') foot separation, the ase basis, if supported	sha	2. No more than 1,000 linear for all be allowed to remain untested.
_		closer to a water main, provided that the water main is in a separar undisturbed earth shelf located on one side of the sewer and at an of the water main is at least 18-inches (460 mm) above the top of	te trench or on an elevation so the bottom	and	3. In view of the fact that how pes often contribute considerable infi- d risers are to be installed and capped e work progresses, prior to the air tes
				ent all Equ	4. The Contractor's testing pro- mpleted in accordance with OSHA Standar try. The Contractor will be required to a equipment necessary for full complian aipment such as gas detectors, safety h owers, respirators etc. shall be provide
Δ				В.	Air Tests (Required for All Diame including 36") 10 State Standards
Â				cal	<ol> <li>This test shall be performed endar days after the trenches are back</li> </ol>
				dec	2) The procedure for air testir tein. The minimum allowable time for t crease from 3.5 psi to 3.0 psi shall be led for in the following table:
		1		2	

ical separation as described above, f slip-on or mechanical joint pipe of the regulatory agency and be 034 kPa) to assure water tightness

atest Edition, Chapter 30, Section ains shall be laid to provide a ween the outside of the water main here the water main is either above that the sewer joints will be joints. Where a water main crosses vided for the sewer to maintain

nd vertical separation as stipulated

qual to water pipe, and shall be water tightness prior to backfilling. encased in a watertight carrier pipe on both sides of the crossing, e carrier pipe shall be of materials vater main construction.

DSM Watermain Crossing Detail

SANITARY" and comply with e projects the covers shall bear the ne DSM Standard Frame and Cover

inches above finished grade in a dewalk or paved area, then protect

vers every fifty feet and one ment.

any, require proof of a District being made.

a service sanitary sewers: after it is laid, but before the next the testing equipment manufacture

the hydrostatic and air tests. be performed. Forward the video for review and approval.

of construction completeness and kage test, lamp test, deflection test, th Department and DSM within

itary sewer installations, the l drawings on "D" size paper (24" ve) compatible with the latest

than 750 LF of 8" diameter pipe DSM.

eness and compliance of the ork.

# N AND DEFLECTION VER DISTRICTS

to the final acceptance required to perform the under this project:

filtration .5" dia. and smaller).

eet of installed sewer

use laterals and riser ltration, such laterals d, tied and blocked as sting of the lines.

ocedures shall be rds for confined space to provide and operate nce for his operation. harnesses, ventilating ded by the Contractor.

eters up to and Section, 33.94

d no earlier than 14 kfilled.

ng shall be as specified the test pressure to not less than as

,	AIR TESTS	, INFILTRATIC	N OR EXFILT	RATION AND	DEFLECTION	REQUIREMEN
		Minimum Accep	tance Times* H	For Length Sh	own (min·sec)	
	Pipe					
	Diameter	Up to 100'	100 - 200'	200 - 300'	300 - 400'	
	(11	0.50	0.50			

Diameter	0010100	100 - 200	200 - 300	300 - 400
6"	2:50	2:50	2:50	2:51
8"	3:47	3:47	3:48	5:04
12"	5:40	5:42	8:33	11:24
15"	7:05	8:54	13:21	17:48
18"	8:30	12:49	19:14	25:38
21"	9:55	17:27	26:11	34:54
24"	11:24	22:48	34:11	45:35
27"	14:25	28:51	43:16	57:42
30"	17:48	35:37	53:25	71:13
33"	21:33	43:56	64:38	86:10
36"	25:39	51:17	76:55	102:34

\* Erie County Sewer District Inspector will extend time to the next full minute during the test.

3. Pipe lines in sizes up to 36 inches in diameter can be air tested from manhole to manhole for distances not to exceed 400 feet.

 In wet trenches where pumping to lower the water table is impractical, approved 4" diameter, solid PVC drain pipe (with approved cap) shall be placed at each manhole to extend from a point 6 inches below the lowest invert to the top of the ground. Embed the pipe a minimum of 12" into clean #1 stone. Ground water elevations will be measured at each manhole in order to calculate the groundwater pressure acting on the pipe exterior. The initial air test pressure shall be increased as necessary to overcome the calculated groundwater pressure.

5. The testing procedures outlined shall be strictly adhered to.

6.	All	testing	equipment	shall	be	suppli	ed	by	the
Contractor a					lon.	Some	of	the	major
equipment re	equire	ed for a	ir tests i	s:					

second.	a)	Stop watch graduated in tenths of a
air	b) c) d)	Compressor of 50 to 100 psi capacity. Bulkheads for pipe. Approximately 100 feet of 3/8" diameter
	e) f)	hose. Pressure gauge - 0 to 5 psi graduated in 1/16th of a pound increments. Three 3/8 inch diameter check valves.

с. Infiltration Tests (Applicable Only if Ground Water is Two Feet Above the Top of the Pipe)

1. This test shall be performed no earlier than 14 calendar days after the trenches are backfilled.

2. Infiltration tests for all sewers constructed under this project shall not exceed 100 gallons per inch diameter per mile of sewer, per 24 hours. Each individual run of sewer (from one manhole to the next manhole if greater than 100 feet) shall comply with the allowable rate of infiltration. All equipment for the tests shall be furnished by the Contractor and be in good working condition.

3. The allowable rate of infiltration given in gallons per mile is not to be construed as a commitment on the part of the District to accept an entire line, where overall infiltration is less than the allowable, while one or more runs contribute excessive infiltration.

4. The infiltration test is intended to measure the water tightness of a sewer as related to the infiltration of ground water and is only applicable if the water table level is 2 feet or higher above the top of the pipe for the entire length of the test section.

a) Approved 4" diameter solid PVC drain pipe (with an approved cap) shall be placed at each manhole to extend from a point 6 inches below the lowest invert to the top of the ground. Embed the pipe a minimum of 12" into clean #1 stone. Ground water elevations will be measured at each manhole so that the ground water level can be correlated with the infiltration measurements.

b) Before conducting the tests, the water table should be allowed to stabilize at its normal level and verified that it is 2 feet above the top of the pipe during the test period. The test is usually conducted between adjacent manholes with the upstream end of the sewer bulkheaded in a suitable manner to isolate the test section. All service laterals, stubs and fittings should be properly plugged or capped at the connections to the test pipe section to prevent the entrance of ground water at these locations.

c) A V-notch weir or other suitable measuring device should be installed in the inlet pipe of the downstream manhole. Infiltrating water is then allowed to build up and level off behind the weir until a steady, uniform flow occurs over the weir. Leakage is determined by direct reading from graduations on the weir consecutively for five (5) days and converting the flow quantity to gallons per unit length of pipe per unit of time.

d) An important factor in applying the test criteria is to properly correlate the variable water head over the length of the sewer being tested to the high ground water level. A minimum of 2 feet of water over the pipe is required at the upper manhole before the infiltration test will be allowed.

5. When a sewer run between two consecutive manholes or chambers is found to contribute infiltration at a rate above the allowable, inspection by television or other cameras may be made by the Contractor so that the defective section of sewer can be located and repaired. Each individual run of sewer (from one manhole to the next manhole if greater than 100 feet) shall comply with the allowable rate of infiltration of 100 gallons per inch diameter per mile of sewer per 24 hours.

# Exfiltration Tests

1. This test shall be performed no earlier than 14 calendar days after the trenches are backfilled.

2. The exfiltration test for all diameter sewers shall be as described below. Although actual infiltration will normally be less than that indicated by the water exfiltration test, the test does provide a positive means of subjecting the completed sewer system to an actual pressure test. Since sanitary sewers are not designed or expected to operate as a pressure system, care must be exercised in conducting the test and correlating the results with the allowable exfiltration limits.

a) The test is usually conducted between adjacent manholes. Prior to the test, all service laterals, stubs and fittings within the test section should be plugged or capped and adequately braced or blocked to withstand the water pressure resulting from the test.

b) If manholes are to be included in the test, the inlet pipe to each manhole should be bulkheaded and the test section filled with water through the upstream manhole. To allow air to escape from the sewer, the flow should be at a steady rate until the water level in the upstream manhole provides an average pressure of 5 psi (11.6' head) at the center point of the test section or the upstream manhole is filled. If necessary, provisions should be made to bleed off entrapped air during the filling of the test section.

c) Once the test section is filled, the water should be allowed to stand for an adequate period of time (one day minimum) to allow for water absorption by the pipe and manhole. After water absorption has stabilized, the water level in the upstream manhole is brought up to the proper test level and this level established by measuring down from the manhole rim or other convenient datum point. After 24 hours, the water elevation should be measured from the same reference point and the loss of water during the test period calculated, or the water can be restored to the level existing at the beginning of the test, and the amount added used to determine the leakage.

d) To exclude both manholes from the test, it is necessary to bulkhead the outlet pipe of the upstream manhole. Provision must be made in the bulkhead for filling the pipe and expelling trapped air.

e) The water level at the upstream manhole shall be computed and varies above the top of the pipe. Since the sewer is installed on a grade, the test section downstream will most likely be subjected to a greater pressure. Therefore, the test pressure head at the upstream manhole should be adjusted such that the maximum pressure on the pipe being tested is no greater than 10 psi, (23 feet of head).

3. When a sewer run between two consecutive manholes or chambers is found to exfiltrate at a rate above the allowable, inspection by television or other cameras may be made by the Contractor during wet weather, so that the defective section of sewer can be located and repaired. Each individual run of sewer (from one manhole to the next manhole) shall comply with the allowable rate of infiltration of 100 gallons per inch diameter per mile of sewer per 24 hours.

E. Deflection Test

1. This test shall be performed no earlier than 30 calendar days after the trenches are backfilled.

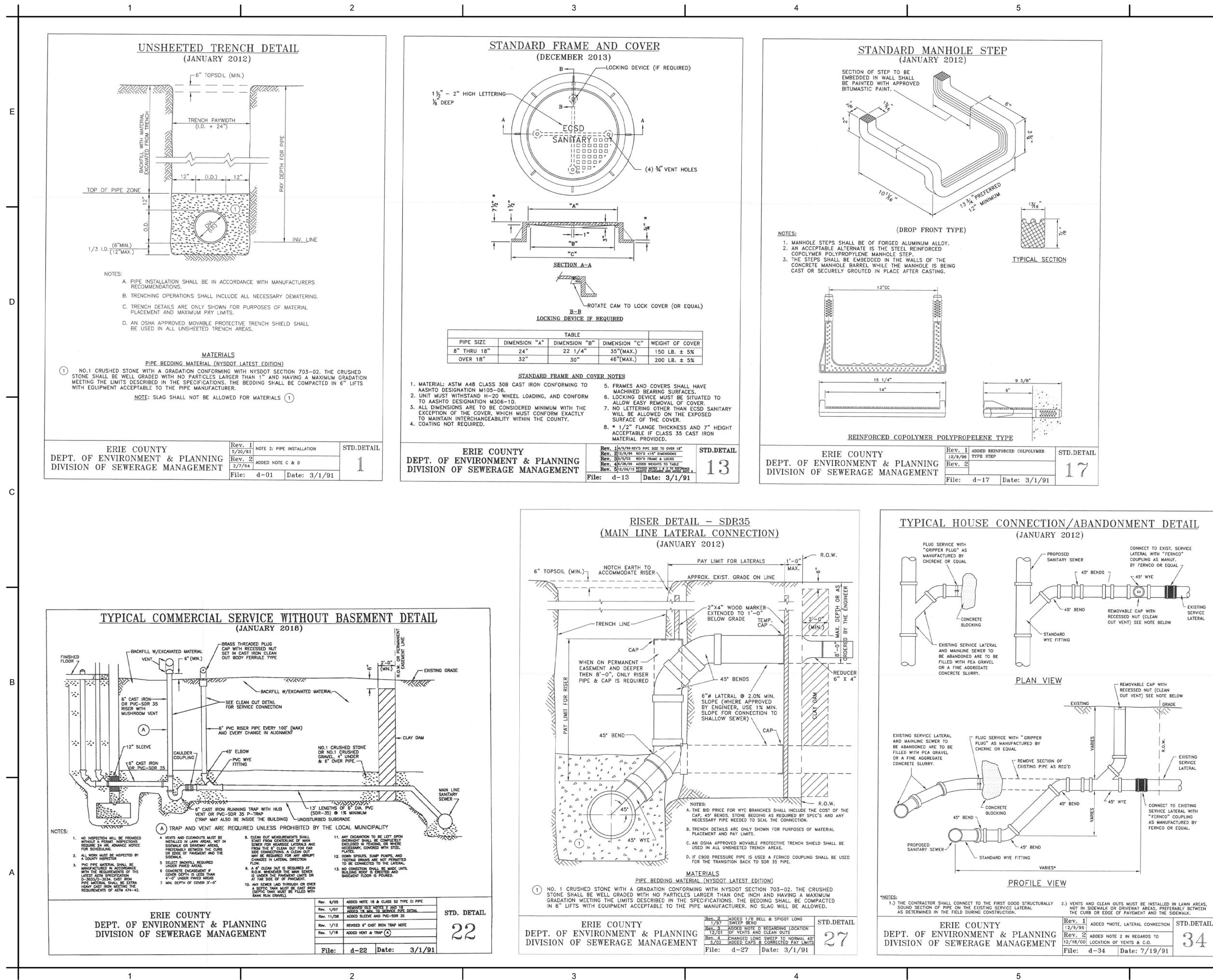
2. All flexible (PVC) sewers 8" diameter or larger constructed under this project shall be internally checked with a five percent (5%) deflection "go-no-go pig" or Mandrel to determine if the pipes are deflecting excessively. Any section of pipe unable to pass the deflection test "pig test" shall be removed and replaced at the Contractor's expense.

3. Deflection testing mandrels or pig shall be pulled thru the pipe by hand or hand operated winch. Power winches or drives are not permitted.

D.

# NTS WITHIN ERIE COUNTY SEWER DISTRICTS (CONTINUED)

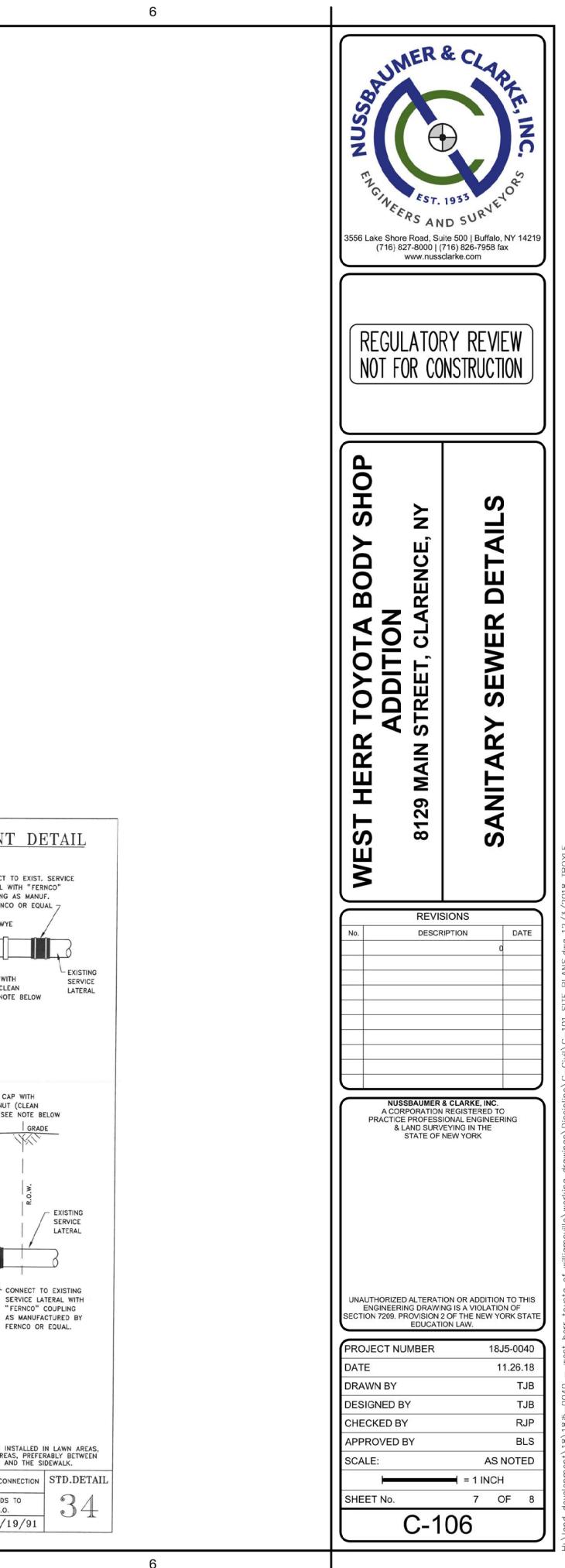












CONNECT TO EXIST. SERVICE

LATERAL WITH "FERNCO"

COUPLING AS MANUF.

45" WYE

REMOVABLE CAP WITH

RECESSED NUT (CLEAN

OUT VENT) SEE NOTE BELOW

- REMOVABLE CAP WITH

∠ 45° WYE

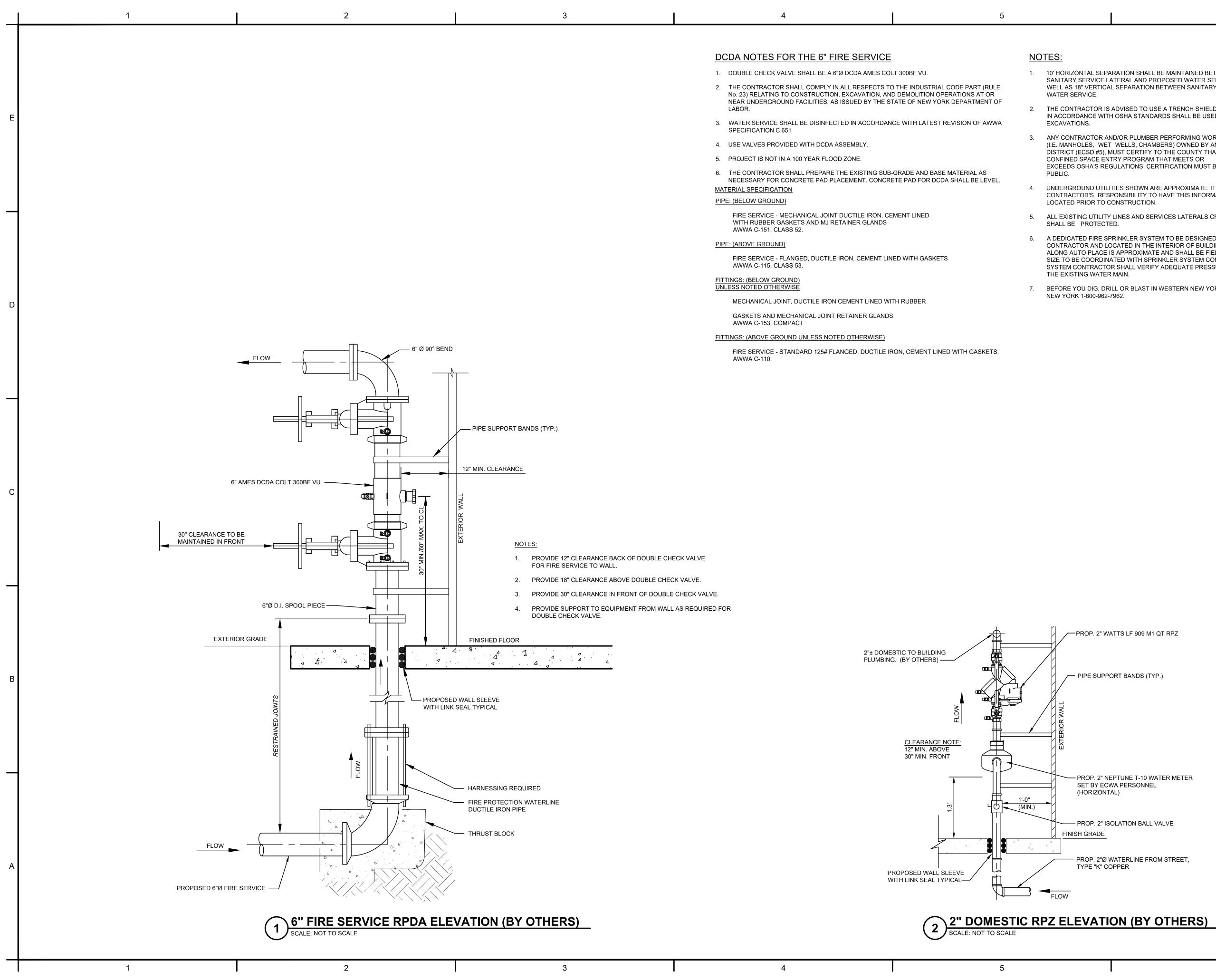
RECESSED NUT (CLEAN

OUT VENT) SEE NOTE BELOW

GRADE

FERNCO OR EQUAL.

BY FERNCO OR EQUAL -



DCDA NOTES FOR THE 6" FIRE SERVICE	<u>NC</u>	DTES:
1. DOUBLE CHECK VALVE SHALL BE A 6"Ø DCDA AMES COLT 300BF VU.	1.	10' HORIZON SANITARY S
<ol> <li>THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE No. 23) RELATING TO CONSTRUCTION, EXCAVATION, AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF</li> </ol>		WELL AS 18 WATER SEF
LABOR.	2.	THE CONTR
<ol> <li>WATER SERVICE SHALL BE DISINFECTED IN ACCORDANCE WITH LATEST REVISION OF AWWA SPECIFICATION C 651</li> </ol>		EXCAVATIO
4. USE VALVES PROVIDED WITH DCDA ASSEMBLY.	3.	ANY CONTR (I.E. MANHO
5. PROJECT IS NOT IN A 100 YEAR FLOOD ZONE.		DISTRICT (E CONFINED S EXCEEDS O
6. THE CONTRACTOR SHALL PREPARE THE EXISTING SUB-GRADE AND BASE MATERIAL AS NECESSARY FOR CONCRETE PAD PLACEMENT. CONCRETE PAD FOR DCDA SHALL BE LEVEL.		PUBLIC.
MATERIAL SPECIFICATION	4.	UNDERGRO CONTRACT
PIPE: (BELOW GROUND)		LOCATED P
FIRE SERVICE - MECHANICAL JOINT DUCTILE IRON, CEMENT LINED WITH RUBBER GASKETS AND MJ RETAINER GLANDS AWWA C-151, CLASS 52.	5.	ALL EXISTIN SHALL BE
PIPE: (ABOVE GROUND)	6.	A DEDICATE
FIRE SERVICE - FLANGED, DUCTILE IRON, CEMENT LINED WITH GASKETS AWWA C-115, CLASS 53.		ALONG AUT SIZE TO BE SYSTEM CC THE EXISTIN
FITTINGS: (BELOW GROUND) UNLESS NOTED OTHERWISE	7.	BEFORE YO
MECHANICAL JOINT, DUCTILE IRON CEMENT LINED WITH RUBBER		NEW YORK
GASKETS AND MECHANICAL JOINT RETAINER GLANDS AWWA C-153, COMPACT		

NTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY PROPOSED SERVICE LATERAL AND PROPOSED WATER SERVICE INSTALLATION AS " VERTICAL SEPARATION BETWEEN SANITARY SERVICE LATERAL AND RVICE.

RACTOR IS ADVISED TO USE A TRENCH SHIELD AND/OR SHORING DESIGNED DANCE WITH OSHA STANDARDS SHALL BE USED IN ALL OPEN TRENCH

RACTOR AND/OR PLUMBER PERFORMING WORK IN A CONFINED SPACE OLES, WET WELLS, CHAMBERS) OWNED BY AN ERIE COUNTY SEWER ECSD #5), MUST CERTIFY TO THE COUNTY THAT THEY HAVE THEIR OWN SPACE ENTRY PROGRAM THAT MEETS OR OSHA'S REGULATIONS. CERTIFICATION MUST BE NOTARIZED BY A NOTARY

OUND UTILITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE FOR'S RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND RIOR TO CONSTRUCTION.

NG UTILITY LINES AND SERVICES LATERALS CROSSING THE NEW WORK PROTECTED.

ED FIRE SPRINKLER SYSTEM TO BE DESIGNED AND BUILT BY SPRINKLER OR AND LOCATED IN THE INTERIOR OF BUILDINGS. WATER MAIN SHOWN TO PLACE IS APPROXIMATE AND SHALL BE FIELD VERIFIED. FIRE SERVICE E COORDINATED WITH SPRINKLER SYSTEM CONTRACTOR. SPRINKLER ONTRACTOR SHALL VERIFY ADEQUATE PRESSURE AND FLOW FROM ING WATER MAIN.

OU DIG, DRILL OR BLAST IN WESTERN NEW YORK, CALL DIG SAFELY (1-800-962-7962.

PROP. 2" WATTS LF 909 M1 QT RPZ

- PIPE SUPPORT BANDS (TYP.)

SET BY ECWA PERSONNEL (HORIZONTAL)

TYPE "K" COPPER

AND SURVE SSO (716) 827-8000   (716) 826-7958 fax WWW.NUSSCIARKE.com				
REGULATOF NOT FOR CO				
WEST HERR TOYOTA BODY SHOP ADDITION 8129 MAIN STREET, CLARENCE, NY	<b>RPZ AND RPDA DETAILS</b>			
REVIS         No.       DESCR	B. CLARKE, INC. REGISTERED TO			
& LAND SURVEYING IN THE STATE OF NEW YORK UNAUTHORIZED ALTERATION OR ADDITION TO THIS ENGINEERING DRAWING IS A VIOLATION OF SECTION 7209. PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW. PROJECT NUMBER 18J5-0040 DATE 11.26.18 DRAWN BY TJB DESIGNED BY TJB CHECKED BY RJP APPROVED BY BLS SCALE: AS NOTED				
	BLS			

# **GENERAL STRUCTURAL NOTES:**

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE IBC 2015 WITH NEW YORK STATE SUPPLEMENT.

2. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AS A COMPLETE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND SEQUENCES OF ALL PHASES OF CONSTRUCTION AND DEMOLITION INCLUDING TEMPORARY SHORING, BRACING, COLD AND HOT-WEATHER PROTECTION, AND FOUNDATION UNDERPINNING. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS THAT PERTAIN TO MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION.

3. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION AND COORDINATED WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE SUCH REQUIREMENTS INTO THEIR WORK.

4. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ARCHITECT OR ENGINEER.

5. CONTRACTOR TO COORDINATE ALL OPENINGS, EQUIPMENT LOCATIONS, AND INSERTS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE TRADES THAT REQUIRE THEM. PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE NOT PERMITTED EXCEPT AS DETAILED.

6. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, ALL DIMENSIONS TO THE EXISTING STRUCTURE AND ALL STRUCTURAL SIZES AND DEPICTIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

7. WHERE DEMOLITION OR OTHER MODIFICATIONS TO THE EXISTING STRUCTURE ARE REQUIRED, THE CUTTING, DRILLING, AND REMOVALS SHALL OCCUR IN A MANNER WHICH WILL PREVENT DAMAGE TO ADJOINING CONSTRUCTION WHICH IS TO REMAIN. UNLESS OTHERWISE INDICATED, provide New Materials to Match the appearance and performance of existing CORRESPONDING MATERIALS WHERE DEMOLITION OCCURS.

