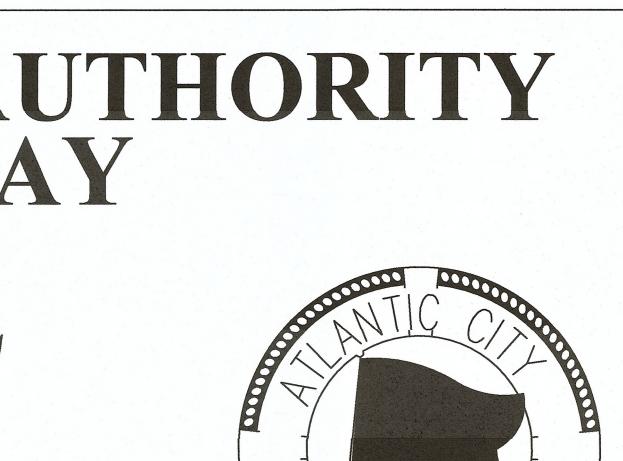
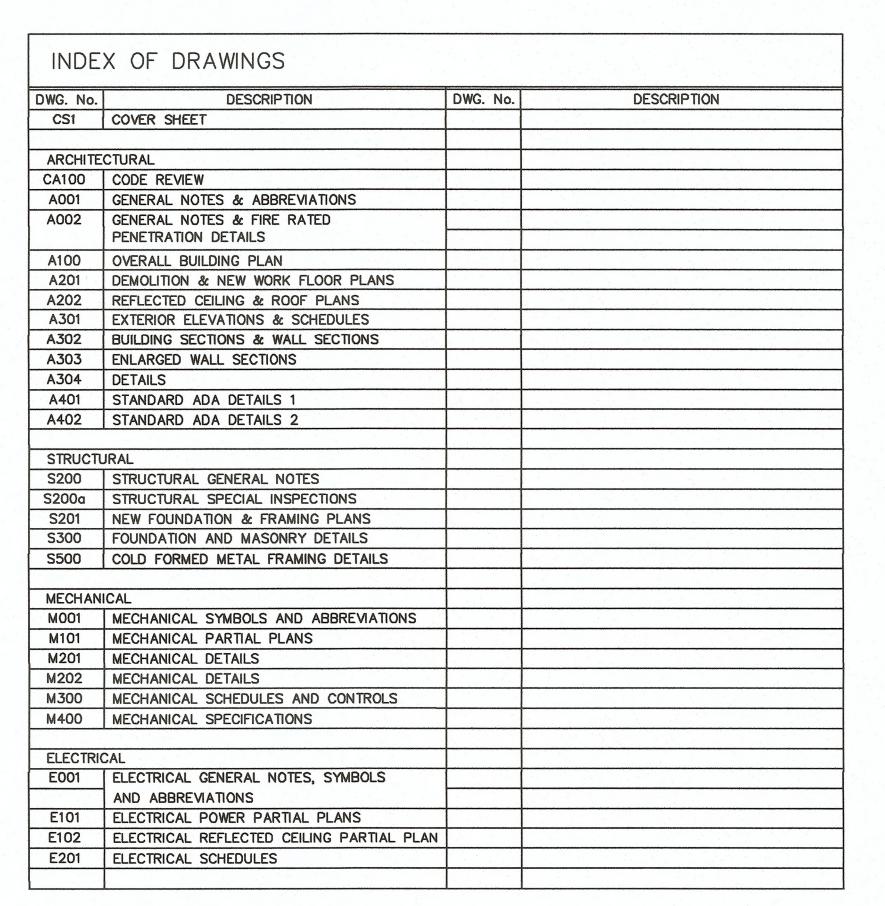


# **2021 WEST MAINTENANCE**

APPROVED BY SOUTH JERSEY TRANSPORTATION AUTHORITY





PREPARED AND RECOMMENDED BY:

Mary Dasti Aug 17 2021 10:37 AM

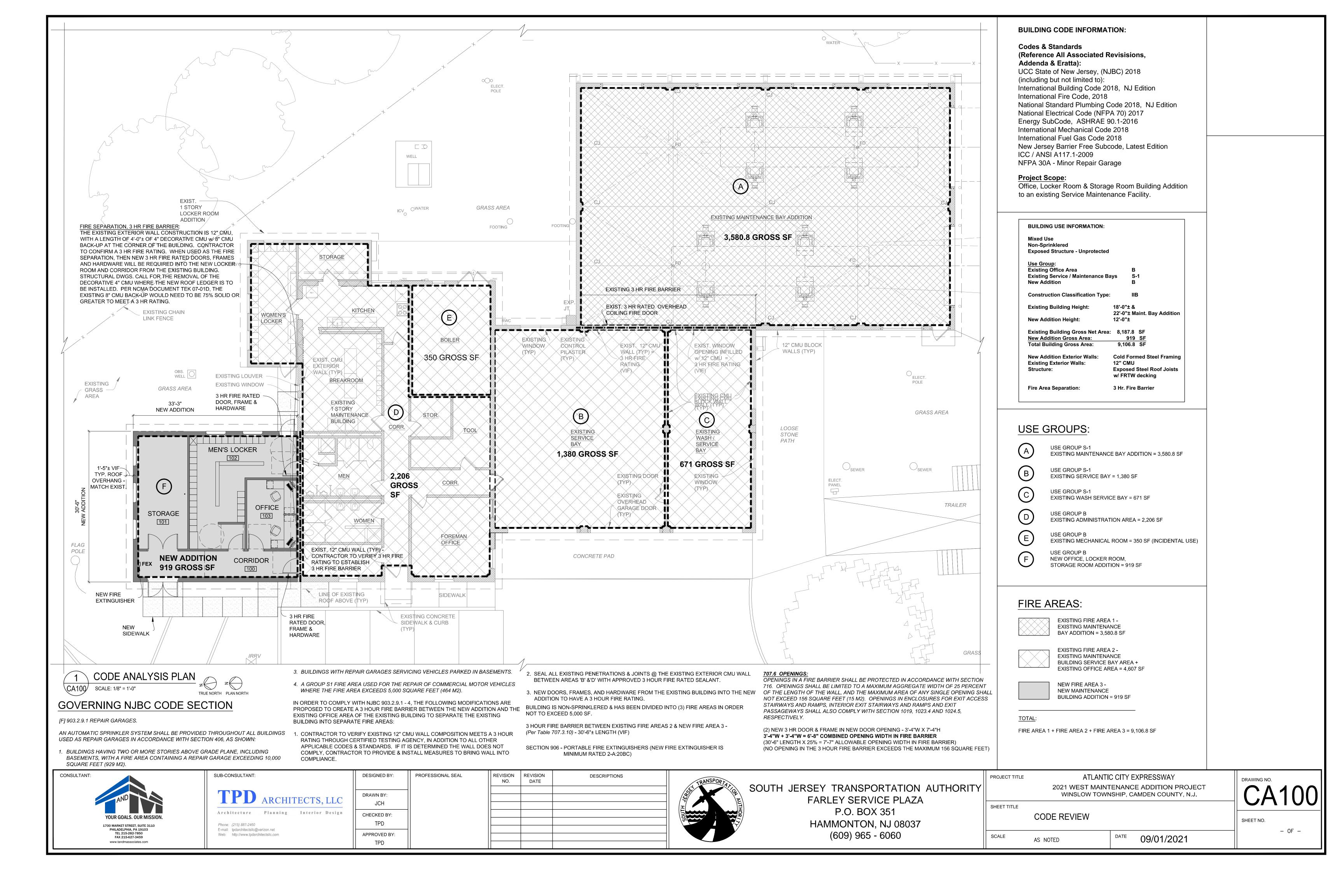
M. ELAINE DASTI, P.E. NEW JERSEY PROFESSIONAL ENGINEER T & M ASSOCIATES

DATE

P.T.O.E.

19/21

CHIEF ENGINEER SOUTH JERSEY TRANSPORTATION AUTHORITY



# GENERAL NOTES

- THESE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE OF CONTRACTORS, SUBCONTRACTORS AND MATERIALS SUPPLIERS. CONTRACTORS, SUBCONTRACTORS AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS FOR BIDDING AND PERFORMING THEIR WORK AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THE CONSTRUCTION REGARDLESS OF WHERE THE INFORMATION OCCURS IN THE DRAWINGS.
- THESE DRAWINGS ARE PART OF A SET OF PROJECT DOCUMENTS WHICH INCLUDE A PROJECT MANUAL (WRITTEN SPECIFICATIONS) AND THIS DRAWING SET. BOTH THE PROJECT MANUAL AND THE DRAWING SET ARE TO BE USED IN BIDDING, CONSTRUCTING AND ALL ASPECTS OF THE WORK.
- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH ALL APPLICABLE STATE, LOCAL, FEDERAL CODES AND ORDINANCES, SOUTH JERSEY TRANSPORTATION AUTHORITY (SJTA) RULES AND REGULATIONS, NEW JERSEY DEPARTMENT OF CONSUMER AFFAIRS (DCA) AND AUTHORITIES HAVING JURISDICTION OVER THE WORK, UNIFORM CONSTRUCTION CODE OF THE STATE OF NEW JERSEY, PROJECT MANUAL AND OSHA STANDARDS. IN THE EVENT OF CONFLICT, THE MOST STRINGENT CODE SHALL APPLY. IN ADDITION, ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.
- CONFINE OPERATIONS TO AREAS WITHIN CONTRACT LIMITS INDICATED. PORTIONS OF THE SITE BEYOND AREAS IN WHICH CONSTRUCTION OPERATIONS ARE INDICATED ARE NOT TO BE DISTURBED. CONTRACTOR WILL BE ASSIGNED AN AREA AT GRADE, BUT NOT NECESSARILY CONTIGUOUS TO THE CONSTRUCTION SITE AREA, FOR HIS USE DURING CONSTRUCTION FOR DUMPSTER AND STORAGE FACILITIES. THIS AREA SHALL BE UNDER THE CONTROL OF THE CONTRACTOR SUBJECT TO APPROVAL OF THE ENGINEER, AIRPORT OPERATIONS AND IN COOPERATION WITH OTHER CONTRACTORS OPERATING AT THE SITE.
- THE CONTRACTOR SHALL MAINTAIN THE EXISTING BUILDINGS IN A WEATHER TIGHT CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTORS ARE RESPONSIBLE FOR KEEPING THE INTERIOR OF THE GARAGE OFFICE AREA WEATHER TIGHT AND DRY AT ALL TIMES DURING THE COURSE OF THE PROJECT. THIS INCLUDES SETUP, DEMOLITION, REPAIR AND RECONSTRUCTION OF THE EXISTING SPACE, HVAC UNITS, MECHANICAL, ELECTRICAL SYSTEMS, EQUIPMENT, CURBS, ETC. PROVIDE WATER TIGHT TEMPORARY COVERS OVER ALL OPENED DUCTWORK, BOXES, AND ROOFTOP PENETRATIONS. THE CONTRACTOR SHALL IMPLEMENT EVERY PRECAUTION NECESSARY TO ASSURE NO DAMAGE WILL BE MADE TO THE EXISTING ROOFING, WALL PANELS, FINISHES, SYSTEMS AND EQUIPMENT. ANY DAMAGE RESULTING FROM THIS WORK TO THE TERMINAL FINISHES, SYSTEMS AND /OR EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMMEDIATE RESOLUTION OF ANY DAMAGE AND THE REPLACEMENT OF ANY MATERIAL, SYSTEMS AND EQUIPMENT TO MATCH THE EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- THREE DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL CONTACT "NJ ONE CALL" AT 1-800-272-1000 TO DETERMINE LOCATION OF UNDERGROUND UTILITIES. CONTRACTORS 17. THESE DRAWINGS REPRESENT A COMPILATION OF ORIC SHALL NOT BEGIN WORK UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN MARKED AND IDENTIFIED ON THE PROJECT SITE. UTILITIES SHOWN ON DRAWING ARE NOT ALL INCLUSIVE OF EXISTING CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT, BY ENLISTING THE SERVICES OF A PRIVATE UTILITY LOCATING COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. NO REIMBURSEMENT OR LEGAL CLAIMS WILL BE ALLOWED FOR UTILITY REPAIR AND/OR REPLACEMENT AND RESULTING DAMAGE OR INJURIES.
- THE CONTRACTOR SHALL RECOGNIZE THAT THIS WORK WILL OCCUR ON SOUTH JERSEY TRANSPORTATION AUTHORITY PROPERTY AND AS SUCH NECESSARY PRECAUTIONS AND POLICIES MUST BE ADHERED TO.

CORNER GUARD

# ABBREVIATIONS

		0
ABV	ABOVE	CG
AFF	ABOVE FINISHED FLOOR	DCU
ACT	ACOUSTICAL TILE	DK
ADD	ADDITION	D
ADJ	ADJUSTABLE	DTL
AC	AIR CONDITIONER	DIM
ALT	ALTERNATE	DISP
ALUM	ALUMINUM	DR
2	ANGLE	DN
	-	DWR/DRW
APPROX	APPROXIMATE	DW
ARCH	ARCHITECURAL	EWC
ATTEN	ATTENUATION	ELEC
AUTO	AUTOMATIC	EL
BM	BEAM	ELEV
BRG	BEARING	EQUIP EP
BPW	BEDPAN WASHER	EXAM
BR	BEDROOM	EXCL
BLK'G	BLOCKING	EXIST/EXG
BRK	BRICK	EXP JT
BLDG	BUILDING	F
BUR	BUILT-UP ROOF	FIN
CAB	CABINET	FHC
CCU	CORONARY CARE UNIT	FIXT
CPT	CARPET	FD
СВ	CATCH BASIN	FLUOR
CLG	CEILING	FRMG FUR'G
СН	CEILING HEIGHT	GALV
-	CERAMIC TILE	GA
CT		G
CLR		GB
C/S	CLINICAL SINK	GWB HC
COL	COLUMN	HDW
CONC	CONCRETE	HT
CMU	CONCRETE MASONRY UNIT	HP
CONF	CONFERENCE	НМ
CJ	CONSTRUCTION JOINT	HR
	CONTINUOUS CONTRACTOR	
CONTR CORR	CORRIDOR	ICU
CNTR	COUNTER	ILLUM
ССТ	CUBICLE CURTAIN TRACK	

	DAY CARE UNIT
	DECK
	DEPTH
	DETAIL
	DIMENSION
	DISPENSER
	DOOR
	DOWN
NR	DRAWER
	DRYWALL
	ELECTRIC WATER COO
	ELECTRICAL
	ELEVATION
	ELEVATOR
	EQUIPTMENT
	EPOXY PAINT
	EXAMINATION
	EXCLUDED
G	EXISTING
	EXPANSION JOINT
	FEMALE
	FINISH
	FIRE HOSE CABINET
	FIXTURE
	FLOOR DRAIN
	FLUORESCENT
	FRAMING
	FURRING GALVANIZED
	GAUGE
	GAS
	GRAB BAR
	GYPSUM WALLBOARD
	HANDICAP
	HARDWARE
	HEIGHT
	HIGH POINT
	HOLLOW METAL
	HOUR
	INTENSIVE CARE UNIT

l	JC
_	KNEES
SION	L
	LL
NSER	LGH LPC
	LPC
ER	LT WT (
	LVR
	MACH
RIC WATER COOLER	M
RICAL	MAS
TION TOR	МО
TMENT	MAT'L
' PAINT	MAX
NATION	MECH
	MED
DED	MGP
NG	MTL
SION JOINT	MH
E	MIN
	MR
OSE CABINET	MLDG
RE	MTD
DRAIN	NA
ESCENT	NIC
NG	NTS
NG	NO
NIZED	OC
	OPER
	OR
BAR IM WALLBOARD	O2
CAP	PTD
VARE	
T	PC
POINT	PLAS PLAM/P
	PL
W METAL	PLYWD
	PMF
SIVE CARE UNIT	R
NATED	RAD
	RD

INFO

INSUL IV

JAN

	INCOLUTION .
	INTRAVENOUS
	JANITOR
	JANITOR'S CLOSET
SP	KNEESPACE
	LAMINATE
	LEAD LINED
	LENGTH
	LIGHTNING PROTECTION
	LIGHTNING PROTECTION
CONC	LIGHT WEIGHT CONCRE
	LOUVER
	MACHINE
	MALE
	MASONRY
	MASONRY OPENING MATERIAL
	MATERIAL
	MECHANICAL
	MEDICAL
	MEDICAL GAS PANEL
	METAL
	MANHOLE
	MINIMUM
	MOP RECPTOR
	MOULDING
	MOUNTED
	NOT APPLICABLE
	NOT IN CONTRACT
	NOT TO SCALE
	NUMBER
	ON CENTER
	OPERATE/OPERABLE
	OPERATING ROOM
	OXYGEN
	PAINTED
	PATIENT CONSOLE
	PLASTER
P-LAM	
	PLATE
C	PLYWOOD
	PREMOLDED FILLER
	RADIUS
	RADIATOR
	ROOF DRAIN

- 9. THIS PROJECT IS LOCATED ON SOUTH JERSEY TRANSP AND IS ADJACENT TO THE ATLANTIC CITY EXPRESSWAY MAINTENANCE BUILDINGS AND FACILITIES WITHIN THE WILL OCCUPY THE SITE AND EXISTING BUILDING DURING PERIOD. COOPERATE WITH THE SJTA AT ALL TIMES DU TO MINIMIZE CONFLICTS AND FACILITATE OWNER AND PRECAUTIONS NECESSARY TO PROTECT THE EXISTING EMPLOYEES, VISITORS, MAINTENANCE VEHICLES AND E CONSTRUCTION PERIOD. THE CONTRACTOR SHALL MA FREE, CLEARLY MARKED AND LIGHTED ACCESS TO ALL 24 HOURS PER DAY, 7 DAYS PER WEEK.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRASH AT THE COMPLETION OF EACH WORK DAY. CONTRACT AREA IN CLEAN AND ORDERLY CONDITION. SWEEP AND DAILY AT THE END OF DEMOLITION AND CONSTRUCTION REQUIRED BY WORKING CONDITIONS.
- 11. THE CONTRACTOR SHALL PROVIDE DUMPSTERS OR OT REMOVAL OF CONSTRUCTION TRASH AND DEBRIS. THE FOR ENSURING THAT DUMPSTERS OR OTHER CONTAINE SECURED AT ALL TIMES TO CONTAIN TRASH AND DEBR
- 12. THE CONTRACTOR SHALL INTERMITTENTLY REMOVE W TIME SHALL THERE BE UNDUE ACCUMULATIONS. CONT NECESSARY DUMPSTERS, EQUIPMENT, LIFTS, CRANES, THE WORK. COORDINATE LOCATION AND OBTAIN APPRO EQUIPMENT, LIFTS, CRANES, LAYDOWN AREA, ETC., WIT WORK.
- 13. WASTE AND LOOSE MATERIAL HAVE THE CAPACITY OF EQUIPMENT, VEHICLES, THE SITE AND BUILDINGS, AND ALL TIMES AND KEPT FROM BEING DROPPED OR BLOW ATLANTIC CITY EXPRESSWAY THROUGHOUT THE COUR USED ON THE ROOF AND AREAS ADJACENT TO THE EXP APPROVED, SECURED CONTAINERS AND REMOVED CO PROJECT.
- 14. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY
- 15. PROTECT AREA STORMWATER DRAINS FROM DAMAGE THE PROJECT. DRAINS MUST BE FREE TO DRAIN WATER BE RESPONSIBLE FOR CLEANING ALL DRAINS AND CON PROJECT COMPLETION.
- 16. ALL EXISTING SERVICES AND UTILITIES SHALL BE MAIN ARE IN OPERATION AND SERVED BY THESE UTILITIES A DISRUPTIONS OF DISCONTINUATIONS OF UTILITIES AND MECHANICAL SHUTDOWNS WITH THE SJTA PROJECT M BEGINNING ANY WORK. PROVIDE 48 HOUR WRITTEN NC
- WELL AS FIELD OBSERVATIONS, AND MAY NOT DEPICT LOCATIONS, PROFILES, ETC. GENERAL CONTRACTOR ALL EXISTING CONDITIONS AND ABOVE CEILING CONDI SUBMITTING A BID ON THIS PROJECT, CONTRACTOR UN PAYMENTS WILL NOT BE MADE FOR DEMOLITION OR RE ORDER TO ACCOMPLISH THE WORK. CONTRACTOR SH NOTIFY THE ARCHITECT AND OWNER'S REPRESENTATIV DISCREPANCIES. PRIOR TO SUBMISSION OF BID, CONT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS WITH EXISTING CONDITIONS INDICATED ON PLANS. SU CONTRACTORS HAVE EXAMINED THE SITE, EXISTING CO INCLUDED ALL REQUIRED ALLOWANCES IN THE BID. NO ERROR RESULTING FROM CONTRACTORS FAILURE TO

	INFORMATION	RECP	RE	CEPTACLE
	INSULATION	REF	RE	FERENCE
		REFL		FLECTED
		REFR		FRIGERATOR
	JANITOR	REINF		INFORCING
	JANITOR'S CLOSET	REQ	RE	QUIRED
	KNEESPACE	RET		TAINING
		RF	RO	-
	LEAD LINED LENGTH	R'S	RIS	
		RM	RO	OM
	LIGHTNING PROTECTION CABLE	RTU	-	OFTOP UNIT
~		RWC	RAI	N WATER CONDUCTOR
С	LIGHT WEIGHT CONCRETE	RTV	RO	OFTOP VENT
	LOUVER	SC	SCI	JPPER
	MACHINE	SECT	SEC	CTION
	MALE	SERV	SEF	RVICE
	MASONRY	SIM	-	IILAR
	MASONRY OPENING	SWC	SO	LID WOOD CORE
	MATERIAL	STC		UND TRANSMISSION
	MAXIMUM	COT		
	MECHANICAL	SST	-	AINLESS STEEL
	MEDICAL	STL STOR		EEL DRAGE
	MEDICAL GAS PANEL		-	
	METAL	STRUCT		
	MANHOLE	SUSP		SPENDED
	MINIMUM	TELE	TEL	EPHONE
	MOP RECPTOR	TG	TEM	IPERED GLASS
		THK	THIC	СК
	MOULDING	THRES	THR	ESHOLD
	MOUNTED	TOB	TOF	OF BRICK
	NOT APPLICABLE	TC	TOF	OF CURB
	NOT IN CONTRACT	TRD	TRE	AD
	NOT TO SCALE	TYP	TYP	ICAL
	NUMBER	UC		DER COUNTER
	ON CENTER		-	
	OPERATE/OPERABLE	UL	-	
	OPERATING ROOM	UNO		ESS NOTED OTHERWISE
	OXYGEN	VAC	VAC	CUUM
		VCT	VIN	YL COMPOS.TILE
	PAINTED	VERT	VEF	RTICAL
	PATIENT CONSOLE	VIN	VIN	YL
	PLASTER	VIF	VEF	RIFY IN FIELD
Ν	PLASTIC LAMINATE	VP	VIS	ION PANEL
	PLATE	WPFG	WA	TER PROOFING
	PLYWOOD	WP	WE	ATHERPROOF
	PREMOLDED FILLER	W	WIE	ОТН
	RADIUS	W/	WIT	
	RADIATOR	W/O		THOUT
	ROOF DRAIN			OD
		WD		
		DESIGNED BY:		PROFESSIONAL SEAL
		DRAWN BY:		
H	ITECTS, LLC	JCH		
_		JCH		
ı g	Interior Design	CHECKED BY:	Ţ	
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		TPD		
		APPROVED BY: TPD		

CONSULTANT:

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SUB-CONSULTANT:

**TPD** ARCHITECT Architecture Planning Interio Phone: (215) 887-2460 E-mail: tpdarchitectsllc@verizon.net

Web: http://www.tpdarchitectsllc.com

ORTATION AUTHORITY PROPERTY (AND OTHER SOUTH JERSEY SITE. THE OWNER AND ITS TENAN G THE ENTIRE CONSTRUCTION	MANUFACTURER'S SPECIFICAT CONFLICT, THE MOST STRINGE		PROJECT, INSPECT AND VERIFY AFFECTED BY THE WORK UNDE	THE SITE AND THROUGHOUT THE COURSE O Y THE LOCATION AND CONDITION OF EVERY ER THIS CONTRACT. REPORT ANY DISCREP ORK RELATED TO THAT BEING INSPECTED.	RY ITEM PANCIES TO THE	5. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FINISH FACE OF NEW AND EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN ON PLANS	
RING CONSTRUCTION OPERATION TENANT USAGE. TAKE ALL BUILDINGS, SITE, OWNER, QUIPMENT DURING THE INTAIN DIRECT, OBSTRUCTION	NOTIFY THE ARCHITECT OF AN SPECIFICATIONS, OR ANY EXIS INTENT INDICATED ON PLANS S PRIOR TO COMMENCEMENT OF	SPECIFICATIONS BEFORE BEGINNING ANY WORK. NY DISCREPANCIES IN THE DRAWINGS, STING CONDITIONS. DIMENSION, CONDITIONS AND SHALL BE CHECKED AND VERIFIED AT THE SITE OF WORK NOTIFY ARCHITECT IMMEDIATELY IF FIELD	34. ALL DEMOLITION AND CONSTRU SOUTH JERSEY TRANSPORTATION CONSTRUCTION SHALL BE PERF	JCTION ACTIVITIES SHALL BE COORDINATEI ION AUTHORITY (SJTA) PROJECT MANAGER. FORMED DURING NORMAL WORK HOURS BE	ED WITH THE R. ALL	ARE ±. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. NOTIFY ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO	
EMERGENCY EXITS AT ALL TIMES, HREMOVAL ON A DAILY BASIS AND OR SHALL MAINTAIN THE WORK	<ul> <li>DIMENSIONS OR CONDITIONS D DOCUMENTS.</li> <li>20. PROTECT EXISTING CONSTRUCT ANY EXISTING CONSTRUCTION</li> </ul>	DIFFER FROM DIMENSIONS ON CONTRACT ICTION AND EQUIPMENT TO REMAIN FROM DAMAGE. N, FINISHES OR EQUIPMENT INDICATED TO REMAIN CONSTRUCTION OPERATIONS, SHALL BE RESTORED	35. THE OWNER WILL RETAIN ALL S THE OWNER'S REPRESENTATIV FROM THE BUILDING AND CONS CONSTRUCTION DEBRIS AND/OF	ALVAGE THAT WHICH IS OF VALUE AS DESINGLESS NOTED OTHERWISE. WE. THE CONTRACTOR IS RESPONSIBLE FOR STRUCTION SITE AND OWNER'S PREMISES A R ITEMS NOT RETAINED BY THE OWNER FOR	OR THE REMOVAL	<ul> <li>FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.</li> <li>6. ALL FIELD REQUESTS FOR INFORMATION (RFI'S) AND SUBMITTALS MUST BE</li> </ul>	
O / OR VACUUM CLEAN WORK AREA N WORK AND MORE FREQUENTLY HER CONTAINERS FOR THE E CONTRACTOR IS RESPONSIBLE	IF TO THE ORIGINAL CONDITION O SURFACES THAT ARE TO REMA THE CONTRACTOR IS TO REPAI SURFACES TO THE FINISH AND CONTRACTOR SHALL MAINTAIN	OR BETTER. WHERE DEMOLITION DAMAGES IAIN IN PLACE OR EXPOSED UNFINISHED SURFACES, AIR, PATCH, FINISH, AND / OR REFINISH THOSE D QUALITY OF ADJACENT SURFACES. THE IN THE BUILDING IN A WEATHER-TIGHT CONDITION AT	36. WHERE REQUIRED, SEAL TIGHT OPENINGS THROUGH FLOORS A HAS BEEN GIVEN TO AN EXISTIN	TAND PROTECT WITH FIRE SAFING NEW SLE AND RATED ENCLOSURES - TYPICAL. WHERI NG WALL, ALL PENETRATIONS (EXISTING OF	RE A RATING OR NEW) MUST	SUBMITTED THROUGH GENERAL CONTRACTOR IN WRITING AND SENT VIA E-MAIL TO SOUTH JERSEY TRANSPORTATION AUTHORITY'S DESIGNATED PROJECT MANAGER.	
E CONTRACTOR IS RESPONSIBLE ERS ARE PROPERLY COVERED AN IS IN WINDY CONDITIONS. ASTE AND RUBBISH SO THAT AT N RACTOR SHALL PROVIDE ALL	ALL TIMES. TEMPORARY PARTI FIRE PROTECTION AND EGRESS TO BE REMOVED UNTIL ALL WO THE OWNER.	TITIONS MUST BE INSTALLED IN ACCORDANCE WITH SS REQUIREMENTS. TEMPORARY WALLS ARE NOT ORK IS COMPLETED OR APPROVAL IS GRANTED BY	BE SEALED PER THAT RATING F ATTENTION. SEAL ALL OPENING PARTITIONS (NEW AND EXISTING REQUIRED. ALL EXISTING FIREF CONSTRUCTION OR ANY OTHER	REQUIREMENT AND BROUGHT TO THE ARCH SS IN FLOORS, SHAFTS, SMOKE AND FIRE RA G TO REMAIN) WITH APPROVED MATERIAL T PROOFING TO REMAIN. IF DAMAGED, BY NEV R TRADES, IT SHALL BE REPAIRED OR REPLA	CHITECT'S 46 RATED TO THICKNESS IEW	<ol> <li>ALL FIELD REQUESTS FOR INFORMATION (RFI'S) AND SUBN THROUGH GENERAL CONTRACTOR IN WRITING AND SENT TRANSPORTATION AUTHORITY'S DESIGNATED PROJECT M</li> <li>THE CONTRACTOR SHALL APPLY FOR, SECURE, AND PAY F</li> </ol>	VIA E-MAIL TO SOUTH JERSEY MANAGER.
ETC. AS REQUIRED TO PERFORM OVAL FOR DUMPSTERS, TH SJTA PRIOR TO BEGINNING	SIGNALS, AND SIMILAR DEVICES THE PUBLIC, EMPLOYEES, TEN/ BEFORE DEMOLITION OPERATION	CADE PROTECTION, DIRECTIONAL SIGNS, DANGER ES AS NECESSARY FOR ADEQUATE PROTECTION OF NANTS AND WORKERS. PROVIDE SUCH PROTECTION TIONS AND UNTIL COMPLETION OF WORK.	F REQUIRED. FIRE RATING SHALL N 37. COORDINATE ALL DEMOLITION V	COMPLY WITH ALL REQUIRED CODES.	47	7. THE CONTRACTOR SHALL APPLY FOR, SECURE, AND PAY F LICENSES, APPROVALS AND / OR CERTIFICATES OF INSPEC AUTHORITIES HAVING JURISDICTION IN ORDER TO COMPLI TO PERFORM A MID-CONSTRUCTION INSPECTION. FINAL IN BY THE CONTRACTOR'S UNDERWRITER.	CTION REQUIRED BY ALL ETE THE WORK. CONTRACTOR
CAUSING DAMAGE TO MAINTENAN THEREFORE SHALL BE SECURED A N ONTO THE ROOF AND THE SE OF THIS PROJECT. ALL MATER PRESSWAY SHALL BE KEPT IN SJTA	AT 23. MAINTAIN PROPER CLEARANCE RIAL	ATION WHEN USING CUTTING TORCHES. CES FOR FAA PERIMETER FENCING AT ALL TIMES. MS AND MATERIALS PROMPTLY. ON-SITE STORAGE	DISRUPTED. PROVIDE NOT LESS THAT WILL AFFECT THEIR OPER MECHANICAL SHUTDOWNS WITH AUTHORITY REPRESENTATIVE A	SS THAN 72 HOURS' NOTICE TO SJTA OF ACT RATIONS. COORDINATE ALL UTILITIY OUTAGE (H (SJTA) SOUTH JERSEY TRANSPORTATION AND OPERATIONS MANAGER. PROVIDE 72 H	CTIVITIES 48 GES AND N	8. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND / OR EQUI CONTRACT DOCUMENTS. ALL SUBMITTALS TO BE IN ELEC E-MAIL TO THE SPECIFIED PROJECT MANAGER AS DISCUSS CONSTRUCTION MEETING. PAPER SUBMITTALS WILL NOT	TRONIC FORMAT SENT VIA SED AT THE PRE-BID BE ACCEPTED. CONTRACTOR IS
SPILLAGE ON ALL SURFACES.	OR SALE OF REMOVED ITEMS IS 25. RETURN ELEMENTS OF CONSTI		39. WHEN UNANTICIPATED MECHAN THAT CONFLICT WITH THE INTER INVESTIGATE AND MEASURE TH	OUTAGES. NICAL, ELECTRICAL, OR STRUCTURAL ELEM NDED FUNCTION OR DESIGN ARE ENCOUNT E NATURE AND EXTENT OF THE CONFLICT. REPORT TO THE ARCHITECT/ENGINEER.	NTERED, T.	RESPONSIBLE FOR SUBMITTING ALL SUBMITTALS, SHOP DI SPECIFICALLY "CRITICAL PATH ITEMS" AND "LONG LEAD IT REVIEW BY DESIGN PROFESSIONALS & SJTA PERSONNEL, WITH THE PROJECT SCHEDULE.	ORAWINGS, RFI's, & SAMPLES, 'EMS" IN SUFFICIENT TIME FOR SO AS NOT TO INTERFERE
AND DEBRIS FOR THE DURATION C R AT ALL TIMES. CONTRACTOR WIL FIRM PROPER DRAINAGE SYSTEM	UNSUITABLE MATERIALS AND P LL UNSUITABLE MATERIALS AND P I AT 27. REMOVE ALL DEBRIS AND LOW FREE FALL AND TO PREVENT G	NFESTED, OR OTHERWISE DANGEROUS OR PROMPTLY DISPOSE OF OFF-SITE. VER TO GROUND BY METHOD SUITABLE TO AVOID GROUND IMPACT OR DUST GENERATION.	40. NEATLY CUT OPENINGS AND HO REQUIRED. USE CUTTING METH REMAIN OR ADJOINING CONSTR	REPORT TO THE ARCHITECT/ENGINEER. DLES PLUMB, SQUARE, AND TRUE TO DIMEN HODS LEAST LIKELY TO DAMAGE CONSTRUC RUCTION. TO MINIMIZE DISTURBANCE OF AI LL POWER TOOLS DESIGNED FOR SAWING (	ENSIONS UCTION TO 50 ADJACENT	<ol> <li>SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIAL WITH SE SURFACES AS DIRECTED BY ARCHITECT.</li> <li>BEFORE BEGINNING WORK AT THE SITE, INSPECT THE EXIS DETERMINE THE EXTENT OF EXISTING FINISHES, SPECIALT AND OTHER ITEMS WHICH MUST BE MOVED UNDER THIS C</li> </ol>	STING BUILDING AND TIES, CASEWORK, EQUIPMENT
TAINED TO ADJACENT AREAS THAT ND SERVICES. COORDINATE ALL SERVICES, OUTAGES AND ANAGER FOR APPROVAL PRIOR TC DTICE BEFORE ANY OUTAGES.	T 28. LOCATE SELECTIVE DEMOLITIO REMOVE DEBRIS AND MATERIA SUPPORTING ROOFS, WALLS, F	ON EQUIPMENT THROUGHOUT THE STRUCTURE AND ALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON FLOORS, OR FRAMING.	ID NOT HAMMERING AND CHOPPIN	NG. TEMPORARILY COVER OPENINGS TO RE	REMAIN.	AND OTHER ITEMS WHICH MUST BE MOVED UNDER THIS C ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS WHE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WOF AREAS SHOWN OR NOT SHOWN ON THE ARCHITECTURAL I AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBIN	ERE WORK MUST BE ORK MAY ALSO BE NECESSARY IN DRAWINGS DUE TO CHANGES NG, OR OTHER SYSTEMS. SUCH
GINAL CONSTRUCTION DRAWINGS EXACT EXISTING CONDITIONS AND S RESPONSIBLE FOR FIELD VERIFY	S AS D / OR YING	NSOUND STRUCTURAL DECKING, FRAMING, OR RED TO ARCHITECT IMMEDIATELY UPON ATERIAL. EW MATERIALS, DEMOLISHED AND SALVAGED	ADJACENT CONSTRUCTION BY S 43. CONTRACTOR SHALL RELOCATE	HOLES AND DAMAGED SURFACES CAUSED SELECTIVE DEMOLITION OPERATIONS.	VAC, 51	<ul> <li>INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPACE ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORREQUIREMENTS, AT NO ADDITIONAL COST.</li> <li>1. TRADE, PRODUCT, OR MANUFACTURER'S NAMES OR CATA INDICATIONS OF PRODUCT TYPES. SUCH AS TOL ASS FIREP</li> </ul>	ALOG NUMBERS AND
TIONS PRIOR TO BIDDING WORK. I IDERSTANDS THAT ADDITIONAL LOCATION OF EXISTING ELEMENT ALL FIELD VERIFY ALL DIMENSIONS VE IMMEDIATELY OF ANY	MATERIALS WITH DESIGN TEAM PROVIDE SKETCH OF LOCATION STRUCTURE WITH STORED MAT	M, AND THE SJTA PROJECT MANAGER AND AIRPORT. ON REQUESTED. DO NOT OVERLOAD ROOF ATERIALS.	T. DEMOLITION AND THE NEW WOF THE GENERAL ARRANGEMENT O SHOWN ON THE DRAWINGS. PR	PRESSION, ETC.) AS REQUIRED TO ACCOMM RK. DRAWINGS ARE DIAGRAMMATIC AND IN OF MANY SYSTEMS. ALL EXISTING SERVICE ROVIDE ALL ITEMS (OFFSET, TRANSITIONS, F COST TO THE OWNER TO ACCOMMODATE N	INDICATE ONLY CES ARE NOT 5, FITTINGS, ETC.)	<ul> <li>INDICATIONS OF PRODUCT TYPES, SUCH AS "GLASS FIBER DRAWINGS FOR EXISTING PRODUCTS (INDICATED "EXIST.") IF THEY ARE DISCOVERED TO BE INACCURATE, NOTIFY AR</li> <li>CONTRACTOR SHALL PROVIDE ELECTRONIC AUTOCAD DRAWING AND DRAWING AND AND AND AND AND AND AND AND AND AND</li></ul>	) IS BELIEVED TO BE ACCURATE. RCHITECT IMMEDIATELY. RAWINGS (RELEASE 2013 OR
RACTORS SHALL VISIT THE PROJE ON THE PREMISES AND COMPARE	E THEM	E EXISTING WALLS AND ITEMS TO REMAIN.	44. THE CONSTRUCTION SITE SHAL	LL BE AVAILABLE DURING NORMAL WORKING		LATER) AND PDF FILES OF THE WORK AS-BUILT AT THE CO	OMPLETION OF THE PROJECT.
BMITTAL OF BID SHALL INDICATE T ONDITIONS & PREMISES AND HAS O ALLOWANCE SHALL BE MADE FOR VISIT THE JOB SITE.	THAT 32. DO NOT CUT, DRILL, OR DAMAG COLUMNS, OR OTHER STRUCTI	GE EXISTING FLOOR JOISTS, ROOF JOISTS, BEAMS, TURAL ELEMENTS, UNLESS SPECIFICALLY INDICATED	, THE OWNER'S REPRESENTATIVE		55	<ol> <li>PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS COMPLETELY AND IN FULL OPERATION REQUIRED TO INST</li> <li>CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTE DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. COI FOR COORDINATING THE WORK OF ALL TRADES INCLUDING</li> </ol>	TALL ALL WORK INDICATED. ENDED TO CONVEY SCOPE, INTRACTOR IS RESPONSIBLE
Symbols		Material Key	ARCHITECTURAL DIMEN	ISIONING	55	<ul> <li>FOR COORDINATING THE WORK OF ALL TRADES INCLUDING CONFLICTS THAT MAY ARISE. CONTRACTOR SHALL BE RESISTE TO DETERMINE ACTUAL SIZE, CAPACITIES, AND LOCA EQUIPMENT REQUIRED.</li> <li>5. DETERMINE LOCATIONS OF PARTITIONS NOT DIMENSIONED</li> </ul>	ESPONSIBLE FOR VISITING THE ATIONS OF MATERIALS AND ED BY THEIR RELATION TO
4 (A3.1)	DETAIL REFERENCE	BLOCKING FINISH WOOD	a.	- UNLESS INDICATED OTHERWISE LOCATI EDGE OF DOOR JAMBS 4-INCHES OFF O FINISHED FACE OF ADJACENT PARTITIO	TE THE OF THE	<ul> <li>COLUMN FACE OR CENTER, WINDOW JAMB, MULLION, OR SARCHITECT OF DISCREPANCIES WITH THE INTENDED LAYOF FOR ITEMS INDICATED, WHERE REQUIRED.</li> <li>6. CONTRACTOR SHALL HANDLE THE STORAGE, SAMPLING, L</li> </ul>	SIMILAR FIXED ITEM. INFORM OUT. ALLOW CLEARANCES LABELING AND DISPOSAL OF
6 A2.1	ELEVATION REFERENCE	STEEL: LARGE SCALE RIGID INSULATION	b. 11	- UNLESS INDICATED OTHERWISE ALL DIN	IMENSION	TRASH / RUBBLE / CONSTRUCTION DEBRIS ON A DAILY BAS OFF OF THE PROPERTY IN STRICT ACCORDANCE WITH EPA ENVIRONMENTAL PROTECTION & TOWNSHIP REGULATIONS CONSTRUCTION DEBRIS SHALL BE HAULED OFF THE PROP DISPOSAL SITE. ANY TRASH / RUBBLE / CONSTRUCTION DE	A, NEW JERSEY DEPT. OF IS. ALL TRASH / PERTY TO AN APPROVED EBRIS DEEMED AS
6 A3.1	SECTION REFERENCE			STRINGS ARE TO THE FINISH FACE OF W PARTITION.		HAZARDOUS WASTE / MATERIAL SHALL BE DISPOSED OF IN NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION & T DISPOSED OF ACCORDINGLY AT AN APPROVED HAZARDOU ALL OF THE APPROVED / REQUIRED DOCUMENTATION.	N ACCORDANCE WITH EPA, TOWNSHIP REGULATIONS AND US WASTE DUMPSITE WITH
	- COLUMN LINE	CONCRETE EXISTING CONCRETE TO REMAIN			57.	7. PRIOR TO DRILLING INTO STRUCTURE, CONTRACTOR SHAL PLANS / REQUIREMENTS FOR ATTACHMENT AND SECURE O APPROVAL. PRIOR TO DRILLING INTO STRUCTURE CONTRA SERVICES OF A UTILITY LOCATOR FIRM WITH ABILITY TO LO CONCRETE SLABS. CONTRACTOR SHALL IDENTIFY THE LOO	OWNERS WRITTEN ACTOR SHALL OBTAIN THE OCATE CONDUIT IN CATION OF CONDUITS IN
4 A2.1 2 3	INTERIOR ELEVATION REFERENCE	BRICK (COMMON OR FACE)		- UNLESS INDICATED OTHERWISE ALL EX DIMENSION STRINGS ARE TO THE FINISH WALL (EITHER FROM COLUMN CENTER I OPENINGS IN WALL)	SH FACE OF	SLAB, THEN PRESENT THE FINDINGS TO THE ARCHITECT FO DRILLING. ALL PENETRATIONS, BOTH NEW AND EXISTING, T RATED WALLS, CEILINGS AND FLOOR SLABS SHALL BE PRC APPROVED RATED FIRE STOPPING MATERIAL. ALL FIRE STO SUPPLIED AND WORK PERFORMED AS PER PROJECT SPEC	OR REVIEW PRIOR TO CORE THROUGH DESIGNATED FIRE OPERLY SEALED WITH AN OPPING MATERIAL SHALL BE
	- ELEVATION DATUM	PLASTER	·	OPENINGS IN WALL).		SHALL SUBMIT ELECTRONIC COPIES OF MANUFACTURER'S INSTALLATION DETAILS FOR FIRESTOPPING TO THE ARCHI APPROVAL PRIOR TO INSTALLATION.	S CATALOG DATA AND ITECT FOR REVIEW AND
		BATT INSULATION PARTICLE BOARD				<ol> <li>PREPARE, SUBMIT, AND RECEIVE APPROVAL FOR SLEEVE A BEFORE LOCATING SLEEVES AND OPENINGS IN NEW CONS DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AN PROJECT.</li> <li>CONTRACTOR SHALL DRILL OPENINGS THROUGH ELOORS</li> </ol>	STRUCTION AND BEFORE ND SLEEVE IN THE ENTIRE
	EXISTING TO REMAIN EXISTING TO BE REMOVED (HEAVY LINE)				90 90	<ol> <li>CONTRACTOR SHALL DRILL OPENINGS THROUGH FLOORS PIPING PENETRATIONS AS REQUIRED. DRILLED OPENINGS SEALED WITH FIREPROOF MATERIAL. CONTRACTOR SHALL HOLE PRIOR TO CORE DRILLING IN ORDER TO LOCATE WH ELECTRICAL CONTRACTOR SHALL NOT CORE DRILL THROUT NOT CORE DRIVEN AND A DRIVEN AND</li></ol>	S SHALL BE SLEEVED AND L DRILL 1/4" DIAMETER PILOT IERE HOLE WILL FALL.
	(HEAVY LINE) OVERHEAD (LIGHT LINE)					BUILDING ELEMENTS SUCH AS PRE-STRESSED CABLES, CO CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO O MAY ENTER AREAS BELOW. REPLACE ANY / ALL CEILING TI	OLUMNS OR BEAMS. T AREAS BENEATH CORE DRILL CATCH CORE AND WATER THAT ILES THAT ARE DAMAGED DUE
	DOOR NUMBER RECESSED FIRE EXTINGUISHER					TO THIS WORK. CONTRACTOR SHALL THOROUGHLY CLEAN HAS BEEN COMPLETED. SLEEVES FOR ROOF PENETRATION PROCEDURES FOR ALL ELECTRICAL WORK: SHOULD A POW WHILE DRILLING, THE ELECTRICAL CONTRACTOR SHALL BI ON-SITE UNTIL POWER IS RESTORED AND TO THE SATISFA	N AREAS AFTER DRILL WORK ONS MAY BE OMITTED. WER INTERRUPTION OCCUR BE REQUIRED TO REMAIN
REVISION REVISION NO. DATE	DESCRIPTIONS		SEY TRANSPORTATIO	ZA	2021 WE	ATLANTIC CITY EXPRESSWAY EST MAINTENANCE ADDITION PROJECT SLOW TOWNSHIP, CAMDEN COUNTY, N.J.	drawing no.
			P.O. BOX 351 HAMMONTON, NJ 0803 (609) 965 - 6060		GENERAL N	NOTES & ABBREVIATIONS	SHEET NO. - OF -
			(009) 905 - 0000	SCALE	AS NOTED	DATE 09/01/2021	

		G	ENERAL DRA	WING NOT	ËS
			DO NOT SCALE DRAWII EXISTING CONSTRUCT SHALL VERIFY ALL DIM	NGS - FOLLOW WRITT ION UNLESS OTHERV	 EN DIMENSIONS. ALL VISE NOTED. ALL DIMEI
		2.	TYPICALLY, DIMENSION		OF COLUMNS, FACES O
		3.	THE CONTRACTOR SH	ALL TAKE INTO CONS	
		4.	EXAMPLE, CERAMIC TI COORDINATE DIMENSI COORDINATE DIMENSI ARCHITECT PRIOR TO	ONS INDICATED IN TH ONS INDICATED WITH	IESE DRAWINGS WITH I ACTUAL FIELD CONDI
		5.	DIMENSIONS FOR DOO WALLS ARE SHOWN AS DOOR, LOUVER UNIT O	R, WINDOW AND LOU S "ROUGH OPENING".	VER OPENINGS IN CON COORDINATE SPACE
		6.	"NOM" AS USED IN THE MANUFACTURED, ASSE	SE DOCUMENTS IS T	HE ABBREVIATION FOR
		7.	"EQ" AS USED IN THESI STRING ARE INTENDED	E DOCUMENTS IS THE	E ABBREVIATION FOR "
		8.	" +/- " OR "VERIFY" AS L SHALL BE VERIFIED IN	JSED IN THESE DOCU THE FIELD BY THE CO	MENTS MEANS THAT F ONTRACTOR AND FOR
		9.	CONSTRUCTED MAY BI	SE DOCUMENTS IS TH	E ABBREVIATION FOR
		10.	SLIGHTLY ADJUSTABLE		
			SLIGHTLY ADJUSTABLE	E BUT MAY NOT VARY	TO A DIMENSION OR C
		11.	WRITTEN APPROVAL O		
		12.	"ALIGN" AS USED IN TH SEPARATE ASSEMBLIE		
		13.	ROUGH OPENING ("RO' MODULAR DIMENSIONS DIMENSIONED.		
		14.	"TOC' AS USED IN THES	SE DOCUMENTS IS TH	IE ABBREVIATION FOR
		15.	"BOD" AS USED IN THE	SE DOCUMENTS IS TH	HE ABBREVIATION FOR
		16.	"AFF" AS USED IN THES	SE DOCUMENTS IS TH	IE ABBREVIATION FOR
			"B.O." AS USED IN THES		
			"T.O." AS USED IN THES		
			"UNO" AS USED IN THE "NIC" AS USED IN THES ITEMS ARE SHOWN FO	E DOCUMENTS IS TH	E ABBREVIATION FOR
		21.	SCOPE OF WORK. "TYPICAL" OR "TYP" AS SAME OR IS REPRESEN	NTATIVE OF AN INTEN	
		22.	THROUGHOUT THE PR	ON ARCHITECTURAL	
		23	ASSOCIATED WITH DRA		
		20.	DRAWINGS AND / OR S MISLEADING DIRECTIV ATTENTION OF THE AR	PECIFICATIONS OF TI E IN THESE DOCUMEI	HIS PROJECT OR IF THINTS, THE CONTRACTOR
		24.	ADDITIONAL ABBREVIA	TIONS ARE LISTED O	N SHEET A001 OF THES
		25.	VERIFY EXISTING CON THE ARCHITECT OR EN		
		26.			
		27.	AND / OR ELECTRICAL THE CONTRACTOR IS S THE CONTRACTOR SH/ WHICH THE WORK IS T	SOLELY RESPONSIBLI ALL BE SOLELY AND (	E FOR MEANS AND ME
		28.	PERFORMANCE OF THI	E CONTRACT. NOTES IN THESE DRA	AWINGS ARE ORGANIZ
		29.	TAILORED TO APPLY TO ELEVATIONS, ANOTHER THE BUILDING SHALL E	R FOR SECTION VIEW	S, ETC. FULL COMPLIANCE WI <sup>T</sup>
			REGULATIONS AS WEL RECOGNIZED BY THE C CLARIFICATION.		
		30.	THE CONTRACTOR SHA BUILDING ELEMENTS. AND ACTUAL SITE COM PROJECT OR THE COM OF WORK. THE OWNER CONTRACTOR TO FAM	VERIFY ALL DIMENSION IDITIONS SHALL BE BI IMENCEMENT OF WOR SHALL NOT BE RESP	ONS AND EXISTING CO ROUGHT TO THE ATTE RK. THE OWNER SHALL PONSIBLE FOR THE CH.
		31.	ALL CONSTRUCTION S SPECIFICATIONS. ALL I PREPARED BY THE ARC WRITING BEFORE COM	DISCREPANCIES BET CHITECT AND HIS CO	WEEN THESE SPECIFIC
		32.	WORKMANSHIP THROU		THE HIGHEST QUALIT
		33.	THE CONTRACTOR SHA FOR ANY AREAS OF Q CONFLICT, DISCREPAN THE ARCHITECT IN WF	UESTION AFFECTING NCY, ILLEGIBILITY OF	COST, CONSTRUCTIO COMISSION. QUESTION
CONSULTANT:	SUB-CONSULTANT:		AFFECTING WORK.	DESIGNED BY:	PROFESSIONAL SEAL