8. STRUCTURAL MEMBERS MARKED (EX) ARE EXISTING AND ARE TO BE VERIFIED IN THE FIELD.

9. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND SIGNED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE ARCHITECT AND ENGINEER. REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR THE PREPARATION OF SHOP DRAWINGS. MANUFACTURED COMPONENTS SHALL BE SIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER PRIOR TO SUBMISSION.

10. ALL SHOP DRAWINGS SHALL INCORPORATE ACTUAL EXISTING CONDITIONS WHERE THE NEW CONSTRUCTION ADJOINS THE EXISTING STRUCTURE. THE EXISTING STRUCTURE IS TO BE EXPOSED AS NEEDED TO VERIFY THAT THE EXISTING STRUCTURE MATCHES THE DESIGN INTENT. THE ARCHITECT IS TO BE NOTIFIED WHEN THE EXISTING CONDITIONS DO NOT MATCH THE DESIGN INTENT OR WHEN THE EXISTING CONDITIONS NECESSITATE A CHANGE TO THE DESIGN.

# **FOUNDATIONS:**

1. SOIL BEARING SURFACES SHALL BE DRY AND FREE FROM FROST OR LOOSE MATERIAL. existing soil to be removed and replaced as recommended by the geotechnical ENGINEER, ALL SOIL BEARING SURFACES AND BACKFILL SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER APPROVED TESTING AGENT.

2. CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING BELOW GRADE UTILITIES PRIOR TO CONSTRUCTION.

3. CONTRACTOR TO PROVIDE TEMPORARY PROTECTION AS REQUIRED FOR FOUNDATIONS EXPOSED TO WATER OR FREEZING.

4. ALL FILL PLACED UNDER AND AROUND FOOTINGS, SLABS, AND FOUNDATION WALLS SHALL BE GRANULAR MATERIAL SIMILAR TO NYSDOT ITEM 304.12 TYPE 2 SUBBASE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD. THE DEPTH AND EXTENT OF FILL PLACEMENT SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

5. ALL PIPING SLEEVES THROUGH FOUNDATION WALLS AND FOOTING STEPS TO ACCOMMODATE PIPING SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR/DRAWINGS.

6. BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 4–0" BELOW GRADE EXCEPT WHERE FIELD CONDITIONS REQUIRE AN ADJUSTMENT. 7. REFERENCE ARCHITECTURAL AND PLUMBING PLANS FOR SLOPED FLOOR SLABS. ALL SLABS

to Maintain full thickness. 8. BACKFILLING OF FOUNDATION WALLS IS NOT BEGIN UNLESS WALLS ARE ADEQUATELY BRACED OR FILLING IS BALANCED.

9. JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE LOCATED SO THAT NO SINGLE POUR IS LONGER THAN 40 FEET. A JOINT SHALL BE LOCATED WITHIN 3'-0" FROM ANY CORNER. 10. PROVIDE CONTROL JOINT FOR ALL SLABS-ON-GRADE AT COLUMN CENTERLINES AND AT A MAXIMUM OF 12'0" O.C., UNLESS SHOWN OTHERWISE ON PLANS.

# CONCRETE:

1. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFOR.M TO ACI 318 AND ACI 301. 2. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:

2.1. FOOTINGS 3,000psi, MAX. W/C RATIO = 0.49

2.2. PIERS, FND. WALLS 3,000psi, MAX. W/C RATIO = 049

2.3. SLAB ON GRADE 3,000psi, MAX. W/C RATIO = 0.50

2.4. ELEVATED SLABS 3,500psi, MAX. W/C RATIO = 0.50 3. LEVELING GROUT SHALL BE NON-SHRINK CONFORMING TO ASTM C1107 WITH A MIN

2–DAY STRENGTH OF 5,000psi.

4. ALL CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE ENTRAINED AIR AS

MAXIMUM AGGREGATE SIZE	AIR CONTENT
2 in.	4% TO 6.5%
1.5 in.	4% TO 7%
1 in	4.5% TO 7%
0.75 in.	4.5% TO 7%

5. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO A5TM A185, AND SHALL BE SUPPLIED IN SHEETS ONLY. THE WELDING OF REINFORCING BARS SHALL CONFORM TO ASTM A706 AND AWS D1.4.

6. THE CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES. CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT PRIOR TO POURING CONCRETE.

7. CLEAR COVER TO REINFORCING SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE 7.1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"

7.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER — 2" #5 AND SMALLER - 1 1/2"

7.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER; SLABS, WALLS - 3/4" ALL OTHER 1 - 1/2"

8. LAP SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 FOR CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.

9. HOOKS AND BENDS IN REINFORCING BARS SHALL CONFORM TO ACI 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS. 10. UNLESS SHOWN OTHERWISE, DOWELS INTO FOUNDATION ELEMENTS SHALL HAVE A STANDARD 90 DEGREE HOOK AND SHALL BE THE SAME SIZE AND QUANTITY PROVIDED IN PIERS AND WALLS

ABOVE THE FOUNDATION. 11. PROVIDE A #4x4'-0"Lg. REBAR IN CONCRETE SLABS ACROSS ALL REENTRANT CORNERS OF RECTANGULAR SLAB OPENINGS AND AROUND THE PERIMETER OF ROUND SLAB OPENINGS.

12. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN ALL WALLS AND FOOTINGS. 13. CONCRETE TESTING SHALL BE AS FOLLOWS:

13.1. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF (ASTM C172).

13.2. OBTAIN: SLUMP (ASTM C143), AIR CONTENT (ASTM C231), TEMPERATURE (ASTM C1064), UNIT WEIGHT; (ASTM C567), COMPRESSION TEST SPECIMENS (ASTM C31) FOR EACH COMPOSITE SAMPLE,

13.3. CAST AND FIELD CURE ONE SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. TEST (1) AT 7 DAYS, (2) AT 28 DAYS AND (1) AT 56 DAYS. 14. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL AND CONCRETE MIX DESIGNS TO THE ARCHITECT FOR REVIE₩ BEFORE CONSTRUCTION.

3	

)1.	
NIMUM	
5 FOLLO₩S:	

<ol> <li>STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC CODE OF STANDARD PRACTICE.</li> <li>STRUCTURAL STEEL GRADES (UNLESS NOTED OTHERWISE):         <ul> <li>A) STRUCTURAL STEEL (W-): ASTM A992, Fy=50ksi</li> <li>B) STRUCTURAL STEEL (L-, C- PLATES): ASTM A36, fy = 36ksi</li> <li>C) STRUCTURAL STEEL (L-, C- PLATES): ASTM A36, fy = 36ksi</li> <li>C) STRUCTURAL STEEL (L-, C- PLATES): ASTM A50, fy=35ksi</li> <li>B) STRUCTURAL STEEL PIPE: ASTM A53 GRADE B, Fy=35ksi</li> <li>E) BOLTS: ASTM A325, PRETENSION (SC WHERE INDICATED)</li> <li>F) ANCHOR RODS: F1554 GRADE 55</li> <li>C) WELDS: E70xx</li> <li>H) GALVANIZING,                 <ul></ul></li></ul></li></ol>	STRUCT	<b>URAL STEEL:</b>
<ul> <li>A) STRUCTURAL STEEL (W-): ASTM A992, Fy=50ksi</li> <li>B) STRUCTURAL STEEL (L-, C- PLATES): ASTM A36, fy = 36ksi</li> <li>C) STRUCTURAL TUBING: ASTM A500, fy=46ksi</li> <li>D) STRUCTURAL STEEL PIPE: ASTM A53 GRADE B, Fy=35ksi</li> <li>E) BOLTS: ASTM A325, PRETENSION (SC WHERE INDICATED)</li> <li>F) ANCHOR RODS: F1554 GRADE 55</li> <li>G) WELDS: E70xx</li> <li>H) GALVANIZING, <ul> <li>i) STRUCTURAL STEEL: ASTM A123</li> <li>ii) BOLTS, FASTENERS, HARDWARE:, ASTM A:53</li> </ul> </li> <li>J) ADHESIVE ANCHORS (BASIS OF DESIGN): <ul> <li>i) HILTI HY150</li> <li>ii) POWERS AC100 PLUS</li> </ul> </li> <li>3. WELDS NOT INDICATED FOR STEEL-TO-STEEL CONNECTIONS SHALL BE AN ALL AROUND FILLET WELD WITH A MINIMUM THROAT THICKNESS PER AISC AND AWS STANDARDS.</li> <li>4. ALL STRUCTURAL STEEL SHALL BE COATED AS INDICATED BELOW. APPLY COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INCLUDING SURFACE PREPARATIONS AND COMPATIBILITY REQUIREMENTS BETWEEN ALL COATINGS. AFTER ERECTION TOUCH UP ALL AREAS WHERE PAINT OR GALVANIZING IS MISSING OR DAMAGED INCLUDING FIELD WELDS. COLOR SHALL BE AS DETERMINED BY THE OWNER OR ARCHITECT.</li> <li>(A) EXTERIOR EXPOSED STEEL. AND LINTELS WITHIN EXTERIOR WALLS TO BE HOT-DIPPED GALVANIZED.</li> <li>(B) ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. STEEL TO RECEIVE FIREPROOFING TO BE UNPRIMED,</li> <li>5. BEAM CONNECTIONS SHALL BE DESIGNED FOR THE LARGEST OF THE FOLLOWING: END REACTIONS SHOW ON THE TABLE "UNIFORM LOAD CONSTANTS" IN THE AISC MANUAL. THE REACTIONS SHOW ON THE PAINS. OR A SERVICE LOAD OF 10k.</li> </ul>		
<ul> <li>WELD WITH A MINIMUM THROAT THICKNESS PER AISC AND AWS STANDARDS.</li> <li>4. ALL STRUCTURAL STEEL SHALL BE COATED AS INDICATED BELOW. APPLY COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INCLUDING SURFACE PREPARATIONS AND COMPATIBILITY REQUIREMENTS BETWEEN ALL COATINGS. AFTER ERECTION TOUCH UP A.LL AREAS WHERE PAINT OR GALVANIZING IS MISSING OR DAMAGED INCLUDING FIELD WELDS. COLOR SHALL BE AS DETERMINED BY THE OWNER OR ARCHITECT.</li> <li>(A) EXTERIOR EXPOSED STEEL. AND LINTELS WITHIN EXTERIOR WALLS TO BE HOT-DIPPED GALVANIZED.</li> <li>(B) ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. STEEL TO RECEIVE FIREPROOFING TO BE UNPRIMED,</li> <li>5. BEAM CONNECTIONS SHALL BE DESIGNED FOR THE LARGEST OF THE FOLLOWING: END REACTIONS COMPUTED FROM THE TABLE "UNIFORM LOAD CONSTANTS" IN THE AISC MANUAL. THE REACTIONS SHOWN ON THE PLANS. OR A SERVICE LOAD OF 10K.</li> </ul>	A) STRUCTUR B) STRUCTUR C) STRUCTUR D) STRUCTUR E) BOLTS: AS F) ANCHOR R G) WELDS: E7 H) GALVANIZI i) ST i) BO J) ADHESIVE i) HIL	AL STEEL ( $W$ -): ASTM A992, Fy=50ksi AL STEEL ( $L$ -, C- PLATES): ASTM A36, fy = 36ksi AL TUBING: ASTM A500, fy=46ksi AL STEEL PIPE: ASTM A53 GRADE B, Fy=35ksi STM A325, PRETENSION (SC WHERE INDICATED) ODS: F1554 GRADE 55 70xx NG, RUCTURAL STEEL: ASTM A123 DLTS, FASTENERS, HARDWARE:, ASTM A:53 : ANCHORS (BASIS OF DESIGN): _TI HY150
<ul> <li>ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INCLUDING SURFACE PREPARATIONS AND COMPATIBILITY REQUIREMENTS BETWEEN ALL COATINGS. AFTER ERECTION TOUCH UP A.LL AREAS WHERE PAINT OR GALVANIZING IS MISSING OR DAMAGED INCLUDING FIELD WELDS. COLOR SHALL BE AS DETERMINED BY THE OWNER OR ARCHITECT.</li> <li>(A) EXTERIOR EXPOSED STEEL. AND LINTELS WITHIN EXTERIOR WALLS TO BE HOT-DIPPED GALVANIZED.</li> <li>(B) ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. STEEL TO RECEIVE FIREPROOFING TO BE UNPRIMED,</li> <li>5. BEAM CONNECTIONS SHALL BE DESIGNED FOR THE LARGEST OF THE FOLLOWING: END REACTIONS COMPUTED FROM THE TABLE "UNIFORM LOAD CONSTANTS" IN THE AISC MANUAL. THE REACTIONS SHOWN ON THE PLANS. OR A SERVICE LOAD OF 10k.</li> </ul>		
<ul> <li>GALVANIZED.</li> <li>(B) ALL OTHER STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. STEEL TO RECEIVE FIREPROOFING TO BE UNPRIMED,</li> <li>5. BEAM CONNECTIONS SHALL BE DESIGNED FOR THE LARGEST OF THE FOLLOWING: END REACTIONS COMPUTED FROM THE TABLE "UNIFORM LOAD CONSTANTS" IN THE AISC MANUAL. THE REACTIONS SHOWN ON THE PLANS. OR A SERVICE LOAD OF 10k.</li> </ul>	ACCORDANCE WITH AND COMPATIBILITY AREAS WHERE PAIN	MANUFACTURERS RECOMMENDATIONS, INCLUDING SURFACE PREPARATIONS REQUIREMENTS BETWEEN ALL COATINGS. AFTER ERECTION TOUCH UP A.LL T OR GALVANIZING IS MISSING OR DAMAGED INCLUDING FIELD WELDS. COLOR
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	REACTIONS COMPUT	ED FROM THE TABLE "UNIFORM LOAD CONSTANTS" IN THE AISC MANUAL.
THE MEMBERS IN QUESTION, UNLESS SPECIFICALLY DETAILED OTHERWISE.		NECTIONS SHALL BE DESIGNED TO TRANSFER THE FULL DESIGN STRENGTH OF UESTION, UNLESS SPECIFICALLY DETAILED OTHERWISE.
7. ALL CONNECTIONS AND DETAILS NOT SPECIFICALLY INDICATED ON THE DRAWINGS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER.	7. ALL CONNECTION SUBJECT TO REVIEW	IS AND DETAILS NOT SPECIFICALLY INDICATED ON THE DRAWINGS ARE ( AND APPROVAL BY THE ARCHITECT AND ENGINEER.

8. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL FOR REVIEW PRIOR TO CONSTRUCTION.

# **STEEL DECK:**

1. STEEL DECK CONSTRUCTION SHALL CONFORM TO THE. LATEST MANUAL OF CONSTRUCTION AND CODE OF STANDARD PRACTICE FOR STEEL DECK, PUBLISHED BY THE STEEL DECK INSTITUTE. 2. STEEL DECK SHALL BE CONTINUOUS OVER 3 OR MORE SPANS UNLESS NOTED OTHERWISE. 3. PERMANENT STEEL FORM DECK FASTENING SHALL CONFORM TO THE SDI RECOMMENDATIONS FOR FASTENING TO SUPPORTING MEMBERS. PERMANENT STEEL FORM DECKSHALL HAVE A galvanized finish,

4. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL DECK OPENINGS REQUIRED FOR PENETRATIONS AND SHALL PROVIDE SUMP PANS OR ADDITIONAL FRAMING AS REQUIRED. HOLES SHALL BE CUT NEATLY WITH A MAXIMUM SIZE OF PIPE OR DUCT DIMENSION PLUS 1". A STEEL FRAMING ASSEMBLY IS REQUIRED AT ALL OPENINGS EXCEEDING 6". 5. STEEL FLOOR DECK SHALL BE GALVANIZED (G60). ROOF DECK GALVANIZED (G90).

6. PROVIDE METAL CLOSURE STRIPS FOR CELL RACEWAYS AND OPENINGS BETWEEN DECKING AND OTHER CONSTRUCTION OF NOT LESS THAN 16GA. SHEET STEEL AT OPEN ENDS AND SIDES OF DECKING.

7. SUBMIT SHOP DRAWINGS FOR STEEL DECK FOR REVIEW PRIOR TO CONSTRUCTION.

# **DESIGN LOADS:**

1. LIVE LOAD: GROUND FLOOR = 100 PSF, CONCETRATED LOAD FOR GARAGE

•	SNOW	/ L0.	ADS:
	Pg	=	50psf
	Pf	=	35psf
	I	=	1.0
•	WIND LOA	DS:	
	Vult	=	115mph
	lŵ	=	1.0

EXPOSURE = B

<u>SEISMIC</u>

SEISMIC USE GROUP "II" - SEISMIC DESIGN CATEGORY "A" SDS = 0.142qSD1 = 0.041q

SITE CLASS "B"

BASIC SEISMIC FORCE RESISTING SYSTEM = MOMENT FRAMES R=3.0 ORDINARY REINFORCED MASONRY SHEAR WALLS R=2.0 DESIGN BASE SHEAR = 25kANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE le = 1.00

# **SPECIAL INSPECTIONS:**

1. SPECIAL INSPECTIONS SHALL CONFORM TO THE LATEST CODE 2. SPECIAL INSPECTIONS AND TESTING REQUIREMENTS INDICATED IN THIS SECTION ARE THE OWNER'S RESPONSIBILITY, OWNER WILL ENGAGE QUALIFIED SPECIAL INSPECTORS AND TESTING AGENCIES TO PERFORM THESE SERVICES.

# **MASONRY:**

1. CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 530.

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, MOISTURE CONTROLLED UNITS WITH F'm = 2,000psi.

3. PROVIDE (1) NO. 5 BAR ON EACH SIDE OF OPENINGS IN FULLY GROUTED CELLS

4. MORTAR SHALL BE TYPE M OR S AND SHALL CONFORM TO ASTM CC70.

5. HORIZONTAL JOINT REINFORCING: 9ga, ASTM A82, GALVANIZED LADDER-TYPE SHALL BE PROVIDED AT 16" O.C. UNLESS NOTED OTHERWISE.

6. CONCRETE MASONRY WALLS SHALL HAVE CONTROL JOINTS SPACED NO FURTHER THAN 25'-O" APART IN CONTINUOUS EXTERIOR AND INTERIOR WALLS.

7. GROUT FOR FILLING BLOCK CORES SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000psi AT 28 DAYS. GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 7 COURSES IN HEIGHT UNLESS OTHERWISE APPROVED BY THE ENGINEER. 8. FULL HEAD AND BED JOINTS SHALL BE PROVIDED.

9. COORDINATE LOCATION OF ALL MASONRY WALLS, PARTITIONS AND OPENINGS WITH

ARCHITECTURAL DRAWINGS. 10.LAP SPLICES IN VERTICAL REINFORCING FOR CONCRETE BLOCK MASONRY WALLS AND PILASTERS SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

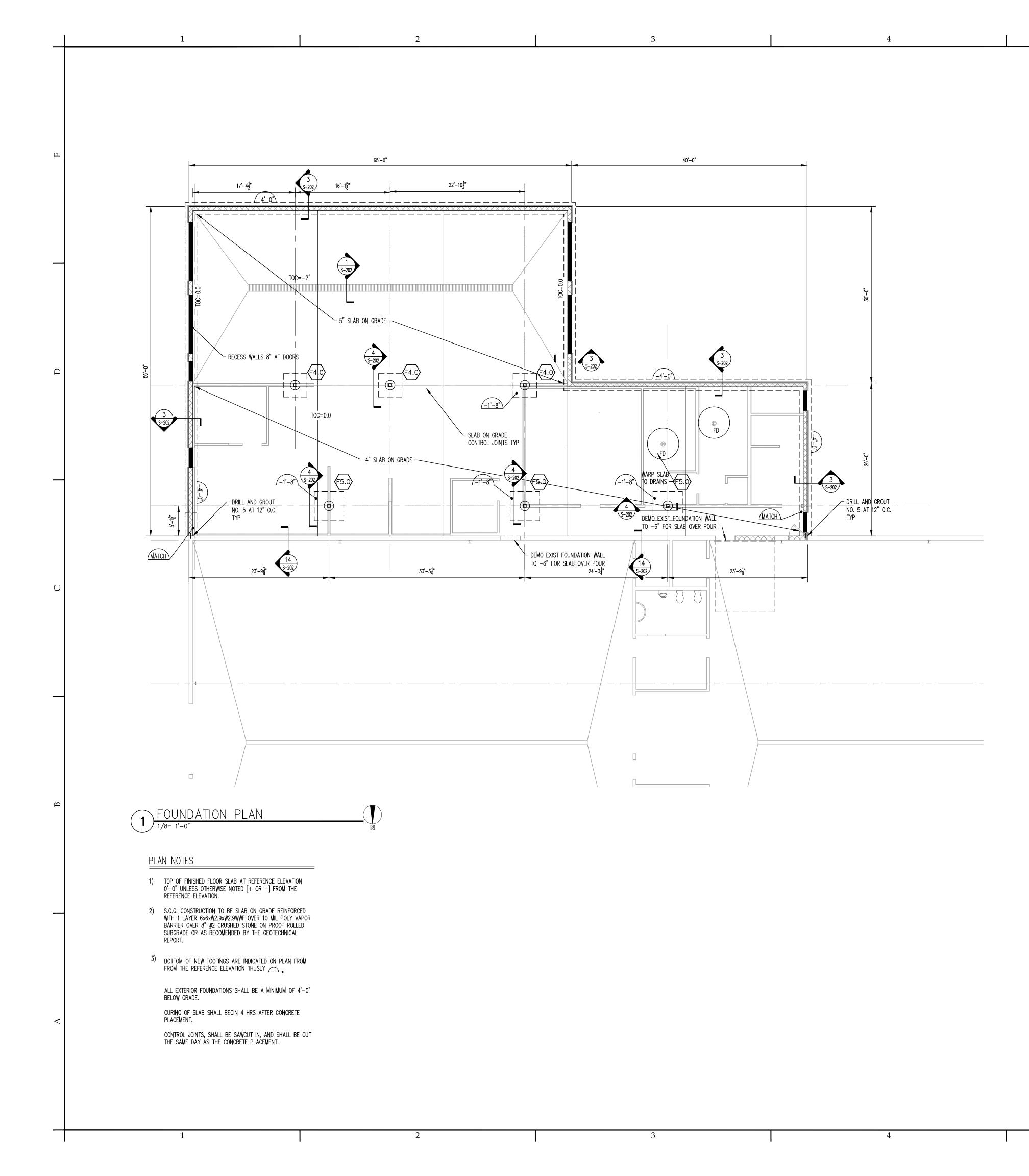
11. ALL LINTELS AT MASONRY OPENINGS SHALL HAVE 4" MIN. OR 1" FOR EACH FOOT OF SPAN OF BEARING AT EACH END. ALL EXTERIOR LINTELS SHALL BE HOT DIPPED GALVANIZED. 12. REFERENCE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR CONTROL JOINT LOCATION REQUIREMENTS. ALL BOND BEAM REINFORCEMENT TO BE CONTINUOUS AT CONTROL

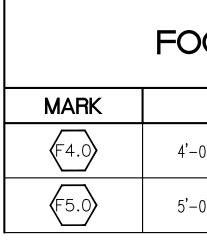
JOINT LOCATIONS. SCORE BOND BEAM SHELL 3/8" EACH SIDE AT CONTROL JOINTS. 13. MASONRY COURSING INDICATED ON THE STRUCTURAL DRAWINGS IS APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL COURSING LAYOUT.

14. REINFORCING STEEL SHALL BE IN PLACE AND SECURE PRIOR TO PLACING GROUT. 15. ALL MASONRY CELLS BELOW GRADE SHALL BE GROUTED SOLID.

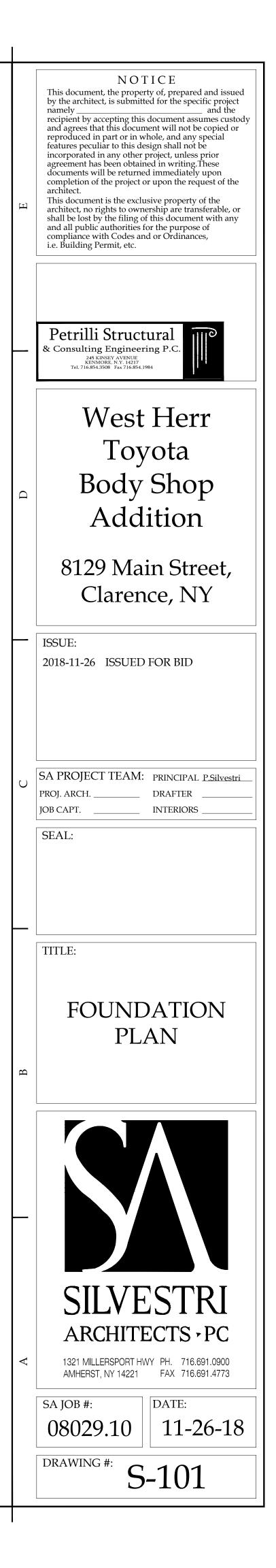
16. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL, GROUT AND MORTAR MIX DESIGNS, AND CMU PRODUCT DATA TO THE ARCHITECT FOR REVIEW BEFORE CONSTRUCTION.