AFFECTING WORK.							
SUB-CONSULTANT:	DESIGNED BY:	PROFESSIONAL SEAL	REVISION NO.	REVISION DATE	DESCRIPTIONS	SOUTH JERSEY TRANSPORTATION SOUTH JERSEY TRANSPORTATION	DRTATION AL
<b>TPD</b> ARCHITECTS, LLC	DRAWN BY: JCH					FARLEY SERV	ICE PLAZA
Architecture Planning Interior Design Phone: (215) 887-2460 E-mail: tpdarchitectsllc@verizon.net	CHECKED BY: TPD					P.O. BO	
Web: http://www.tpdarchitectsllc.com	APPROVED BY: TPD					(609) 965	- 6060

- DIMENSIONS ARE TO FINISH FACE OF NEW AND NSIONS SHOWN ON PLANS ARE ±. CONTRACTOR ANY DISCREPANCIES.
- OF FINISHED GYPSUM BOARD OR PARTITION SURFACE
- AL THICKNESS OF INDICATED FINISH SYSTEMS FOR NDICATED BETWEEN PARTITIONS.
- FABRICATION OF ALL SYSTEMS AND ASSEMBLIES. ITIONS. REPORT ANY INCONSISTENCIES TO THE
- NCRETE OR MASONRY PARTITIONS AND FRAMED FOR SEALANTS AND SHIMMING WITH WINDOW, S RECOMMENDATIONS.
- "NOMINAL" MEANING THAT ACTUAL ARY SLIGHTLY FROM WHAT IS INDICATED.
- "EQUAL" MEANING THAT THE DIMENSIONS ON A
- FOR EXISTING CONDITIONS THE DIMENSIONS NEW CONDITIONS THE ACTUAL DIMENSION AS OTHER FACTORS.
- "MINIMUM' MEANING THAT THE CONDITION IS QUALITY LESSER THAN THAT INDICATED.
- "MAXIMUM' MEANING THAT THE CONDITION IS QUALITY GREATER THAN THAT INDICATED.
- DIMENSION IS NOT ADJUSTABLE WITHOUT THE DIMENSIONS ARE TYPICALLY TO FINISH FACE.
- ATELY LOCATE THE FINISHED FACES OF TWO
- ONS SHOWN ON THESE DRAWINGS ARE DING ON THE TYPE OF BUILDING ELEMENT BEING
- "TOP OF CONCRETE".
- "BOTTOM OF DECK".
- "ABOVE FINISHED FLOOR".
- "BOTTOM OF ELEMENT' IDENTIFIED ON DRAWING.
- TOP OF ELEMENT" IDENTIFIED ON DRAWING.
- R "UNLESS NOTED OTHERWISE".
- "NOT IN CONTRACT' MEANING THAT THESE SHOULD NOT BE INCLUDED IN THE CONTRACTOR'S
- THAT THE CONDITION OR DIMENSION IS THE APPROACH FOR SIMILAR ("SIM") CONDITIONS
- ILY TO THOSE KEYED NOTE SYMBOLS SHOWN RE THE NOTES ARE LISTED.
- ICH CONFLICTS WITH THE E CONTRACTOR DISCOVERS AN UNCLEAR OR R SHALL IMMEDIATELY BRING THE ISSUE TO THE
- SE DOCUMENTS.
- **CT SCOPE AND REPORT ANY DISCREPANCIES TO**
- GENERAL INTENDED LAYOUTS OF MECHANICAL NISH CEILING SYSTEM.
- THODS AS WELL AS SEQUENCE OF CONSTRUCTION. SIBLE FOR THE CONDITIONS OF THE PROJECT ON OF ALL PERSONS AND/OR PROPERTY DURING THE
- ZED INTO SEVERAL COMMON LISTS, EACH LIST IS OR PLAN VIEWS, ONE FOR BUILDING
- ITH ALL APPLICABLE CODES, ORDINANCES AND . ANY CODE DEFICIENCIES IN THE DRAWINGS IE ATTENTION OF THE ARCHITECT FOR
- PLACEMENT OF THE BUILDING ON THE SITE AND NDITIONS. DISCREPANCIES BETWEEN DRAWINGS ENTION OF THE ARCHITECT BEFORE BIDDING THE . NOT BE RESPONSIBLE FOR THE COMMENCEMENT HANGES TO THE WORK DUE TO THE FAILURE OF THE ONS
- ANUFACTURERS' LATEST WRITTEN CATIONS AND THE CONTRACT DOCUMENTS BROUGHT TO THE ATTENTION OF ARCHITECT IN
- TY OF EACH TRADE INVOLVED.
- AFFECTING WORK AND CONTRACT DOCUMENTS ON AND ANY DRAWING DIMENSIONAL OR NOTE IN SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR ACCEPTANCE OF ALL CONDITIONS

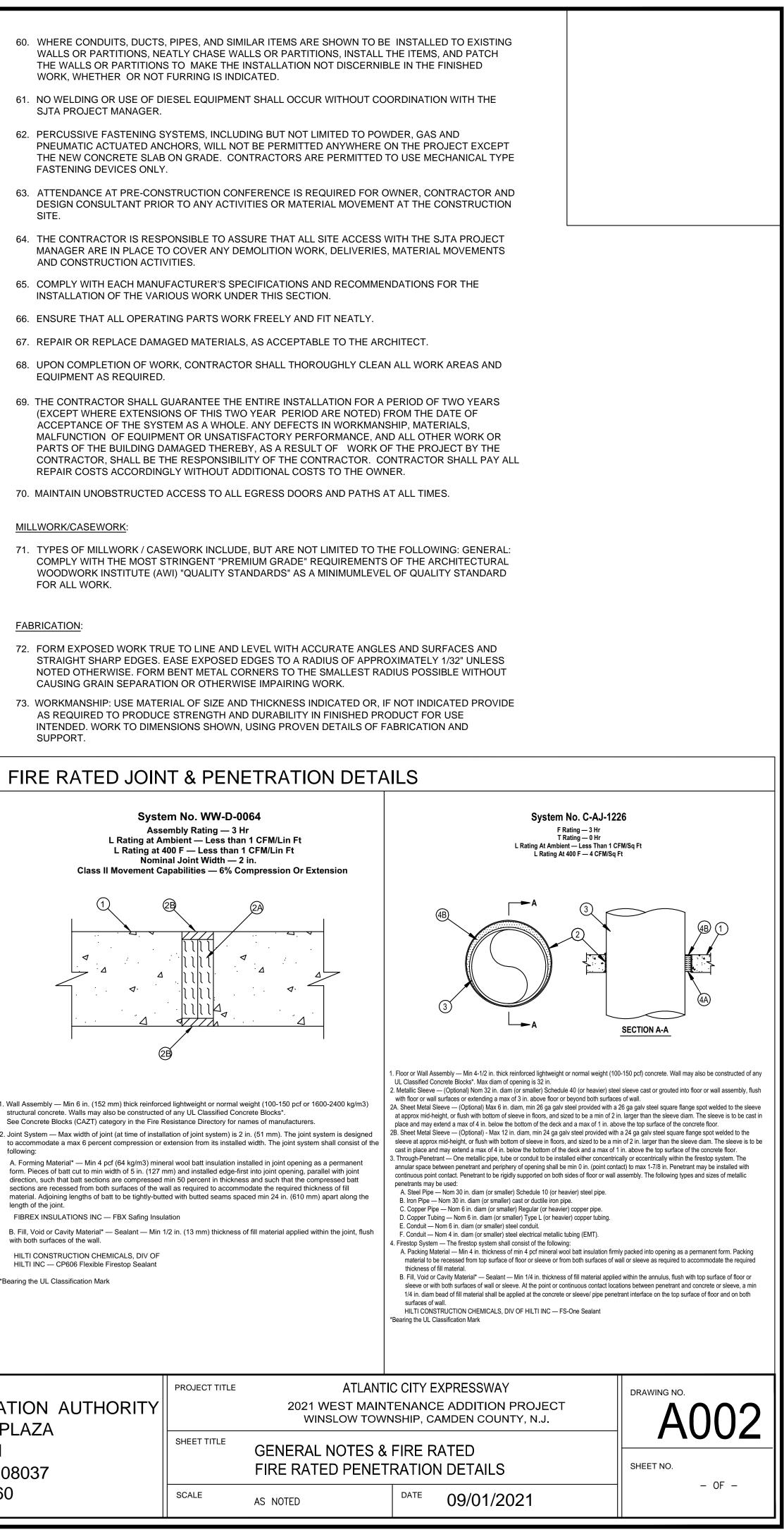
- 34. CUTTING AND PATCHING INCLUDES CUTTING INTO EXISTING CONSTRUCTION TO PROVIDE FOR INSTALLATION OR PERFORMANCE OF OTHER WORK AND SUBSEQUENT FITTING AND PATCHING REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION. USE MATERIALS FOR CUTTING AND PATCHING IDENTICAL TO EXISTING MATERIALS.
- 35. DO NOT CUT AND PATCH STRUCTURAL WORK IN A MANNER THAT WOULD RESULT IN A REDUCTION OF CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. SUBMIT PROPOSAL AND OBTAIN ARCHITECT AND ENGINEER'S APPROVAL BEFORE PROCEEDING WITH CUT AND PATCH OF STRUCTURAL WORK.
- 36. CONTRACTOR SHALL PROVIDE AND PAY ALL LABOR, MATERIALS, EQUIPMENT, MACHINERY, TOOLS, ELECTRICAL POWER, WATER, HEAT, TELEPHONES, AND OTHER UTILITIES/SERVICES FOR THE PROPER EXECUTION AND CONSTRUCTION OF THE BUILDINGS, FACILITIES, SERVICES AND SITE IMPROVEMENTS CONFORMING TO THE CONTRACT DOCUMENTS. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED COMPLETION OF PROJECT WORK.

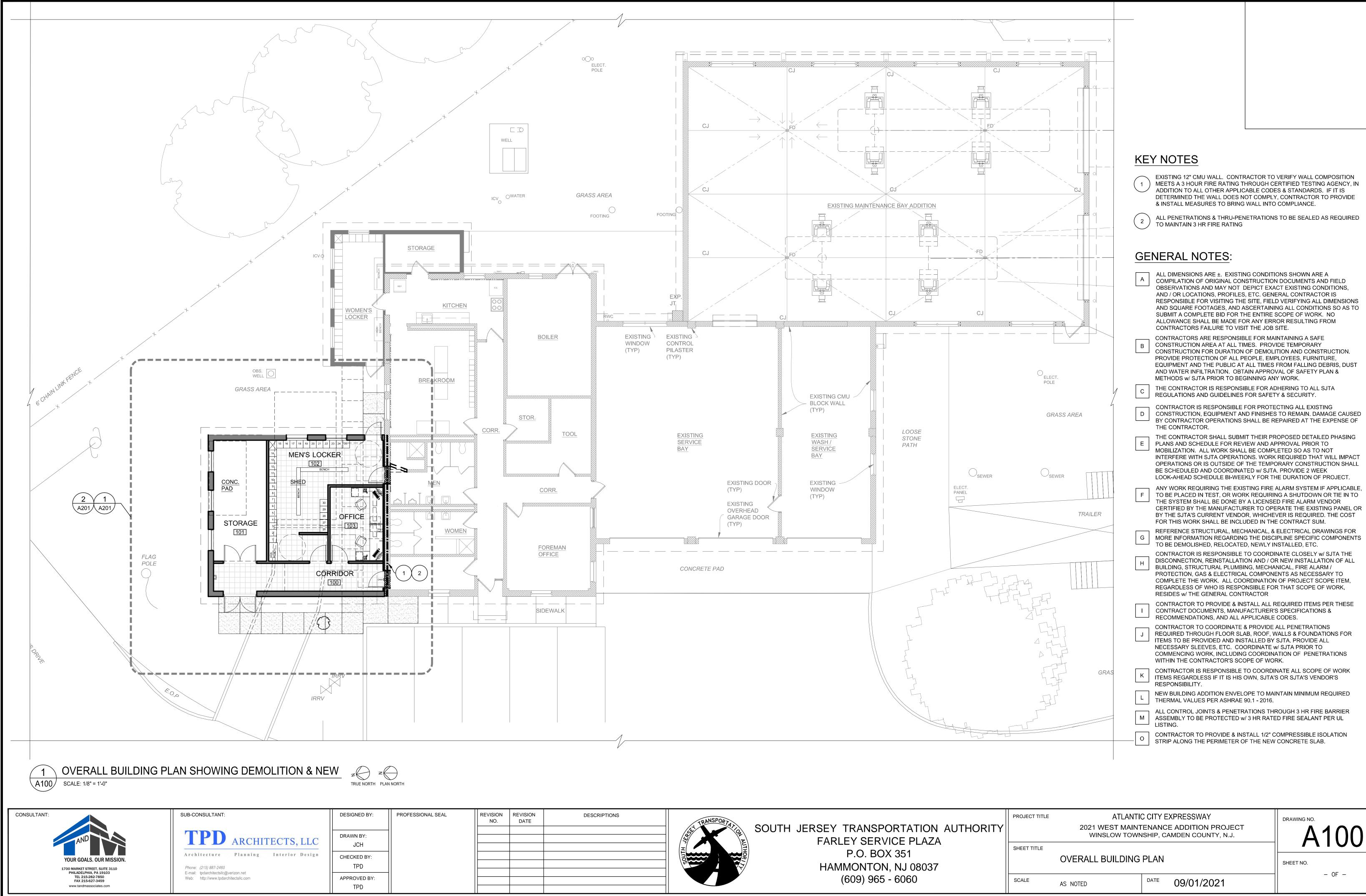
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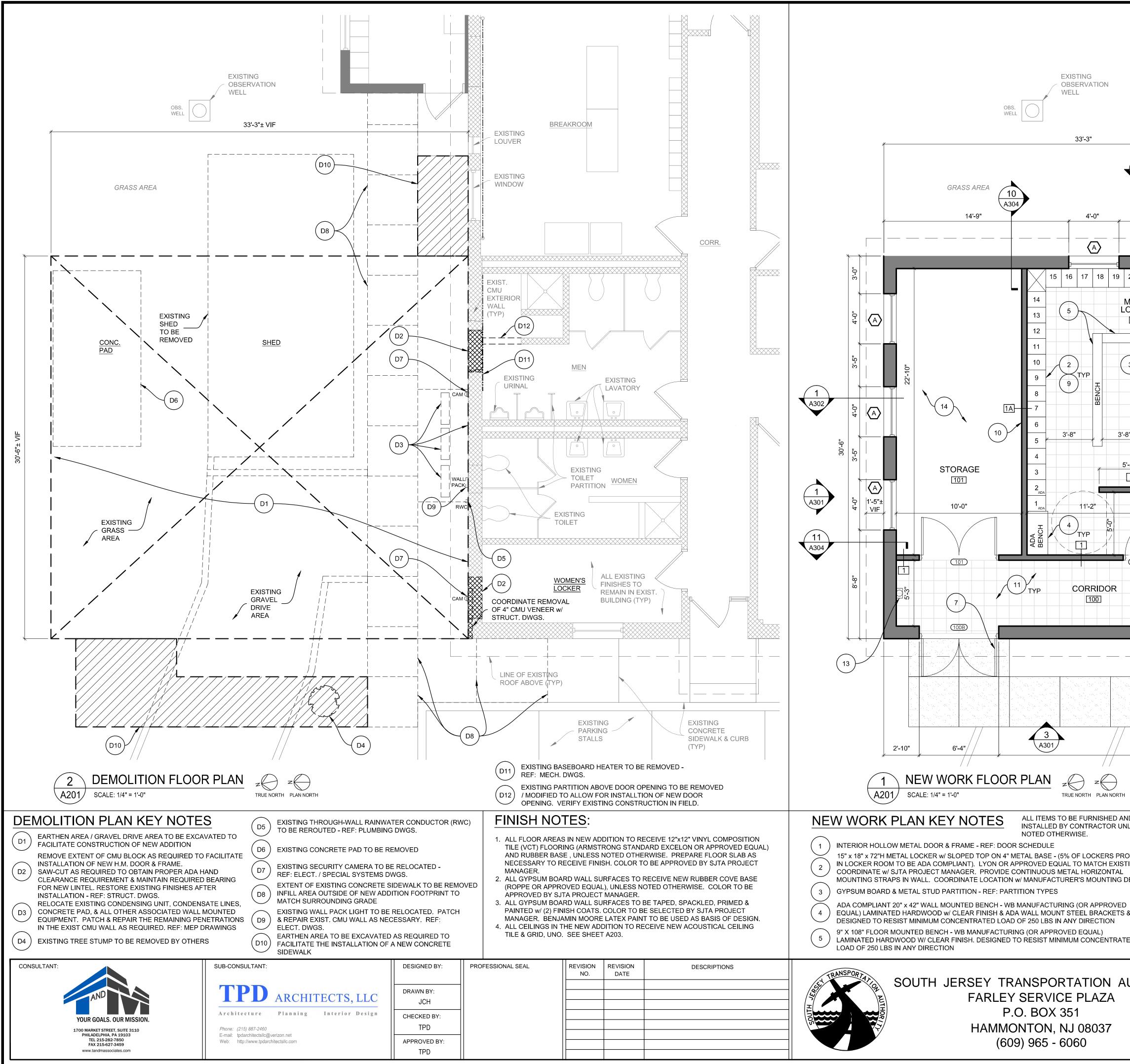
- 37. CONTRACTOR SHALL PAY LEGALLY REQUIRED SALES, CONSUMER AND USE TAXES.
- 38. CONTRACTOR SHALL SECURE AND PAY FOR PERMITS, GOVERNMENT FEES, LICENSES AND INSPECTIONS, AS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, WHICH ARE CUSTOMARILY SECURED AFTER START OF CONSTRUCTION AND WHICH AREA APPLICABLE AT TIME CONTRACT IS AWARDED.
- 39. CONTRACTOR SHALL GIVE NOTICES REQUIRED BY GOVERNMENTAL AUTHORITIES AND BY THE OWNER OR HIS REPRESENTATIVE.
- 40. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING SHORING AND TEMPORARY BRACING AND TAKE ALL NECESSARY MEASURES TO INSURE THE SAFETY OF ALL PERSONS AND STRUCTURES NEXT TO THE SITE. CARE SHALL BE TAKEN TO PROTECT FROM ANY DAMAGE ALL TREES AND VEGETATION ON SITE AND ON ADJOINING PROPERTIES. ANY TRIMMING OR OTHER ALTERATION DONE TO TREES SHALL BE DONE SO ONLY BY APPROVAL OF THE OWNER.
- 41. ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONSTRUCTION DOCUMENTS, CODES, REGULATIONS AND LAWS, OR FOR THE PERFORMANCE OF THE CONTRACTOR IN A TIMELY AND SATISFACTORY MANNER.
- 42. CONTRACTOR SHALL OBTAIN, AND MAINTAIN IN FORCE THROUGHOUT THE DURATION OF THE PROJECT, ALL INSURANCE COVERAGE MANDATED BY STATUTES IN FORCE AT THE PROJECT'S LOCATION. OBTAIN ADDITIONAL INSURANCE COVERAGE AS DIRECTED BY THE OWNER.
- 43. UNLESS CONTRACTED BY OWNER THROUGH PRIOR AGREEMENT, ARCHITECT WILL NOT PROVIDE REGULAR ON SITE CONTRACT ADMINISTRATION AND IS AVAILABLE ONLY AT REQUEST OF THE OWNER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND CONSTRUCTION STANDARDS FOR THIS PROJECT
- 44. THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY. THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. THE DRAWINGS WERE PREPARED TO A LEVEL OF COMPLETION SATISFACTORY FOR BUILDING PERMIT PURPOSES AND FOR CONSTRUCTION BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF ANY SUPPLEMENTAL PRODUCT SPECIFICATIONS, COORDINATION AND INSTALLATION OF ALL MATERIALS AND EQUIPMENT.
- 45. ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND REGULATIONS.
- 46. ALL WORK SHALL COMPLY W/ OSHA RULES AND REGULATIONS, INCLUDING OSHA 1926 AND 1910.
- 47. THE LEGEND AND ABBREVIATION LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE, INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATIONS ONLY.
- 48. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
- 49. FOR FLOOR DRAIN LOCATIONS, SEE "P" DRAWINGS.
- 50. COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF RECESSED ELECTRICAL DEVICES. SEE ELECTRICAL DRAWINGS FOR LOCATIONS AND DETAILS.
- 51. COORDINATE WITH ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND LOCATIONS.
- 52. PAINTING COORDINATE INSTALLATION OF PAINTING IN ORDER TO PERFORM WORK BEFORE INSTALLATION OF WORK PERFORMED UNDER E. H. FP AND P SCOPE.
- 53. PAINT FIRE PROTECTION COMPONENTS IN COMPLIANCE WITH NJ FIRE CODE. ASSUME ALL SPRINKLER PIPING EXTENSION SHALL BE PAINTED RED AND FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED.
- 54. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR ALL WALL AND ROOF PENETRATIONS.
- 55. USE FIRE RETARDANT TREATED WOOD (FRTW) FOR ALL BLOCKING, PLYWOOD, ETC.
- 56. PROVIDE ADA COMPLIANT SIGNAGE