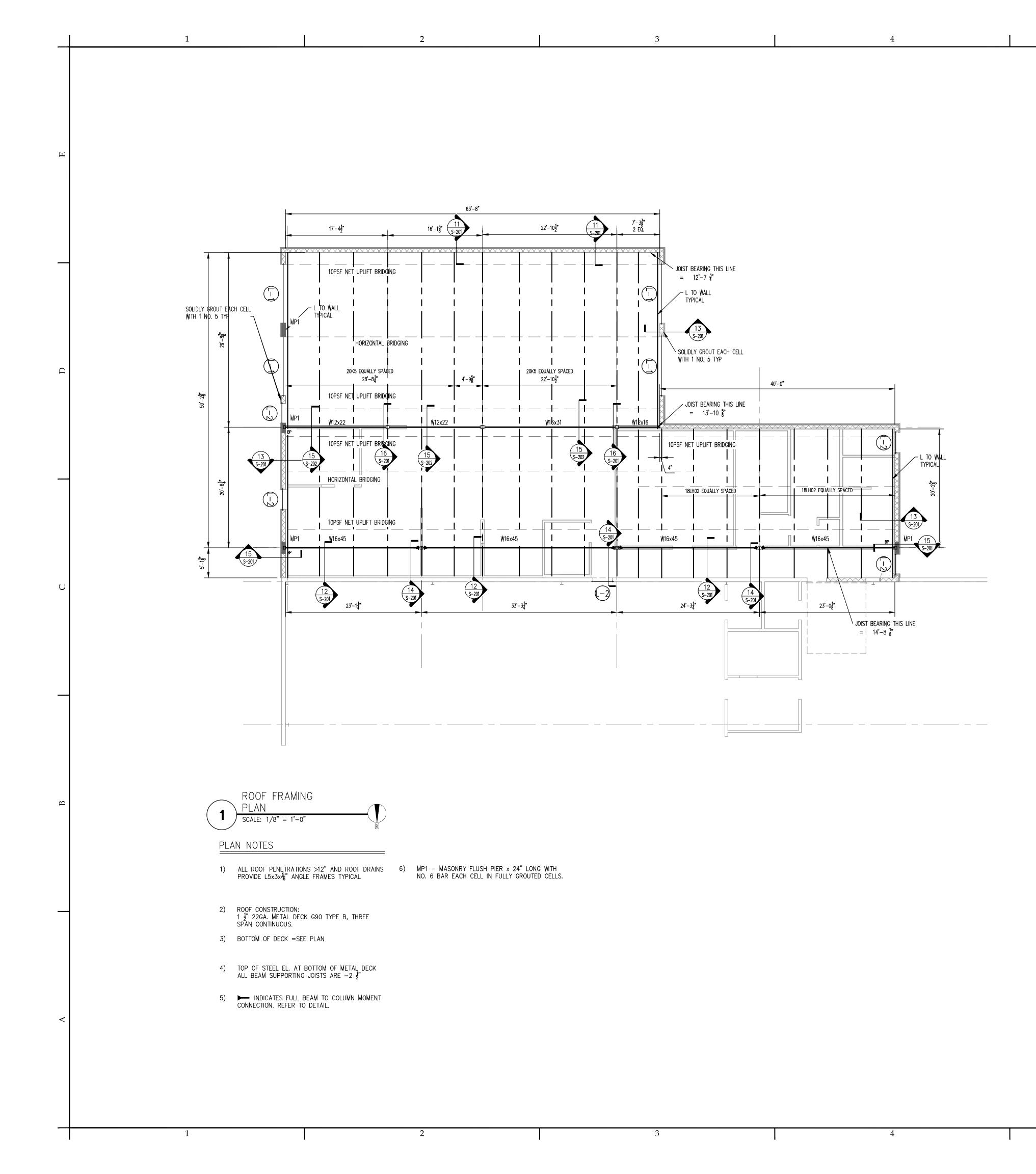
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	<ul> <li>Petrilli Structural &amp; Consulting Engineering P.C. Description of the second seco</li></ul>
	<ul> <li>→ ISSUE: 2018-11-26 ISSUED FOR BID</li> <li>→ SA PROJECT TEAM: PRINCIPAL P.Silvestri PROJ. ARCH DRAFTER JOB CAPT INTERIORS</li> <li>&gt; SEAL:</li> </ul>
6	<ul> <li>SILVESTRI SILVESTRI ARCHITECTS - PC</li> <li>1321 MILLERSPORT HWY PH. 716.691.0900 AMHERST, NY 14221 FAX 716.691.4773</li> <li>SA JOB #: 08029.100</li> <li>DATE: 11-26-18</li> <li>DRAWING #: S-100</li> </ul>





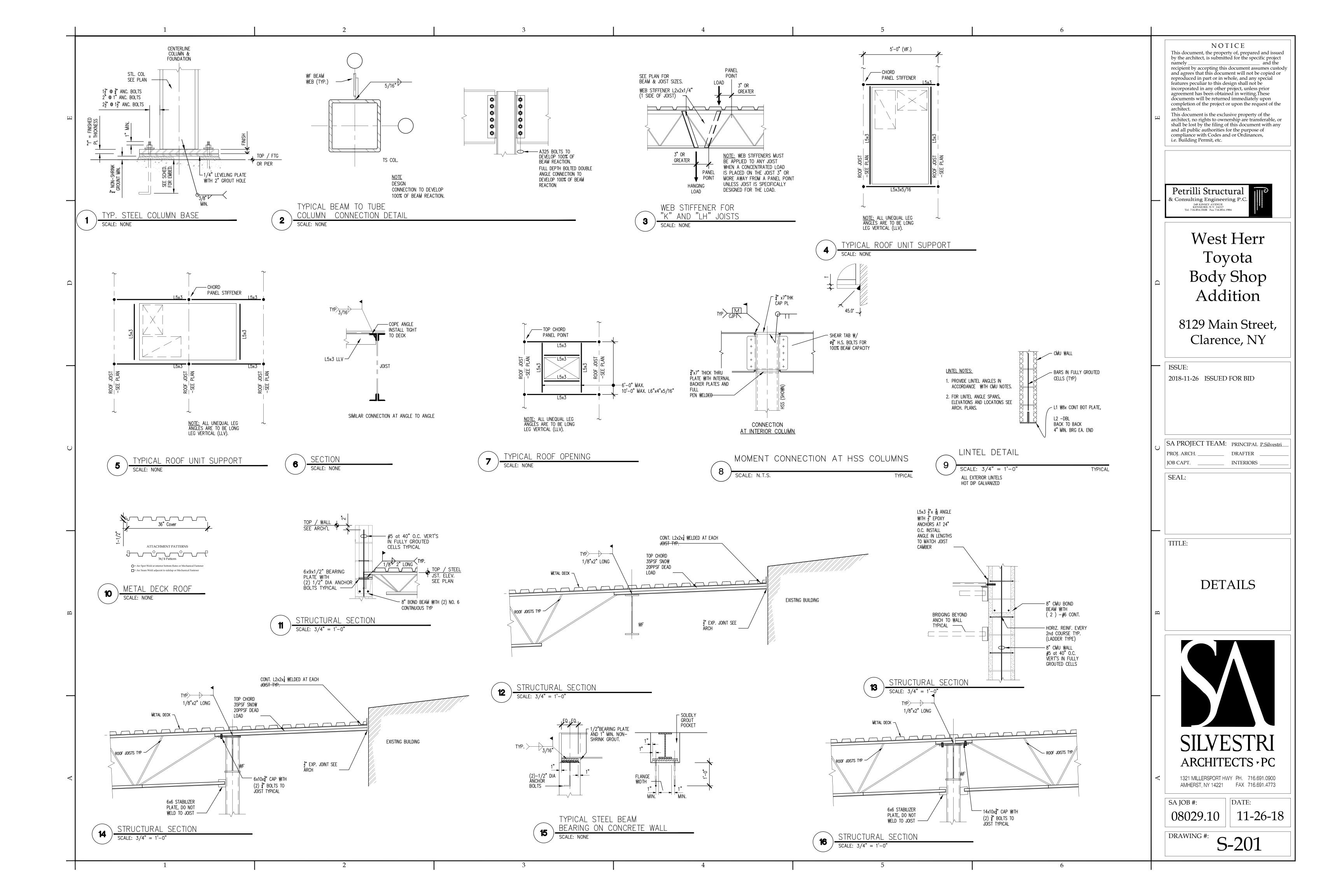
OTING SCHEDULE		
SIZE	REINFORCING	
0"x4'-0"x1'-0"	#4 BARS © 10" O.C. E.₩.	
0"x5'-0"x1'-0"	#5 BARS @ 10" O.C. E.W., TOP/BOT.	

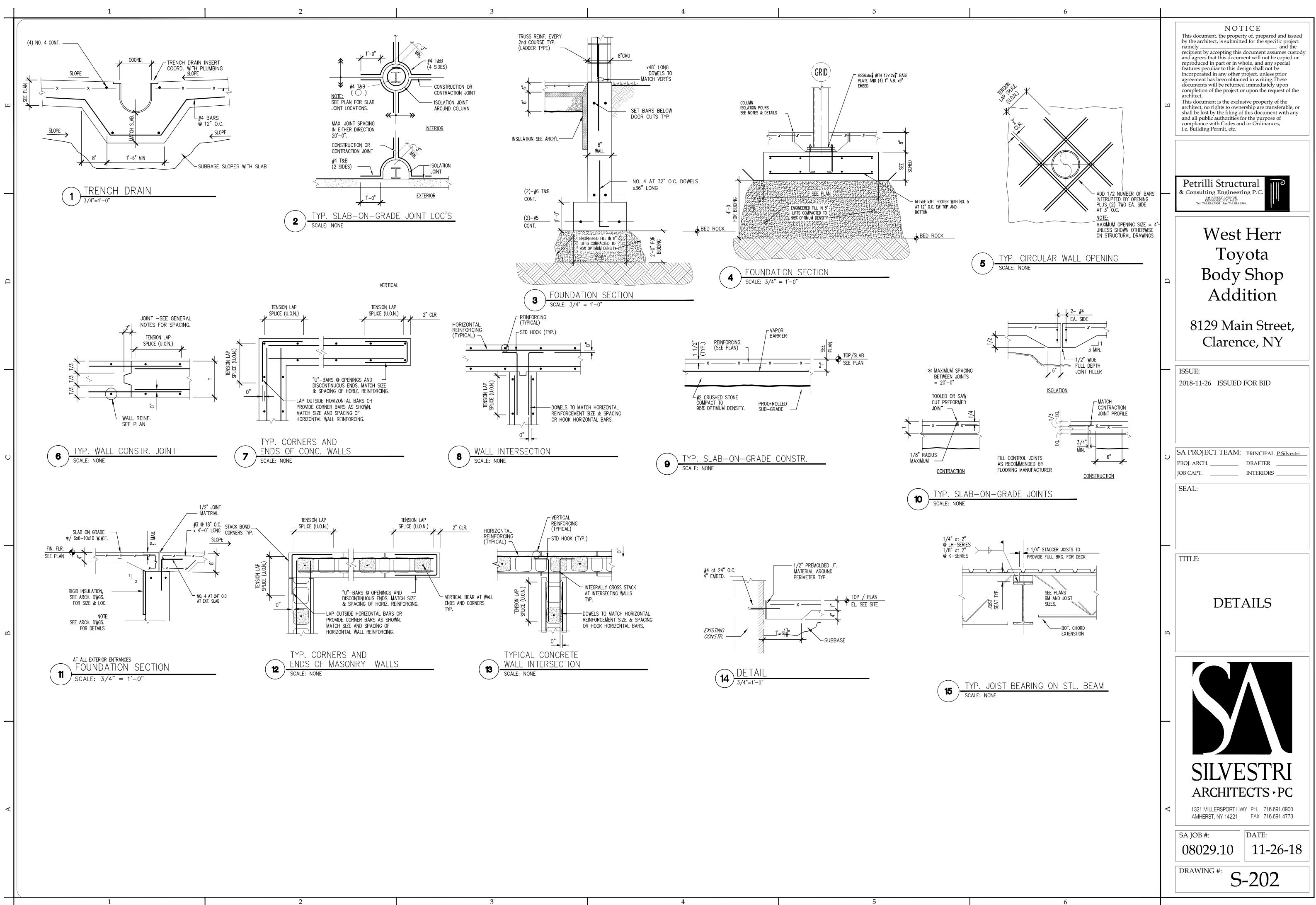




	Masonry Lintel Schedule			
MARK	M.O.	LENGTH	LINTEL	COMMENTS
L1	10'-0"	11'-4"	W8x18 W/ CONT. 3/8" x7 1/4" PL.	STITCH WELDED
L2	3'-4"	<b>4'</b> -0"	」L 3 1/2"x3 1/2"x5/16"	STITCH WELDED
LINTEL NOTES: 1.) ALL EXTERIOR LINTELS HOT DIP GALVANIZED (G–90) TYPICAL				
2.) WF LINTELS SUPPORTING MASONRY SHALL HAVE #4 REBAR x24" LONG AT 32" O.C. WELDED TO THE TOP FLANGE.				

Ε	NOTICE         This document, the property of, prepared and issued by the architect, is submitted for the specific project namely and the recipient by accepting this document assumes custody and agrees that this document will not be copied or reproduced in part or in whole, and any special features peculiar to this design shall not be incorporated in any other project, unless prior agreement has been obtained in writing. These documents will be returned immediately upon completion of the project or upon the request of the architect.         This document is the exclusive property of the architect, no rights to ownership are transferable, or shall be lost by the filing of this document with any and all public authorities for the purpose of compliance with Codes and or Ordinances, i.e. Building Permit, etc.         Petrilli Structural
	& Consulting Engineering P.C. 245 KINSEY AVENUE KENMORE, N.Y. 14217 Tel. 716.854.3508 Fax 716.854.1984
D	West Herr Toyota Body Shop Addition 8129 Main Street, Clarence, NY
_	ISSUE:
C	2018-11-26 ISSUED FOR BID          SA PROJECT TEAM:       PRINCIPAL P.Silvestri         PROJ. ARCH.       DRAFTER         JOB CAPT.       INTERIORS         SEAL:
	TITLE:
В	ROOF FRAMING PLAN
Α	SA JOB #: 08029.10 DRAWING #: 08020 DRAWING #:
Α	ARCHITECTS - PC         1321 MILLERSPORT HWY PH. 716.691.0900         AMHERST, NY 14221         FAX 716.691.0900         AMHERST, NY 14221         FAX 716.691.4773         DATE:         08029.10         DATE:         DRAWING #:





# GENERAL NOTES

- . DO NOT SCALE DRAWINGS.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE NEW YORK STATE BUILDING CODES, OSHA STANDARDS AND FIRE SAFETY CODE / RELEVANT SECTIONS OF THE N.F.P.A. & ANY LOCAL CODES BEING MORE RESTRICTIVE THAN THE MINIMUMS LISTED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES AND CRAFTSMANSHIP ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES OCCUR BETWEEN DRAWINGS AND EXISTING CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE PROJECT SITE IN ORDER TO DETERMINE THE EXTENT OF THE REOUIRED WORK. THIS INSPECTION SHALL BE COMPLETED PRIOR TO THE SUBMISSION OF ANY PROPOSAL TO COMPLETE THIS PROJECT. INSPECTION TIMES SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL INFORMATION ON THE DRAWINGS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF THE RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF THE WORK. THESE DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL BID & PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS.
- ALL DIMENSIONS SHOWN FOR EXISTING STRUCTURES ARE BASED ON RECORD DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR IS ADVISED THAT SAID DRAWINGS MAY NOT ACCURATELY REFLECT AS BUILT CONDITIONS. ACCURATE FIELD MEASUREMENTS SHOULD BE MADE PRIOR TO ORDERING ANY PREFABRICATED MATERIALS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND SHALL BE REFLECTED ON THE CONTRACTORS SHOP DRAWINGS.
- THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR THIS PROJECT WILL BE COMPLETED TO THE SCOPE OF THE PROJECT IN COMPLIANCE WITH THE OWNER AND DESIGN TEAM. ANY CHANGES TO THESE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS WILL ONLY BE DONE BY A CHANGE ORDER THAT IS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS AS TO THE AMOUNT AND / OR SCOPE OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS, AND CONDITIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK.
- ALL OWNER SUPPLIED ITEMS WILL BE COORDINATED WITHIN THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULES PRIOR TO COMMENCEMENT OF ANY WORK.
- 1. THE CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE WITH THE OWNER FOR ALL BUILDING AND CONSTRUCTION SIGNAGE.
- $\cup$ 12. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF HIS WORK AND SCHEDULE WITH WORK BEING PERFORMED BY OTHERS AND THE USER/OWNER OF THE BUILDING.
- 13. ALL DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR MASONRY, CENTERLINE OF COLUMNS AND BEAMS, AND FINISH TO FINISH, UNLESS OTHERWISE NOTED.
- 14. THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING WITH SAID WORK.
- 15. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 16. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SOME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- 7. CONTRACTOR SHALL VERIFY AND ESTABLISH THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WITHIN THE WORK AREA, AND SHALL COORDINATE WITH THE OWNER AND THE UTILITY COMPANIES PRIOR TO THE START OF THE PROJECT.
- 18. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING REQUIRED TO ADEQUATELY PROTECT PERSONAL AND ADJACENT PROPERTY AND TO INSURE SAFETY OF THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.
- 19. ALL CEILING HEIGHTS AS SHOWN ON DETAILS OR PLANS OR NOTES ARE FROM TOP OF CONCRETE DECK TO FINISH CEILING. USE 40. CONTRACTOR TO PROTECT ALL NEW WORK DURING OF THE TERM ABOVE FINISH FLOOR (A.F.F.) MEANS MEASURED FROM THE TOP OF CONCRETE DECK. CONTRACTOR SHALL ALLOW FOR AND COORDINATE WORK WITH FLOOR FINISH MATERIAL AND INSTALLATION METHOD.
- 20. PROVIDE INDEPENDENT SUSPENSION FOR ALL LIGHT FIXTURES. SUSPENSION FOR CEILING AND LIGHT FIXTURES SHALL BE INDEPENDENT OF SUSPENSION FOR DUCT WORK.
- 21. ALL EQUIPMENT AND MATERIALS INSTALLED IN THIS JOB SHALL BE NEW AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED.
- 22. CONTRACTORS SHALL RECORD ALL DEVIATIONS FROM THE DESIGN DOCUMENTS IN THE DRAWINGS, AND PROVIDE A COPY TO THE ARCHITECT UPON THE COMPLETION OF WORK.
- 23. PROVIDE APPROVED SEPARATION BY MEANS OF COATINGS, GASKETS, OR OTHER EFFECTIVE MEANS TO PREVENT GALVANIC CORROSION BETWEEN ALL DISSIMILAR METALS.
- 24. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS OF THIS PROJECT TO ADJACENT PROPERTY, UTILITIES, PAVEMENT, LANDSCAPING, STRUCTURES OR IMPROVEMENTS OF ANY KIND. THE GENERAL CONTRACTOR SHALL REPAIR ALL SUCH DAMAGE D ITEMS TO THE CONDITION THEY WERE IN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES OR BETTER.
- 25. WHERE IT IS NECESSARY TO INSURE STABILITY, CONTRACTOR IS TO PROVIDE ADDITIONAL ANCHORING AND/OR BLOCKING IN STUD

PARTITIONS OR BRACE PARTITIONS ABOVE CEILINGS.

- 26. CONTRACTOR TO COORDINATE LOCATIONS OF FLOOR DRAINS WITH PLUMBING CONTRACTOR.
- 27. CONTRACTOR TO COORDINATE SIZE OF LOCATION OF DEPRESSED SLAP AND TRENCH DRAIN REQUIRED FOR WASHING MACHINES PER MANUFACTURERS AND OWNERS SPECIFICATIONS AT LAUNDRY 110.
- 28. AUTOMATIC SPRINKLER PROTECTION IS REQUIRED. AUTOMATIC SPRINKLER TO BE CONFIGURED AS REQUIRED FOR NEW CONSTRUCTION. CONTRACTOR TO PROVIDE LAYOUT AND THE MINIMUM REQUIREMENTS FOR THE DESIGN AND INSTALLATION OF AUTOMATIC FIRE SPRINKLER SYSTEM AND EXPOSURE PROTECTION SPRINKLER SYSTEMS, INCLUDING THE CHARACTER AND ADEQUACY OF WATER SUPPLIES AND THE SELECTION OF SPRINKLERS, PIPING, VALVES AND ALL OTHER MATERIALS AND ACCESSORIES IN ACCORDANCE WITH NFPA 13 AND LOCAL BUILDING CODES.
- 29. ROOM IDENTIFICATION AND INTERIOR SIGNAGE BY OWNER, SIGNAGE SHALL COMPLY WITH ADA REQUIREMENTS.
- 30. CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS PER CODE, INCLUDING NFPA 10, AND AS DIRECTED BY THE LOCAL FIRE DEPARTMENT THROUGHOUT BUILDING. FIRE EXTINGUISHER CABINETS SHALL NOT PROJECT MORE THAN 4" BEYOND THE FACE OF THE WALL RECESSED FIRE EXTINGUISHER CABINETS IN FIRE RATED WALLS SHALL HAVE THE SAME FIRE RATING AS THE WALL.
- 31. DIMENSIONS TO EXTERIOR WALLS ARE ASSUMED FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED. ALL INTERIOR. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FINISHED WALL. ALL EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, UNLESS OTHERWISE NOTED.
- 32. BEFORE SUBMITTING BID, EXAMINE ALL DRAWINGS RELATED TO THE WORK, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK OF ALL TRADES AND ITS RELATION TO THE WORK UNDER THE CONTRACT. NO CONSIDERATIONS WILL BE GIVEN FOR ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR THE WORK TO BE DONE.
- 33. CONTRACTOR SHALL REVIEW AND SUBMIT SHOP DRAWINGS SUFFICIENTLY IN ADVANCE OF THE WORK TO ALLOW PROPER TIME FOR REVIEW. MATERIALS SHALL NOT BE FABRICATED OR DELIVERED TO THE SITE BEFORE THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- 34. ALL SUBSTITUTE MANUFACTURERS, EQUIPMENT, MATERIALS AND PRODUCTS SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE. THE CONTRACTORS IS RESPONSIBLE FOR ALI ASSOCIATED COSTS TO ANY AND ALL BUILDING COMPONENTS THAT ARE AFFECTED BY THE SUBSTITUTIONS. ADDITIONAL COSTS INCLUDE ANY REDESIGN THAT IS REQUIRED DUE TO THE SUBSTITUTION.
- 35. DO NOT SCALE DRAWINGS, THE DIMENSIONS SHOWN ON THE PLANS MAY VARY FROM THE ACTUAL DIMENSIONS IN THE FIELD. IT IS, THEREFORE, IMPERATIVE THAT THE CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK, TAKE EXACT MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND SHOP DRAWINGS. ALL WORKING DRAWINGS PREPARED BY THE CONTRACTOR SHALL INCLUDE A STATEMENT CERTIFYING THAT THOSE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FIELD MEASURED DIMENSIONS.
- 36. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH THE DOCUMENTS. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE AND COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER. RECOMMENDED BY MANUFACTURER.
- 37. THE LOCATION FOR ALL ITEMS WHEN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE DIAGRAMMATIC. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE PROJECT AND SHALL HAVE THE APPROVAL OF THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL FURNISH AND INSTALL, WITHOUT ADDITIONAL REMUNERATION, ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEMS IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- 38. DATA, COMMUNICATION, CABLE, AND SECURITY SYSTEMS ARE PROVIDED BY THE OWNER'S VENDORS. HOWEVER THE ELECTRICAL CONTRACTOR SHALL PROVIDE APPROPRIATE WALL BOXES. CONDUIT WITH PULL STRINGS, ETC. AS REQUIRED FOR ROUGH-IN CONDITIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION OF THESE ITEMS WITH THE OWNER'S VENDORS. ADAAG COMPLIANCE SHALL APPLY.
- 39. MECHANICAL, ELECTRICAL, AND PLUMBING, ARE SCHEMATIC IN NATURE. THEREFORE, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE ROUTING OF THESE TRADES, AS WELL AS, THE OWNER'S WORK TO ASSURE THAT THESE SYSTEMS DO NOT CONFLICT WITH THE ARCHITECTURAL AND STRUCTURAL ELEMENTS OF THE BUILDING. IF THE GENERAL CONTRACTOR ROUTE THESE ITEMS TO AVOID A CONFLICT, THEN THEY SHALL NOTIFY THE ARCHITECT PRIOR TO STARTING ANY RELATED WORK.
- CONSTRUCTION AND REPLACE DAMAGED MATERIAL IN KIND.
- 41. ALL GYPSUM WALL BOARD TO BE TAPED AND SANDED AT INTERSECTION OF CONSTRUCTION (NO. "J" MOLD)
- 42. PROVIDE CORNER BEAD AT ALL EXPOSED GYPSUM WALL BOARD CORNERS.
- 43. DOOR OPENINGS SHALL BE LOCATED 4" FROM THE NEAREST FACE OF WALL IN MASONRY WALL CONSTRUCTION, UNLESS OTHERWISE NOTED
- 44. CONTRACTOR SHALL PROVIDE ALL MATERIALS, FABRICATION. LABOR AND SUPERVISION, ERECTION EQUIPMENT AND APPLIANCES REQUIRED TO INSTALL ALL EQUIPMENT SHOWN ON DRAWINGS AS INDICATED IN THE SPECIFICATIONS.
- 45. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND PRODUCTS," UNLESS OTHERWISE NOTED.
- 46. CONTRACTOR SHALL COORDINATE HER/HIS WORK WITH THE OWNER SO THAT THERE IS NO INTERFERENCE WITH OWNER'S PERSONAL OR WORK SCHEDULE.
- 47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACT.

- STRUCTURE

48. SAVE WORKING CONDITIONS ARE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND/OR THE OWNER SHALL BE OBSERVED. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. CARE MUST BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR THE

49. CONTRACTOR SHALL REMOVE ALL PROPERLY DISPOSE OF ALL DEBRIS FROM SITE AND LEAVE THE WORK AREA BROOM CLEAN ON A DAILY BASIS AND PROVIDE DUMPSTER SERVICE. PLACE DUMPSTERS AS DIRECTED BY THE "OWNER'S REPRESENTATIVE"

50. CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, HOISTING EQUIPMENT AND ANY OTHER EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.

51. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO • INSURE AGAINST DAMAGE TO EXISTING WORK TO REMAIN IN PLACE. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.

52. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS AND APPROVALS NECESSARY FOR THE COMPLETION OF THE PROJECT

53. ALL NEW MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LATEST WRITTEN INSTRUCTIONS AND SPECIFICATIONS.

54. THE CONTRACTOR SHALL COORDINATE ALL FINISHES AND COLOR SELECTIONS WITH THE OWNER.

55. ALL FASTENERS INTO PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL AS RECOMMENDED BY MANUFACTURER

ARE NOT ALLOWED.

 RECESSED WALL FIXTURES SUCH AS CABINETS, OUTLETS, AND OTHER ITEMS WHICH PENETRATE THE GYPSUM BOARD SURFACE SHOULD NOT BE LOCATED BACK TO BACK IN THE SAME STUD CAVITY.

ANY OPENINGS CUT FOR ANY FIXTURES SHALL BE CAREFULLY CUT AND PROPERLY CAULKED.