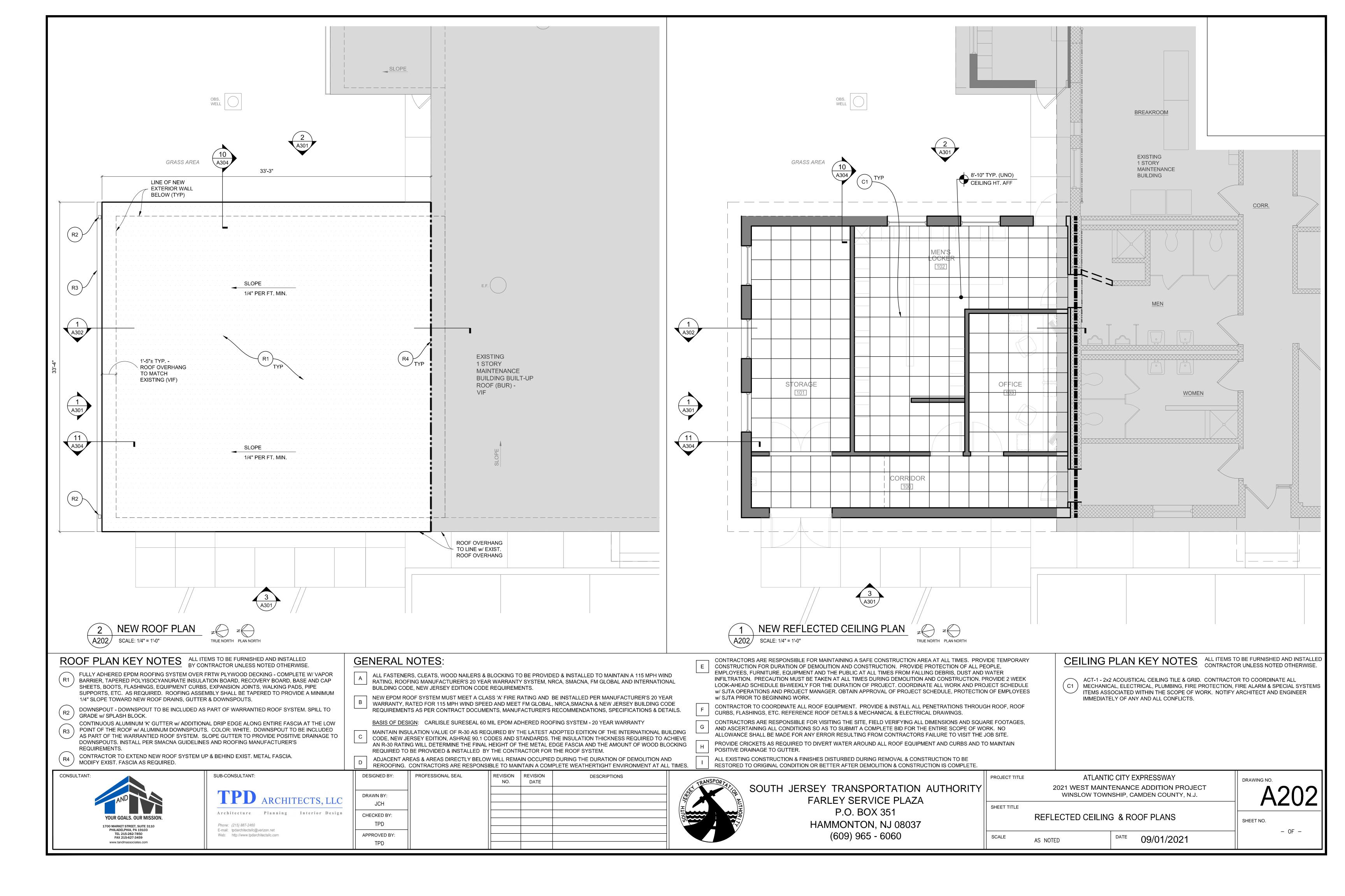


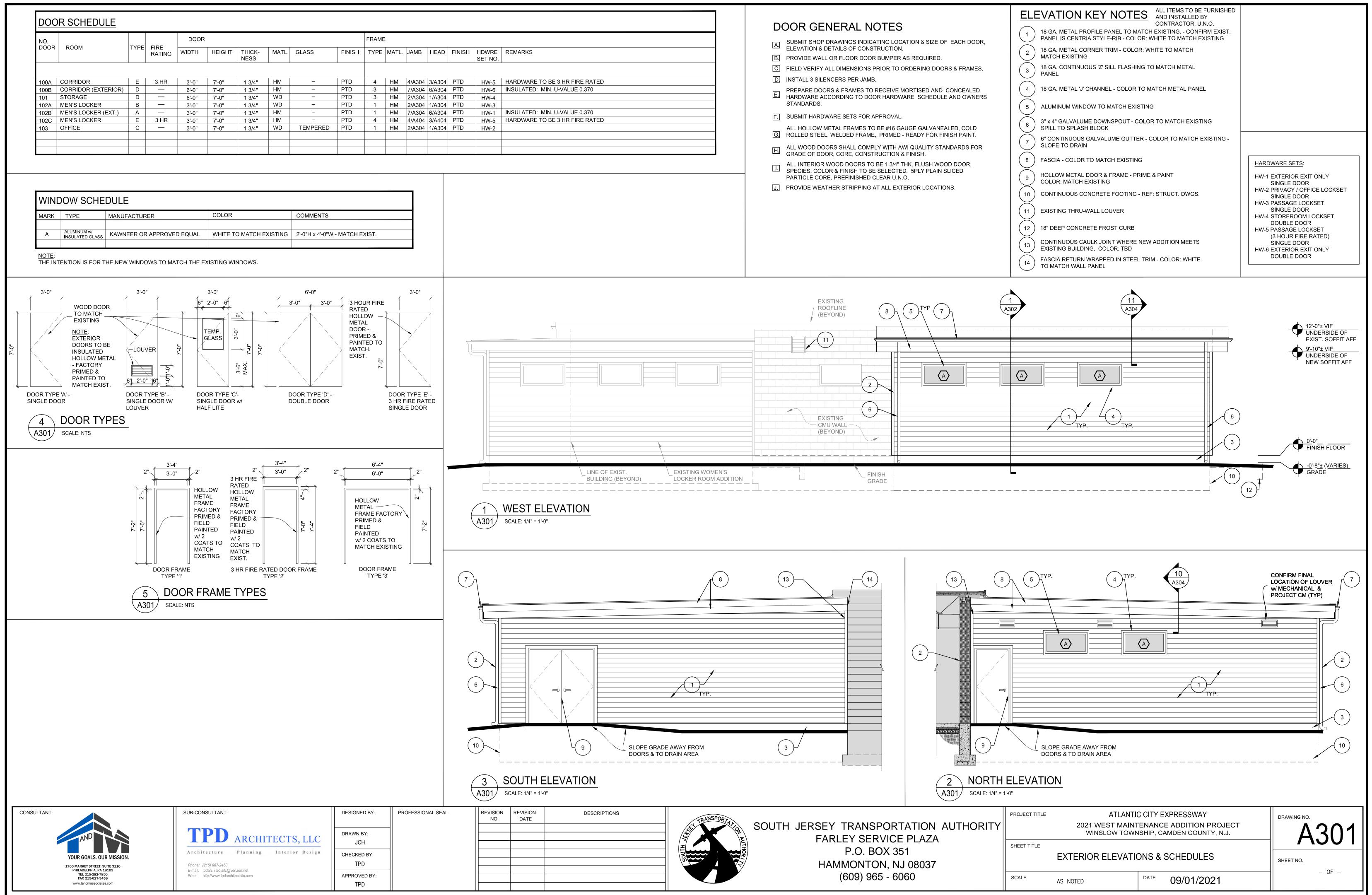
REVISION NO.	REVISION DATE	DESCRIPTIONS	SOUTH JERSEY TRANSPORTATION	_
			P.O. BOX 351 HAMMONTON, NJ 08037 (609) 965 - 6060	

UTHORITY	PROJECT TITLE	2021 WEST MAINT	ENANCE	XPRESSWAY E ADDITION PROJECT MDEN COUNTY, N.J.	DRAWING NO.	ງ∥
	SHEET TITLE	OVERALL BUILDING	SHEET NO.			
	SCALE	AS NOTED	DATE	09/01/2021	- OF -	

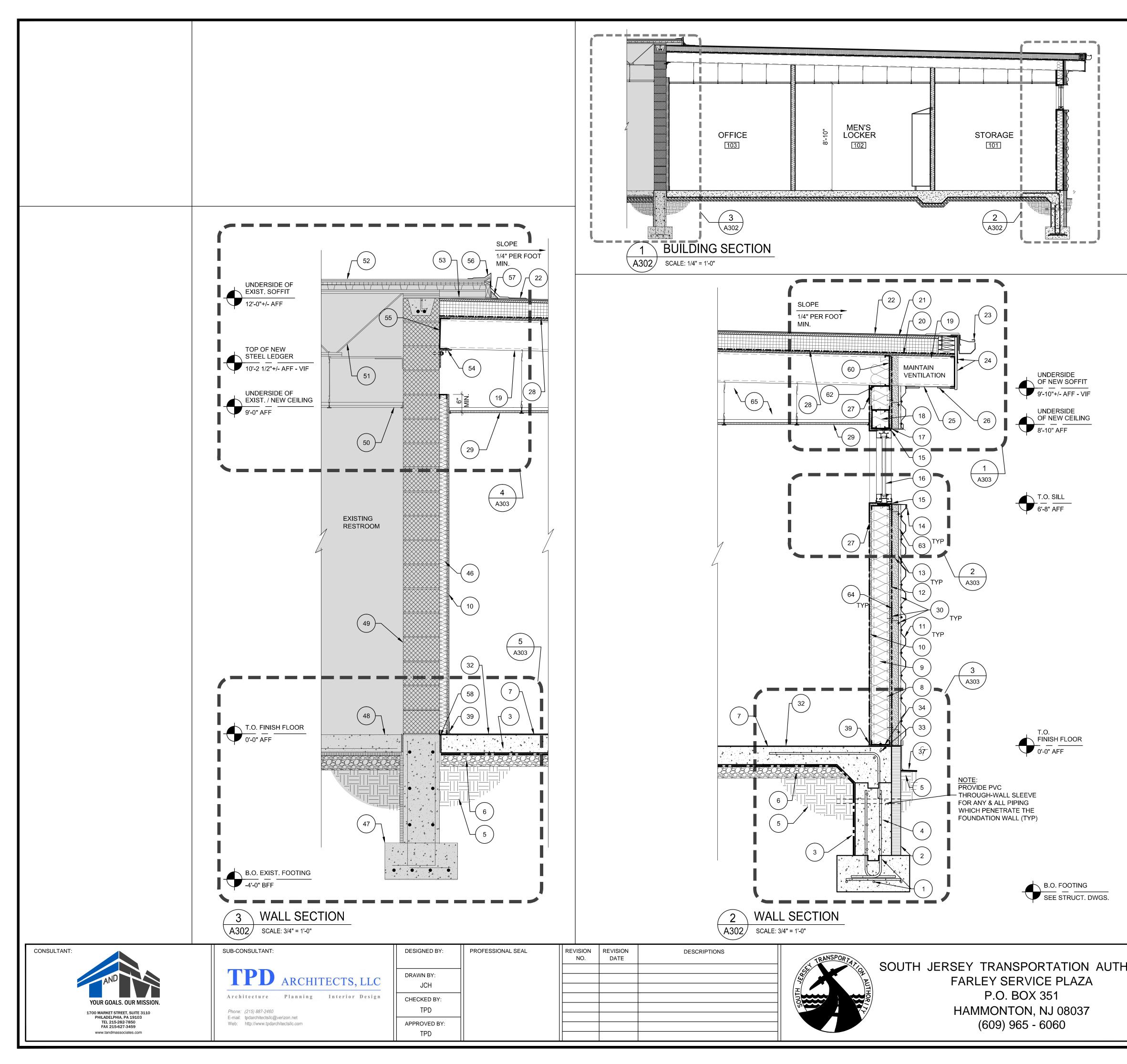


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2 A301 3'-5" 4'-0"	7 3'-4" 3'-4" 5"			CORR.
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L-1-5 		LINE OF EXISTING ROOF ABOVE (TYP)		
	ROO			EXISTING CONCRETE SIDEWALK & CURB (TYP) SCHEDULE ON SHEET A301
DWGS. F	FOR ADDITIONAL INFORMATION FICE FURNITURE BY SJTA TERIOR INSULATED METAL DOOR & FRAMI TERIOR INSULATED METAL DOOR & FRAMI TERIOR INSULATED METAL DOOR & FRAMI W CONCRETE SIDEWALK TO MATCH EXIST W CONCRETE SIDEWALK TO MATCH EXIST PAINT EXIST. CMU WALL TO MATCH EXIST PAINT EXIST. CMU WALL TO MATCH EXIST LD FORMED FRAMING BEARING WALL - F: STRUCTURAL DRAWINGS	E - (12) PROVIDE & INSTA NEW DOOR OPEN 2-A:20BC MIN RAT CABINET. INSTAL (14) SEALED CONCRET ING (14) RESTORE PAINTE	LL NEW SOFFIT. A IING. MATCH EXIS ED FIRE EXTINGU L PER NJ IBC & IFO TE FLOOR	ANGLE & INSTALL TO AVOID TING CONSTRUCTION. ISHER IN SEMI-RECESSED C REQUIREMENTS
UTHORITY	2021 WEST I	LANTIC CITY EXPRESSWAY MAINTENANCE ADDITION PRO TOWNSHIP, CAMDEN COUNTY, N		drawing no. A201
		NEW WORK FLOOR PLANS	S	SHEET NO. – OF –

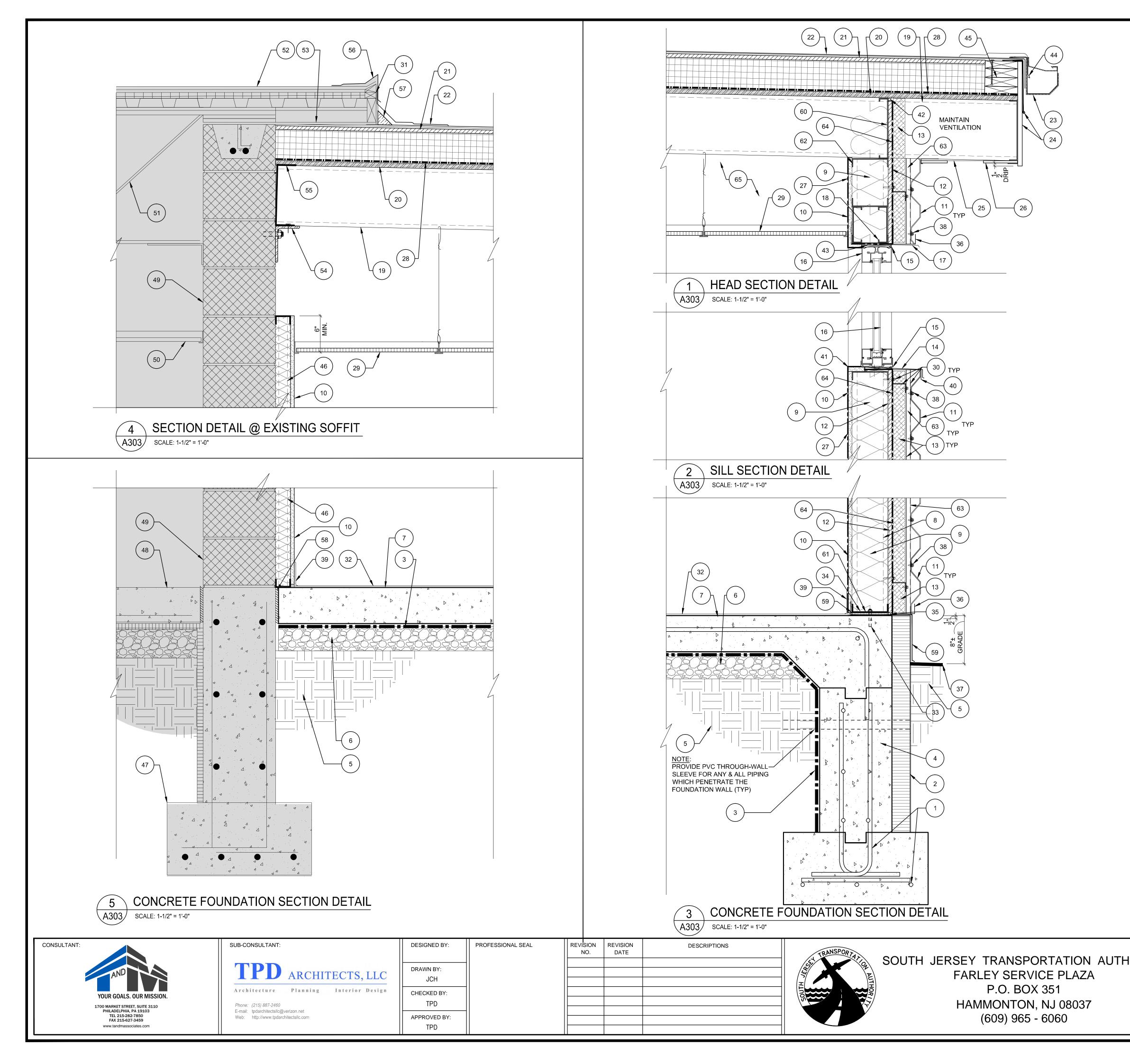




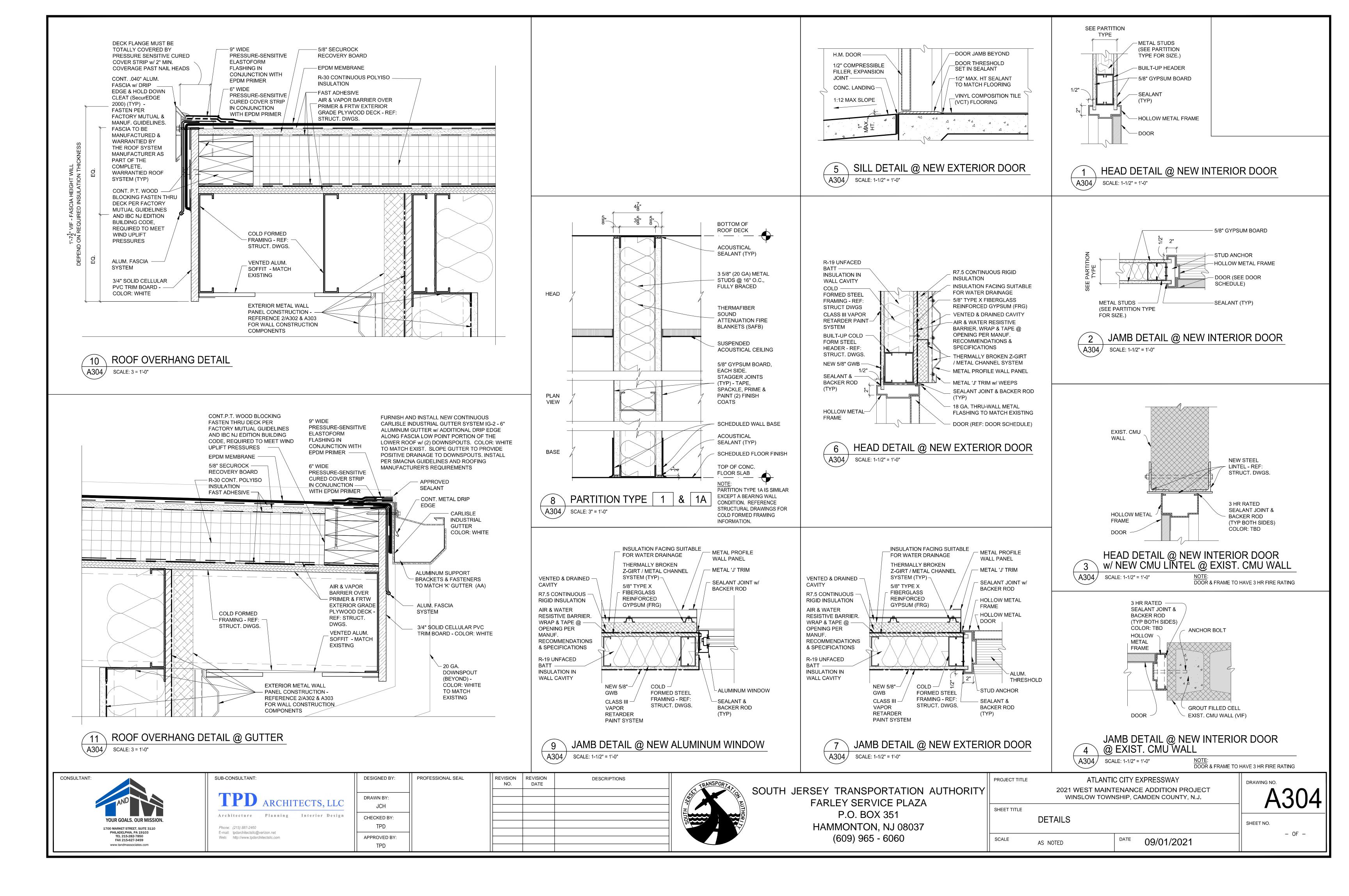
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4	PTD	HW-5	HARDWARE TO BE 3 HR FIRE RATED		D. I
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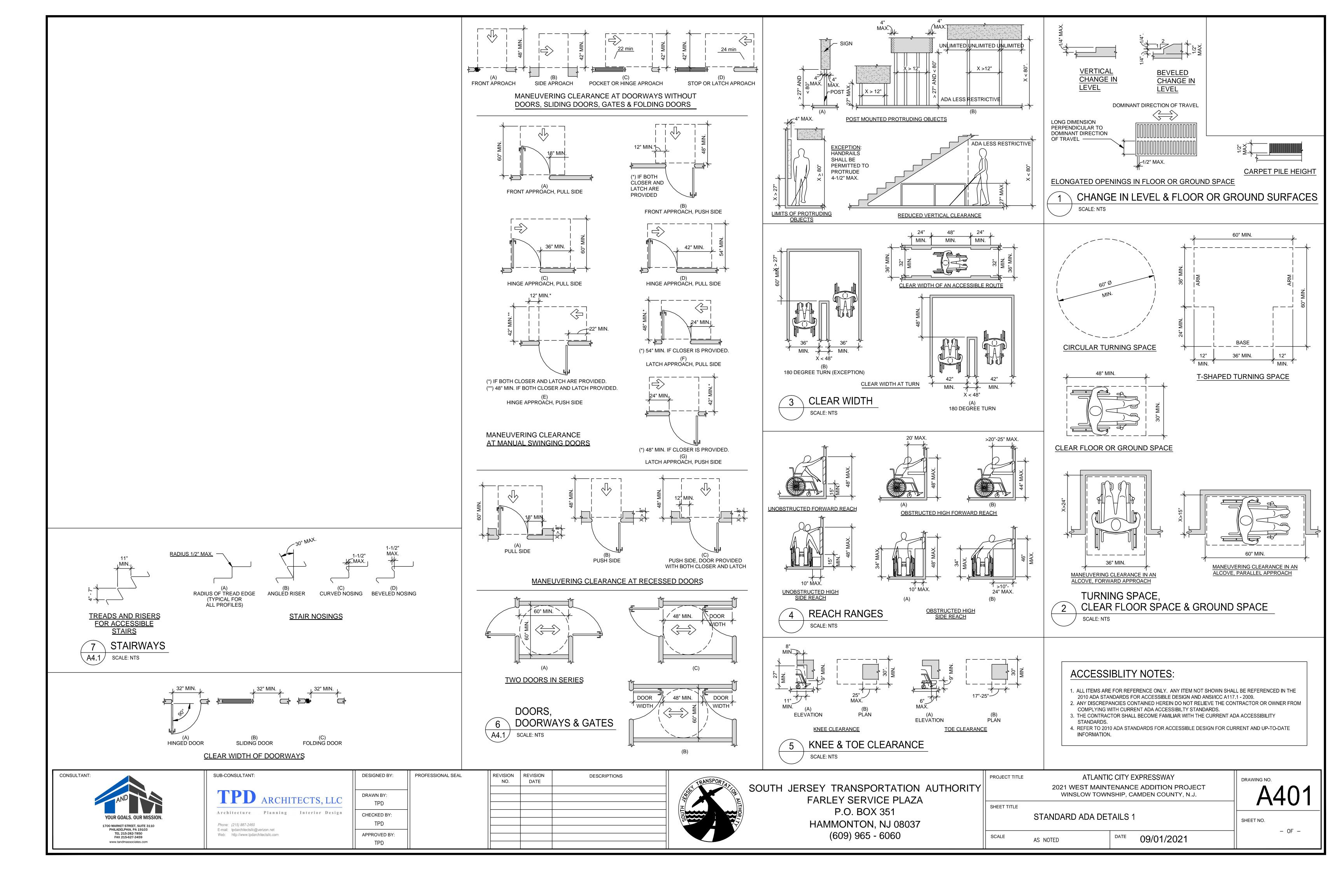


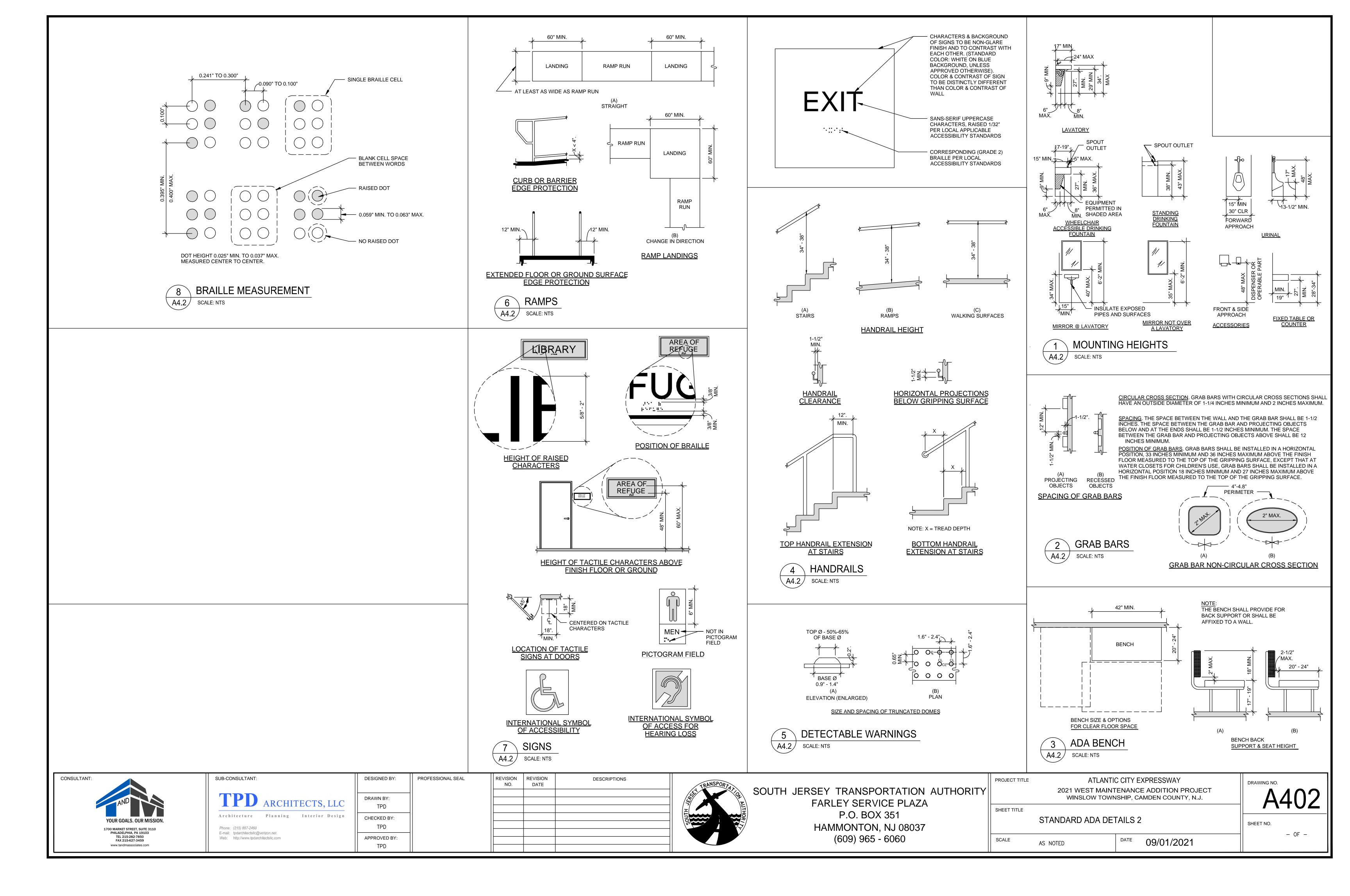
(	30	'J' CHANNEL w/ WEEPS. COLOR I WALL PANEL.	то			
(	37 FINISH	GRADE (VARIES)				
(	38	FASTENER w/ RUBBER WASHER AL. COLOR TO MATCH WALL PAN				
(	39) 4"H RU	IBBER COVE BASE				
(	40 METAL WALL F	.'J' CHANNEL - COLOR TO MATCI PANEL	4			
(	41 METAL	CORNER BEAD (TYP.)				
(	42 /	NT JOINT w/ BACKER ROD - COL I WALL PANEL	OR TO SE	CTION KEY	NOTE	S
(	43 SHIM -	AS REQUIRED		REBAR - REF: STRU	CTURAL DR/	AWINGS
(		NUM FLASHING DRIP EDGE	$\bigcirc$	R-15 RIGID PERIMET	TER INSULAT	TION. EXTEND FROM TOP OF
(	45) PT WO	OD NAILER (TYP)	(2)	SUITABLE FOR GRO	OUND CONTA	(TYP). INSULATION TO BE CT ARRIER. LAP JOINTS 6" MIN.
(	46) 2-1/2" N INSULA	METAL STUDS @ 16" O.C. w/ R-8 I ATION	BATT (3)	(TYP)		ARRIER. LAF JOINTS 0 MIIN.
(	$\stackrel{\scriptstyle{\smile}}{\sim}$	NG CONC. FOOTING & FOUNDAT		CONCRETE FOUND/ REF: STRUCTURAL		AND FOOTING -
(	$\widetilde{\frown}$	NG CONC. FLOOR SLAB - VIF	5	WELL COMPACTED	SUBGRADE	
(	49) EXISTII	NG CMU EXTERIOR PARTITION -	VIF 6	COMPACTED STON	E BASE - REI	F: STRUCT. DWGS.
	50 EXISTII	NG ACOUSTICAL CEILING - VIF	7	CONCRETE SLAB O	N GRADE - R	EF: STRUCT. DWGS.
	51) EXISTII	NG STEEL BAR JOIST - VIF	8	COLD FORMED FRA	MING - REF:	STRUCT DWGS.
	$\sim$	NG ROOFING- VIF	9	UNFACED R-19 BAT	T INSULATIC	N
		/E EXISTING SOFFIT PANEL AS		5/8" TYPE X - FIREC	ORE GYPSU	M BOARD
		RED TO INSTALL NEW ROOF ONENTS ALONG LENGTH OF NEV ON.	N (11)	18 GA. METAL PROF		
	5/1 1	ANGLE LEDGER FASTENED TO	СМU	5/8" TYPE X - FIREC GYPSUM BOARD (FF		LASS REINFORCED
	$\sim$	STRUCT. DWGS. NUOUS COLD FORMED FRAMING	13	R7.5 CONTINUOUS F SIDE SUITABLE FOR		ATION w/ FACING ON EXTERIOR AINAGE
		C - REF: STRUCT DWGS.	14	18 GA. METAL THRU MATCH WALL PANE		FLASHING - COLOR TO
(	56 EXISTII	NG ALUMINUM CAP FLASHING	15	SEALANT JOINT w/ E	BACKER ROI	D. COLOR TO MATCH WINDOW
(	57 4" FIBE	R CANT STRIP	16	NEW 2'-0" X 4'-0" ALU WINDOWS	JMINUM WIN	DOW TO MATCH EXISTING
(	58 1	PANSION JOINT w/ 1/2" RESSIBLE FILLER	17	ALUMINUM THRU-W MATCH WINDOW	ALL HEAD F	LASHING. COLOR TO
(	- <u>-</u>	CONTINUOUS 'Z' SILL FLASHING I METAL PANEL	то (18)	BUILT-UP COLD FOF	RMED METAL	- HEADER - REF: STRUCT. DWGS.
(		DE 6" JOIST AS BLOCKING BETW 3.	EEN 19	COLD FORMED FRA REF: STRUCT. DWG		STRUCTURE -
	61	M METAL TRACK - TRUCTURAL DWGS.	20	FRTW EXTERIOR GF	RADE PLYWO	DOD DECK - REF: STRUCT. DWGS
		NUOUS TRACK - REF: STRUCT. D	owgs.	5/8" SECUROCK REC	COVERY BO	ARD - STAGGER JOINTS
	$\leq$	D & DRAINED CAVITY	22	NEW EPDM ROOF S	YSTEM	
	〔64 〕 TAPE A	HER & AIR RESISTIVE BARRIER - AT OPENINGS PER MANUF.	$\begin{pmatrix} 23 \end{pmatrix}$	ALUMINUM 'K' GUTT	ĒR	
		IMENDATIONS & SPECIFICATION	R (24)	FASCIA - REF: ROOF	- DETAILS	
	65 INTERS THE NJ	STITIAL SPACE PER SECTION 120 J IBC.	02 OF	CONTINUOUS META	AL SOFFIT VE	INT
	NOTE:			VINYL SOFFIT PANE	ELS w/ META	L 'J' CHANNEL
(	# 1	WG. A303 FOR DETAIL PERTAININ Y NOTE	$\bigcirc$			INT SYSTEM
				OVER GYPSUM BOA	RDER PER R	
			(29)	SPECIFICATIONS & SUSPENDED ACOUS		
			30	THERMALLY BROKE VERTICAL METAL H	AT CHANNE	
			(31)	SIDING & CREATE C	G. RUN FLAS	
				VERTICALLY UNDER		ROOF CAP FLASHING ) FINISH FLOOR
				EXPANSION ANCHO	R BOLT - RF	F: STRUCT. DWGS.
				CONTINUOUS COM		
			(35)	CONTINUOUS SEAL	ANT JOINT v	v/ BACKER ROD
	DD0 := -		$\bigcirc$			
IORITY	PROJECT TITLE	2021 WEST MAI		DITION PROJECT		
-	SHEET TITLE	WINSLOW TO	WNSHIP, CAMDEI	N COUNTY, N.J.		A302
		BUILDING SECTIO	NS & WALL SI	ECTIONS		SHEET NO.
	SCALE	AS NOTED	DATE 09	/01/2021		- OF -



	36	STEEL 'J' CHANNEL w/ WEEPS. COLOR TO MATCH WALL PANEL.					
	37	FINISH GRADE (VARIES)					
	38	STEEL FASTENER w/ RUBBER WASHER - TYPICAL. COLOR TO MATCH WALL PANEL					
	39	4"H RUBBER COVE BASE					
	40	METAL 'J' CHANNEL - COLOR TO MATCH WALL PANEL					
	(41)	METAL CORNER BEAD (TYP.)					
	42	SEALANT JOINT w/ BACKER ROD - COLOR T MATCH WALL PANEL	ro SE(	CTION KEY	NOTE	S	
	43	SHIM - AS REQUIRED	$\overline{\left(\begin{array}{c}1\end{array}\right)}$	REBAR - REF: STRUC	TURAL DRA		
	44	ALUMINUM FLASHING DRIP EDGE		R-15 RIGID PERIMETE			
	45	PT WOOD NAILER (TYP)	$\begin{pmatrix} 2 \\ \end{pmatrix}$	SLAB TO BOTTOM OF SUITABLE FOR GROU 6 MIL POLYETHYLENI	JND CONTAG	СТ	
	$\underbrace{46}$	2-1/2" METAL STUDS @ 16" O.C. w/ R-8 BATT INSULATION	т (3)	(TYP)		ANNEN. LAF JOINT	3 0 MIN.
	47	EXISTING CONC. FOOTING & FOUNDATION WALL - VIF	$\begin{pmatrix} 4 \end{pmatrix}$	CONCRETE FOUNDA REF: STRUCTURAL D		AND FOOTING -	
	(48)	EXISTING CONC. FLOOR SLAB - VIF	(5)	WELL COMPACTED S	SUBGRADE		
	(49)	EXISTING CMU EXTERIOR PARTITION - VIF	6	COMPACTED STONE	BASE - REF	STRUCT. DWGS.	
	50	EXISTING ACOUSTICAL CEILING - VIF	7	CONCRETE SLAB ON	I GRADE - RE	EF: STRUCT. DWGS	3.
	51	EXISTING STEEL BAR JOIST - VIF	8	COLD FORMED FRAM	/ING - REF: S	STRUCT DWGS.	
	52	EXISTING ROOFING- VIF	9	UNFACED R-19 BATT	INSULATION	N	
	53	REMOVE EXISTING SOFFIT PANEL AS	10	5/8" TYPE X - FIRECO	RE GYPSUM	/ BOARD	
		REQUIRED TO INSTALL NEW ROOF COMPONENTS ALONG LENGTH OF NEW ADDITION.		18 GA. METAL PROFIL	LE WALL PAI	NEL	
	54	STEEL ANGLE LEDGER FASTENED TO CMU	12	5/8" TYPE X - FIRECO GYPSUM BOARD (FR		LASS REINFORCED	)
	$\bigcirc$	- REF: STRUCT. DWGS.	13	R7.5 CONTINUOUS RI SIDE SUITABLE FOR			N EXTERIOR
	(55)	TRACK - REF: STRUCT DWGS.	14	18 GA. METAL THRU- MATCH WALL PANEL		LASHING - COLOR	ТО
	56	EXISTING ALUMINUM CAP FLASHING		SEALANT JOINT w/ BA	ACKER ROD	. COLOR TO MATC	H WINDOW
	57	4" FIBER CANT STRIP		NEW 2'-0" X 4'-0" ALUI WINDOWS	MINUM WINE	DOW TO MATCH EX	(ISTING
	58	1/2" EXPANSION JOINT w/ 1/2" COMPRESSIBLE FILLER		ALUMINUM THRU-WA MATCH WINDOW	ALL HEAD FL	ASHING. COLOR T	0
	59	18 GA. CONTINUOUS 'Z' SILL FLASHING TO MATCH METAL PANEL		BUILT-UP COLD FORM	MED METAL	HEADER - REF: ST	RUCT. DWGS.
	60	PROVIDE 6" JOIST AS BLOCKING BETWEEN JOISTS.	19	COLD FORMED FRAM REF: STRUCT. DWGS		STRUCTURE -	
	61	BOTTOM METAL TRACK - REF: STRUCTURAL DWGS.	20	FRTW EXTERIOR GRA	ADE PLYWO	OD DECK - REF: ST	FRUCT. DWGS
	<u>(62</u> )	CONTINUOUS TRACK - REF: STRUCT. DWG	s. (21)	5/8" SECUROCK REC	OVERY BOA	RD - STAGGER JOI	NTS
	63	VENTED & DRAINED CAVITY	22	NEW EPDM ROOF SY	STEM		
	64	WEATHER & AIR RESISTIVE BARRIER - WRA TAPE AT OPENINGS PER MANUF.	AP & 23	ALUMINUM 'K' GUTTE	R		
	65	RECOMMENDATIONS & SPECIFICATIONS PROVIDE ADEQUATE VENTILATION FOR	24	FASCIA - REF: ROOF	DETAILS		
		INTERSTITIAL SPACE PER SECTION 1202 C THE NJ IBC.		CONTINUOUS METAL	. SOFFIT VEI	NT	
	NOTE:		(26)	VINYL SOFFIT PANEL	_S w/ METAL	. 'J' CHANNEL	
	#	SEE DWG. A303 FOR DETAIL PERTAINING TO KEY NOTE	27			NT SYSTEM	
				OVER GYPSUM BOAF AIR & VAPOR RETAR SPECIFICATIONS & R	DER PER RO		
			(29)	SUSPENDED ACOUS			
			(30)	THERMALLY BROKEN VERTICAL METAL HA	T CHANNEL		
			(31)	SIDING & CREATE CA COUNTER FLASHING VERTICALLY UNDER	. RUN FLASI		
			(32)	VERTICALLY UNDER			
				EXPANSION ANCHOF	R BOLT - REF	-: STRUCT. DWGS.	
			(34)	CONTINUOUS COMPI			
			35	CONTINUOUS SEALA	NT JOINT w/	/ BACKER ROD	
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	SCAL	E AS NOTED	DATE 09/	01/2021		-	OF -







# GENERAL NOTES

1.0 GENERAL

1. All work shall conform to the IBC 2018 Building Code, NJ Edition and to all other applicable Federal, State, and local regulations.

2. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.

3. Contractor shall coordinate openings and penetrations through the structure as shown on the Architectural, Structural, Mechanical, Electrical, and Plumbing drawings. Provide additional reinforcement as required per the typical details.

4. Contractor shall verify and/or establish all existing conditions and dimensions at the site.

5. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Engineer immediately and provide a sketch of the condition with their proposed modification of the details given on the contract documents.

6. Contractor shall provide for dewatering as required during excavation and construction.

7. Where alterations involve the existing supporting structure, the Contractor shall provide shoring and protection required to ensure the structural integrity of the existing structure.

8. Bracing, sheeting, shoring, etc., required to support existing buildings, sidewalks, utilities, etc., shall be designed by a professional engineer licensed in the State of New Jersey, engaged by the Contractor; Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring work to be performed for submission and review.

9. In no case shall heavy equipment be permitted closer than 8'-0" from any foundation wall. If it is necessary to operate such equipment closer than 8'-0" to the wall, the Contractor shall be the sole responsible party and, at their own expense, shall provide adequate supports or brace the wall to withstand the additional loads superimposed from such equipment.

10. No blasting shall be permitted without written approval.

11. Special inspection is required of all construction delineated on the Structural drawings. The Owner shall employ a testing/inspection agency which shall provide personnel with the following minimum qualifications:

- Certified by National Institute for Certification in Engineering Technologies (NICET), or other recognized comparable organization.
- For inspection, sampling, testing concrete: ACI Certified Concrete Field-Testing Technician, Grade I; and Construction Inspector, Level II.
- Submit periodic reports to Engineer during construction. Submit final inspection report summary for each division of work, certified by a licensed professional engineer, that special inspections were performed, and that work was performed in accordance with Contract Documents.

12. If initial inspections made by the Owner's testing and inspection agency reveal that any portion of the work does not comply with the Contract Documents, additional tests, inspections, and necessary repairs will be made at the Contractor's expense.

13. If differences occur within or between drawings and specifications regarding materials, strength, or quantities, the better material, higher strength, and greater quantity indicated, specified, or noted shall be provided.

14. For the addition to the SJTA West Maintenance Building, existing structural information, dimensions, and elevations were obtained from original design drawings dated January 1964 and drawings for the SJTA West Maintenance Building Addition dated February 25, 2013.

# 2.0 EXISTING CONDITIONS

1. Verify and/or establish all existing conditions, locations, and dimensions of walls, slabs, framing, utilities, finishes, materials, and systems affecting the work. Notify the Engineer of any discrepancies from information indicated on contract documents prior to ordering materials. Verify clearances required for all new equipment, piping, ductwork, and related components.

2. The structural work is based on documents of the existing construction referenced above. Verify and/or establish that existing building components conform to the original building documents. Examine the layout, elevations, member sizes, connection, details, etc. of the existing structure. Report any discrepancies with the original building construction documents to the Engineer before any affected work is performed.

# 3.0 SELECTIVE DEMOLITION

1. Where building alterations involve supporting the existing structure, provide shoring and protection to ensure the structural integrity of the existing structure. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain.

2. The Contractor is responsible for determining all instances in which shoring is required. Shoring indicated in the Contract Documents may or may not constitute the extent of shoring required.

3. Shoring required to support the existing structure shall be designed by a Professional Engineer licensed in the State of New Jersey, engaged by the Contractor. The Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring work to be performed for submission and review.

4. Selective Demolition Definitions:

- a. <u>Remove</u>: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or reinstalled.
- b. <u>Remove and Salvage</u>: Detach from existing construction, in a manner to prevent damage, and deliver to Owner/G.C.
- c. <u>Remove and Reinstall</u>: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
- d. <u>Existing to Remain</u>: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

5. The Contractor shall protect the existing building during all selective demolition for the duration of the construction activities.

6. Contractor is to coordinate with Architectural and MEP drawings to establish the extent of wall and slab removal.

7. Coordinate size of openings with tolerances required for casework, stairs, door jambs, ducts, utilities, etc. Coordinate size of opening with ADA requirements, as required.

8. Do not cut openings in beams, columns, walls, or footings without the approval of the Engineer before field cutting the opening.

4.0 EARTHWORK

1. Engineered (controlled compacted) fill within the building area shall be constructed prior to footing excavation. See specifications for requirements of controlled compacted fill.

2. Excavation shall be performed so as not to disturb existing adjacent buildings, streets and utility lines. Verify location of all utilities prior to commencement of work. Hand excavate around utilities as required.

Backfill shall be brought up equally on each side of walls and grade beams.
 FOUNDATIONS

1. Foundations have been designed and footing elevations established on assumptions made by CVM due to no Geotechnical Report available. Design assumptions must be verified/confirmed in the field by a Geotechnical Engineer.

2. Footings shall bear on undisturbed stratum or engineered fill with an assumed minimum bearing capacity of 2,000 psf, which is required to be verified by a Geotechnical Engineer.

3. Prior to footing concrete placement, the footing subgrade shall be approved by the inspecting engineer/geotechnical engineer. If conditions prove to be unacceptable at elevations shown, the excavation shall be lowered to acceptable subgrade material. Fill over-excavation with lean concrete (2500 psi).

4. The bottom of exterior footings shall be a minimum of three (3) feet below finished grade, U.N.O.

5. Slabs on ground shall bear on mechanically compacted soil capable of supporting 1000 psf. Drainage fill under slabs shall be compacted sand and gravel or crushed stone (6" minimum thickness).

6. Contractor shall verify all existing field conditions that may affect the installation of the foundation system as shown prior to starting work.

7. Provide Special Inspections for all soils, foundations and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests".

# 6.0 CONCRETE

1. Concrete shall be reinforced, detailed, and constructed in accordance with the Building Code Requirements for Structural Concrete (ACI 318-14) and the Manual of Standard Practice.

2. Concrete shall have a minimum 28-day compressive strength as follows:

<u>Type</u>	<u>f'c (psi</u> )	<u>Air Entrainment (Y/N)</u>
Footings	4,000	N
Foundation Walls	5,000	Y
Slabs on Grade	5.000	N
Slabs on Grade	5,000	Ν

Air Entrainment to be 6% +/-1.5% if air entrainment is required per the note above.

3. Reinforcing steel: ASTM A-615 Grade 60.

4. All hooks on reinforcement bars shown in sections and details are to be standard hooks per ACI, unless noted otherwise.

5. At the Contractor's option, all hooks on reinforcement bars shown in sections and details for #5 bars and smaller are permitted to be stirrup hooks if a continuous nosing bar is provided.

# 6. Fiber Reinforcement:

a. Synthetic macro fiber complying with ASTM C1116, Type 3, to be placed in slabs on grade.

b. For pumped concrete with fiber reinforcement, to avoid the potential of the concrete mix clogging the pump, it is recommended to use a 5" minimum diameter pump and pump line.

c. The macro-synthetic fibers are to be added to the mix at the batch plant. Per fiber manufacturer's recommendations the fibers should be the last item added to the truck/mix.

7. Fiber Reinforcement Dosage Criteria:

a. Polypropylene/polyethylene synthetic macro fiber complying with ASTM C1116 Type 3, minimum 2-inch length, having an aspect ratio 50 to 90 and meeting ICC-ES Acceptance Criteria for Polyolefin Chopped Strands for use according to AC-383.
i. Basis of Design

1. Euclid Chemical Company (The); Tuf-Strand SF

- b. Synthetic Macro Fiber Reinforcement
- i. Measure, batch and mix per ASTM C94 and C1116
- ii. For 6" thick slabs-on-grade:
  1. Use dosage that will provide minimum Re3 (Rt150) value of 22 +/- 3% per ASTM C1116 and C1609 in the specified concrete. In no case shall dosage rate be less than 4.0 pounds per cubic yard on concrete.

8. Placing of concrete shall not start until the placement of reinforcing has been approved by the Owner's inspection agency.



# 9. The following minimum concrete cover shall be provided for reinforcement placed in cast-in-place concrete (non-prestressed) U.N.O.:

- a. Concrete cast against and permanently exposed to earth: 3"
- b. Concrete exposed to earth or weather: i. No. 6 through No. 18 bars: 2"
- ii. No. 5 bar,  $\breve{W}$ 31 or D31 wire, and smaller: 1.5"

10. Bonding agent shall be used where new concrete is placed against existing concrete. Epoxy bonding agent is required if joint will be exposed to moisture.

11. Provide a <sup>3</sup>/4" chamfer on exposed corners of concrete as shown on drawings.

12. All inserts shall be galvanized (or epoxy coated or stainless steel).

13. All exterior exposed horizontal concrete (slabs, ramps, stairs, etc.) shall have epoxy coated reinforcement and W.W.R., U.N.O.

14. The Contractor shall avoid field bending or modifying epoxy coated reinforcing in any way that could compromise the epoxy coating. All damaged epoxy coating shall be repaired.

- 15. Contraction joint spacing in slab on grade is as follows U.N.O. on drawings:
- Contractor is to submit proposed layout for review by Engineer before placing slab on grade (not structural slab).
- b. Provide maximum spacing 2.5 x slab thickness (in feet) with a maximum aspect ratio of 1.5.

16. Coordinate all under-slab and in-slab utilities and floor penetrations with Civil, M/E/P, and Architectural drawings.

17. Provide Special Inspections for all concrete construction and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests".

# 7.0 STRUCTURAL STEEL

1. Fabrication and erection of structural steel shall conform to AISC 360-16, Fifteenth Edition of the AISC Steel Construction Manual (LRFD - Load and Resistance Factor Design), ANSI/AISC 360-16 Specification for Structural Steel Buildings, and ANSI/AISC 303-16 Code of Standard Practice, except Section 4.4.1.b of the Code which shall not be applicable to this project. Section 4.4.1.b of the Code shall not imply that the approval constitutes the owner's acceptance of all responsibility for the design adequacy of any detail configuration of connections developed by the fabricator as part of their preparation of these shop drawings.

- 2. Structural Steel:
- a. ASTM A-36 for Channels, Angles, and Plates (U.N.O.)
- 3. Anchor Rods: ASTM F1554 (S1), Grade 55, weldable.

# 4. Steel angles and plates, along with bolts and washers, in direct contact with exterior finish masonry and all exposed structural steel, shall be hot-dipped galvanized.

5. All long slotted and oversized holes to be covered with 5/16" plate washers that are large enough to cover the entire slot, U.N.O. These plate washers shall have standard holes.

6. Provide Special Inspections for all steel construction and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests".

8.0 POST INSTALLED ANCHORS

A. General Requirements:

1. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to the edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

2. Substitution requests for alternative products must be approved in writing by the Engineer prior to use. If the Contractor requests the use of a substitution for an anchor product, the Contractor shall provide signed and sealed calculations demonstrating the substitution can achieve the performance values of the specified anchor product and the design value is equal to or greater than the product specified on the Contract Documents. The Contractor shall also submit the ICC ESR showing compliance with the relevant building code. All anchor sizes and embedment depths must be evaluated and compared to the specified anchor product for the substitution to be reviewed and approved.

3. All anchors shall assume the concrete is cracked, U.N.O.

4. Anchors shall be installed by qualified personnel in accordance with the Contract Documents.

5. The installation of post installed anchors shall be in accordance with the Manufacturer's Printed Installation Instructions (MPII).

6. Provide Special Inspections for post installed anchors and related work in compliance with IBC 2018 – Chapter 17 – "Special Inspections and Tests", ACI 355.4-11, and individual product ESRs. Refer to Special Inspection Tables for additional information.

7. The Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all the anchors specified. The Engineer must receive documentation confirming that all the Contractor's personnel who install anchors are trained prior to the commencement of installing anchors.

# B. Adhesive Anchors:

REVISION REVISION

DATE

NO.

1. Adhesive anchors denoted on the structural drawings have been designed in accordance with IBC 2018, ACI 318-14 Chapter 17, and shall have been tested in accordance with ACI 355.4.

2. Adhesive anchors installed into cracked and uncracked concrete shall consist of the following types as provided by Hilti, Inc.:

- a. For shallow holes, shorter working time or shorter cure time:
   i. For Anchor Diameters ½" to 1" use Hilti HIT-HY 200 Adhesive anchoring system with <u>Safe Set Technology</u> using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 20/40 Vacuum (VC 20-U or VC 40-U) system with a HAS-E Rod per ESR-3187.
- ii. For Rebar sizes #3 to #8 use Hilti HIT-HY 200 Adhesive anchoring system with <u>Safe Set Technology</u> using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 20/40 Vacuum (VC 20-U or VC 40-U) system with deformed rebar per ESR-3187.