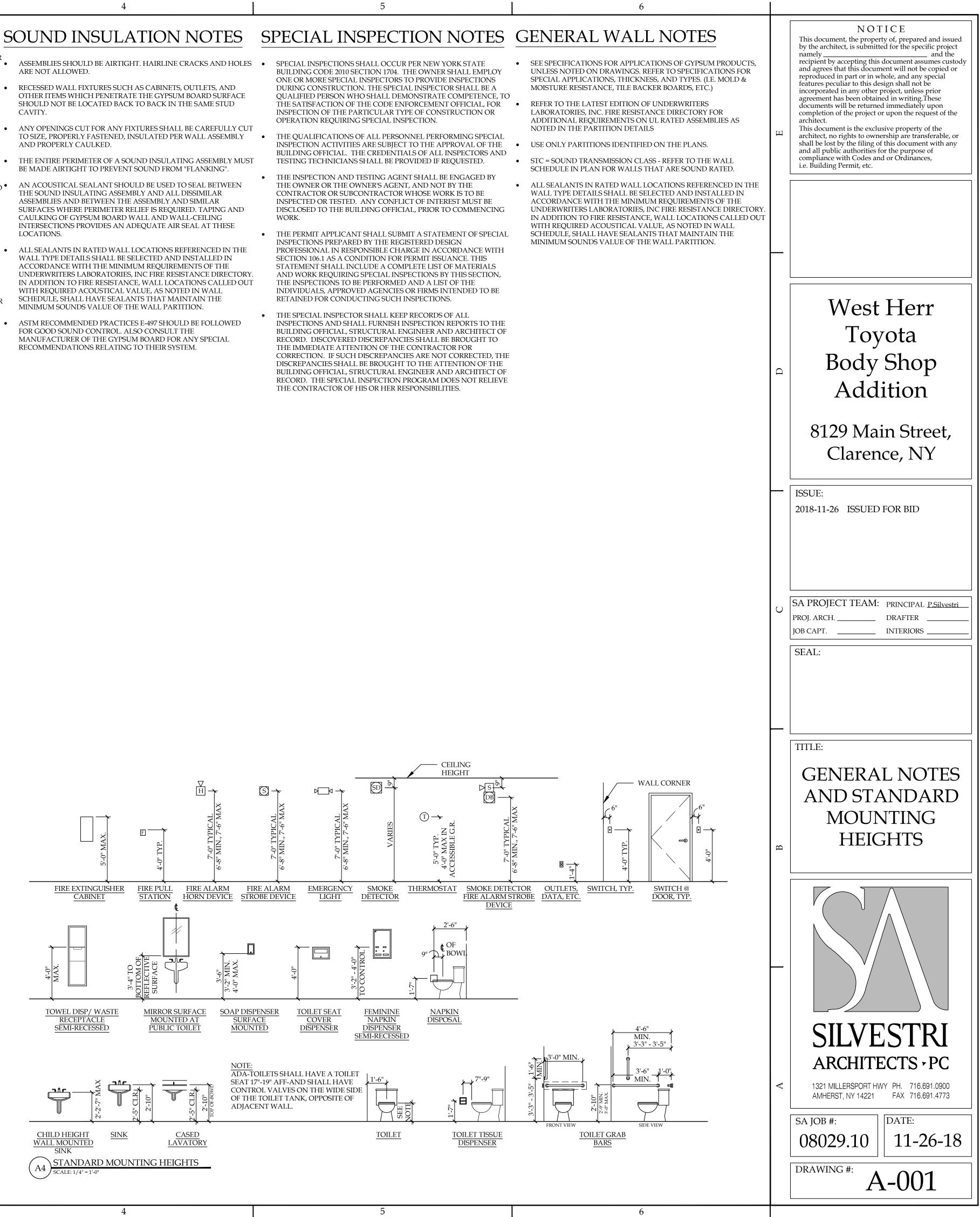
THE ENTIRE PERIMETER OF A SOUND INSULATING ASSEMBLY MUST BE MADE AIRTIGHT TO PREVENT SOUND FROM "FLANKING".

THE SOUND INSULATING ASSEMBLY AND ALL DISSIMILAR ASSEMBLIES AND BETWEEN THE ASSEMBLY AND SIMILAR SURFACES WHERE PERIMETER RELIEF IS REQUIRED. TAPING AND CAULKING OF GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.

ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.

ASTM RECOMMENDED PRACTICES E-497 SHOULD BE FOLLOWED FOR GOOD SOUND CONTROL. ALSO CONSULT THE MANUFACTURER OF THE GYPSUM BOARD FOR ANY SPECIAL RECOMMENDATIONS RELATING TO THEIR SYSTEM.

- WORK.



# **302 FLOOR SURFACES**

## 302.1 General. Floor surfaces shall be stable, firm, and slip resistant, and shall comply with Section 302. Changes in level in floor surfaces shall comply with

Section 303. 302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The pile shall be 1/2 inch maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge

302.3 Openings. Openings in floor surfaces shall be of a size that does not permit the age of a <sup>1</sup>/<sub>2</sub> inch diameter sphere, except as allowed in Sections 407.4.3, 408.4.3, 409.4.3, 410.4, and 805.10. Elongated openings shall be placed so that the long dimension is perpendicular to the predominant direction of travel.

# 303 CHANGES IN LEVEL

303.1 General. Changes in level in floor surfaces shall comply with Section 303. 303.2 Vertical. Changes in level of 1/4 inch maximum in height shall be permitted to be vertical. 303.3 Beveled. Changes in level greater than 1/4 inch in height and not more than 1/2 inch maximum in height shall be beveled with a slope not steeper than 1:2.

303.4 Ramps. Changes in level greater than 1/2 inch in height shall be ramped and shall comply with Section 405 or 406.

## 304 TURNING SPACE 304.1 General. A turning space shall comply with Section 304.

304.2 Floor Surface, Floor surfaces of a turning space shall comply with Section 302. Changes in level are not permitted within the turning space.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted. 304.3 Size. Turning spaces shall comply with Section 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a circular space with a 60-inch minimum diameter. The turning space shall be permitted to include knee and toe clearance complying with Section 306. 304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60-inch minimum square, with arms and base 36 inches minimum in width. Each

arm of the T shall be clear of obstructions 12 inches minimum in each direction, and the base shall be clear of obstructions 24 inches minimum. The turning space shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm. 304.4 Door Swing. Unless otherwise specified, doors shall be permitted to swing into turning spaces.

# 305 CLEAR FLOOR SPACE

305.1 General. A clear floor space shall comply with Section 305. 305.2 Floor Surfaces. Floor surfaces of a clear floor space shall comply with Section 302. Changes in level are not permitted within the clear floor space

EXCEPTION: Slopes not steeper than 1:48 shall be permitted 305.3 Size. The clear floor space shall be 48 inches minimum in length and 30 inches minimum in width. 305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor space shall be

permitted to include knee and toe clearance complying with Section 306. 305.5 Position. Unless otherwise specified, the clear floor space shall be positioned for either forward or parallel approach to an element. 305.6 Approach. One full, unobstructed side of the clear floor space shall adjoin or

overlap an accessible route or adjoin another clear floor space. 305.7 Alcoves. If a clear floor space is in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances complying with Sections 305.7.1 and 305.7.2 shall be provided, as applicable.

305.7.1 Parallel Approach. Where the clear floor space is positioned for a parallel approach, the alcove shall be 60 inches minimum in width where the depth exceeds

305.7.2 Forward Approach. Where the clear floor space is positioned for a forward approach, the alcove shall be 36 inches minimum in width where the depth exceeds

## 306 KNEE AND TOE CLEARANCE

306.1 General. Where space beneath an element is included as part of clear floor space at an element, clearance at an element, or a turning space, the space shall omply with Section 306. Additional space shall not be prohibited beneath an element, but shall not be considered as part of the clear floor space or turning space. 306.2 Toe Clearance.

306.2.1 General. Space beneath an element between the floor and 9 inches above the floor shall be considered to clearance and shall comply with Section 306.2. 306.2.2 Maximum Depth. Toe clearance shall be permitted to extend 25 inches maximum under an element

306.2.3 Minimum Depth. Where toe clearance is required at an element as part of a clear floor space complying with Section 305, the toe clearance shall extend 17 inches minimum beneath the element. 306.2.4 Additional Clearance. Space extending greater than 6 inches beyond the

available knee clearance at 9 inches above the floor shall not be considered toe 306.2.5 Width. Toe clearance shall be 30 inches minimum in width.

# 306.3 Knee Clearance.

306.3.1 General. Space beneath an element between 9 inches and 27 inches above the floor shall be considered knee clearance and shall comply with Section 306.3. 306.3.2 Maximum Depth. Knee clearance shall be permitted to extend 25 inches maximum under an element at 9 inches above the floor.

306.3.3 Minimum Depth. Where knee clearance is required beneath an element as part of a clear floor space complying with Section 305, the knee clearance shall be 11 nches minimum in depth at 9 inches above the floor, and 8 inches minimum in depth at 27 inches above the floor. 306.3.4 Clearance Reduction, Between 9 inches and 27 inches above the floor, the

knee clearance shall be permitted to be reduced at a rate of 1 inch in depth for each 6 inches in height. 306.3.5 Width. Knee clearance shall be 30 inches minimum in width.

# 307 PROTRUDING OBJECTS

307.1 General. Protruding objects on circulation paths shall comply with Section 307.2 Protrusion Limits. Objects with leading edges more than 27 inches and not more than 80 inches above the floor shall protrude 4 inches maximum horizontally into the circulation path.

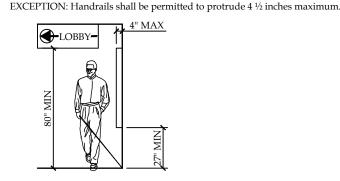


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS

required for accessible routes.

overhang 4 inches maximum where more than 27 inches and not more than 80 inches above the floor. Objects on multiple posts or pylons where the clear distance between the posts or pylons is greater than 12 inches shall have the lowest edge of such object either 27 inches maximum or 80 inches minimum above the floor. EXCEPTION: Sloping portions of handrails between the top and bottom riser of stairs and above the ramp run shall not be required to comply with Section 307.3. 307.4 Vertical Clearance. Vertical clearance shall be 80 inches minimum. Rails or other barriers shall be provided where the vertical clearance is less than 80 inches. The leading edge of such rails or barrier shall be located 27 inches maximum above

307.3 Post-Mounted Objects. Objects on posts or pylons shall be permitted to

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches minimum above the floor 307.5 Required Clear Width. Protruding objects shall not reduce the clear width

# **308 REACH RANGES**

## 308.1 General. Reach ranges shall comply with Section 308. 308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the floor

## 308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, he clear floor space complying with Section 305 shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum above the floor where the reach depth is 20 inches maximum. Where the reach depth exceeds 20 inches, the high forward reach shall be 44 inches maximum above the floor, and the reach depth shall be 25 inches maximum. 308.3 Side Reach

308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10 inches maximum from the element, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the floor. EXCEPTION: Existing elements that are not altered shall be permitted at 54 inches maximum above the floor

308.3.2 Obstructed High Reach. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches maximum above the floor and the depth of the obstruction shall be 24 inches maximum. The high side reach shall be 48 inches maximum above the floor for a reach depth of 10 inches maximum. Where the reach depth exceeds 10 inches, the high side reach shall be 46 inches maximum above the floor for a reach depth of 24 inches maximum. EXCEPTION: At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches maximum above the floor

# 309 OPERABLE PARTS

309.1 General. Operable parts required to be accessible shall comply with Section

309.2 Clear Floor Space. A clear floor space complying with Section 305 shall be

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds (22.2 N) maximum. 401 General

401.1 Scope. Accessible routes required by the scoping provisions adopted by the dministrative authority shall comply with the applicable provisions of Chapter 4.

# 402 ACCESSIBLE ROUTES

402.1 General. Accessible routes shall comply with Section 402. 402.2 Components. Accessible routes shall consist of one or more of the following components: Walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable portions of this standard. 402.3 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors,

# revolving gates, and turnstiles shall not be part of an accessible route.

**403 WALKING SURFACES** 

403.1 General. Walking surfaces that are a part of an accessible route shall comply with Section 403 403.2 Floor Surface. Floor surfaces shall comply with Section 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of a walking surface shall not be steeper than 1:48. 403.4 Changes in Level. Changes in level shall comply with Section 303. 403.5 Clear Width. The clear width of an accessible route shall be 36 inches

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches minimum for a length of 24 inches maximum provided the reduced width segments are separated by segments that are 48 inches minimum in length and 36 inches minimum in width

403.5.1 Clear Width at 180 Degree Turn. Where an accessible route makes a 180 degree turn around an object that is less than 48 inches in width, clear widths shall be 42 inches minimum approaching the turn, 48 inches minimum during the turn, and 42 inches minimum leaving the turn.

EXCEPTION: Section 403.5.1 shall not apply where the clear width during the turn is 60 inches minimum.

403.5.2 Passing Space. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a 60-inch minimum by 60-inch minimum space, or an intersection of two walking surfaces that provide a T-shaped turning space complying with Section 304.3.2, provided the base and arms of the T-shaped space extend 48 inches ninimum beyond the intersection. 403.6 Handrails. Where handrails are required at the side of a corridor they shall

# comply with Sections 505.4 through 505.9.

404 DOORS AND DOORWAYS 404.1 General. Doors and doorways that are part of an accessible route shall comply

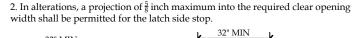
with Section 404.

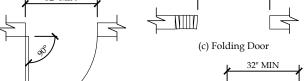
ticket gates, shall comply with Section 404.2 EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.2.6, 404.2.7,

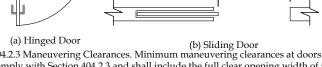
and 404.2.8. 404.2.1 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with Sections 404.2.2 and 404.2.3. 404.2.2 Clear Width. Doorways shall have a clear opening width of 32 inches

minimum. Clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees. Openings more than 24 inches in depth at doors and doorways without doors shall provide a clear opening width of 36 inches minimum. There shall be no projections nto the clear opening width lower than 34 inches above the floor. Projections into the clear opening width between 34 inches and 80 inches above the floor shall not

1. Door closers and door stops shall be permitted to be 78 inches minimum above







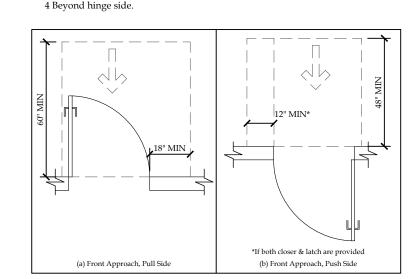
ring clearances at doors shall comply with Section 404.2.3 and shall include the full clear opening width of the doorway. Required door maneuvering clearances shall not include knee and toe

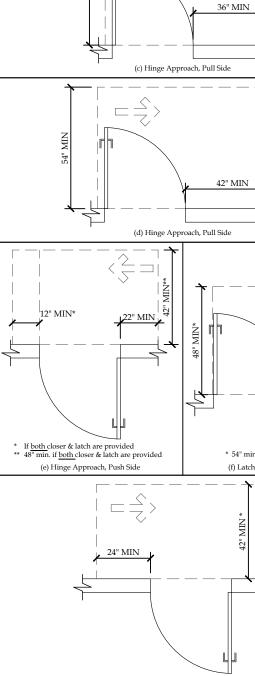
a slope not steeper than 1:48 and shall comply with Section 302. 404.2.3.2 Swinging Doors. Swinging doors shall have maneuvering clearances

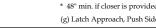
TABLE 404.2.3.2-MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

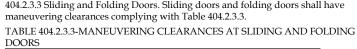
Type of Use		Maneuvering Clearances at Manual Swing Doors	
Approach Direction Door Side P		Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches <sup>3</sup>
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches <sup>1</sup>	22 inches <sup>3&amp;4</sup>
From latch side	Pull	48 inches <sup>1</sup>	24 inches
From latch side	Push	42 inches <sup>2</sup>	24 inches
From laten side	Fush	42 inches	24 inches

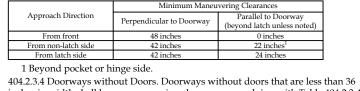
1 Add 6 inches (150 mm) if closer and latch provided. 2 Add 6 inches (150 mm) if closer provided 3 Add 12 inches (305 mm) beyond latch if closer and latch provided.





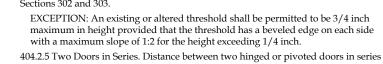


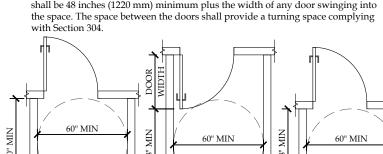




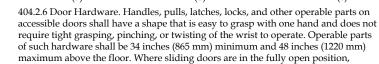


404.2.3.5 Recessed Doors. Where any obstruction within 18 inches of the latch side of a doorway projects more than 8 inches beyond the face of the door, measured perpendicular to the face of the door, maneuvering clearances for a forward proach shall be provided 404.2.4 Thresholds. If provided, thresholds at doorways shall be 1/2 inch maximum in height. Raised thresholds and changes in level at doorways shall comply with









EXCEPTION: Locks used only for security purposes and not used for normal operation shall not be required to comply with Section 404.2.6. 404.2.7 Closing Speed. 404.2.7.1 Door Closers. Door closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to an open position of 12 degrees

operating hardware shall be exposed and usable from both sides

shall be 5 seconds minimum. 404.2.7.2 Spring Hinges. Door spring hinges shall be adjusted so that from an open position of 70 degrees, the door shall move to the closed position in 1.5 seconds 404.2.8 Door-Opening Force. Fire doors shall have the minimum opening force

allowable by the appropriate administrative authority. The force for pushing or pulling open doors other than fire doors shall be as follows: 1. Interior hinged door: 5.0 pounds maximum 2. Sliding or folding door: 5.0 pounds maximum These forces lo not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position 404.2.9 Door Surface. Door surfaces within 10 inches of the floor, measured vertically, shall be a smooth surface on the push side extending the full width of the door. Parts creating horizontal or vertical joints in such surface shall be within 1/16 inch of the same plane as the other. Cavities created by added kick plates shall be

EXCEPTIONS: 1. Sliding doors shall not be required to comply with Section 404.2.9. 2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at no less than 60 degrees from the horizontal shall not be required to comply with the 10-inch bottom rail height requirement. 3. Doors that do not extend to within 10 inches of the floor shall not be required to comply with Section 404.2.9. 404.2.10 Vision Lites. Doors and sidelites adjacent to doors containing one or more

glazing panels that permit viewing through the panels shall have the bottom of at least one panel on either the door or an adjacent sidelite 43 inches maximum above the floor. EXCEPTION: Vision lites with the lowest part more than 66 inches (1675 mm) above the floor shall not be required to comply with Section 404.2.10.

404.3 Automatic Doors. Automatic doors and automatic gates shall comply with Section 404.3. Full powered automatic doors shall comply with ANSI/BHMA A 156.10 listed in Section 105.2.4. Power-assist and low-energy doors shall comply with ANSI/BHMA A 156.19 listed in Section 105.2.3. EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.3.2, 404.3.4, and 404.3.5

404.3.1 Clear Width. Doorways shall have a clear opening width of 32 inches in power-on and power-off mode. The minimum clear opening width for automatic door systems shall be based on the clear opening width provided with all leafs in the open position. 404.3.2 Maneuvering Clearances. Maneuvering clearances at power-assisted doors shall comply with Section 404.2.3. 404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with Section 404.2.4. 404.3.4 Two Doors in Series. Doors in series shall comply with Section 404.2.5. 404.3.5 Control Switches.

Manually operated control switches shall comply with Section 309. The clear floor space adjacent to the control switch shall be located beyond the arc of the door

exceed 4 inches. EXCEPTIONS:

404.2.3 Maneuvering Clearances. Minimum ma

404.2.3.1 Floor Surface. Floor surface within the maneuvering clearances shall have

complying with Table 404.2.3.2.

24" MIN

\* 54" min. if closer is provided

(f) Latch Approach, Pull Side

Parallel to Doorway

# 405 RAMPS

405.1 General. Ramps along accessible routes shall comply with Section 405. EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with Section 405.

## 405.2 Slope. Ramp runs shall have a running slope greater than 1:20 and not steeper than 1:12

EXCEPTION: In existing buildings or facilities, ramps shall be permitted to have slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations. 
 TABLE 405.2-ALLOWABLE RAMP DIMENSIONS FOR CONSTRUCTION IN
 EXISTING SITES, BUILDINGS AND FACILITIES

## Steeper than 1:10 but not steeper than 1:8 Steeper than 1:12 but not steeper than 1:10 6 inches

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48. 405.4 Floor Surfaces. Floor surfaces of ramp runs shall comply with Section 302. 405.5 Clear Width. The clear width of a ramp run shall be 36 inches minimum. Handrails and handrail supports that are provided on the ramp run shall not project into the required clear width of the ramp run.

Maximum Rise

3 inches

405.6 Rise. The rise for any ramp run shall be 30 inches maximum 405.7 Landings. Ramps shall have landings at the bottom and top of each ramp run.

Landings shall comply with Section 405.7.

405.7.1 Slope. Landings shall have a slope not steeper than 1:48 and shall comply with Section 302. 405.7.2 Width. Clear width of landings shall be at least as wide as the widest ramp

run leading to the landing. 405.7.3 Length. Landings shall have a clear length of 60 inches minimum. 405.7.4 Change in Direction. Ramps that change direction at ramp landings shall be

sized to provide a turning space complying with Section 304.3. 405.7.5 Doorways. Where doorways are adjacent to a ramp landing, maneuvering clearances required by Sections 404.2.3 and 404.3.2 shall be permitted to overlap the anding area. Where a door that is subject to locking is located adjacent to a ramp

nding, the landing shall be sized to provide a turning space complying with Section 304.3. 405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with Section 505.

405.9 Edge Protection. Edge protection complying with Section 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings. EXCEPTIONS:

1. Edge protection shall not be required on ramps not required to have handrails and that have flared sides complying with Section 406.3. 2. Edge protection shall not be required on the sides of ramp landings serving

an adjoining ramp run or stairway 3. Edge protection shall not be required on the sides of ramp landings having a vertical dropoff of 1/2 inch maximum within 10 inches (255 mm) horizontally of

the minimum landing area specified in Section 405.7. 4. Edge protection shall not be required on the sides of ramped aisles where the ramps provide access to the adjacent seats and aisle access ways. 405.9.1 Extended Floor Surface. The floor surface of the ramp run or ramp landing

shall extend 12 inches minimum beyond the inside face of a railing complying with Section 505. 405.9.2 Curb or Barrier. A curb complying with Section 405.9.2.1 or a barrier

complying with Section 405.9.2.2 shall be provided. 405.9.2.1 Curb. A curb shall be a minimum of 4 inches in height. 405.9.2.2 Barrier. Barriers shall be constructed so that the barrier prevents the passage of a 4-inch diameter sphere where any portion of the sphere is within 4

inches of the floor. 405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

## **504 STAIRWAYS**

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser height and uniform tread depth. Risers shall be 4 inches minimum and 7 inches maximum in height. Treads shall be 11 inches minimum in depth. 504.3 Open Risers. Open risers shall not be permitted on accessible stairs.

504.4 Tread Surface. Stair treads shall comply with Section 302 and shall have a slope not steeper than 1:48. 504.5 Nosings. The radius of curvature at the leading edge of the tread shall be  $\frac{1}{2}$ 

nch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall be  $1\frac{1}{2}$  inches maximum over the tread or floor below. 504.5.1 Visual contrast. The leading 2 inches of the tread shall have visual contrast of dark-on-light or light-on-dark from the remainder of the tread. 504.6 Handrails. Stairs shall have handrails complying with Section 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water. 504.8 Lighting. Lighting for interior stairways shall comply with Section 504.8.

504.8.1 Illumination Level. Lighting facilities shall be capable of providing 10 foot-candles (108 lux) of illuminance measured at the center of tread surfaces and on landing surfaces within 24 inches (610 mm) of step nosings. 504.8.2 Lighting Controls. If provided, occupancy sensing automatic controls shall activate the stairway lighting so the illuminance le auired by Section 504.8.1 i provided on the entrance landing, each stair flight adjacent to the entrance landing

and on the landings above and below the entrance landing prior to any step being 504.9 Stair Level Identification. Stair level identification signs in raised characters and braille complying with Sections 703.3 and 703.4 shall be located at each floor

level landing in all enclosed stairways adjacent to the door leading from the stairwell into the corridor to identify the floor level. The exit door discharging to the outside or to the level of exit discharge shall have a sign with raised characters and braille stating "EXIT.'

# 505 HANDRAILS

505.1 General. Handrails required by Section 405.8 for ramps, or Section 504.6 for stairs, shall comply with Section 505. 505.2 Location. Handrails shall be provided on both sides of stairs and ramps. EXCEPTIONS:

1. In assembly seating areas, handrails shall not be required on both sides along aisle stairs, provided with a handrail either at the side or within the aisle. 2. In assembly seating areas, handrails shall not be required on the sides of

amped aisles serving seats. 505.3 Continuity. Handrails shall be continuous within the full length of each stair.

light or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be ontinuous between flights or runs. Other handrails shall comply with Sections 505.10 and 307. EXCEPTION: Handrails shall not be required to be continuous in aisles serving

seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisles.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above stair nosings, ramp surfaces and walking surfaces. Handrails shall be at a consistent height above stair nosings, ramp surfaces and walking surfaces. 505.5 Clearance. Clearance between handrail gripping surface and adjacent surfaces

shall be  $1\frac{1}{2}$  inches minimum.  $1\frac{1}{2}$  MIN.

FIG. 505.5 Handrail Clearance 505.6 Gripping Surface. Gripping surfaces shall be continuous, without interruption

by newel posts, other construction elements, or obstructions. EXCEPTIONS: 1. Handrail brackets or balusters attached to the bottom surface of the handrail

shall not be considered obstructions, provided the brackets or balusters comply with the following criteria a. Not more than 20 percent of the handrail length is obstructed,

b. Horizontal projections beyond the sides of the handrail occur 11/2 inches minimum below the bottom of the handrail, and provided that for each 1/2 inch of additional handrail perimeter dimension above 4 inches, the vertical clearance dimension of  $1\frac{1}{2}$  inch can be reduced by 1/8 inch, and c. Edges shall be rounded.

2. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards

505.7 Cross Section. Handrails shall have a cross section complying with Section 505.7.1 or 505.7.2. 505.7.1 Circular Cross Section. Handrails with a circular cross section shall have an outside diameter of 1 1/4 inches minimum and 2 inches maximum

505.7.2 Noncircular Cross Sections. Handrails with a noncircular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/4 inches maximum. 505.8 Surfaces. Handrails, and any wall or other surfaces adjacent to them, shall be

free of any sharp or abrasive elements. Edges shall be rounded. 505.9 Fittings. Handrails shall not rotate within their fittings. 505.10 Handrail Extensions. Handrails shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 505.10.

EXCEPTIONS: Continuous handrails at the inside turn of stairs and ramps

2. Handrail extensions are not required in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within the aisle.

3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration. 505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing 12 inches minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or floor, or shall be continuous

to the handrail of an adjacent ramp run

horizontally above the landing for 12 inches minimum beginning directly above the landing nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight. 505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight. 602 DRINKING FOUNTAINS

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend

# 602.1 General. Accessible drinking fountains shall comply with Sections 602 and

EXCEPTIONS:

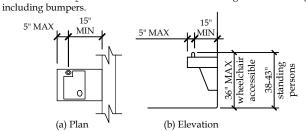
602.2 Clear Floor Space. A clear floor space complying with Section 305, positioned for a forward approach to the drinking fountain, shall be provided. Knee and toe space complying with Section 306 shall be provided. The clear floor space shall be centered on the drinking fountain.

# 1. Drinking fountains for standing persons.

2. Drinking fountains primarily for children's use shall be permitted where the spout outlet is 30 inches maximum above the floor, a parallel approach mplying with Section 305 is provided and the clear floor space is centered on the drinking fountain.

602.3 Operable Parts. Operable parts shall comply with Section 309. 602.4 Spout Outlet Height. Spout outlets of wheelchair accessible drinking fountains shall be 36 inches maximum above the floor. Spout outlets of drinking fountains for standing persons shall be 38 inches minimum and 43 inches maximum above the

602.5 Spout Location. The spout shall be located 15 inches minimum from the vertical support and 5 inches maximum from the front edge of the drinking fountain, including bumpers. Where only a parallel approach is provided, the spout shall be located  $3\frac{1}{2}$  inches maximum from the front edge of the drinking fountain,





603.1 General. Accessible toilet and bathing rooms shall comply with Section 603.

603.2 Clearances. 603.2.1 Turning Space. A turning space complying with Section 304 shall be provided within the room . The required turning space shall not be provided within a toilet compartment

## 603.2.2 Door Swing. Doors shall not swing into the clear floor space or clearance for any fixture.

EXCEPTIONS 1. Doors to a toilet or bathing room for a single occupant, accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space, provided the swing of the door can be reversed to comply with Section 603.2.2.

2. Where the room is for individual use and a clear floor space complying with Section 305.3 is provided within the room beyond the arc of the door swing, the door shall not be required to comply with Section 603.2.2. 603.3 Mirrors. Where mirrors are located above lavatories, a mirror shall be located

over the accessible lavatory and shall be mounted with the bottom edge of the reflecting surface 40 inches maximum above the floor. Where mirrors are located above counters that do not contain lavatories, the mirror shall be mounted with the bottom edge of the reflecting surface 40 inches maximum above the floor. EXCEPTION: Other than within Accessible dwelling or sleeping units, mirrors are not required over the lavatories or counters if a mirror is located within the

same toilet or bathing room and mounted with the bottom edge of the reflecting surface 35 inches maximum above the floor 603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in Section 308. Shelves shall be 40 inches minimum and 48 inches

maximum above the floor. 603.5 Diaper Changing Tables. Diaper changing tables shall comply with Sections 309 and 902. 603.6 Operable Parts. Operable parts on towel dispensers and hand dryers serving

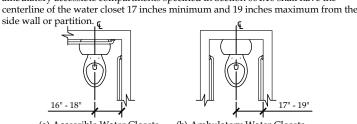
accessible lavatories shall comply with Table 603.6. TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT

Max. Reach Depth 0.5" 2" 5" 6" 9" Max. Reach Height 48" 46" 42" 40" 36" 34"

604 WATER CLOSETS AND TOILET COMPARTMENTS 604.1 General. Accessible water closets and toilet compartments shall comply with

Section 604. Compartments containing more than one plumbing fixture shall omply with Section 603. Wheelchair accessible compa Section 604.9. Ambulatory accessible compartments shall comply with Section

EXCEPTION: Water closets and toilet compartments primarily for children's use shall be permitted to comply with Section 604.11 as applicable. 604.2 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches minimum and 18 inches maximum from the side wall or partition. Water closets located in ambulatory accessible compartments specified in Section 604.10 shall have the



(a) Accessible Water Closets (b) Ambulatory Water Closets FIG. 604.2 WATER CLOSET LOCATION 604.3 Clearance

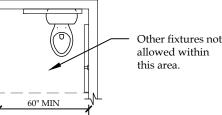


FIG. 604.3 SIZE OF CLEARANCE FOR WATER CLOSET 604.3.1 Clearance width. Clearance around a water closet shall be 60 inches minimum in width, measured perpendicular from the sidewall. 604.3.2 Clearance Depth. Clearance around the water closet shall be 56 inches minimum in depth, measured perpendicular from the rear wall. 604.3.3 Clearance Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, accessible routes, clear floor space

within the required water closet clearance. 604.4 Height. The height of water closet seats shall be 17 inches minimum and 19 inches maximum above the floor, measured to the top of the seat. Seats shall not be

EXCEPTION: A water closet in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, shall not be

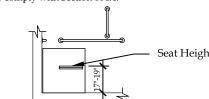
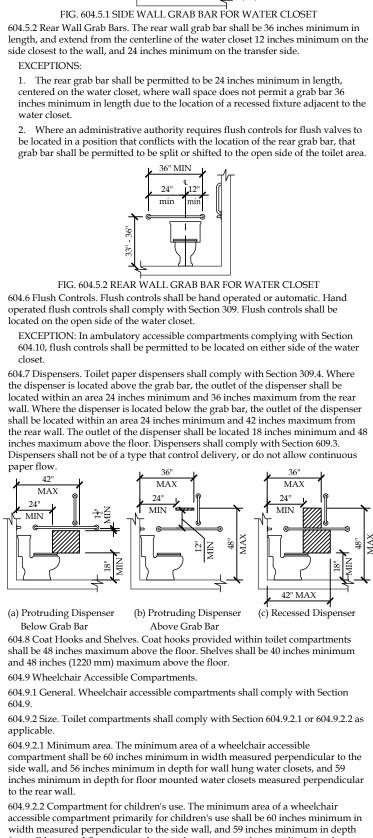


FIG. 604.4 WATER CLOSET SEAT HEIGHT 604.5 Grab Bars. Grab bars for water closets shall comply with Section 609 and shall be provided in accordance with Sections 604.5.1 and 604.5.2. Grab bars shall be provided on the rear wall and on the side wall closest to the water closet. EXCEPTIONS:

1. Grab bars are not required to be installed in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 604.5. 2. In detention or correction facilities, grab bars are not required to be installed in housing or holding cells or rooms that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Fixed Side Wall Grab Bars. Fixed side-wall grab bars shall be 42 inches minimum in length, located 12 inches maximum from the rear wall and extending 54 inches minimum from the rear wall. In addition, a vertical grab bar 18 inches minimum in length shall be mounted with the bottom of the bar located 39 inches minimum and 41 inches maximum above the floor, and with the center line of the bar located 39 inches minimum and 41 inches maximum from the rear wall.

EXCEPTION: The vertical grab bar at water closets primarily for children's use shall comply with Section 609.4.2.



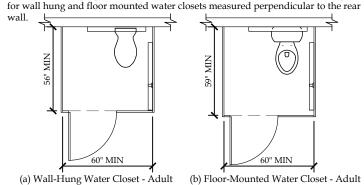
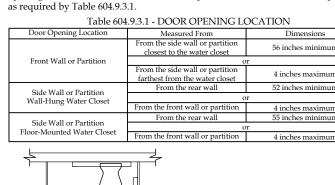
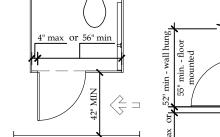


FIG. 604.9.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS 604.9.3 Doors. Toilet compartment doors, including door hardware, shall comply with Section 404, except if the approach is to the latch side of the compartment door clearance between the door side of the stall and any obstruction shall be 42 inches minimum. The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the required minimum area of the compartment. 604.9.3.1 Door Opening Location. The farthest edge of toilet compartment door





(a) Front partition FIG. 604.9.3.1 - WHEELCHAIR ACCESSIBLE COMPARTMENT DOOR OPENINGS 604.9.4 Approach. Wheelchair accessible compartments shall be arranged for left-hand or right-hand approach to the water closet. 604.9.5 Toe Clearance. Toe clearance for compartments primarily for children's use shall comply with Section 604.9.5.2. Toe clearance for other wheelchair accessible compartments shall comply with Section 604.9.5.1. 604.9.5.1 Toe Clearance at Compartments. The front partition and at least one side

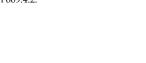
partition shall provide a toe clearance of 9 inches minimum above the floor and extending 6 inches beyond the compartment side face of the partition, exclusive of partition support members. EXCEPTIONS: 1. Toe clearance at the front partition is not required in a compartment greater than 62 inches in depth with a wall-hung water closet, or greater than 65 inches in depth with a floor-mounted water closet. 2. Toe clearance at the side partition is not required in a compartment greater

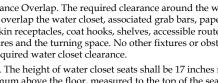
than 66 inches in width 604.9.5.2 Toe Clearance at Compartments for Children's Use. The front partition and at least one side partition of compartments primarily for children's use shall provide a toe clearance of 12 inches minimum above the floor and extending 6 inches beyond the compartment side face of the partition, exclusive of partition support

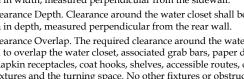
EXCEPTIONS: 1. Toe clearance at the front partition is not required in a compartment greater than 65 inches in depth. . Toe clearance at the side partition is not required in a compartment greater than 66 inches in width.

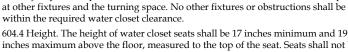
(a) Elevation Adult (b) Elevation Children FIG. 604.9.5 - Wheelchair Accessible Compartment Toe Clearance

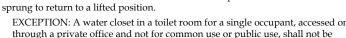


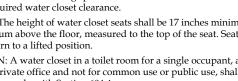


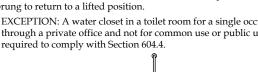


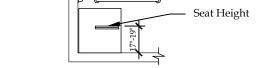


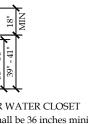


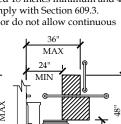










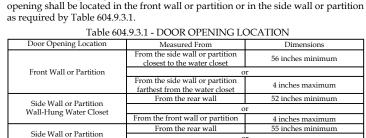


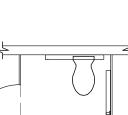
42" MAX c) Recessed Dispens



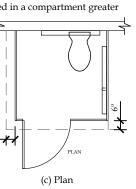


Wall-Hung & Floor Mounted - Children





(b) Side wall or partition



604.9.6 Grab Bars. Grab bars shall comply with Section 609. Side wall grab bars complying with Section 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.2, shall be provided. 604.10 Ambulatory Accessible Compartments. 604.10.1 General. Ambulatory accessible compartments shall comply with Section 604.10. 604.10.2 Size. The minimum area of an ambulatory accessible compartment shall be 60 inches minimum in depth and 36 inches in width.

604.10.3 Doors. Toilet compartment doors, including door hardware, shall comply with Section 404, except if the approach is to the latch side of the compartment door the clearance between the door side of the compartment and any obstruction shall be 42 inches minimum. The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides of the door near the latch. Compartment doors shall not swing into the required minimum area of the compartment

604.10.4 Grab Bars. Grab bars shall comply with Section 609. Side wall grab bars complying with Section 604.5.1 shall be provided on both sides of the compartment. 604.11 Water Closets and Toilet Compartments for Children's Use. 604.11.1 General. Accessible water closets and toilet compartments primarily for

hildren's use shall comply with Section 604.11. 604.11.2 Location. The water closet primarily for children's use shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition. Water closets located in ambulatory accessible toilet compartments specified in Section 604.10 shall be located as specified in Section

604.11.3 Clearance. A clearance around the water closet primarily for children's use complying with Section 604.3 shall be provided. 604.11.4 Height. The height of water closet seats primarily for children's use shall be

11 inches minimum and 17 inches maximum above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position. 604.11.5 Grab Bars. Grab bars for water closets primarily for children's use shall comply with Section 604.5.

604.11.6 Flush Controls. Flush controls primarily for children's use shall be hand operated or automatic. Hand operated flush controls shall comply with Sections 309.2 and 309.4 and shall be installed 36 inches maximum above the floor. Flush controls shall be located on the open side of the water closet.

EXCEPTION: In ambulatory accessible compartments complying with Section 604.10, flush controls shall be permitted to be located on either side of the water

604.11.7 Dispensers. Toilet paper dispensers primarily for children's use shall comply with Section The outlet of dispensers shall be located within an area 24 inches minimum and 42 inches maximum from the rear wall. The outlet of the lispenser shall be 14 inches minimum and 19 inches maximum above the floor. There shall be a clearance of  $1\frac{1}{2}$  inches minimum below the grab bar. Dispensers shall not be of a type that control delivery or do not allow continuous paper flow. 604.11.8 Toilet Compartments. Toilet compartments primarily for children's use shall comply with Sections 604.9 and 604.10, as applicable.

605.1 General. Accessible urinals shall comply with Section 605. 605.2 Height and Depth. Urinals shall be of the stall type or shall be of the wall hung type with the rim at 17 inches maximum above the floor. Wall hung urinals shall be 13 1/2 inches minimum in depth measured from the outer face of the urinal rim to the wall. 605.3 Clear Floor Space. A clear floor space complying with Section 305, positioned

or forward approach, shall be provided. 605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309.

# 606 Lavatories and Sinks

606.1 General. Accessible lavatories and sinks shall comply with Section 606. 606.2 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be onsidered in determining knee and toe clearances. EXCEPTIONS:

1. A parallel approach complying with Section 305 and centered on the sink, shall be permitted to a kitchen sink in a space where a cook top or conventiona range is not provided.

. The requirement for knee and toe clearance shall not apply to a lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use 3. A knee clearance of 24 inches minimum above the floor shall be permitted at

lavatories and sinks used primarily by children ages 6 through 12 where the rim or counter surface is 31 inches maximum above the floor. 4. A parallel approach complying with Section 305 and centered on the sink,

shall be permitted at lavatories and sinks used primarily by children ages 5 and 5. The requirement for knee and toe clearance shall not apply to more than one

bowl of a multibowl sink. 6. A parallel approach complying with Section 305 and centered on the sink,

shall be permitted at wet bars 606.3 Height. The front of lavatories and sinks shall be 34 inches maximum above the floor, measured to the higher of the rim or counter surface.

EXCEPTION: A lavatory in a toilet or bathing facility for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 606.3.



FIG. 606.3 HEIGHT OF LAVATORIES AND SINKS 606.4 Faucets. Faucets shall comply with Section 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Lavatories with Enhanced Reach Range. Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a reach depth of 11 inches maximum or, if automatic, shall be activated within a reach depth of 11 inches maximum. Water and soap flow shall be provided with a reach depth of 11 inches maximum.

606.6 Exposed Pipes and Surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

# 607 Bathtubs

607.1 General. Accessible bathtubs shall comply with Section 607. 607.2 Clearance. A clearance in front of bathtubs extending the length of the bathtub and 30 inches minimum in depth shall be provided. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches

ninimum beyond the wall at the head end of the bathtub. 607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with Section 610.

607.4 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 607.4.1 or 607.4.2. EXCEPTION: Grab bars shall not be required to be installed in a bathing facility for a single occupant accessed only through a private office and not for commo use or public use, provided reinforcement has been installed in walls and located

so as to permit the installation of grab bars complying with Section 607.4. 607.4.1 Bathtubs with Permanent Seats. For bathtubs with permanent seats, grab bars complying with Section 607.4.1 shall be provided. 607.4.1.1 Back Wall. Two horizontal grab bars shall be provided on the back wall,

one complying with Section 609.4 and the other located 8 inches minimum and 10 inches maximum above the rim of the bathtub. Each grab bar shall be located 15 inches maximum from the head end wall and extend to 12 inches maximum from the control end wall.

607.4.1.2 Control End Wall. Control end wall grab bars shall comply with Section 607.4.1.2. EXCEPTION: An L-shaped continuous grab bar of equivalent dimensions and

ositioning shall be permitted to serve the function of separate vertical and norizontal grab bars. 607.4.1.2.1 Horizontal Grab Bar, A horizontal grab bar 24 inches minimum in length shall be provided on the control end wall beginning near the front edge of the bathtub and extending toward the inside corner of the bathtub.

607.4.1.2.2 Vertical Grab Bar. A vertical grab bar 18 inches minimum in length shall be provided on the control end wall 3 inches minimum and 6 inches maximum above the horizontal grab bar, and 4 inches maximum inward from the front edge of the bathtub.

607.4.2 Bathtubs without Permanent Seats. For bathtubs without permanent seats, grab bars complying with Section 607.4.2 shall be provided. 607.4.2.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and the other located 8 inches minimum and 10 inches maximum above the rim of the bathtub. Each grab bar shall be 24 inches minimum in length, located 24 inches maximum from the head end wall and extend to 12 inches maximum from the control end wall. 607.4.2.2 Control End Wall. Control end wall grab bars shall comply with Section

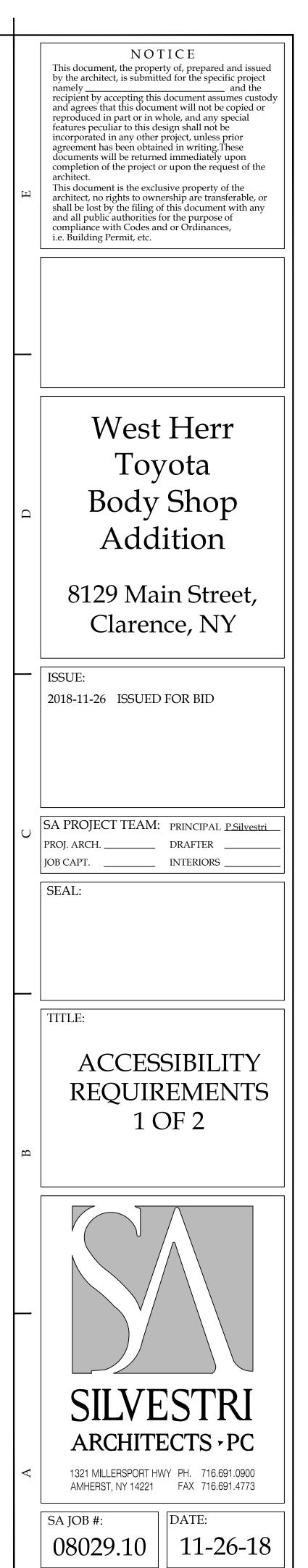
607.4.1.2. 607.4.2.3 Head End Wall. A horizontal grab bar 12 inches minimum in length shall be provided on the head end wall at the front edge of the bathtub.

607.5 Controls. Controls, other than drain stoppers, shall be provided on an end wall, located between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with Section 309.4. 607.6 Hand Shower. A hand shower with a hose 59 inches minimum in length, that

can be used as both a fixed shower head and as a hand shower, shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the bathtub.

607.8 Water Temperature. Bathtubs shall deliver water that is 120°F maximum.



DRAWING #:

A-002

608.1 General. Accessible shower compartments shall comply with Section 608.1 608.2 Size, clearance and seat. Shower compartments shall have sizes, clearances and seats complying with Section 608.2. 608.2.1 Transfer-type Shower Compartments. Transfer-type shower compartments

shall comply with Section 608.2.1. 608.2.1.1 Size. Transfer-type shower compartments shall have a clear inside dimension of 36 inches in width and 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided. 608.2.1.2 Clearance. A clearance of 48 inches minimum in length measured perpendicular from the control wall, and 36 inches minimum in depth shall be provided adjacent to the open face of the compartment.

608.2.1.3 Seat. A folding or non-folding seat complying with Section 610 shall be provided on the wall opposite the control wall. Exception: A seat is not required to be installed in a shower for a single occupant,

accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat. 608.2.2 Standard Roll-in-type Shower Compartments. Standard roll-in-type shower

compartments shall comply with Section 608.2.2. 608,2,2,1 Size. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches minimum in width and 30 inches minimum in depth, measured at the center point of opposing sides. An entry 60 inches minimum in width shall be provided.

608.2.2.2 Clearance. A clearance of 60 inches minimum in length adjacent to the 60-inch width of the open face of the shower compartment, and 30 inches minimum in depth, shall be provided.

EXCEPTION: A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the seat. 608.2.2.3 Seat. A folding seat complying with Section 610 shall be provided on an end wall.

EXCEPTIONS: 1. A seat is not required to be installed in a shower for a single occupant accessed only through a private office and not for common use or public use,

provided reinforcement has been installed in walls and located so as to permit the stallation of a shower seat. 2. A fixed seat shall be permitted where the seat does not overlap the minimum

clear inside dimension required by Section 608.2.2.1. 608.2.3 Alternate Roll-in-type Shower Compartments. Alternate roll-in-type shower compartments shall comply with Section 608.2.3.

608.2.3.1 Size. Alternate roll-in shower compartments shall have a clear inside dimension of 60 inches minimum in width, and 36 inches in depth, measured at the center point of opposing sides. An entry 36 inches minimum in width shall be provided at one end of the 60-inch width of the compartment. A seat wall, 24 inches minimum and 36 inches maximum in length, shall be provided on the entry side of the compartment.

608.2.3.2 Seat. A folding seat complying with Section 610 shall be provided on the seat wall opposite the back wall. EXCEPTION: A seat is not required to be installed in a shower for a single

occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat.

608.3 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor. EXCEPTION: Grab bars are not required to be installed in a shower for a single occupant, accessed only through a private office and not for common use or

public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3. 608.3.1 Transfer-Type Showers. Grab bars for transfer type showers shall comply with Section 608.3.1.

608.3.1.1 Horizontal Grab Bars. Horizontal grab bars shall be provided across the control wall and on the back wall to a point 18 inches from the control wall. 608.3.1.2 Vertical Grab Bar. A vertical grab bar 18 inches minimum in length shall be provided on the control end wall 3 inches minimum and 6 inches maximum above he horizontal grab bar, and 4 inches maximum inward from the front edge of the

608.3.2 Standard Roll-in-Type Showers. In standard roll-in type showers, a grab bar shall be provided on the back wall beginning at the edge of the seat. The grab bars shall not be provided above the seat. The back wall grab bar shall extend the length of the wall but shall not be required to exceed 48 inches in length. Where a side wall is provided opposite the seat within 72 inches of the seat wall, a grab bar shall be provided on the side wall opposite the seat. The side wall grab bar shall extend the length of the wall but shall not be required to exceed 30 inches in length. Grab bars

shall be 6 inches maximum from the adjacent wall. 60S.3.3 Alternate Roll-in-Type Showers. In alternate roll-in type showers, grab bars shall be provided on the back wall and the end wall adjacent to the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches maximum from the

adjacent wall. 60S.4 Controls and Hand Showers. Controls and hand showers shall comply with Sections 608.4 and 309.4.

608.4.1 Transfer-Type Showers. In transfer-type showers, the controls and hand shower shall be located:

1. On the control wall opposite the seat. 2. At a height of 38 inches minimum and 48 inches maximum above the shower floor, and

15 inches ma from the centerline of the control wall toward the shower opening. 608.4.2 Standard Roll-in Showers. In standard roll-in showers, the controls and

hand shower shall be located on the back wall above the grab bar, 48 inches (1220 mm) maximum above the shower floor and 16 inches minimum and 27 inches naximum from the end wall behind the seat. 608.4.3 Alternate Roll-in Showers. In alternate roll-in showers, the controls and

hand shower shall be located 38 inches minimum and 48 inches maximum above the shower floor. In alternate roll-in showers with controls and hand shower located on the end wall adjacent to the seat, the controls and hand shower shall be 27 inches maximum from the seat wall. In alternate roll-in showers with the controls and hand shower located on the back wall opposite the seat, the controls and hand shower shall be located within 15 inches, left or right, of the centerline of the seat. 608.5 Hand Showers. A hand shower with a hose 59 inches minimum in length, that can be used both as a fixed shower head and as a hand shower shall be provided.

The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars. EXCEPTION: In other than Accessible units and Type A units, a fixed shower head located 48 inches maximum above the shower floor shall be permitted in

lieu of a hand shower. 608.6 Thresholds. Thresholds in roll-in-type shower compartments shall be 1/2 inch maximum in height in accordance with Section 303. In transfer-type shower compartments, thresholds <sup>1</sup>/<sub>2</sub> inch maximum in height shall be beveled, rounded, or vertical. EXCEPTION: In existing facilities, in transfer-type shower compartments where

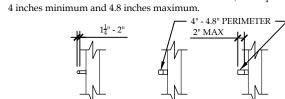
provision of a threshold 1/2 inch in height would disturb the structural reinforcement of the floor slab, a threshold 2 inches maximum in height shall be permitted. 608.7 Shower Enclosures. Shower compartment enclosures for shower

compartments shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats. 608.8 Water Temperature. Showers shall deliver water that is 120°F (49°C) maximum.

609 Grab Bars

609.1 General. Grab bars in accessible toilet or bathing facilities shall comply with Section 609. 609.2 Cross Section. Grab bars shall have a cross section complying with Section 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with a circular cross section shall have an outside diameter of 1¼ inch minimum and 2 inches maximum. 609.2.2 Noncircular Cross Section. Grab bars with a noncircular cross section shall have a cross section dimension of 2 inches maximum, and a perimeter dimension of



(a) Circular (b) Noncircular (c) Noncircular FIG. 609.2 SIZE OF GRAB BARS 609.3 Spacing. The space between the wall and the grab bar shall be  $1\frac{1}{2}$  inches. The space between the grab bar and projecting objects below and at the ends of the grab

bar shall be 11/2 inches minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches minimum. EXCEPTIONS: 1. The space between the grab bars and shower controls, shower fittings, and

other grab bars above the grab bar shall be permitted to be 1½ inches minimum. 2. Recessed dispensers projecting from the wall <sup>1</sup>/<sub>4</sub> inch maximum measured from the face of the dispenser and complying with Section 604.7 shall be permitted within the 12-inch space above and the 1½ inch spaces below and at

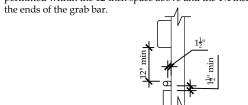


FIG. 609.3 SPACING OF GRAB BARS 609.4 Position of Grab Bars. 609.4.1 General. Grab bars shall be installed in a horizontal position, 33 inches

minimum and 36 inches maximum above the floor measured to the top of the gripping surface or shall be installed as required by Items 1 through 3. 1. The lower grab bar on the back wall of a bathtub shall comply with Section 607.4.1.1 or 607.4.2.1.

1. Vertical grab bars shall comply with Sections 604.5.1, 607.4.1.2.2, 607.4.2.2, and 608.3.1.2 2. Grab bars at water closets primarily for children's use shall comply with

Section 609.4.2. 609.4.2 Position of Children's Grab Bars. At water closets primarily for children's use complying with Section 604.11, grab bars shall be installed in a horizontal position 18 inches minimum and 27 inches maximum above the floor measured to he top of the gripping surface. A vertical grab bar shall be mounted with the bottom of the bar located between 21 inches minimum and 30 inches maximum

above the floor and with the centerline of the bar located between 34 inches minimum and 36 inches maximum from the rear wall. 609.5 Surface Hazards. Grab bars, and any wall or other surfaces adjacent to grab bars, shall be free of sharp or abrasive elements. Edges shall be rounded. 609.6 Fittings. Grab bars shall not rotate within their fittings. 609.7 Installation and Configuration. Grab bars shall be installed in any manner that provides a gripping surface at the locations specified in this standard and does not obstruct the clear floor space. Horizontal and vertical grab bars shall be permitted to

be separate bars, a single piece bar, or combination thereof. 609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the grab bar, fastener mounting device, or supporting structure.

## 610 Seats 510.1 General. Seats in accessible bathtubs and shower compartments shall comply

with Section 610. 610.2 Bathtub Seats. The height of bathtub seats shall be 17 inches minimum and 19 inches maximum above the bathroom floor, measured to the top of the seat. Removable in-tub seats shall be 15 inches minimum and 16 inches maximum in depth. Removable in-tub seats shall be capable of secure placement. Permanent seats shall be 15 inches minimum in depth and shall extend from the back wall to or beyond the outer edge of the bathtub. Permanent seats shall be positioned at the head end of the bathtub.

610.3 Shower Compartment Seats. The height of shower compartment seats shall be 17 inches minimum and 19 maximum above the bathroom floor, measured to the top of the seat. In transfer-type and alternate roll-in-type showers, the seat shall extend along the seat wall to a point within 3 inches of the compartment entry. In standard roll-in-type showers, the seat shall extend from the control wall to a point within 3 inches of the compartment entry. Seats shall comply with Section 610.3.1 or

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 ½ inches maximum and the front edge 15 inches minimum and 16 inches maximum from the seat wall. The side edge of the seat shall be 1 ½ inches maximum from the back wall of a transfer-type shower and  $1\frac{1}{2}$  inches maximum from the control wall of a roll-in-type shower.