DESCRIPTIONS

3. Anchors installed into grout filled or solid masonry, hollow masonry, or multiwythe masonry walls shall use Hilti HIT-HY 270 hybrid adhesive, U.N.O. Steel anchor element shall be Hilti HAS-E continuously threaded rod or continuously deformed steel rebar as noted.

 For anchors in grout-filled CMU, hollow CMU and hollow brick masonry, provide HIT-HY 270 Safe Set System using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 150 or VC 300 series vacuum.

4. Provide a composite mesh screen tube for all anchors into unreinforced masonry, hollow CMU, or hollow brick walls using Hilti HIT-HY 270 hybrid adhesive according to the Manufacturer's recommendations for appropriate size screen tube.

5. All anchors to be installed in accordance with ICC Report and Manufacturer's recommendations. Anchor diameter, spacing and embedment depths are noted in sections and details.

- Anchor Specifications (Typical Unless Noted Otherwise):
   a. HAS-E Standard Rod material meeting the requirements of ISO 898 Class 5.8, with HAS-E Standard Nut material meeting the requirements of SAE J995 Grade 5, with HAS-E Standard Washers meeting the requirements of ASTM F884, HV.
- b. Reinforcing steel used in adhesive anchor connections shall conform to ASTM A615, Grade 60.

7. All HAS-E Standard and HAS Super Rods (except 7/8" diameter) shall be zinc plated to ASTM B633 SC1. 7/8" diameter HAS Super Rods shall be hot-dip galvanized in accordance with ASTM A153.

8. The Contractor must install all adhesive anchors according to the following criteria in order to achieve the design parameters used to determine the adhesive anchor capacity:

- a. Concrete shall have a minimum age of 21 days at the time of anchor
- installation.b. Concrete temperature at time of anchor installation shall be at least 50
- degrees F.
- c. Moisture condition of concrete at the time of installation shall be considered "dry".
- d. All holes must be hammer drilled, no core drilling unless approved by the Engineer. If core drilling is approved, the hole must be intentionally roughened using the manufacturer's recommended roughing drill bit (Hilti Roughening tool, TE-YRT).
- C. Mechanical Anchors:

1. Mechanical anchors denoted on the structural drawings have been designed in accordance with IBC 2018 and ACI 318-14 Chapter 17.

2. Mechanical anchors installed into concrete shall use Hilti Kwik Bolt TZ per ICC ESR-1917, U.N.O.

3. Mechanical anchors noted thus "Kwik CON II+" in sections and details installed into concrete shall use Hilti Kwik CON II+ screw anchor per Manufacturer's Instructions.

4. Anchors to be installed in accordance with ICC Report and Manufacturer's recommendations. Anchor diameter, spacing and embedment depths are noted in sections and details.

5. Mechanical anchors shall be stainless steel for exterior use, exposed to weather, or installed into exterior masonry. Provide galvanized or electroplated zinc carbon steel anchors at other locations, U.N.O.

6. If reinforcement is encountered during drilling, abandon and shift the hole location to avoid the existing reinforcement. Provide a minimum of 2 anchor diameters or 3 inches, whichever is larger, of sound concrete between the anchor and the abandoned hole. Fill the abandoned hole with non-shrink grout. If the anchor or dowel cannot be shifted as noted above, notify the Engineer immediately for direction on a new location.

9.0 COLD FORMED METAL FRAMING

1. Fabricate cold-formed metal framing to comply with American Iron and Steel Institute "North American Specification for the Design of Cold-Formed Steel Structural Members" and "Standard for Cold-Formed Steel Framing – General Provisions" latest editions.

2. All galvanized studs and/or joists, 12, 14, and 16 gauge, shall be formed from steel that corresponds to the requirements of ASTM A1003, with a minimum yield strength of 50,000 psi.

3. All galvanized 18- and 20-gauge studs and/or joists and all galvanized track, bridging, and accessories shall be formed from steel that corresponds to the requirements of ASTM A1003, with a minimum yield strength of 33,000 psi.

4. All galvanized studs, joists and accessories shall have a minimum G-60 coating in conformance with ASTM A1003/A653.

5. Prior to fabrication of framing, the Contractor shall submit fabrication and erection drawings to the Engineer for review.

6. Framing components may be preassembled into panels prior to erecting. Prefabricated panels shall be square with components attached in a manner as to prevent racking.

7. Axially loaded studs shall be installed in a manner which will assure that ends of the studs are positioned against the inside track web prior to stud and track attachment.

8. Studs shall be plumbed, aligned, and securely attached to the flanges or webs

of both upper and lower tracks, unless noted otherwise.9. All stud ends shall be nested tight in track, or tied to adjacent framing

members as detailed, except at deflection track detail.

10. Punched holes in studs occurring at connections or track locations shall be capped with an 18" long section of track fastened to the stud with a minimum of (6) #10 self-drilling screws.

11. All headers and sills shall be continuous members constructed with un-

punched studs or tracks.

12. Field cuts shall be made with saws and shall be square and true. Torch cutting of framing members shall not be permitted.

13. Framing members shall be held in place until properly fastened. Temporary bracing shall be provided until erection is complete and all attached adjacent framing is complete.

SOUTH JERSEY TRANSPORTATION AUTHO FARLEY SERVICE PLAZA P.O. BOX 351 HAMMONTON, NJ 08037 (609) 965 - 6060

14. Wall stud bridgir Bridging rows shall b

a. Walls less th
b. Walls up to 8
c. Walls over 8
maximum.

15. Framed wall open on the plans.

16. Splices in axially

17. Joists shall be loo member to be provide

 Welded connecti and shall comply with and "Specifications for

Screws to confor
 All fasteners con

10 screws (0.19-inch screws shall extend a Wire-tying is not pern center and shall be a studs shall be secure noted.

21. All fasteners cor Powder Actuated Fa with the following crit

a. Spacing required
i. Minimuniti. Minimuniti.
b. PAF embedric. Fasten PAF
d. Provide multition

d. Provide mult 10.0 SHEATHING

 Plywood shall be Plywood Association specifications.

 Plywood face gra to be staggered. Nai comply with APA req conform to "Fastening"

3. Plywood wall she conform to APA PS-1 with a minimum of 8d U.N.O. in shear wall of with APA nailing requ fastened to both the t the wall sheathing, bo the rim joist.

4. Plywood for roof APA PS-1 rated shea span continuous. Pro otherwise, use panel

5. Installation of gyp Standard C1396. Fa and studs, blocking, a

11.0 DESIGN LO

# Dead: Dead loads vary base Contract Documents

Typical rooms: 100 p Roof Live: 20 psf

Live:

Snow: Roof Snow: 20 psf Ground Snow Load – Flat-Roof Snow Load Exposure Factor - C<sub>e</sub> Thermal Factor - C<sub>t</sub>: Slope Factor(s) – C<sub>s</sub>: Snow Load Important

Wind: (Main Wind Fo Basic Design Wind S Risk Category: II Wind Exposure Categ Internal Pressure Coe Components and Cla

Seismic: Seismic Design Cate Site Class: D Seismic Importance F Risk Category: II Ss: 0.162 S1: 0.045 SDS: 0.173 SD1: 0.072 Seismic Resisting Sy materials Response Modificatio

Response Modificatio Seismic Response C Deflection Amplificati Design Base Shear: Analysis Procedure:

ging shall be attached in a manner to prevent stud rotation. I be spaced according to the following schedule:	
s than 5'-0" in height: bridging not required. to 8'-0" in height: one row of bridging at mid-height. r 8'-0" in height: bridging rows equally spaced, 4'-0" O.C.	
penings shall include headers and supporting studs as shown	
Ily loaded studs are not permitted.	
located directly over bearing studs or a load distribution vided at the top track.	
ections shall be wire brushed and coated with a zinc rich paint, vith American Welding Society "Structural Welding Code (D.1.1)" s for Welding Sheet Steel in Structures (D1.3)" latest editions.	
form to SAE J78, unless otherwise noted.	
onnecting cold-formed members shall be a minimum of (2) No. ch diameter) at each connection, unless specifically detailed. All d a minimum of three threads beyond the last ply penetrated. ermitted. Screws shall be spaced not less than 3/4 inch on a minimum of 3/4 from the edge of cold-formed surfaces. All ured to tracks with one screw through each flange except where	
onnecting cold-formed members to concrete shall be HILTI X-U Fasteners (PAF) of 0.157 inch diameter (unless noted otherwise) criteria:	
equirements for PAFs into concrete: num spacing distance = 4" num edge distance = 3" edment = 1.25" AF into concrete with low-velocity fasteners only. nultiple fasteners for any attachment unless noted otherwise.	
NG AND WOOD DECKING	
be identified with the APA grade-trademark of the American on and shall be installed in accordance with the project	
grain shall be perpendicular to supports. Joints in plywood are lailing and screwing of plywood floor/roof diaphragms shall equirements, and unless noted otherwise, fasteners are to ning Schedule" Table 2304.10.1 of IBC 2018.	
sheathing shall be a minimum of ½" thick (U.N.O.) and shall S-1 rated sheathing. U.N.O. wall sheathing shall be fastened 8d nails at 6" o.c. perimeter spacing and 12" o.c. field spacing, all details and schedules. Connections of plywood shall comply equirements for plywood shear walls. Wall sheathing shall be e top and bottom plate. In case of multiple story construction, both above and below the elevated floor, shall be fastened to	
of sheathing shall be minimum 3/4" and each shall conform to neathing, 32/16, exterior, 48" x 96" plywood, and shall be two Provide lumber blocking at edge supports as indicated, nel edge clips, tongue and groove plywood.	
gypsum sheathing shall conform to IBC 2018 and ASTM Fasteners shall not be less than 3/8" from all edges of gypsum g, and plates.	
LOADS	
ased on actual building construction. Refer to complete set of ts for determining dead loads	
) psf	
d – P <sub>g</sub> : 20 psf ad – P <sub>f</sub> : 14 psf C <sub>e</sub> : 1.0 S <sub>t</sub> : 1.0	
$C_{s}$ : 1.0 ance Factor – I <sub>s</sub> : 1.0	
Force Resisting System) I Speed V: 118 mph	
ategory: C Coefficient: +/- 0.18 Cladding: To be designed in accordance with ASCE 7-16.	
ategory: B	
e Factor – I <sub>e</sub> : 1.0	
Sustant Light frame wells with share and the state of all others	
System: Light-frame walls with shear panels of all other ation Coefficient - R: 2 $\odot$ Coefficient – C <sub>s</sub> : 0.0865	
a Coefficient – C <sub>s</sub> : 0.0865 ation Factor - C <sub>d</sub> : 2 ir: V = C <sub>s</sub> x Effective Seismic Weight e: Equivalent Lateral Force (ELF) Procedure	

	PROJECT TITLE	ATLANTI	C CITY E	(PRESSWAY		DRAWING NO.
UTHORITY			_	E ADDITION PROJECT MDEN COUNTY, N.J.		S200
	SHEET TITLE					0200
		STRUCTURAL GEN	SHEET NO.			
	SCALE	12" = 1'-0"	DATE	09/01/2021		

SPECIAL INSPECTION NOTES:

- 1. Refer to required special inspections and testing per IBC 2018 Chapter 17.
- 2. Refer to General Notes and Specifications for additional information regarding testing and inspection.
- 3. Continuous Special Inspection is defined as "the full-time observation of work requiring special inspection by an approved Special Inspector who is present in the area where the work is being performed." When Continuous inspection is required, 100% of the work must be inspected and it must be inspected as the work is being performed.
- 4. Periodic Special Inspection is defined as "the part-time or intermittent observation of work requiring special inspection by an approved Special Inspector who is present in the area where the work has been or is being performed and at the completion of the work." When periodic inspection is indicated, inspection of less than 100% of the work may be acceptable for certain items.
- 5. Observe "O" is defined as Special Inspections which are required to be observed on a random basis for tasks that are more periodic in nature. Operations need not be delayed pending these inspections.
- 6. Perform "P" is defined as Special Inspections which are required for each welded joint or member, for each bolted connection, and for each steel element. These are tasks which must be performed at each joint or member.
- 7. Refer to IBC 2018 Chapter 17 for reference standards and further explanation of the items in the tables below.
- 8. Provide Continuous or Periodic Special Inspections for the following items, as required by IBC 2018 Chapter 17 and all applicable amendments.
- Provide Continuous or Periodic Special Inspections for the following Adhesive Anchor items, as required by ESR-3187 (Hilti HIT-HY 200), ESR-3814 (Hilti HIT-RE 500 V3), ESR-4143 and ESR-4144 (Hilti HIT-HY 270), ACI 355.4-11, and IBC 2018. The Special Inspector must verify the initial installations of each type and size of adhesive anchor by construction personnel on site. Subsequent installations of the same anchor type and size by the same construction personnel are permitted to be performed in the absence of the special inspector. Any change in the anchor product being installed or the personnel performing the installation requires an initial inspection.
- 10. Provide Continuous or Periodic Special Inspections for the following Mechanical Anchor items, as required by ESR-1917 (Hilti KWIK Bolt TZ Expansion Anchor), ACI 355.4-11, and IBC 2018.
- 11. Any work which has been covered or otherwise made inaccessible prior to review by the Special Inspector is subject to removal or exposure, at no additional cost to the Owner.

		VERIFICAT
1	. \	Verify materials belov
		he design bearing ca
2	2. V	Verify excavations a
		proper material.
3	5. F	Perform classification
4		Verify use of proper i
	F	placement and comp
5	5. F	Prior to placement of
	t	he site has been pre

	SPEC
	VERIFICATIO
1.	Inspection of all reinfo
	verify placement. Insp
	of reinforcing steel. Ve
	other deleterious mate
	Verify that bars are ac
	bolsters.
2.	Reinforcing bar weldir
	a. Verify weldability
	b. Inspect single-pas
-	c. Inspect all other v
3. 4.	Inspect anchors cast
4.	Inspect anchors post-
	a. Adhesive anchors
	orientations to res
	b. Mechanical ancho
	a above.
5.	Verify use of required
6.	Prior to concrete place
	perform slump and air
	the concrete.
7.	Inspect concrete and
	techniques.
8.	Verify maintenance of
9.	Inspect prestressed of
	a. Application of pre
10.	b. Grouting of bonde
10.	Inspect erection of pre
11.	Verify in-situ concrete
	tensioned concrete an
12.	beams and structural
12.	Inspect formwork for s member being formed

CONSULTANT:	SUB-CONSULTANT:	DESIGNED BY:	PROFESSIONAL SEAL	REVISION REVISION DATE	DESCRIPTIONS	TRANSPORTATION SO	UTH JERSEY TRANSPORTATION AUTHORITY FARLEY SERVICE PLAZA	PROJECT TITLE	ATLANTIC CITY EXPRESSWAY 2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.	DRAWING NO.
YOUR GOALS. OUR MISSION. 1700 MARKET STREET, SUITE 3110	cvm	CHECKED BY: EMJ	No. Fr GE36377			HINOS HINOS	P.O. BOX 351 HAMMONTON, NJ 08037	SHEET TITLE	TRUCTURAL SPECIAL INSPECTIONS	SHEET NO.
1700 MARKET STREET, SUITE 3110 PHILADELPHIA, PA 19103 TEL 215-282-7850 FAX 215-627-3459 www.tandmassociates.com	1002 West 9th Avenue, King of Prussia, PA 19406 610-989-3800 - www.cvmprofessional.com	APPROVED BY: LRS	Dulath				(609) 965 - 6060	SCALE 12	2" = 1'-0" DATE 09/01/2021	

SPECIAL INSPECTION OF SOIL PER IBC 2018	.S	
FION AND INSPECTION TASK	CONTINUOUS	PERIODIC
ow shallow foundations are adequate to achieve capacity and consistent with Geotechnical Report.	-	Х
are extended to proper depth and have reached	-	х
on and testing of compacted fill materials.	-	Х
r materials, densities and lift thicknesses during apaction of compacted fill.	х	-
of compacted fill, inspect subgrade and verify that repared properly.	-	Х

CIAL INSPECTION OF CONCRETE CONSTRUCTION PER IBC 2018						
ION AND INSPECTION TASK	CONTINUOUS	PERIODIC				
forcing steel, including prestressing tendons, and spect size, spacing, cover, positioning and grade /erify that reinforcing bars are free of form oil or iterials. Inspect bar laps and mechanical splices. adequately tied and supported on chairs or	-	x				
ling: y of reinforcing bars other than ASTM A706. ass fillet welds, maximum 5/16" welds	- - X	X X -				
t in concrete.	-	Х				
t-installed in hardened concrete members: <sup>[b]</sup> irs installed in horizontally or upwardly inclined esist sustained tension loads. hors and adhesive anchors not defined in section	X -	- X				
d design mix.	_	Х				
cement, fabricate specimens for strength tests, air content tests, and determine the temperature of	х	-				
d shotcrete placement for proper application	х	-				
of specified curing temperature and techniques.	-	Х				
concrete for: estressing forces. ded prestressing tendons.	X X	-				
recast concrete members.	-	Х				
te strength, prior to stressing of tendons in post- and prior to removal of shores and forms from al slabs.	-	X				
shape, location, and dimensions of the concrete	-	Х				

<sup>[b]</sup> Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with Section 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

SPECIAL INSPECTION & QUALITY ASSURANCE OF ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE PER ACI 355.4-11, ESR-3187 (Hilti HIT-HY 200), ESR-3814 (Hilti HIT-RE 500 V3), AND IBC 2018							
VERIFICATION AND INSPECTION TASK CONTINUOUS PERIODIC							
1. Anchor type.		Х					
2. Anchor dimensions.		Х					
3. Concrete type.		Х					
4. Concrete compressive strength.		Х					
5. Adhesive identification and expiration date.		Х					
6. Hole dimensions.		Х					
7. Hole cleaning procedures.		Х					
8. Anchor spacing.		Х					
9. Edge distances.		Х					
10. Concrete thickness.		Х					
11. Anchor embedment.		Х					
12. Installation torque and adherence to the manufacturer's printed installation instructions.		Х					

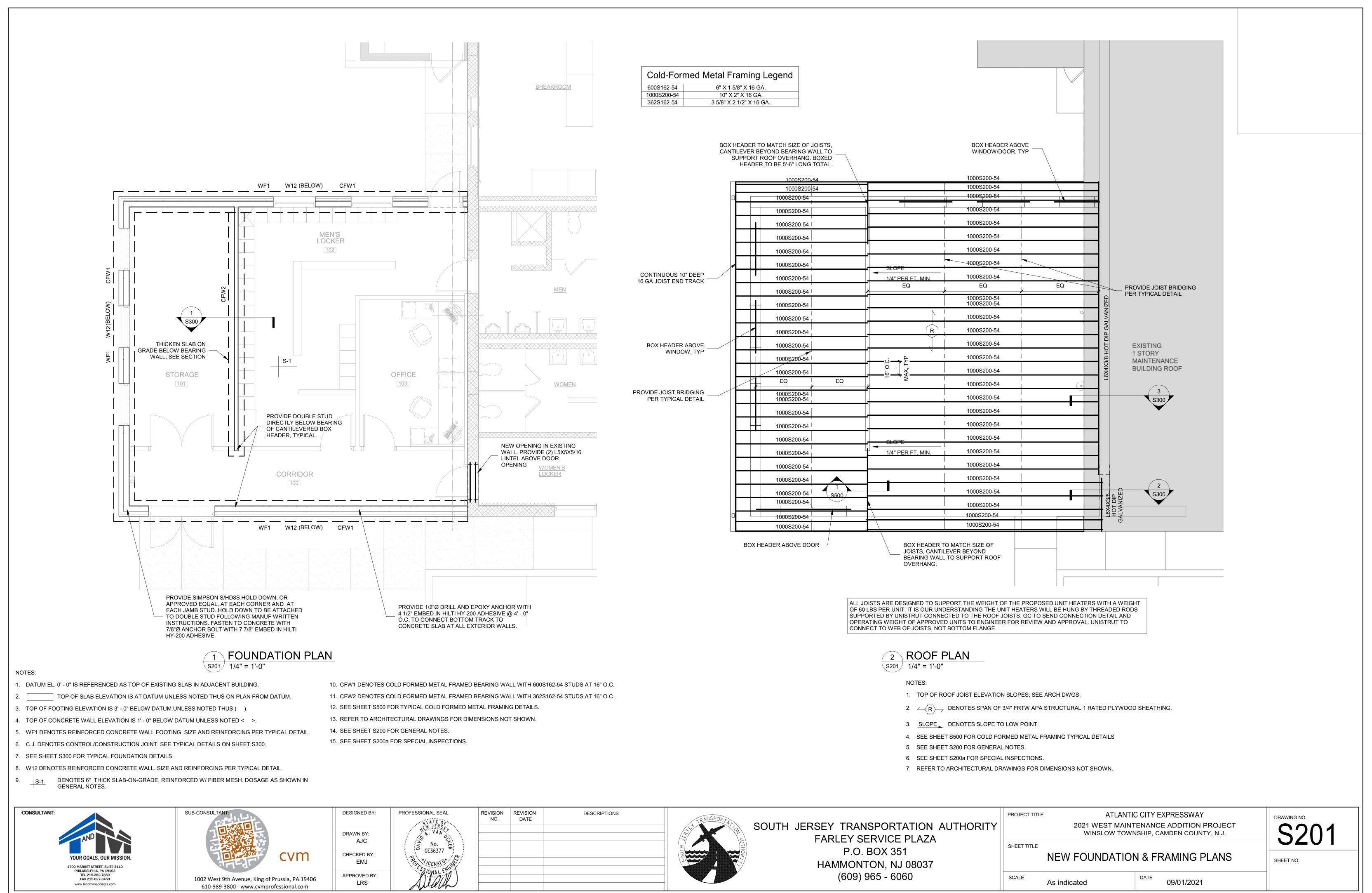
\* Denotes special inspections designated as Periodic shall be required Continuously for anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads.

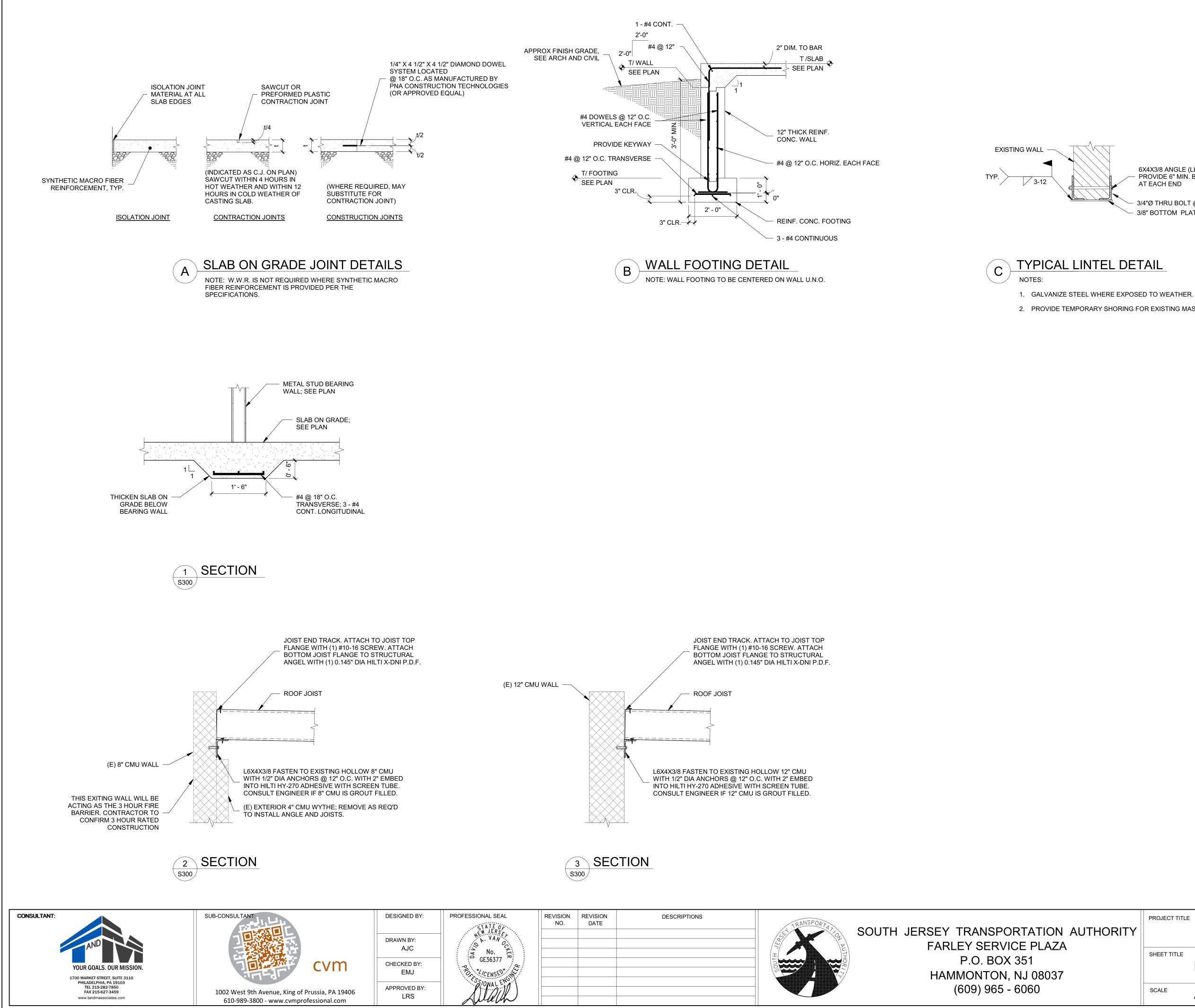
	SPECIAL INSPECTION & QUALITY ASSURANCE OF ADHESIVE ANCHORS INSTALLED IN CONCRETE MASONRY PER ESR-4143 & ESR-4144 (Hilti HIT-HY 270) AND IBC 2018							
	VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC					
1.	Anchor type.		Х					
2.	Anchor dimensions.		Х					
3.	Masonry type.		Х					
4.	Masonry compressive strength.		Х					
5.	Adhesive identification and expiration date.		Х					
6.	Hole dimensions.		Х					
7.	Hole cleaning procedures.		Х					
8.	Anchor spacing.		Х					
9.	Edge distances.		Х					
10.	Masonry wall thickness.		Х					
	Anchor embedment.		Х					
	Base material temperature.		Х					
13.	Installation torque and adherence to the manufacturer's printed installation instructions.		Х					

\* Denotes special inspections designated as Periodic shall be required continuously for anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads.

SPECIAL INSPECTION & QUALITY ASSURANCE OF MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE PER ACI 355.4-11, ESR-1545 (Hilti HSL-3), ESR-1917 (Hilti KWIK Bolt TZ), ESR-1546 (Hilti HDA), ESR-3027 (Hilti KWIK HUS-EZ & KWIK HUS-EZ 1), AND IBC 2018					
VERIFICATION AND INSPECTION TASK CONTINUOUS PERIODIC					
1. Anchor type.		Х			
2. Anchor dimensions.		Х			
3. Concrete type.		Х			
4. Concrete compressive strength.		Х			
5. Hole dimensions.		Х			
6. Hole cleaning procedures.		Х			
7. Anchor spacing.		Х			
8. Edge distances.		Х			
9. Concrete thickness.		Х			
10. Anchor embedment.		Х			
<ol> <li>Tightening torque and adherence to the manufacturer's published installation instructions.</li> </ol>		Х			

\* Denotes special inspections designated as Periodic shall be required Continuously for anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads.



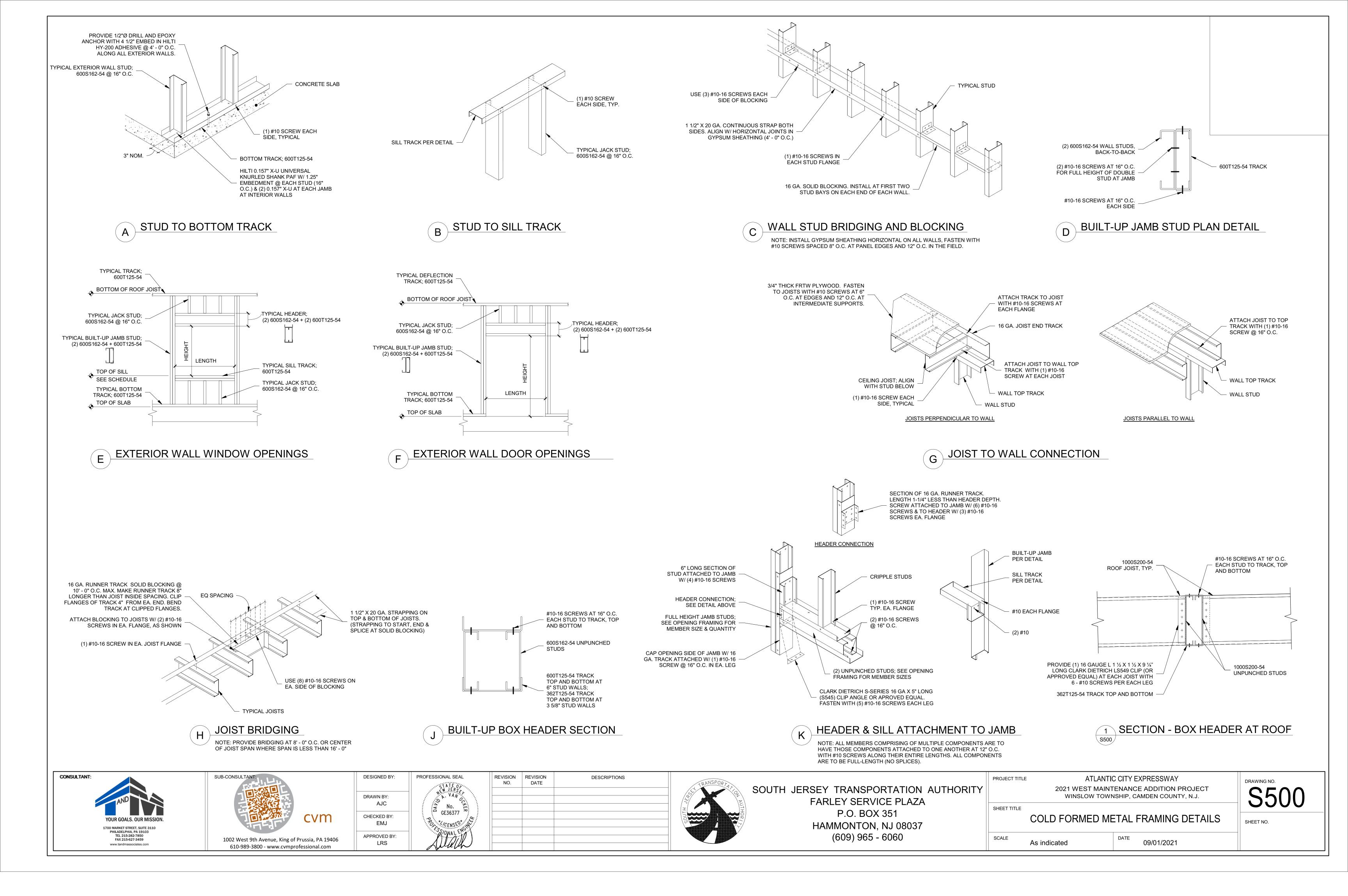


6X4X3/8 ANGLE (LLV) PROVIDE 6" MIN. BEARING AT EACH END

· 3/4"Ø THRU BOLT @ 16" O.C. 3/8" BOTTOM PLATE CONT.

2. PROVIDE TEMPORARY SHORING FOR EXISTING MASONRY ABOVE AS REQUIRED

UTHORITY	PROJECT TITLE	PROJECT TITLE ATLANTIC CITY EXPRESSWAY 2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.			
	SHEET TITLE	FOUNDATION AND	SHEET NO.		
	SCALE	As indicated	DATE 09/01/2021		



# EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
СР	CONDENSATE PUMP
EF	EXHAUST FAN
EUH	ELECTRICAL UNIT HEATERS
HP	HEAT PUMP
L	LOUVER
OAI	OUTSIDE AIR INTAKE

# GENERAL ABBREVIATIONS

	ADDILLIATIONS
AFF	ABOVE FINISHED FLOOR
AMPS	AMPERES
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT PER HOUR
CENTRIF	CENTRIFUGAL
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONC	CONCRETE
СР	CONTROL PANEL
DB	DRY BULB
DBA	DECIBELS
DIA, Ø	DIAMETER
DN	DOWN
DR	DRAIN
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EL	ELEVATION
ELECTRICAL	ELEC
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST (E)	EXISTING
F	FAHRENHEIT
FAT	FINAL AIR TEMPERATURE
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN OR FIRE DAMPER
FL	FLOOR
FLG	FLANGED
FPM	FEET PER MINUTE
GAL	GALLON
GC	GENERAL CONTRACTOR
HD	HEAD
HDR	HEADER
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
Hz	HERTZ (FREQUENCY)
ID	INSIDE DIMENSION
IN	INCH
IWC	INCHES OF WATER COLUMN

ED: 08/24/21 1:46PM BY:MNELLI NG: G:\PROJECTS\SJTA\00367\DRAWINGS\MECH DRAWINGS.DWG [SYMBOLS & ABBREVIATIONS] 08/12/21 10:

CONSULTANT:



 SUB-CONSULTANT:
 DESIGNED BY: MN

 TPDD ARCHITECTS, LLC
 DRAWN BY:

 Architecture
 Planning
 Interior Design

 109 Hewett Road, Wyncote, Pennsylvania 19095 (215) 887-2460
 MN

 1735 Market St., Suite 3750, Philadelphia, PA 19103 (267) 507-6022
 MED

 E-mail:
 tpdarchitectsllc@verizon.net
 MED

 Web:
 http://www.tpdarchitectsllc.com
 MED

	DESIGNED BY: MN	PROFESSIONAL SEAL	REVISION NO.	REVISION DATE	DESCRIPTIONS	TRANSPORTA	
1							SOUTH JERSEY TRANSPORTATION AU
-	DRAWN BY: MN						FARLEY SERVICE PLAZA
						-  [편]	P.O. BOX 351
	CHECKED BY:						
	MED						HAMMONTON, NJ 08037
	APPROVED BY:	MARY ELAINE DASTI STATE OF NJ LICENSE No.:					(609) 965 - 6060
	MED	24GE05120300					

# GENERAL ABBREVIATIONS

OLINLINAL	ADDREVIATIONS
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
МА	MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MFG	MANUFACTURER
MIN	MINIMUM
NIC	NOT IN CONTRACT
NOM	NOMINAL
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBVD	OPPOSED BLADE VOLUME DAMPER
OED	OPEN END DUCT
OPER	OPERATING
OPNG	OPENING
PD	PRESSURE DROP
PH	PHASE
PLGB	PLUMBING
PSIG	POUND PER SQUARE INCH (GAUGE)
QTY	QUANTITY
RA	RETURN AIR
RD	ROOF DRAIN
REQ	REQUIRED
RH	RELATIVE HUMIDITY
RM	ROOM
RO	ROOF OPENING
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SDD	SMOKE DUCT DETECTOR
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQFT	SQUARE FOOT
SRV	SAFETY RELIEF VALVE
S/S	STAINLESS STEEL
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TYP	TYPICAL
V/PH/Hz	VOLTS/PHASE/FREQUENCY (HERTZ)
VD	VOLUME DAMPER
W	WATT OR WIDTH
WB	WET BULB

# MECHANICAL GENERAL SYMBOLS

XX #	EQUIPMENT MARK, SEE SCHEDULES, THIS SHEET.
XX #	EXISTING EQUIPMENT MARK FOR EQUIPMENT TO REMAIN.
DET# SHEET#	DETAIL OR PART PLAN TITLE.
$\bigotimes$	REVISION TAG.
<del>}                                    </del>	EQUIPMENT, DUCTWORK OR PIPING TO BE REMOVED.
$\bullet$	POINT OF CONNECTION, NEW TO EXISTING.
$\bullet$	POINT OF DISCONNECT.
X	DRAWING KEYNOTE.

r	
	MECHANICAL AIRSIDE SYMBOLS
$\square$	CEILING SUPPLY DIFFUSER.
	CEILING CEILING RETURN, EXHAUST OR TRANSFER REGISTER/GRILLE.
	GALVANIZED SHEET METAL DUCTWORK.
Л	45 DEGREE DUCT BRANCH TAKE-OFF.
	ACCESS DOOR/PANEL.
X	DUCT TURNING DOWN.
	DUCT TURNING UP.
N N	MITERED ELBOW WITH TURNING VANES.
	INTERNAL ACOUSTIC LINING (SIZES ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS).
h	FLEXIBLE DUCT CONNECTION.
	FLEXIBLE CONNECTION FROM DUCTWORK TO EQUIPMENT.
${\leftarrow}$	VOLUME DAMPER.
-/-	AIRFLOW, NEGATIVE PRESSURE.
-	AIRFLOW, POSITIVE PRESSURE.
<b>→</b> U—	FLOW THROUGH DOOR UNDERCUT
<u>X–X</u> (CFM)	AIR TERMINAL DESIGNATION, (CFM=000).

	MECHANICAL CONTROLS SYMBOLS
,	MOTORIZED DAMPER.
() x-x	THERMOSTAT OR TEMPERATURE SENSOR (X-X INDICATES EQUIPMENT SERVED).
	ATC CONTROL PANEL.

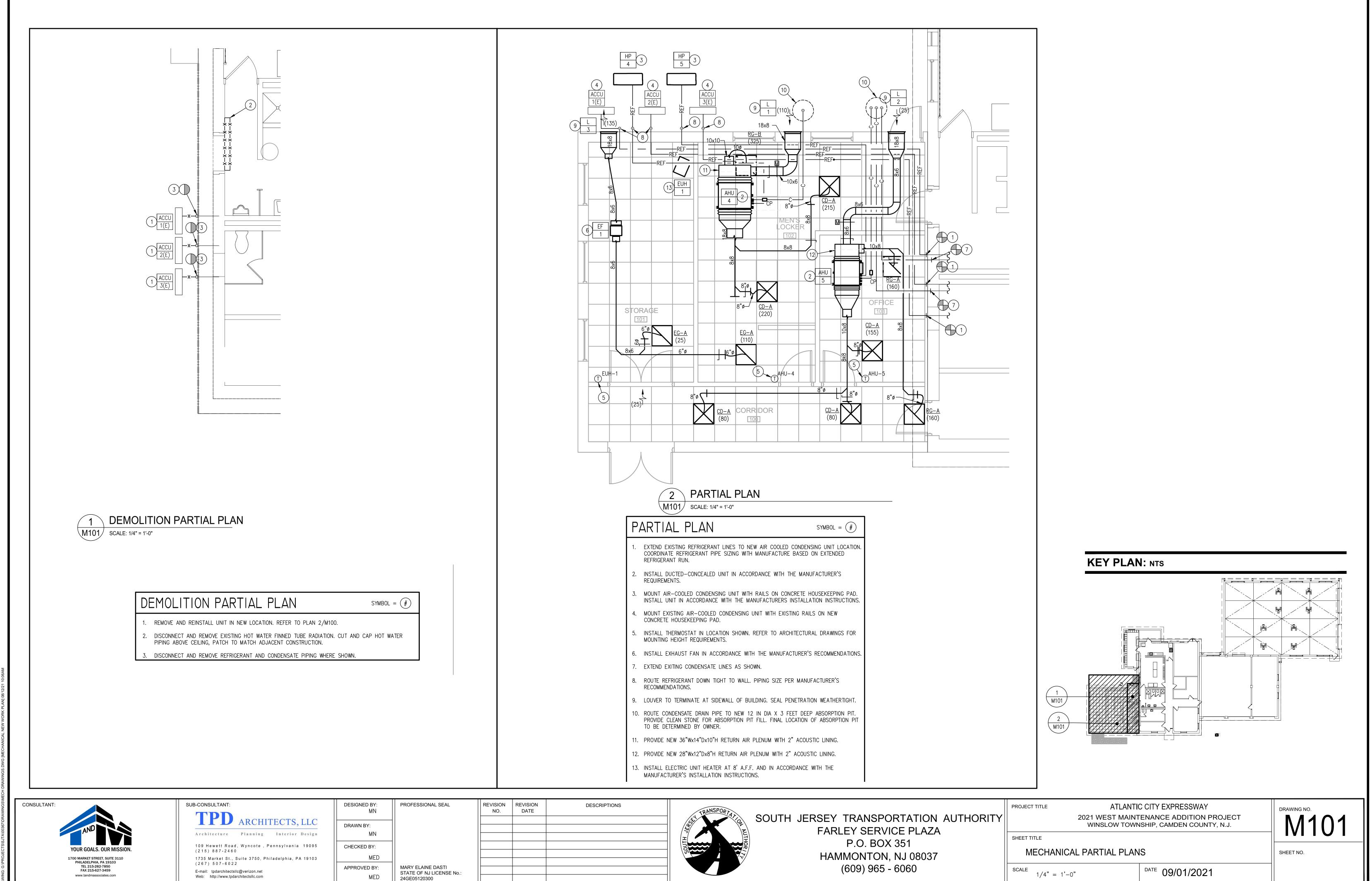
# PIPING ABBREVIATIONS

→ REF →	REFRIGERANT PIPING.
→ REF →	EXISTING REFRIGERANT PIPING TO REMAIN.
רא− REF -×ל	EXISTING REFRIGERANT PIPING TO BE REMOVED.
<u>ک</u> د ک	CONDENSATE PIPING.

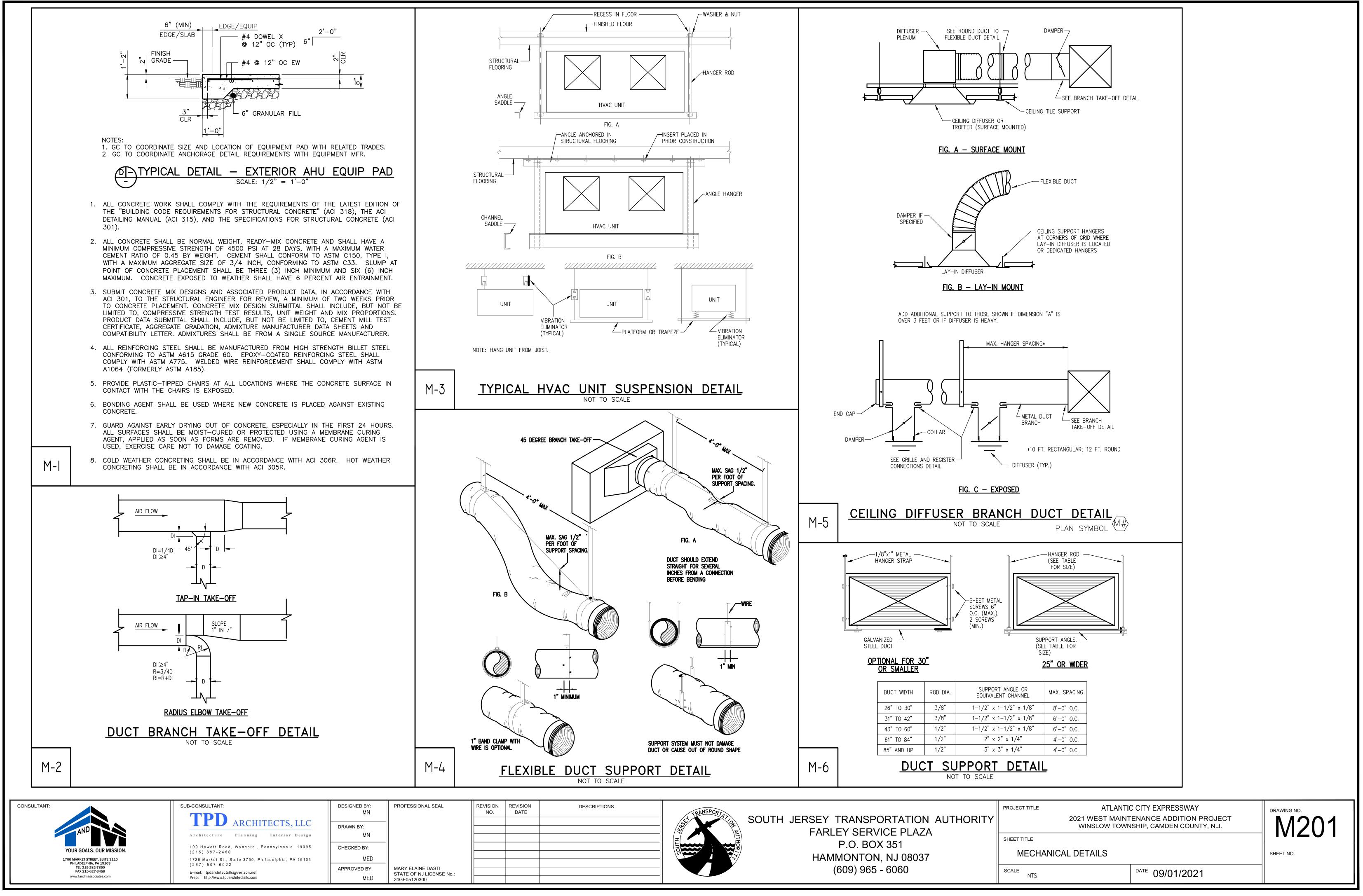
# PIPING SYMBOLS

<u>ج</u> ے	PIPE TURNING DOWN.
<u>م</u> ے	PIPE TURNING UP.

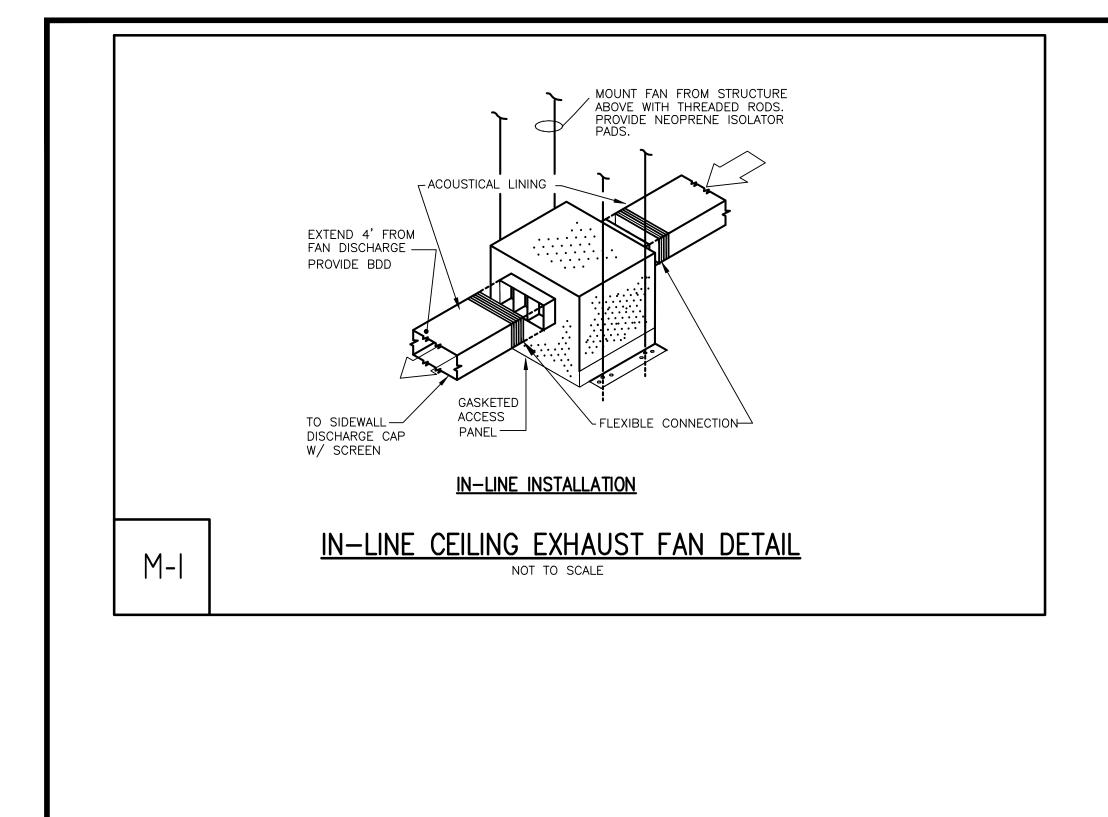
UTHORITY	PROJECT TITLE ATLANTIC CITY EXPRESSWAY 2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.		drawing no.
	SHEET TITLE MECHANICAL SYMBOLS AND	SHEET NO.	
	SCALE NTS	DATE 09/01/2021	



	REVISION NO.	REVISION DATE	DESCRIPTIONS	
No.:				



08/24/21 1:46PM BY:MNELLI 6:\PROJECTSISJTA\00367\DRAWINGS\MECH DRAWINGS.DWG [DETAILS]





 
 C
 DESIGNED BY: MN
 PROFESSIONAL SEAL

 g n
 DRAWN BY: MN
 PROFESSIONAL SEAL

 95
 CHECKED BY: MED
 MARY ELAINE DASTI STATE OF NJ LICENSE No.: 24GE05120300

	REVISION F NO.	REVISION DATE	DESCRIPTIONS	SSL TRANSPORTATION	SOUTH JERSEY TRANSPORTATION AUTHORITY FARLEY SERVICE PLAZA	PROJECT TITLE	ATLANTIC CITY EXPRESSWAY 2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.	drawing no.
				HINOS	P.O. BOX 351 HAMMONTON, NJ 08037	SHEET TITLE	CAL DETAILS	SHEET NO.
o.:					(609) 965 - 6060	SCALE NTS	DATE 09/01/2021	

1 16117		1450	MARE			1					NOTEO						
UNIT	TYPE	MFG	MODEL	MOUNT TYPE	MODULE SIZE	NECK SIZE	AIRFL				NOTES						
								RAT	ÎNG							UN	ит 🛛
CD-A	DIFFUSER		SPD	CEILING	(IN) 24x24	(IN) 8	(CFI 0-22	,	9		1-2						
																HP HP	
RG-A RG-B	GRILLE	PRICE PRICE		CEILING CEILING	24x24 24x24	8	0-16	-	-		<u> </u>					4005	-000
							100-0		<b>.</b>		1-2					ACCE	1.
EG-A	GRILLE	PRICE	PDDR	CEILING	24x24	6	0-10	00 1	9		1-2						2. 3.
	S I. COLOR: V 2. ALL BRAN		TWORK TO	) HAVE OPF		UME DAMF	PERS										4. 5.
								EVI									
UNIT	SERVK	CE L	OCATION	MFG	MODEL	TYPE	DRIVE	AIRFLOW		SPEED		TOR DA	TA		PHYSICA		
										F			SPEED	L	W	Н	W
								(CFM)	(INWG)	(RPM)			(RPM)	(IN)	(IN)	(IN)	(LE
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	DESIGNED BY: MN	PROFESSIONAL SEAL
Architecture Planning Interior Design	DRAWN BY: MN	
109 Hewett Road, Wyncote , Pennsylvania 19095 (215) 887-2460	CHECKED BY:	
1735 Market St., Suite 3750, Philadelphia, PA 19103	MED	
(267) 507-6022	APPROVED BY:	MARY ELAINE DASTI
E-mail: tpdarchitectsllc@verizon.net Web: http://www.tpdarchitectsllc.com	MED	STATE OF NJ LICENSE No 24GE05120300

HEAT PUMP UNIT SCHEDULE														
	AREA			COOLING	HEATING		F		٨		PHYSIC			
UNIT		MFR	Model Number	CAPACITY		EER	ELECTRCIAL DATA		WIDTH	HEIGHT	DEPTH	WEIGHT	ACCESSORIES	
	SERVED			(BTU/h)	(BTU/h)		V-PH-Hz	MCA	MOCP	(IN)	(IN)	(IN)	(LBS)	
HP-4	AHU-4	TRANE	NTXSKS12A112AA	12,000	17000	12.9	240-1-60	9	16	31-1/2	21-5/8	11-1/4	81	1-5
HP-5	AHU-5	TRANE	NTXSKS09A112AA	9,000	12,800	12.8	240-1-60	9	15	33-1/6	34-5/8	13	127	1-5

ACCESSORIES: 1. 18" OUTDOOR UNIT STANDS.