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches maximum and the front edge 15 inches minimum and 16 inches maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches maximum from the wall and the front edge shall be 14 inches minimum and 15 inches maximum from the wall. The end of the "L" shall be 22 inches minimum and 23 inches maximum from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used where a vertical or horizontal force of 250 pounds is applied at any point on the seat, fastener mounting device, or supporting structure.

# 701 General

701.1 Scope. Communications elements and features required to be accessible by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of Chapter 7.

# 702 Alarms

702.1 General. Accessible audible and visible alarms and notification appliances shall be installed in accordance with NFPA 72 listed in Section 105.2.2, be powered by a commercial light and power source, be permanently connected to the wiring of the premises electric system, and be permanently installed.

703 Signs 703.1 General. Accessible signs shall comply with Section 703. Tactile signs shall contain both raised characters and braille. Where signs with both visual and raised characters are uired, either one sign with both visual and raised characters, or two separate signs, one with visual, and one with raised characters, shall be provided.

703.1.1 Designations. Interior and exterior signs identifying permanent rooms and spaces shall comply with Sections 703.1, 703.2, and 703.3. EXCEPTION: Exterior signs that are not located at the door to the space they serve shall not be required to comply with Section 703.3. 703.1.2 Directional and Informational Signs. Signs that provide direction to or information about interior spaces and facilities of the site shall comply with Section 703.2. 703.1.3 Pictograms. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with Section 703.5 and shall have text

descriptors located directly below the pictogram field and complying with Sections 703.2 EXCEPTION: Pictograms that provide information about a room or space, such as "No Smoking", occupant logos, and the International Symbol of Accessibility, are not required to have text descriptors.

703.2 Visual Characters.

703.2.1 General. Visual characters shall comply with the following: 1. Visual characters that also serve as raised characters shall comply with Section 703.3,

2. Visual characters on VMS signage shall comply with Section 703.7, or EXCEPTION: The visual and raised requirements of item 1 shall be permitted to be provided by two separate signs that provide corresponding information provided one sign complies with Section 703.2 and the second sign complies with Section 703.3.

703.2.2 Case. Characters shall be uppercase, lowercase, or a combination of both. 703.2.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.2.4 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The uppercase letter "I" of the font shall have a minimum height complying with Table 703.2.4. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the

EXCEPTION: In assembly seating where the maximum viewing distance is 100 feet or greater, the height of the uppercase "I" of fonts shall be permitted to be 1 inch for every 0 feet of viewing distance, provided the character height is 8 inches minimum. Viewing distance shall be measured as the horizontal distance between the character and where someone is expected to view the sign.

TABLE 703.2.4 - VISUAL CHARACTER HEIGHT Height above Floor to Baseline of Horizontal Viewing Distance Minimum Character Height

	Character		
	40 inches to less than or equal to	Less than 6 feet	<sup>5</sup> / <sub>8</sub> inch
40	40 inches to less than of equal to 70 inches	6 feet and greater	$\frac{5}{8}$ inch, plus $\frac{1}{8}$ inch per foot of viewing distance above 6 feet
	Greater than 70 inches to less than	Less than 15 feet	2 inches
Grea	or equal to 120 inches	15 feet and greater	2 inches, plus <sup>1</sup> / <sub>8</sub> inch per foot of viewing distance above 15 feet
		Less than 21 feet	3 inches
	Greater than 120 inches	12 feet and greater	3 inches, plus $\frac{1}{8}$ inch per foot of viewing distance above 21 feet

703.2.5 Character Width. The uppercase letter "0" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "0" of the font shall be 55 ercent minimum and 110 percent maximum of the height of the uppercase "I" of the font. 703.2.6 Stroke Width. The uppercase letter "I" shall be used to determine the allowable

stroke width of all characters of a font. The stroke width shall be 10 percent minimum and 30 percent maximum of the height of the uppercase "I" of the font. 703.2.7 Character Spacing. Spacing shall be measured between the two closest points of adjacent characters within a message, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of the character height. 703.2.8 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

EXCEPTION: In assembly seating where the maximum viewing distance is 100 feet or greater, the spacing between the baselines of separate lines of characters within a nessage shall be permitted to be 120 percent minimum and 170 percent maximum of the character height. 703.2.9 Height Above Floor. Visual characters shall be 40 inches minimum above the floor

of the viewing position, measured to the baseline of the character. Heights shall comply with Table 703.2.4, based on the size of the characters on the sign. EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with Section 703.2.9.

703.2.10 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background, with either light characters on a dark background, or dark characters on a light background. 703.3 Raised Characters

703.3.1 General. Raised characters shall comply with Section 703.3, and shall be duplicated in braille complying with Section 703.4. 703.3.2 Depth. Raised characters shall be raised 1/32 inch minimum above their

background 703.3.3 Case. Characters shall be uppercase.

703.3.4 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.3.5 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The height of the uppercase letter "I" of the font, measured vertically from the baseline of the character, shall be 5/8 inch minimum, and 2 inches

EXCEPTION: Where separate raised and visual characters with the same information are provided, the height of the raised uppercase letter "I" shall be permitted to be 1/2 inch

703.3.6 Character Width. The uppercase letter "0" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "0" of the font shall be 55 percent minimum and 110 percent maximum of the height of the uppercase "I" of the font. 703.3.7 Stroke Width. Raised character stroke width shall comply with Section 703.3.7. The uppercase letter "I" of the font shall be used to determine the allowable stroke width of all characters of a font.

703.3.7.1 Maximum. The stroke width shall be 15 percent maximum of the height of the uppercase letter "I" measured at the top surface of the character, and 30 percent maximum of the height of the uppercase letter "I" measured at the base of the character. 703.3.7.2 Minimum. When characters are both visual and raised, the stroke width shall be 10 percent minimum of the height of the uppercase letter "I".

703.3.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Spacing between individual raised characters shall be 1/8 inch minimum measured at the top surface of the characters, 1/16 inch minimum measured at the base of the characters, and four times the raised character stroke width maximum. Characters shall be separated from raised borders and decorative elements 3/8 inch minimum.

Measured center to center

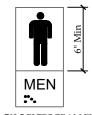


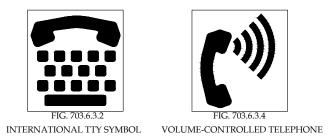
FIG. 703.5 PICTOGRAM FIELD 703.5.3 Finish and Contrast. Pictograms and their fields shall have a nonglare finish. Pictograms shall contrast with their fields, with either a light pictogram on a dark field or a dark pictogram on a light field. 703.6 Symbols of Accessibility. 703.6.1 General. Symbols of accessibility shall comply with Section 703.6.

703.6.2 Finish and Contrast. Symbols of accessibility and their backgrounds shall have a non-glare finish. Symbols of accessibility shall contrast with their backgrounds, with either a light symbol on a dark background or a dark symbol on a light background. 703.6.3 Symbols. 703.6 Symbols of Accessibility.

703.6.3.1 International Symbol of Accessibility. The International Symbol of Accessibility shall comply with Figure 703.6.3.1. 703.6.3.2 International Symbol of TTY. The International Symbol of TTY shall comply with Figure 703.6.3.2. 703.6.3.3 Assistive Listening Systems. Assistive listening systems shall be identified by the International Symbol of Access for Hearing Loss complying with Figure 703.6.3.3.

field complying with Figure 703.6.3.4.

INTERNATIONAL SYMBOL OF ACCESSIBILITY







character height.

with Section 703.3.10.

EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have non-glare finish or to contrast with their background. 703.4 Braille 703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used

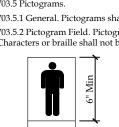
before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acronyms. 703.4.3 Dimensions. Braille dots shall have a domed or rounded shape and shall comply with Table 703.4.3. TABLE 703.4.3 BRAILLE MEASUREMENT

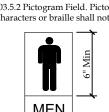
Measurement Range e diametei ponding dots in adjacent cell tance between corresponding dots from one cell tlv below <sup>1</sup>

703.4.4 Position. Braille shall be below the corresponding text. If text is multilined, braille shall be placed below entire text. Braille shall be separated 3/8 inch minimum from any other raised characters and 3/8 inch minimum from raised borders and decorative elements. Braille provided on elevator car controls shall be separated 3/16 inch minimum either directly below or adjacent to the corresponding raised characters or symbols. 703.4.5 Mounting Height. Braille shall be 48 inches minimum and 60 inches maximum above the floor, measured to the baseline of the braille cells.

EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5. 703.5.1 General. Pictograms shall comply with Section 703.5. 703.5.2 Pictogram Field. Pictograms shall have a field 6 inches minimum in height.

Characters or braille shall not be located in the pictogram field.







# 703.3.9 Line Spacing. Spacing between the baselines of separate lines of raised characters

within a message shall be 135 percent minimum and 170 percent maximum of the raised

## 703.3.10 Height above Floor. Raised characters shall be 48 inches minimum above the floor, measured to the baseline of the lowest raised character and 60 inches maximum above the

floor, measured to the baseline of the highest raised character. EXCEPTION: Raised characters for elevator car controls shall not be required to comply

Note: For braille character mounting height see Section 703.4.5

## HEIGHT OF RAISED CHARACTERS ABOVE FLOOR 703.3.11 location. Where a sign containing raised characters and braille is provided at a

door, the sign shall be alongside the door at the latch side. Where a sign cont characters and braille is provided at double doors with one active leaf, the sign shall be

## located on the inactive leaf. Where a sign containing raised characters and braille is ided at double doors with two active leaves, the sign shall be to the right of the

right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing

## d characters and braille shall be located so that a clear floor area 18 inches min by 18 inches minimum, centered on the raised characters is provided beyond the arc of any

door swing between the closed position and 45 degree open position. EXCEPTION: Signs containing raised characters and braille shall be permitted on the

## push side of doors with closers and without hold-open devices. 18 min

FIG. 703.3.10

# centered on

raised characters

Minimum in inche Maximum in inches 0.059 to 0.063

# 0.090 to 0.100

0.241 to 0.300 0.025 to 0.03

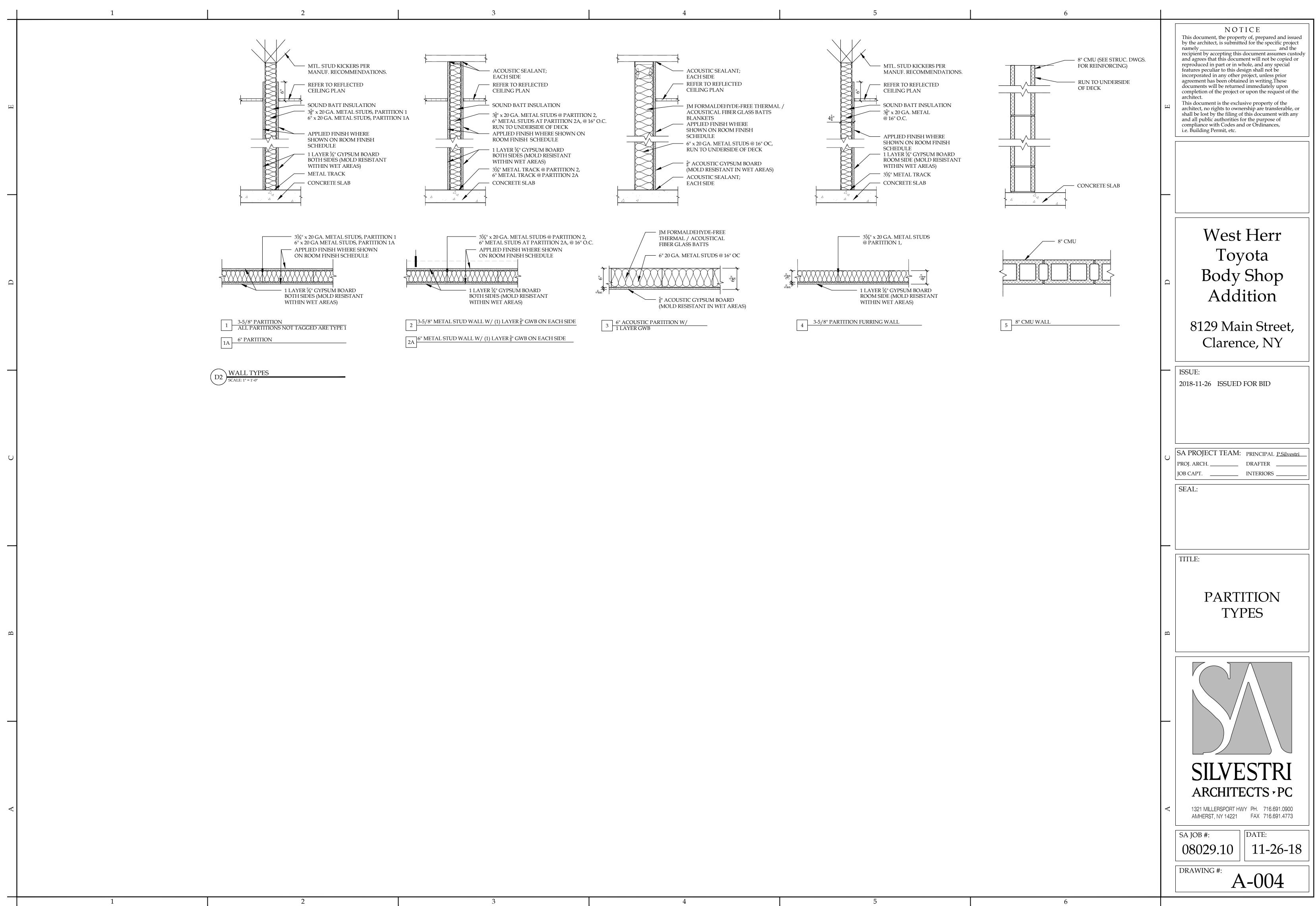
# 0.395 to 0.400

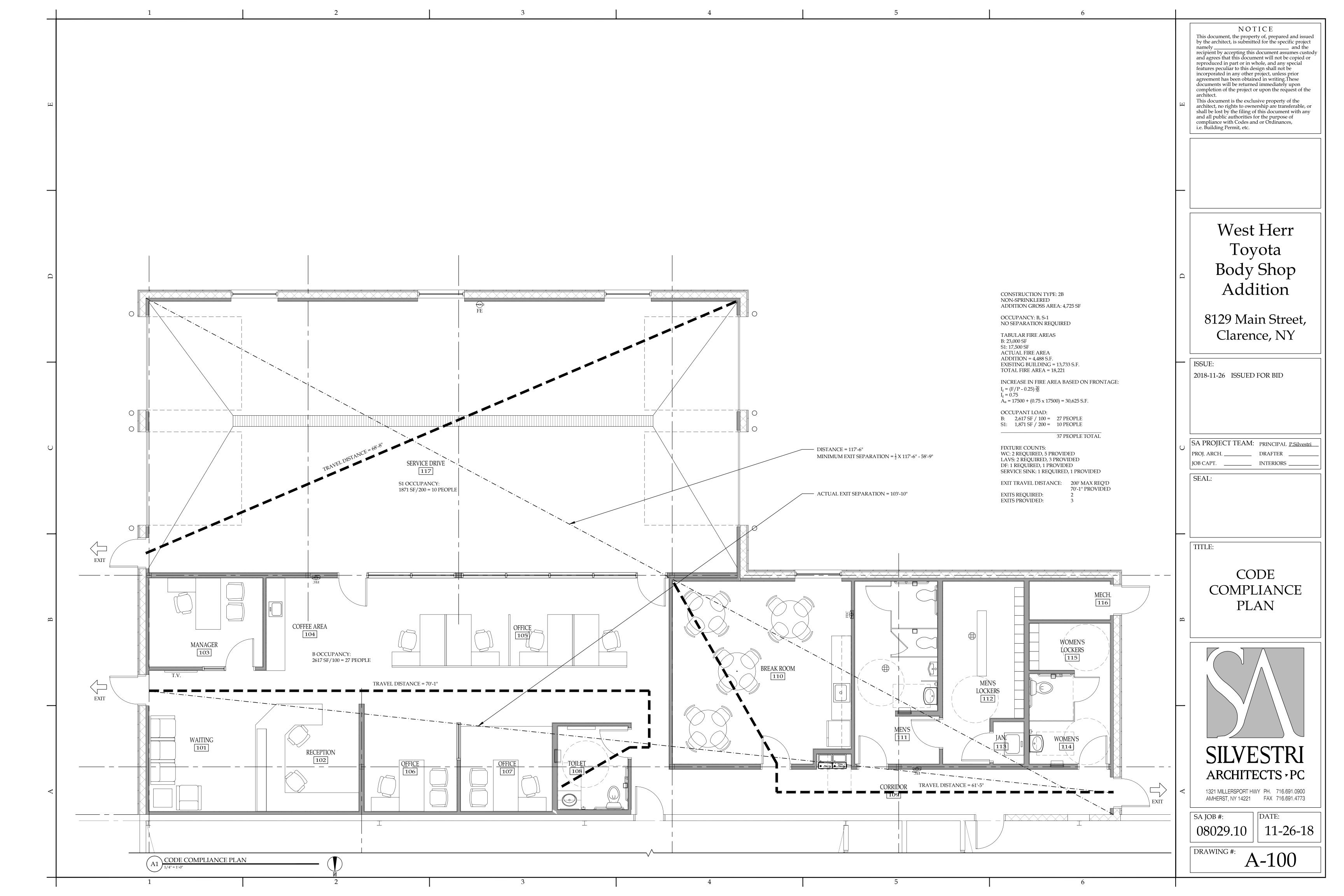
703.6.3.4 Volume-Controlled Telephones. Telephones with volume controls shall be identified by a pictogram of a telephone handset with radiating sound waves on a square

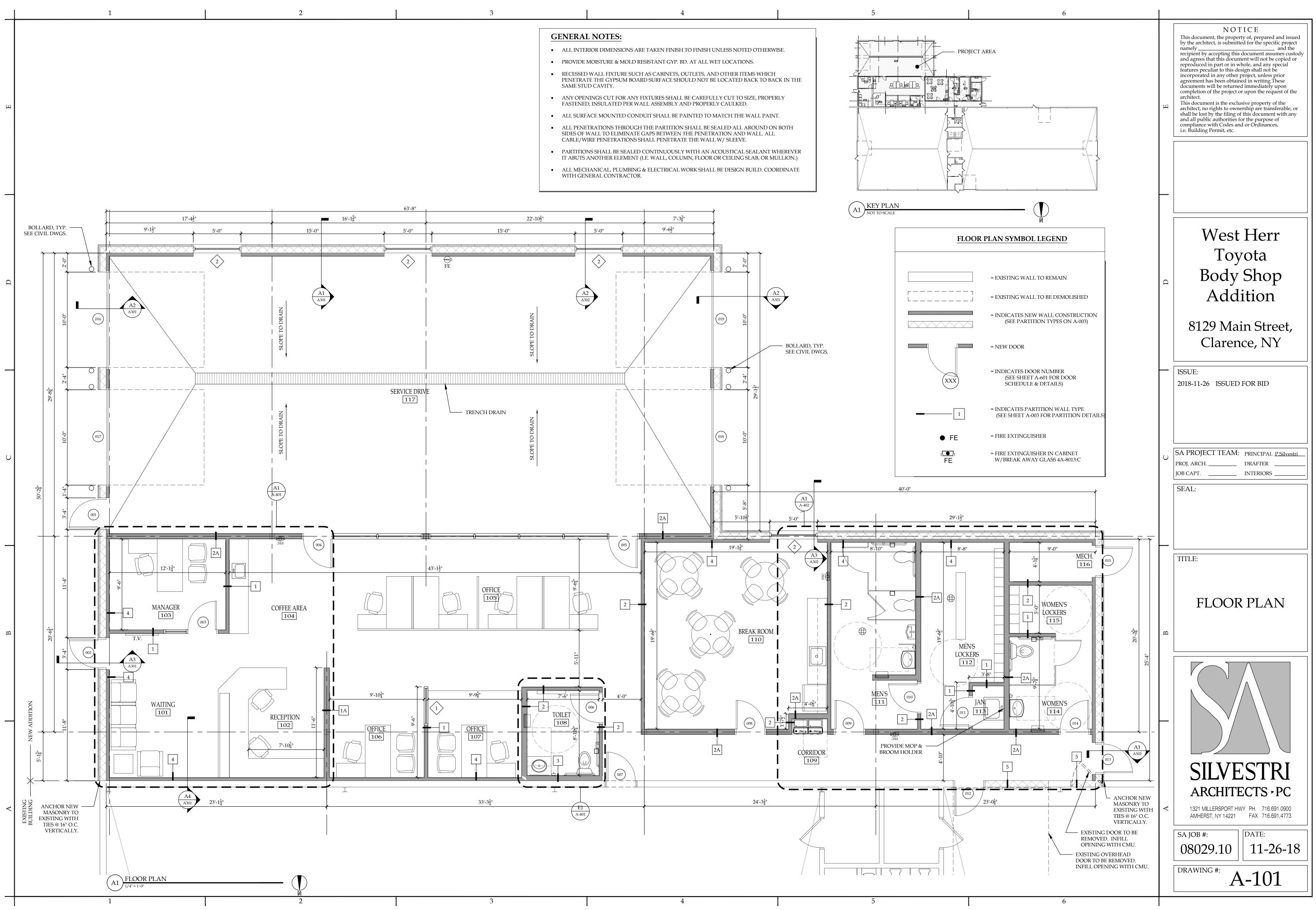
## INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

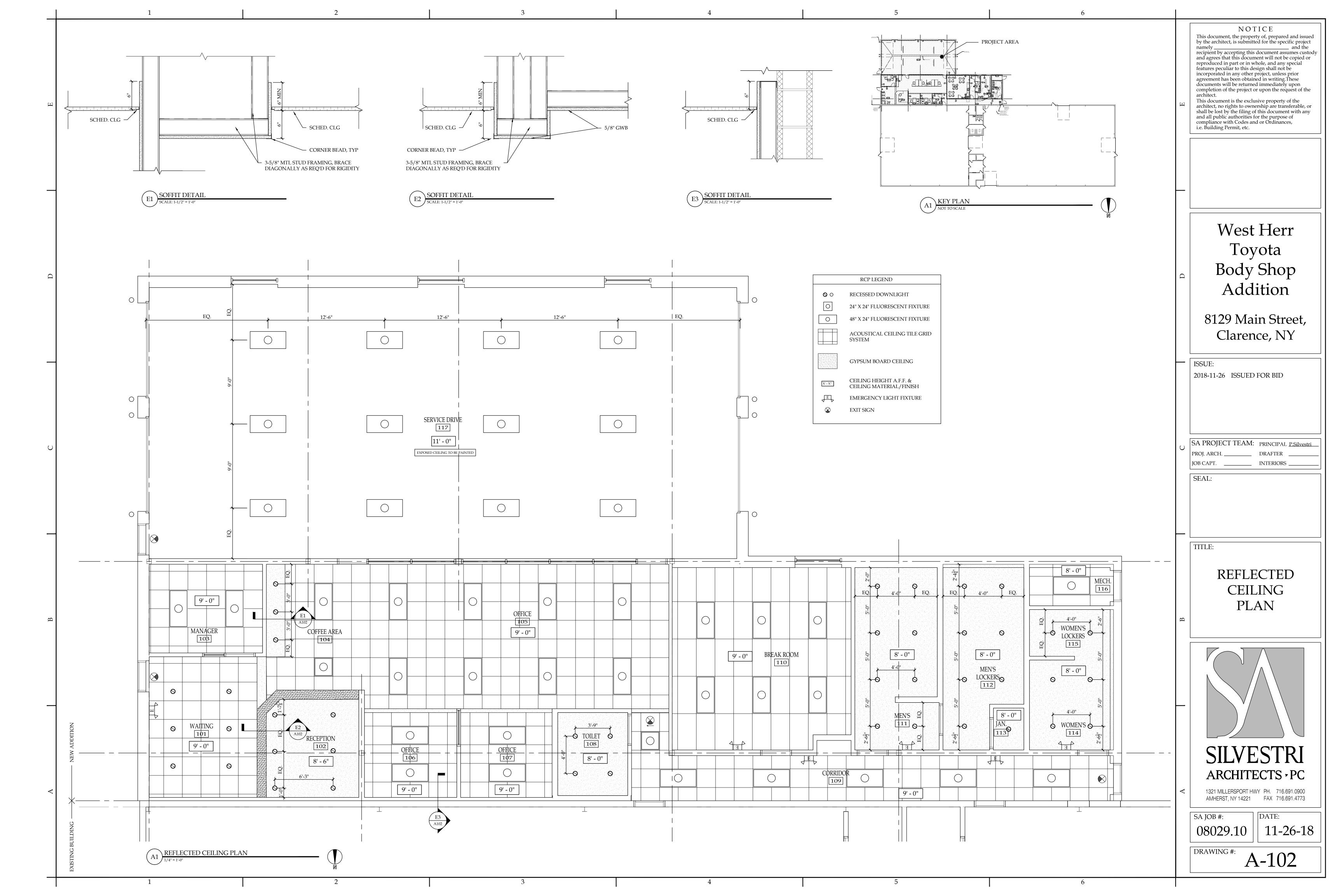
FIG. 703.6.3.4

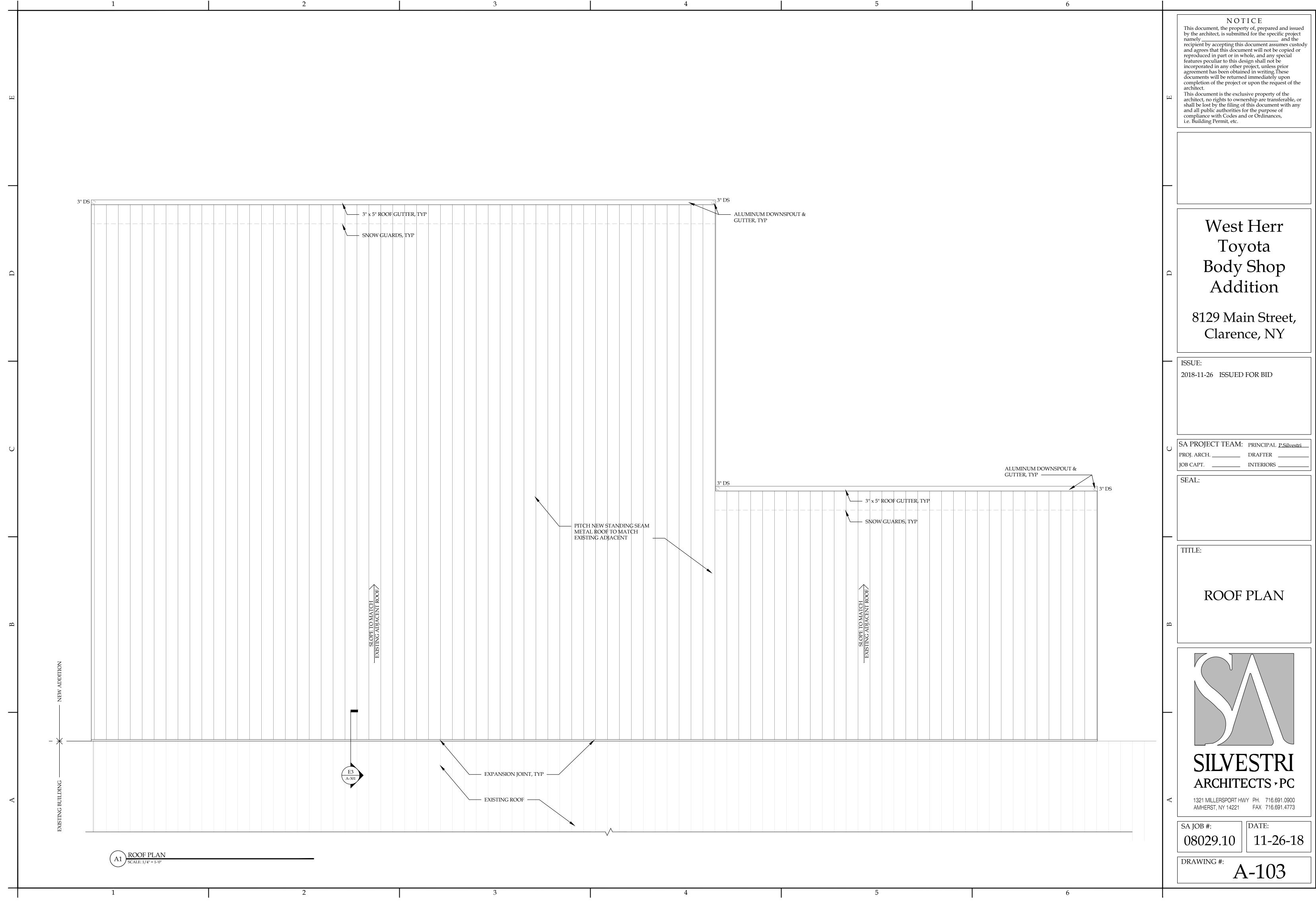
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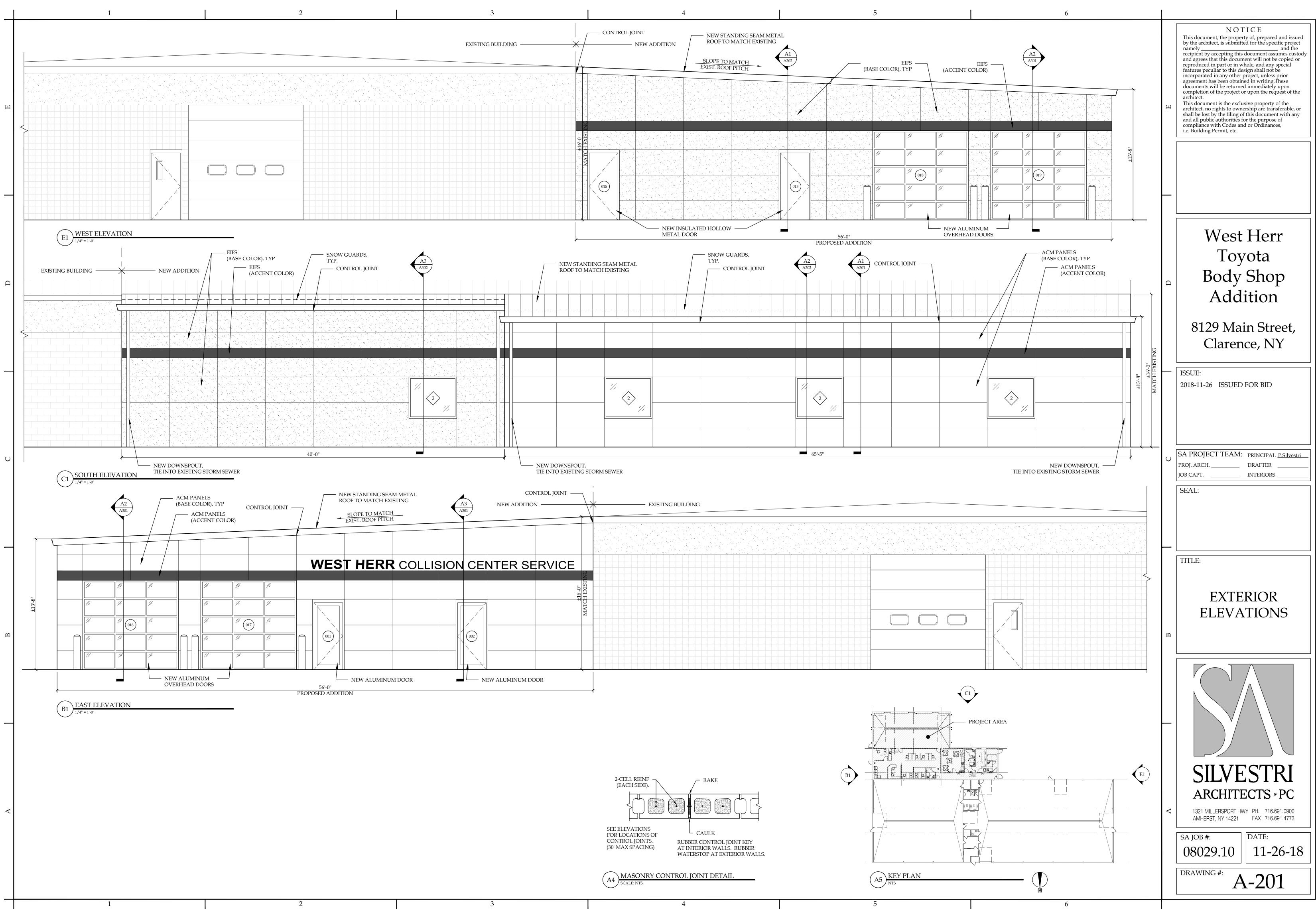




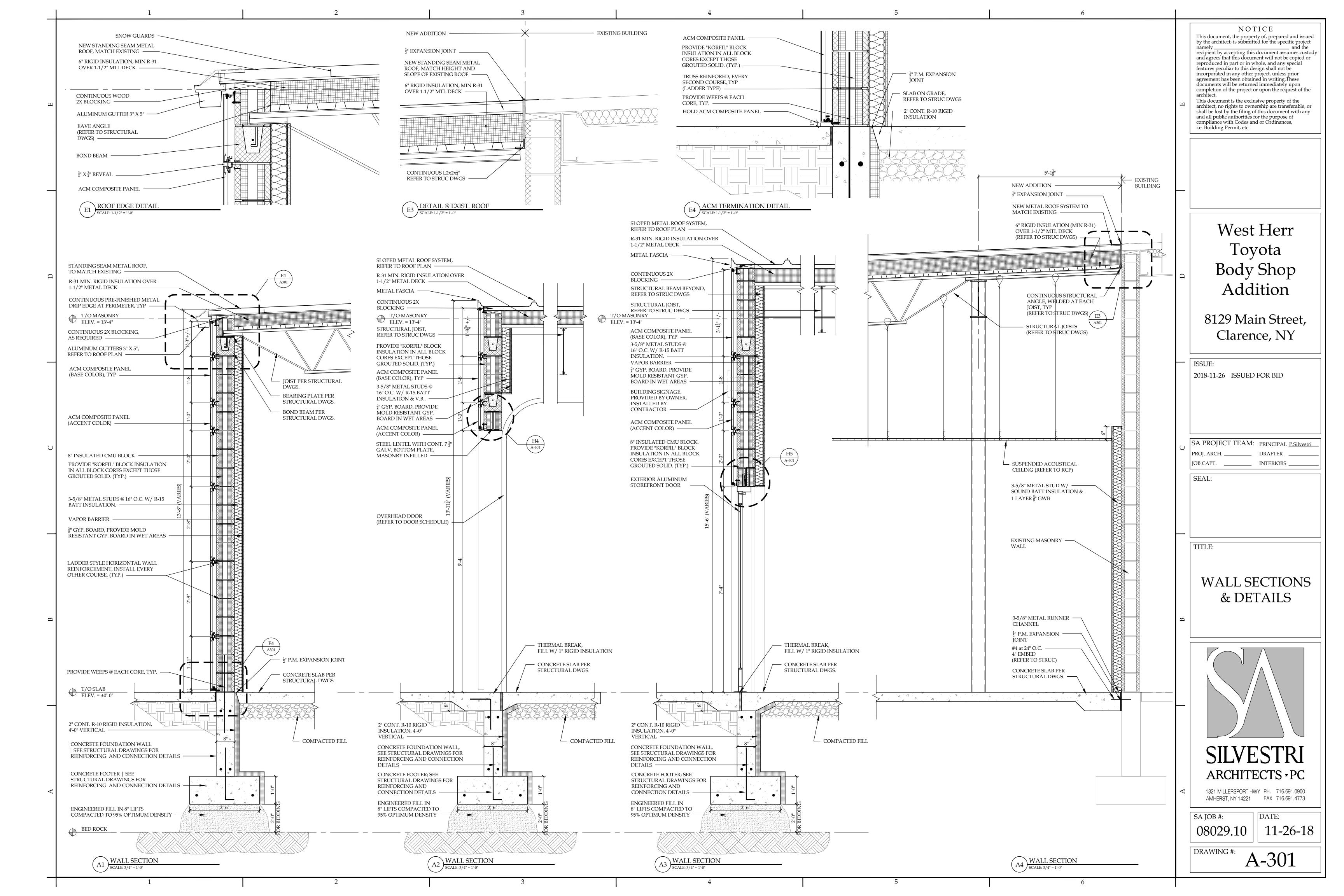


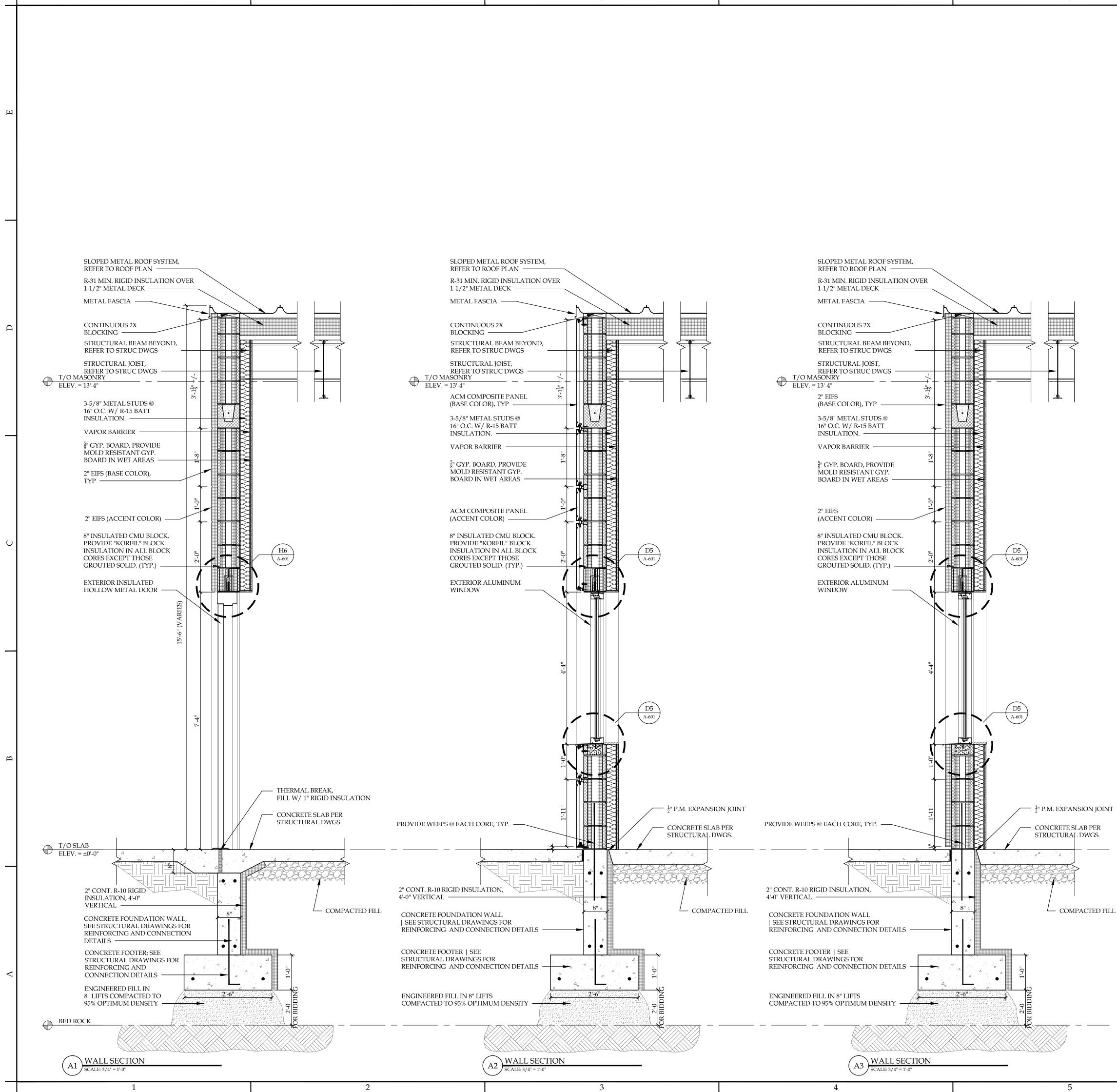




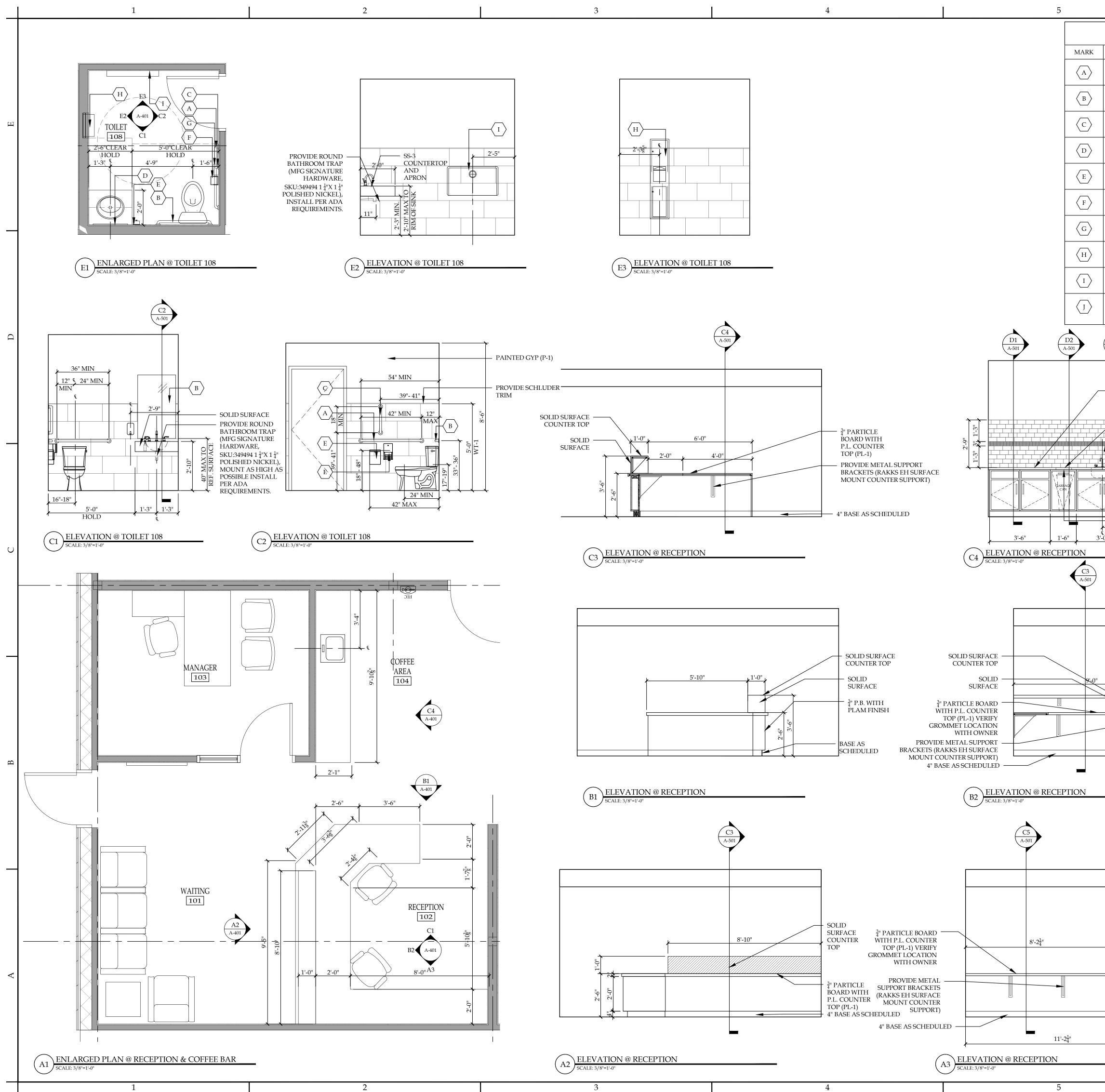


	MASONRY CONTROL JOINT DETAIL
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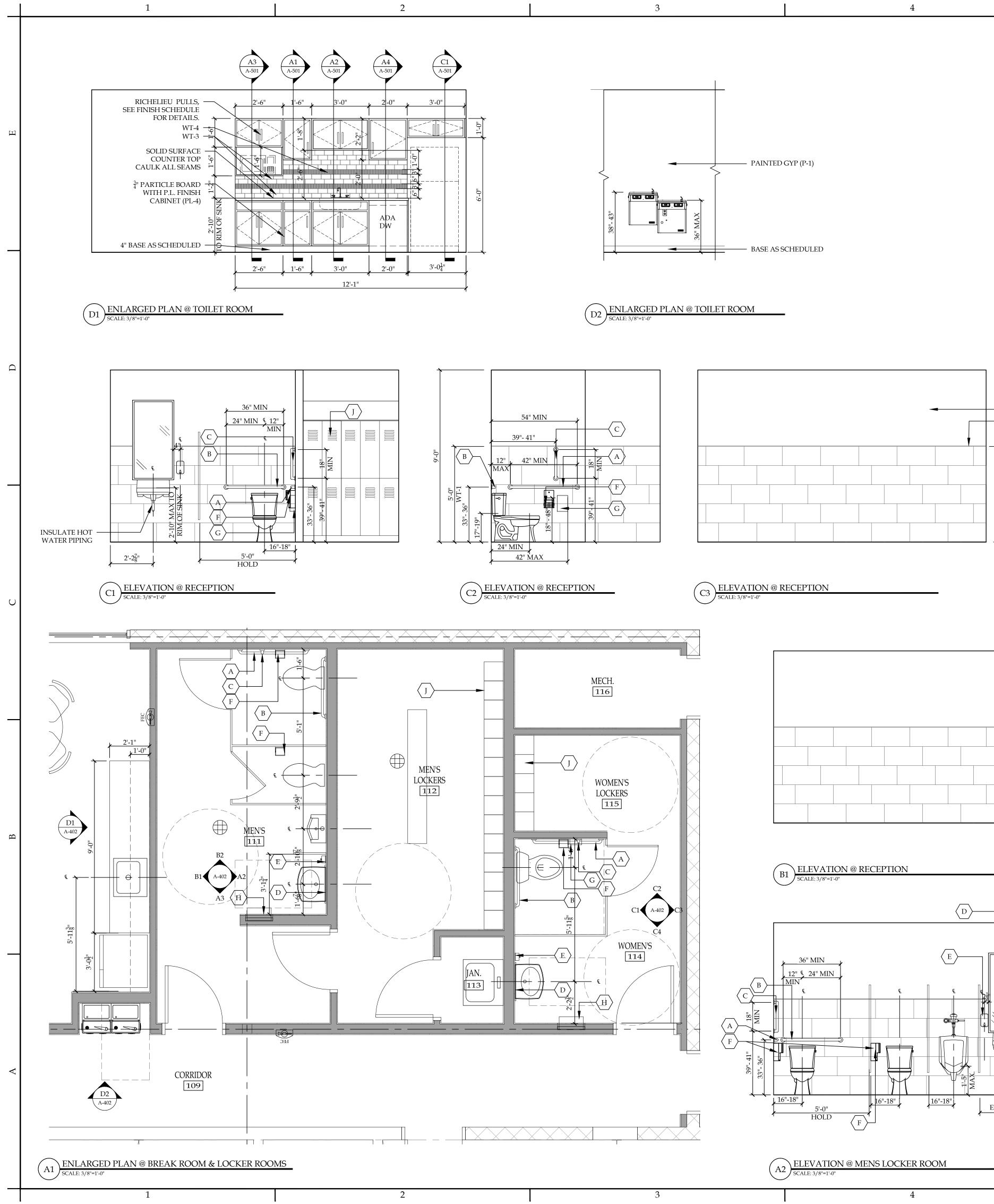




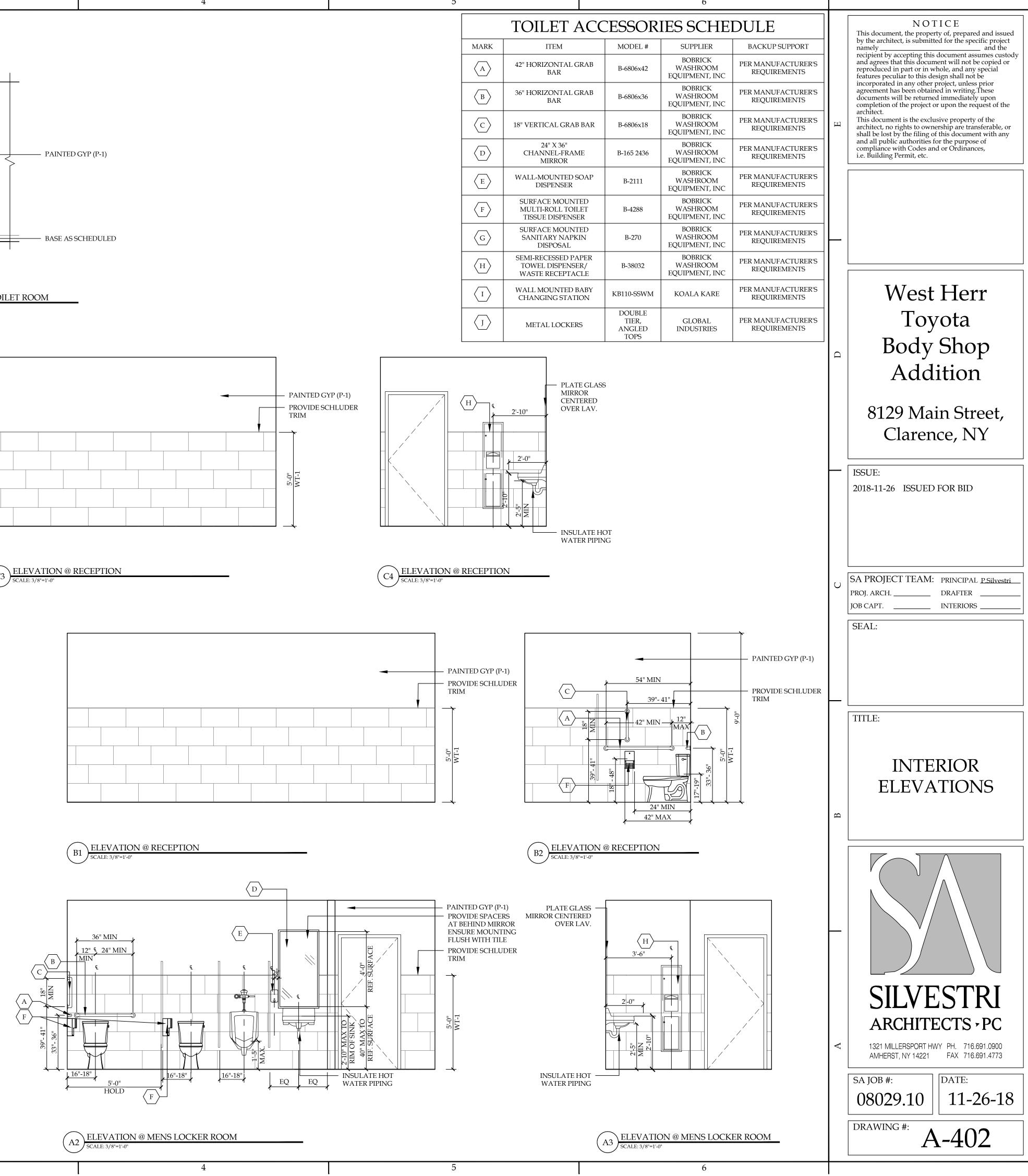
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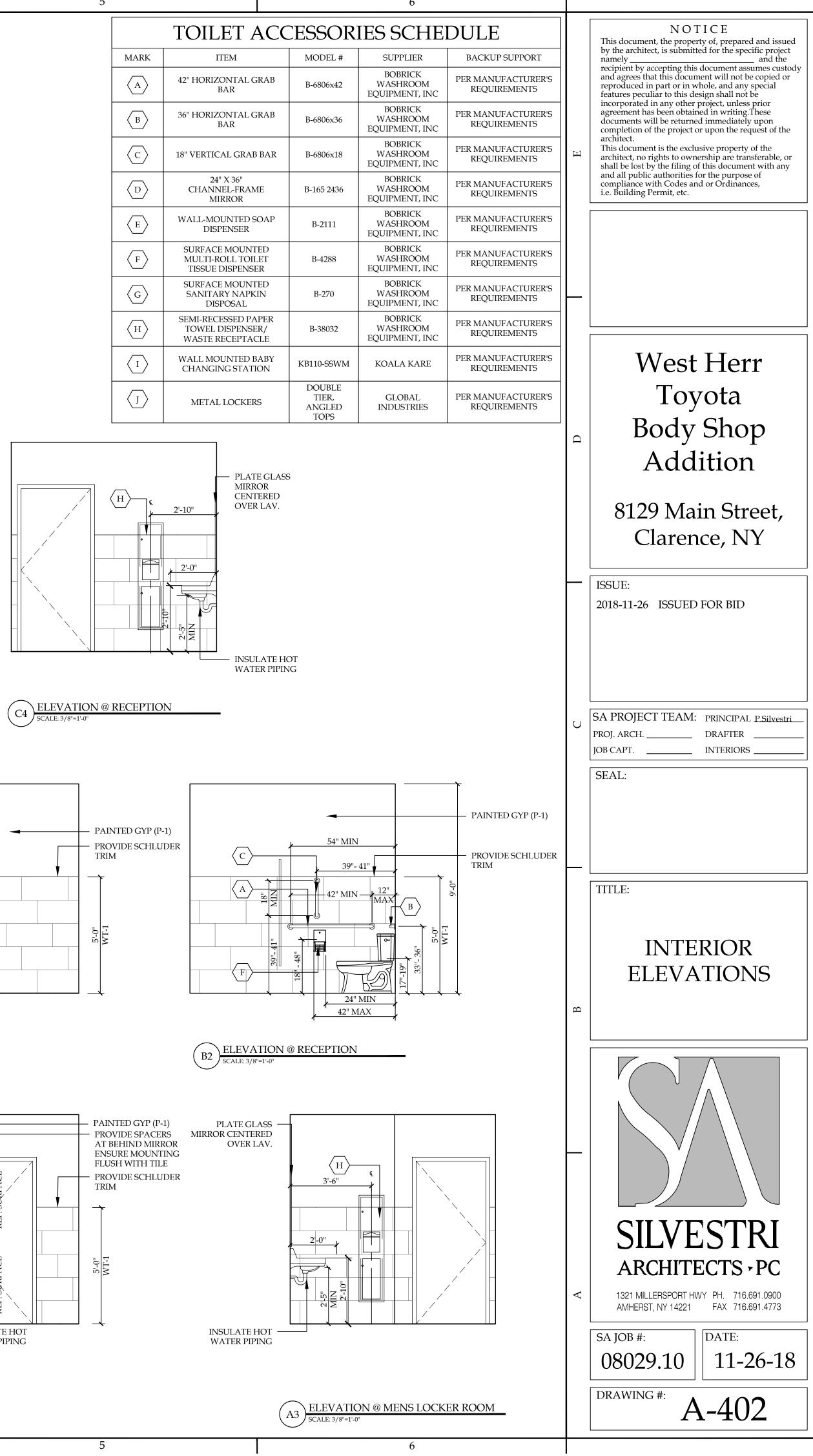


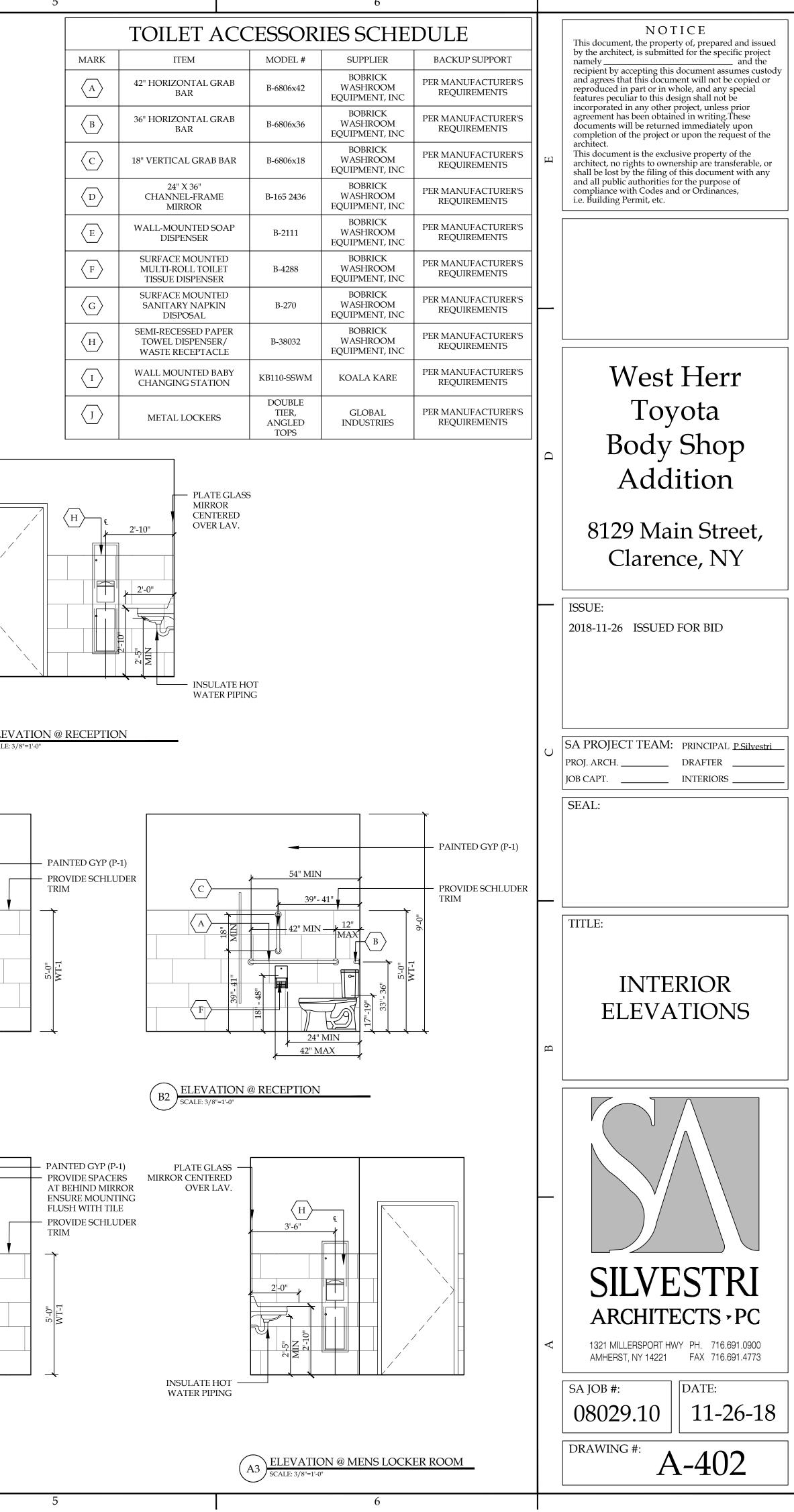
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N	URFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	B-4288	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS		
5	URFACE MOUNTED SANITARY NAPKIN DISPOSAL	B-270	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS	$\vdash$	
1	MI-RECESSED PAPER OWEL DISPENSER/ VASTE RECEPTACLE	B-38032	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS		
	ALL MOUNTED BABY HANGING STATION	KB110-SSWM	KOALA KARE	PER MANUFACTURER'S REQUIREMENTS		West Herr
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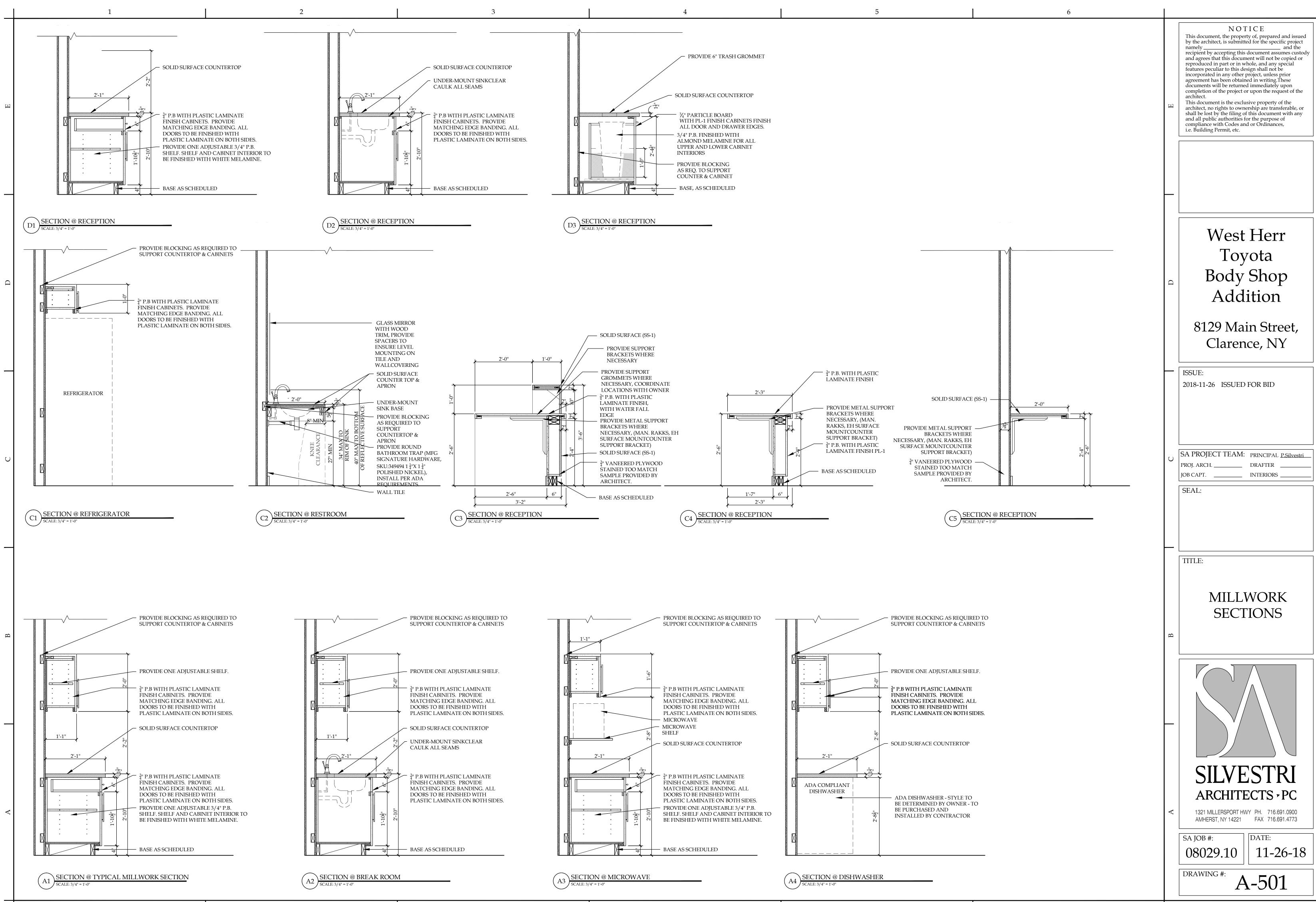




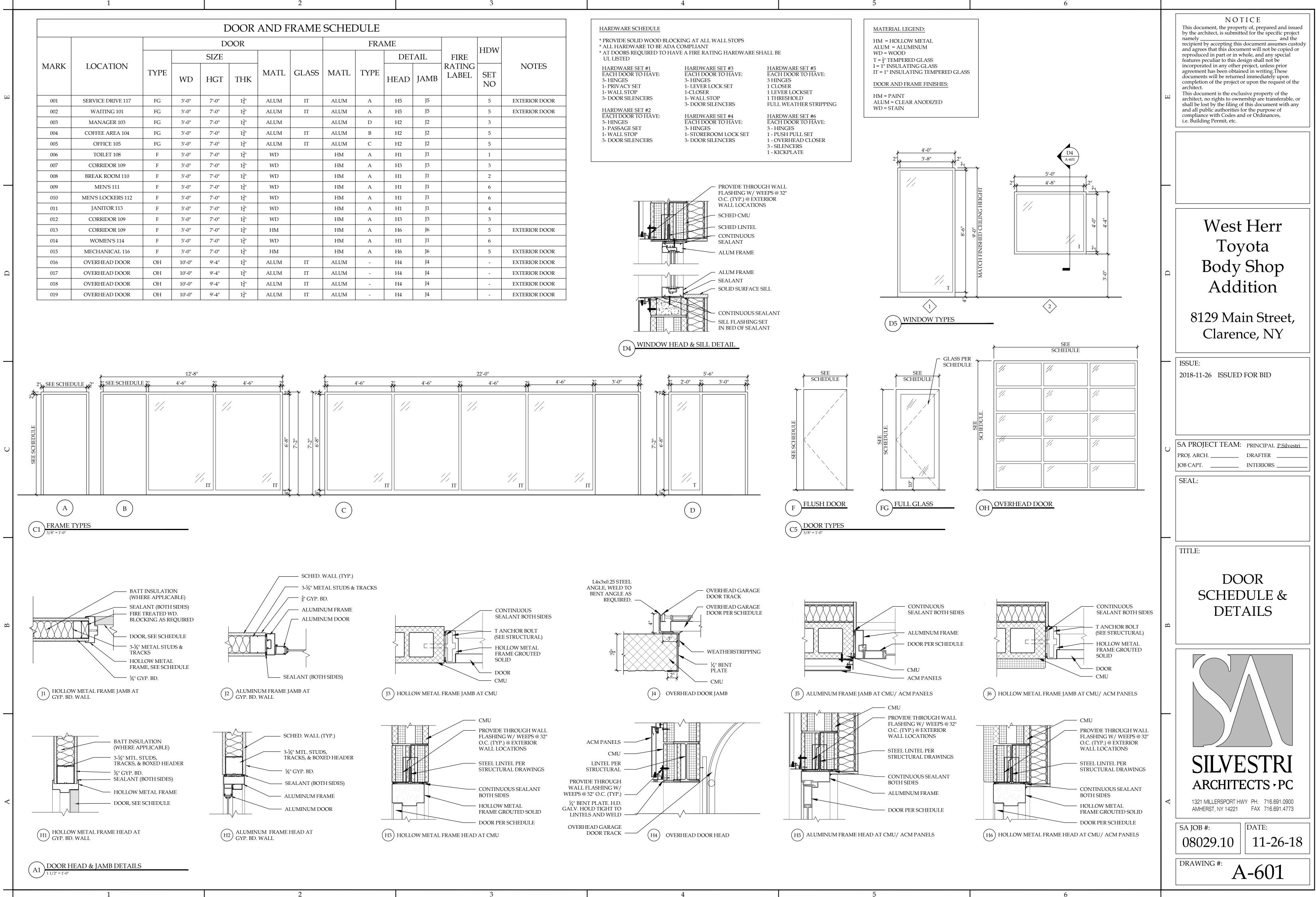








- 3



	ROOM FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEIL	ING	MILLWORK /SHROUD	COUNTEI TOP	
					MATERIAL	HEIGHTS			
101	WAITING	T-X	TB-X	GYP-P-X-EG	ACT-1	8'-6"			
102	RECEPTION	T-X	TB-X	GYP-P-X-EG	GYP	8'-6"	PL-X	SS-X	
103	MANAGER	CPT-1	B-X	GYP-P-X-EG	ACT-1	8'-6"			
104	COFFEE BAR	T-X	TB-X	GYP-P-X-EG	ACT-1	8'-6"			
105	OFFICE	CPT-1	B-X	GYP-P-X-EG	ACT-1	8'-6"			
106	CORRIDOR	T-X	TB-X	GYP-P-X-EG	ACT-1	8'-6"			
107	OFFICE	CPT-1	B-X	GYP-P-X-EG	ACT-1	8'-6"			
108	OFFICE	CPT-1	B-X	GYP-P-X-EG	ACT-1	8'-6"			
109	TOILET	T-X		GYP-P-X-EG/WT-X	GYP	8'-6"	PL-X	SS-X	
110	CORRIDOR	T-X	B-X	GYP-P-X-EG	ACT-1	8'-6"			
111	BREAKROOM	T-X	TB-X	GYP-P-X-EG	ACT-1	8'-6"			

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B-X

WALLS	MISCELLANEOUS		
FRP = FIBER REINFORCED PANEL	CAB = CABINET		
GWB = GYPSUM WALL BOARD	DR = DRAPERY		
P = PAINT	EG = EGGSHELL		
WC = WALLCOVERING	MISC = MISCELLANEOUS		
WT = WALL TILE	PL = PLASTIC LAMINATE		
CEILING	SS = SOLID SURFACE		
$\frac{\text{CEILING}}{\text{ACT}} = \text{ACOUSTIC CEILING TILE}$	ST = STAIR		
GYP = GYPSUM BOARD	TS = TRANSITION STRIP		
GII - GII JUNI DUARD			

GYP-P-X-EG/WT-X GYP

GYP

GYP

GYP

GYP

ACT-1

GYP-P-X-EG/WT-X

GYP-P-X-EG/FRP-X

GYP-P-X-EG/WT-X

GYP-P-X-EG/WT-X

GYP-P-X-EG

# BASE

112

113

114

115

116

116

FLOORS

CPT = CARPET

MEN'S

MEN'S LOCKER ROOM

JANITOR

WOMEN'S

WOMEN'S LOCKER ROOM

MECH

LVT = LUXURY VINYL TILE

VCT = VINYL COMPOSITE TILE

1

SC = SEALED CONCRETE

SF=SPORTS FLOOR

T = TILE

RB = RUBBER BASE TB = TILE BASE

WB = WOOD BASE

DOORS

T-X

T-X

T-X

T-X

T-X

SC

WD = WOOD DOOR

WS = WOOD STAIN WV = WOOD VENEER

2

8'-6"

8'-6"

8'-6"

8'-6"

8'-6"

8'-6"

P.B. = PARTICLE BOARD GYP = GYPSUM BOARD

# MATERIALS

REMARKS

FINISH SELECTIONS						
PAINT (P-X): (P-1) GENERAL WALL COLORMANUFACTURER:SHERWIN WILLIAN COLOR:COLOR:TO BE SELECTED FINISH:FINISH:SATIN						
<b>(P-2) ACCENT -</b> MANUFACTURER: COLOR: FINISH:	SHERWIN WILLIAMS TO BE SELECTED SATIN					
<b>(P-3) TRIM -</b> MANUFACTURER: COLOR: FINISH:	SHERWIN WILLIAMS TO BE SELECTED SEMI-GLOSS					
CARPET (CPT-X):						
(CPT-1) MANUFACTURER: COLLECTION: STYLE: COLOR: SIZE: INSTALLATION:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED					
<b>BASE (B-X):</b>						
<b>(B-1)</b> MANUFACTURER: STYLE: COLOR: HEIGHT:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED					
TILE(T-X): (T-1) MANUFACTURER: COLLECTION: STYLE: COLOR: SIZE: INSTALLATION:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED					
TILE BASE (TB-X):						
(TB-1) MANUFACTURER: STYLE: COLOR: HEIGHT:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED					
SOLID SURFACE (SS-X):						
(SS-1) RECEPTION MANUFACTURER: STYLE: FINISH:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED					
PLASTIC LAMINATE	E (PL-X):					
(PL-1) MANUFACTURER: STYLE:						
ACOUSTICAL CEILING TILE (ACT-X):						
(ACT-1) MANUFACTURER: STYLE: COLOR: SIZE: THICKNESS: SUSPENSION SYS.: COLOR:	TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED TO BE SELECTED WHITE					
FIBERGLASS REINFO	ORCED PANELS(FRP-X):					

(FRP-1)	
MANUFACTURER:	TO BE SELECTED
STYLE:	TO BE SELECTED
FINISH:	TO BE SELECTED

CTED CTED CTED FIBERGLASS REINFORCED PANELS(FRP-X):

# GENERAL NOTES

G1. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE FOLLOWING FINISHES UNLESS DIRECTED BY THE O

G2. MANY FINISH MATERIALS REQUIRE A SUBSTANTIAL LEAD TILE. IT IS THE RESPONSIBILITY OF THE CONTRACT APPROPRIATE TIME. ANY FEES INCURRED AS A RESULT OF FINISHES NOT BEING ORDERED ON TIME WILL BE T G3. ANY AND ALL FINISH SELECTIONS/COLORS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL ACCOUNT

THAT IS INSTALLED WITHOUT ARCHITECTS APPROVAL MAY BE REQUIRED TO BE REMOVED AND REPLACED I G4. CONTACT THE ARCHITECT FOR CLARIFICATION IN THE EVENT OF CONTRADICTORY INFORMATION BETWEEN SPECIFICATIONS.

G5. IF COLOR OR FINISH IS NOT SPECIFIED CONTACT THE ARCHITECT FOR CLARIFICATION.

G6. ALL PAINTING, INCLUDING MEP ITEMS THAT REQUIRE PAINTING, IS UNDER THE PAINTER'S SCOPE OF WORK.

G7. ALL INTERIOR PRODUCTS TO MEET/EXCEED FLAME SPREAD RATING PER CODE.

G8. PROVIDE MOISTURE RESISTANT GREEN BOARD AROUND 3 WALL SURROUND OF ALL DRINKING FOUNTAINS.

G9. ALL BRACKETS SUPPORTING SHELVING/ ADJUSTABLE SHELVING TO BE EXTRA HEAVY DUTY AND PAINTED T

G10. ALL HARDWARE TO BE SELECTED.

G12. ALL SURFACES TO RECEIVE 1 PRIMER PAINT COAT AND 2 FINISH PAINT COATS.

**CEILINGS**:

G1. ALL GYPSUM BOARD CEILINGS AND GYPSUM BOARD SOFFITS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINIS FINISH. COLOR TO BE SHERWIN WILLIAMS - CEILING WHITE, UNLESS OTHERWISE NOTED.

G2. ALL EXPOSED MECHANICAL DUCT COVERS SHALL BE PAINTED TO MATCH THE SURROUNDING WALL/CEILIN

G3. PROVIDE A SMOOTH LEVEL 4 FINISH ON ALL GWB CEILINGS.

# WALLS:

G1. ALL GWB WALLS SHALL BE FINISHED TO LEVEL 4 DRYWALL FINISH AND INCLUDE (1) COAT WALL PRIMER FO INTERIOR WALL SURFACE UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SEE SPEC FOR DETAILS.

G2. ALL SURFACE MOUNTED CONDUITS SHALL BE PAINTED TO MATCH WALL PAINT. G3. REFERENCE FINISH FLOOR PLAN FOR ACCENT COLOR LOCATIONS.

G6. WHERE DARK PAINT COLORS ARE APPLIED, USE DEEP GRAY BASE PRIMER TO PREVENT BURNISHING.

FLOORS:

G1. CONDUCT MOISTURE TESTS ON ALL CONCRETE SLABS WHERE FINISH MATERIALS ARE SCHEDULED. RECORD START OF INSTALLATION. REFERENCE MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR EACH FLOOR FINIT

G2. CONTRACTOR TO PROVIDE (TS-1) AT ALL FLOORING MATERIAL CHANGED NEEDING THRESHOLDS. NECESSA CONTRACTOR AND V.I.F. BASED ON MATERIAL THICKNESS.

G3. INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED ON THE FINISH PLAN.

G4. ALL FLOOR FINISHES TO EXTEND BELOW ALL MILLWORK.

# MILLWORK:

G1. PROVIDE CLEAR BEAD OF SILICONE OR CLEAR CAULK TO SEAL BETWEEN MILLWORK PIECES (IE: COUNTERTO WALL (TYPICAL).

G2. ALL COLOR SELECTION OF METAL SUPPORTS TO MATCH ADJACENT WALL.

G3. MILLWORK FINISHES ON SHOP DRAWINGS MUST BE APPROVED BY ARCHITECT PRIOR TO PRODUCTION.

G5. ALL CABINET HARDWARE TO BE SELECTED.

4

G8. ALL PLASTIC LAMINATE CABINET DOORS TO BE FINISHED IN PLASTIC LAMINATE ON BOTH SIDES TO PREVENT

# **OUTLETS:**

G1. ALL ELECTRICAL DEVICES (OUTLET, SWITCHES, COVERS, ETC) TO BE SELECTED.

# SIGNAGE:

G1. SIGNAGE LOCATIONS WILL NEED TO BE PROVIDED AND INSTALLED BY CONTRACTOR. TO BE SELECTED AND PRIOR TO MANUFACTURER/ PURCHASE TO BE PROVIDED BY ASI SIGNAGE.

JANITORIAL:

G1. FRP-1 TO BE INSTALLED UP TO 48" AFF WITH SPECIFIED PAINT ABOVE.

	6		
OWNER OR THE ARCHITECT. TOR TO ORDER ALL MATERIALS AT THE THE RESPONSIBILITY OF THE CONTRACTOR. UNTING FOR PROPER LEAD TILE.ANY FINISH BY THE GENERAL CONTRACTOR. EN DRAWINGS, LEGEND, AND/OR (.		E	NOTICE         This document, the property of, prepared and issued by the architect, is submitted for the specific project namely and the recipient by accepting this document assumes custody and agrees that this document will not be copied or reproduced in part or in whole, and any special features peculiar to this design shall not be incorporated in any other project, unless prior agreement has been obtained in writing. These documents will be returned immediately upon completion of the project or upon the request of the architect.         This document is the exclusive property of the architect, no rights to ownership are transferable, or shall be lost by the filing of this document with any and all public authorities for the purpose of compliance with Codes and or Ordinances, i.e. Building Permit, etc.
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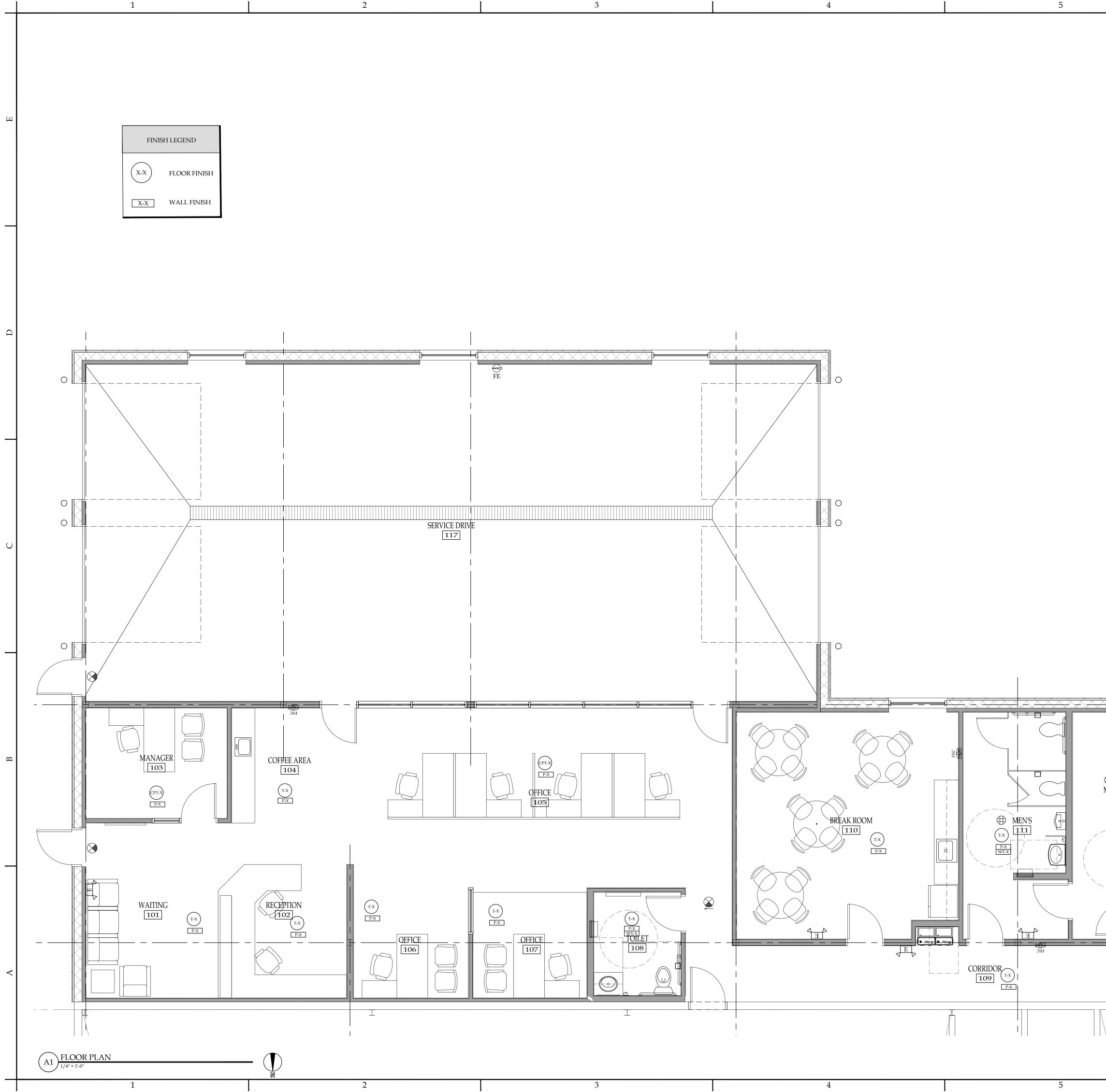


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