2. MOUNT ON 6" HIGH CONCRETE HOUSEKEEPING PAD

3. NON-FUSED DISCONNECT SWITCH.

4. 115V GFCI CONVIENCE RECEPTACLE 5. ANTI-SHORT-CYCLE TIMER

		PHYSICA	AL DATA		ACCESSORIES
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1)	(IN)	(IN)	(IN)	(LBS)	
0	11	13	9	16	1-2

						LOUVE	R SCHEDULE						
UNIT	SERVICE	MFG	E	REQD. MIN	ACCESSORIES	NOTES							
				SIZE				WIDTH	HEIGTH	DEPTH	FREE AREA		
				(IN)	(CFM)	(INWG)	(FPM)	(IN)	(IN)	(IN)	(SF)		
LV-1	AHU-4	GREENHECK	EHH-401	18x8	110	0.06	483	18	8	14	0.2	1-2	1-2
LV-2	AHU-5	GREENHECK	EHH-401	18x8	25	0.05	380	18	8	14	0.01	1-2	1-2
LV-3	EF-1	GREENHECK	EHH-401	18x8	135	0.08	656	18	8	14	0.2	1-2	1-2

ACCESSORIES: 1. BIRDSCREEN

2. KYNAR FINISH; COLOR PER ARCHITECT.

JLE								
ING	ELEC	TRCIAL DATA		INDO	OR UNIT PI	HYSICAL E	ΟΑΤΑ	ACCESS.
РАСПҮ	V/PH	MCA	FLA	L	W	Н	WGT	
H)		(AMP)	(AMP)	(IN)	(IN)	(IN)	(LBS)	
	240/1	1.45	1.16	35-7/16	28-7/8	9-7/8	58	1-4
3	240/1	1	0.51	31-1/8	27-9/16	7-7/8	42	1-4

4. PROVIDE CONDENSATE OVERFLOW SWITCH WIRED TO UNIT FOR UNIT SHUTDOWN

UNIT	LOCATION	MFG	MODEL	MOUNT	AIRFLOW	CAP.	ELECTR	RICAL DATA		PHYSICA	AL DATA		ACCESSORIES
				TYPE			W	V-PH	L	W	Н	WGT	1
					(CFM)	(MBH)			(IN)	(IN)	(IN)	(LBS)	
EUH- 1	STORAGE	QMARK	MWUH504	WALL	270	9	2500	240-1	14	19.125	12.5	34	1-3
2.	PROVIDE REMOTE DISCONNECT SW WALL MOUNTING E	ТСН	 STAT									<u> </u>	<u> </u>

VENTILATION TABLE																			
	EQUIPMENT ROOM DATA O.A. AIR CFM												SPACE DE	SIGN AIR FLC	DWS		SYSTEN	И AIR FLOW	S
ROOM NAME	ROOM #				DISTR	AREA	NO. OF	PER	PER	BRTH	ZONE	MAX	VAV BOX	PRIMARY	PRIMARY	VENT.	UNCOR.	TOTAL	TOTAL
ROOM NAME	R00 <i>W</i> #	SUPPLY	EXHAUST	TYPE	EFFECT	SQFT	PEOPLE	PERSON	SQFT	ZONE	OA	AIRFLOW	OPENING	AIRFLOW	OA FRACTION	EFF.	0.A.	O.A. REQD	DESIGN
					(Ez)	(Az)	(Pz)	(Rp)	(Ra)	(Vbz)	(Voz)	AIRFLOW	OPENING	(Vpz)	(Zp)	(Ev)	(Vou)	(Vot)	O.A. SUPP.
SYSTEM NAME																			
Mens Locker Room	102	AHU-4	EF-1	LOCKER/DRESSING ROOM	0.8	342	0	0	0.25	86	107	435	100%	435	0.25				
																<b>↓</b>			
		S	YSTEM POP. =		ZO	NE POP. =	0	DNERSITY =	1.00			435		435	0.25	0.90	86	95	110

1. REQUIRED OUTDOOR AIR CALCULATION METHOD IN COMPLIANCE WITH 2018 INERNATIONAL MECHANICAL CODE SECTION 403.3.1.1.2.3 FOR SINGLE ZONE SYSTEMS AND 403.3.1.1.2.3 FOR MULTIPLE ZONE RECIRCULATING SYSTEMS.

							VE	ENTILATION TABLE											
		EQUIF	PMENT	RO	OM DATA			O.A. A.	IR CFM REQ	D			SPACE DE	SIGN AIR FLC	DWS		SYSTEI	M AIR FLOWS	S
					DISTR	AREA	NO. OF	PER	PER	BRTH	ZONE	MAX	VAV BOX	PRIMARY	PRIMARY	VENT.	UNCOR.	TOTAL	TOTAL
ROOM NAME	ROOM #	SUPPLY	EXHAUST	TYPE	EFFECT	SQFT	PEOPLE	PERSON	SQFT	ZONE	OA		OPENING	AIRFLOW	OA FRACTION	EFF.	O.A.	O.A. REQD	DESIGN
					(Ez)	(Az)	(Pz)	(Rp)	(Ra)	(Vbz)	(Voz)		OFLINING	(Vpz)	(Zp)	(Ev)	(Vou)	(Vot)	O.A. SUPP.
SYSTEM NAME																			
Office	102	AHU-5		OFFICE SPACES	0.8	150	1	5	0.06	14	18	155	100%	155	0.11				
Corridor	100	AHU-5		CORRIDORS	0.8	133	0	0	0.06	8	10	160	100%	160	0.06	] 🖌	↓	↓	( ↓ ]
																_	-		
		S	YSTEM POP. =		ZO	NE POP. =	= 1	DIVERSITY =	1.00			315		315	0.11	1.00	22	22	25
	1	REQUIRED OL	ITDOOR AIR CAL	CULATION METHOD IN COM	/IPLIANCE W/	TH 2018 IN	IFRNATIONA	MECHANICAL CODE S	ECTION 403	31123 F	OR								

1. REQUIRED OUTDOOR AIR CALCULATION METHOD IN COMPLIANCE WITH 2018 INERNATIONAL MECHANICAL CODE SECTION 403.3.1.1.2.3 FOR SINGLE ZONE SYSTEMS AND 403.3.1.1.2.3 FOR MULTIPLE ZONE RECIRCULATING SYSTEMS.

lo.:	REVISION NO.	REVISION DATE	DESCRIPTIONS	HDOS	SOUTH	JERSEY TRANSPORTATION FARLEY SERVICE PLAZA P.O. BOX 351 HAMMONTON, NJ 08037 (609) 965 - 6060	- A
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NOTES:

1. WIND DRIVEN LOUVER.

2. CAREFULLY COORDINATE INSTALLATION WITH WALL TYPE.

AUTHORITY	2021 WEST MAINT	C CITY EXPRESSWAY TENANCE ADDITION PROJECT NSHIP, CAMDEN COUNTY, N.J.	drawing no.		
	SHEET TITLE				
	MECHANICAL SCHEDULES AND CONTROLS				
	SCALE NTS	DATE 09/01/2021			

# MECHANICAL SPECIFICATIONS

# 230000 GENERAL REQUIREMENTS

1. GENERAL

# A. DEFINITIONS:

- a. FURNISH: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER, COMPLETE WITH RELATED ACCESSORIES. b. INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED
- ACCESSORIES. c. PROVIDE: TO FURNISH AND INSTALL.
- d. MECHANICAL CONTRACTOR, THE CONTRACTOR, THIS CONTACTOR: THE CONTRACTOR FOR MECHANICAL WORK, WHICH IS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS. e. OWNER: THE INDIVIDUAL OR ENTITY HOLDING OWNERSHIP OF THE
- PROPERTY, OR A DESIGNATED REPRESENTATIVE THEREOF, WHERE THE WORK IS TO BE PERFORMED, AND SHALL INCLUDE TENANTS LEASING SPACE AT THE LOCATION OF THE PROJECT, WHERE APPLICABLE.
- B. COMPLY WITH THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO:
  - a. INTERNATIONAL BUILDING CODE NEW JERSEY EDITION (IBC-NJ); b. INTERNATIONAL MECHANICAL CODE (IMC);
- c. NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC);
- d. NATIONAL STANDARD PLUMBING CODE (NSPC);
- e. INTERNATIONAL FUEL GAS CODE (IFGC);
- f. NATIONAL ELECTRIC CODE (NEC/NFPA 70); q. AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING
- ENGINEERS (ASHRAE); h. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL
- ASSOCIATION (SMACNA);
- i. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA);
- j. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM);
- k. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA); I. NEW JERSEY BARRIER-FREE REQUIREMENTS;
- m. APPLICABLE UNION AND EQUAL OPPORTUNITY STANDARDS OR REQUIREMENTS.
- C. CONTRACTOR-FURNISHED PRODUCTS
  - a. CONTRACTOR SHALL FURNISH PRODUCTS INDICATED. THE WORK INCLUDES DELIVERING, UNLOADING, HANDLING, STORING AND PROTECTING CONTRACTOR-FURNISHED PRODUCTS AS DIRECTED AND TURNING THEM OVER TO OWNER AT PROJECT CLOSEOUT.
  - b. SPARE PARTS b.1. PROVIDE ONE SET OF SPARE BELTS FOR ALL BELT DRIVEN EQUIPMENT. b.2. PROVIDE ONE SET OF REPLACEMENT FILTERS FOR ALL EQUIPMENT
- FURNISHED WITH THROWAWAY FILTERS.
- D. ACCESS TO SITE a. LIMIT USE OF PROJECT SITE TO WORK IN AREAS INDICATED. DO NOT DISTURB PORTIONS OF PROJECT SITE BEYOND AREAS IN WHICH THE WORK IS INDICATED.
- b. KEEP DRIVEWAYS, PARKING GARAGE, LOADING AREAS, ENTRANCES, ETC. SERVING PREMISES CLEAR AND AVAILABLE TO OWNER. OWNER'S EMPLOYEES AND EMERGENCY VEHICLES AT ALL TIMES. DO NOT USE THESE AREAS FOR PARKING OR STORAGE OF MATERIALS.
- c. THE CONTRACTOR'S BID SHALL INCLUDE ALL COSTS ASSOCIATED WITH AFTER-HOURS WORK/PREMIUM TIME NECESSARY TO PREVENT DISRUPTION TO THE OWNER'S OPERATIONS OR BUILDING OCCUPANTS.
- E. COORDINATION WITH OCCUPANTS a. COOPERATE WITH OWNER DURING CONSTRUCTION OPERATIONS TO MINIMIZE CONFLICTS AND FACILITATE OWNER USAGE. PERFORM THE WORK SO AS NOT TO INTERFERE WITH THE OWNER'S DAY-TO-DAY OPERATIONS. b. COORDINATE THE MECHANICAL WORK WITH ALL OTHER AFFECTED WORK
  - AND THE CONSTRUCTION SCHEDULE. c. COORDINATE WITH THE WORK OF OTHER TRADES. INDICATED ROUTING OF ALL DUCTWORK AND PIPING SYSTEMS IS APPROXIMATE. PROVIDE OFFSETS AND MINOR DEVIATIONS TO INDICATED ROUTING AS REQUIRED TO COORDINATE WITH THE WORK OF OTHER TRADES AND THE GENERAL

# 2. PRODUCTS

BUILDING CONDITIONS.

- A. PROVIDE ALL MATERIALS, TOOLS, SUPERVISION AND LABOR REQUIRED FOR THE MECHANICAL INSTALLATION SHOWN OR DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B. ALL PRODUCTS AND MATERIALS SHALL BE NEW AND LISTED BY A RECOGNIZED TESTING LABORATORY.
- C. COLOR AND FINISH SELECTIONS FOR ALL PRODUCTS AND MATERIALS SHALL BE AS DIRECTED OR APPROVED BY THE ARCHITECT. D. ALL COMPONENTS AND ACCESSORIES OF EQUIPMENT AND PRODUCTS OF THE
- MECHANICAL WORK SHALL BE INCLUDED SO AS TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT INDICATED OR SPECIFIED.

# 3. EXECUTION

- A. OBTAIN ALL PERMITS, PAY ALL FEES AND SCHEDULE ALL REQUIRED INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION CERTIFICATES SHALL BE FORWARDED TO THE OWNER FOR RECORD.
- B. CONTACT UTILITY SERVICE PROVIDERS, COORDINATE AND ARRANGE FOR THE INSTALLATION OF ALL UTILITY SERVICES INCLUDING PAYMENT OF ALL APPLICABLE FEES.
- C. THE GENERAL CONDITIONS OF THE CONTRACT AND ALL DIVISION 1 REQUIREMENTS APPLY TO THE WORK OF THIS SECTION.

SUB-CONSULTANT:

- D. COMPLY WITH THE REGULATIONS AND REQUIREMENTS OF ALL UTILITY SERVICE PROVIDERS AND ALL AUTHORITIES HAVING JURISDICTION.
- E. COMPLY WITH ALL THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.

- F. WHERE APPLICABLE, COMPLY WITH THE PUBLISHED REQUIREMENTS OR STANDARDS OF THE LANDLORD OR PROPERTY MANAGER.
- G. INSTALL DUCTWORK, PIPING, AND EQUIPMENT IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THE INSTALLATION COMPLIES WITH REQUIREMENTS AND SERVES INTENDED PURPOSES. MAINTAIN ALL REQUIRED
- AND RECOMMENDED CLEARANCES. H. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE ALL CONDITIONS AFFECTING HIS SCOPE OF WORK AND BID PRICE.
- I. SUBMITTALS: a. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
  - a.1. ALL SCHEDULED MECHANICAL EQUIPMENT;
  - a.2. SHEET METAL SHOP STANDARDS, INCLUDING BUT NOT LIMITED TO:
    - (a) RECTANGULAR DUCTS AND FITTINGS; (b) ROUND DUCTS AND FITTINGS;
    - (c) SHEET METAL MATERIALS;
    - (d) SEALANTS AND GASKETS;
    - (e) HANGERS AND SUPPORTS;
  - (f) AIR DUCT ACCESSORIES
  - a.3. SHEET METAL LAYOUT: DETAIL AT 3/8" SCALE, THE DUCTWORK LAYOUT INDICATING SIZES, CONFIGURATION, STATIC-PRESSURE CLASSES, ELEVATIONS OF TOP AND BOTTOM OF DUCTS, AND DIMENSIONS OF MAIN DUCT RUNS FROM BUILDING GRID LINES. a.4. BALANCING CONTRACTOR QUALIFICATIONS;
  - a.5. TEST AND BALANCING REPORTS;
  - a.6. AUTOMATIC TEMPERATURE CONTROLS; b. SUBMIT CLOSE-OUT DOCUMENTS, INCLUSIVE OF ALL EQUIPMENT O&M MANUALS, WARRANTIES, AND AS-BUILT DRAWINGS INDICATING ALL ALTERNATIONS, ADDITIONS AND DELETIONS OF THE SYSTEMS DESIGNED
  - AND AS SHOWN ON THE CONTRACT DOCUMENTS. c. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE
  - CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WILL BE RETURNED REJECTED.
  - d. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWING STAMP.
  - e. SUBSTITUTIONS: ALL SPECIFIED EQUIPMENT SHALL SERVE AS THE BASIS OF DESIGN. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER(S). SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT SHALL BE CONSIDERED BY THE ENGINEER, PROVIDED THE SUBSTITUTION IS INDICATED PRIOR TO BIDDING, WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES THAT ARE AFFECTED BY SUBSTITUTIONS, INCLUSIVE OF ALL RELATED COSTS.
- J. DRAWINGS
  - a. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, CONTROLS, ETC. EXACT LOCATIONS OF SUCH ITEMS SHALL BE COORDINATED IN THE FIELD WITH THE ARCHITECTURAL DRAWINGS AND/OR THE OWNER AS CONSTRUCTION PROCEEDS. COORDINATE THE MECHANICAL WORK WITH THE WORK OF OTHER TRADES.
  - b. PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO COMPLETE WORK IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED. c. VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK, AND REPORT
- ANY DISCREPANCIES TO THE ENGINEER. BY COMMENCING WORK THE CONTRACTOR ACKNOWLEDGES HIS CONFIRMATION OF ALL EXISTING CONDITIONS IS ACCEPTABLE WITH REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE. K. BASIC MECHANICAL METHODS
- a. ROUTE DUCTWORK AND PIPING IN AN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING FEATURES. INSTALL WORK TO CONSERVE BUILDING SPACE.
- b. EXTERIOR INSTALLATIONS TO BE WEATHER PROOF IN ALL RESPECTS. c. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT
- CORROSION, COLOR PER ARCHITECT. d. ALL MOTOR OPERATED EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS.
- e. INSTALL SLEEVE-SEAL SYSTEMS IN SLEEVES IN EXTERIOR CONCRETE WALLS AND SLABS-ON-GRADE AT SERVICE PIPING ENTRIES INTO BUILDING. SLEEVE-SEAL SYSTEMS SHALL BE AS MANUFACTURED BY LINKSEAL MODULAR SEALS OR APPROVED EQUAL.
- f. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING ASSOCIATED WITH THE MECHANICAL WORK. FINISHED OPENINGS SHALL MATCH EXISTING ADJACENT CONSTRUCTION AND FINISHES.
- g. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE EQUIPMENT OR PRODUCT MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. h. ALL SYSTEMS SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR
- VIBRATION.
- i. ALL DUCTWORK AND PIPING IN FINISHED SPACES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. i. INSTALL PIPING, VALVES AND DUCTWORK ACCESSORIES ABOVE
- ACCESSIBLE CEILINGS TO ALLOW FOR CEILING PANEL REMOVAL. k. INSTALL PIPE TO ALLOW FOR VALVE OPERATION AND MAINTENANCE AND
- SERVICE OF EQUIPMENT. I. CLEAN INTERIOR OF DUCTWORK AND PIPING. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES. PLUG ENDS OF UNCOMPLETED PIPING AT THE
- END OF EACH DAY AND WHEN WORK STOPS.
- m. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. REMOVE SCALE, SLAG, DIRT AND DEBRIS FROM INSIDE AND OUTSIDE PIPES, TUBES AND FITTINGS BEFORE ASSEMBLING. BEVEL PLAIN ENDS OF STEEL PIPE.







DESIGNED BY:	PROFESSIONAL SEAL	REVISION REVISION	DESCRIPTIONS	ANSPOS		PROJECT TITLE	ATLANTIC CITY EXPRESSWAY	DRAWING NO.
MN		NO. DATE		SC TRANSFORMAN SC	OUTH JERSEY TRANSPORTATION AUTHORITY		2021 WEST MAINTENANCE ADDITION PROJECT	11
DRAWN BY:					FARLEY SERVICE PLAZA		WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.	M400
MN						SHEET TITLE		
CHECKED BY:					P.O. BOX 351		CAL SPECIFICATION	SHEET NO.
MED					HAMMONTON, NJ 08037			SHEET NO.
APPROVED BY:	MARY ELAINE DASTI STATE OF NJ LICENSE No.:				(609) 965 - 6060	SCALE	DATE 09/01/2021	
MED	24GE05120300					NTS	00/01/2021	

- n, LOW VOLTAGE WIRING SHALL BE PROVIDED BY THIS CONTRACTOR. THE CONTRACTOR FOR ELECTRICAL WORK SHALL BE RESPONSIBLE FOR LINE VOLTAGE WIRING.
- o. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM OTHER PIPE, CONDUIT OR DUCTWORK.
- p. PIPING HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH MSS SP-58. q. ALL EQUIPMENT SHALL BE PROVIDED WITH APPROPRIATE SUPPORTS.
- r. PROVIDE CHROME-PLATED ESCUTCHEONS AT ALL PIPING PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS IN ALL FINISHED SPACES EXPOSED TO VIEW.
- s. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES AND UNIONS. L. EXISTING CONDITIONS.
  - a. VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WITH THE MECHANICAL WORK. b. VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK, AND REPORT
  - ANY DISCREPANCIES TO THE ENGINEER. c. USE EXISTING CONNECTIONS AT MAINS AND RISERS WHEN AVAILABLE FOR
- THE CONNECTION OF NEW DUCTWORK AND PIPING. M. WARRANTY
- a. EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE MECHANICAL INSTALLATION SHALL BE WARRANTED BY THE CONTRACTOR FOR MECHANICAL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- b. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROMPTLY REPAIR AND CORRECT ANY FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT. ALL SETTLEMENTS OF SURFACES THAT OCCUR WITHIN THAT PERIOD SHALL ALSO BE PROMPTLY REPAIRED. c. ALL UNIT COMPRESSORS SHALL HAVE AN EXTENDED 5 YEAR WARRANTY.
- 230010 DEMOLITION
- 1. GENERAL A. DEFINITIONS
  - a. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE SALVAGED FOR REINSTALLED.
  - b. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION, IN MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER READY FOR REUSE.
  - c. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
  - d. EXISTING TO REMAIN: LEAVE EXISTING ITEMS THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE SALVAGED OR REINSTALLED.
- B. MATERIALS OWNERSHIP a. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY
- OF CONTRACTOR. b. WHERE INDICATED, REMOVE AND SALVAGE EXISTING ITEMS TO BE RETAINED BY THE OWNER.
- C. FIELD CONDITIONS
- a. CONDUCT DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. b. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION. THE DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING ITEMS. c. DISPOSE OF ALL REMOVED ITEMS AND MATERIALS AS SOON AS
- POSSIBLE, AND AT THE END OF EACH WORK SHIFT. D. WARRANTY
- a. REMOVE, REPLACE, PATCH AND REPAIR MATERIALS AND SURFACES CUT OF DAMAGED DURING DEMOLITION, BY METHODS AND WITH MATERIALS AND USING APPROVED CONTRACTORS SO AS NOT TO VOID EXISTING WARRANTIES. NOTIFY WARRANTOR BEFORE PROCEEDING.

2. PRODUCTS A. PERFORMANCE REQUIREMENTS

- a. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- b. ANY EXISTING EQUIPMENT OR PIPING CONTAINING REFRIGERANT WHICH IS INDICATED TO BE DEMOLISHED, SHALL BE DISPOSED OF IN ACCORDANCE WITH THE CLEAN AIR ACT OF 1990 AND ALL REGULATORY AGENCIES.
- C. ANY EXISTING EQUIPMENT OR PIPING CONTAINING GLYCOL WHICH IS INDICATED TO BE DEMOLISHED, SHALL BE DISPOSED ON IN ACCORDANCE WITH REQUIREMENTS OF ALL REGULATORY AGENCIES.

# 3. EXECUTION A. EXAMINATION

- a. VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
- B. UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS a. EXISTING SERVICES/SYSTEMS TO REMAIN: MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.
- C. PROTECTION a. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS, FACILITIES OR TENANTS.
  - b. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.
  - c. REINSTALL ITEMS IN LOCATIONS INDICATED. COMPLY WITH INSTALLATION REQUIREMENTS FOR NEW MATERIALS AND EQUIPMENT. PROVIDE CONNECTS, SUPPORTS AND MISCELLANEOUS MATERIALS NECESSARY TO MAKE ITEM FUNCTIONAL FOR USE.

1.		GEN	ERAL ABBREVIATIO
	THE ELECTRICAL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE OR ANY OTHER STATE OR LOCAL CODE	A AFF	AMPERES ABOVE FLOOR FINISH
	HAVING JURISDICTION.	AIC	AMPERES INTERRUPTING CAPACITY
2.	ALL CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. THE FINAL ROUTING OF CONDUITS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY	С	CONDUIT
	THE ENGINEER. CONDUIT SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED	СВ	CIRCUIT BREAKER
	PARALLEL TO BEAMS AND WALLS. CONDUIT SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO EQUIPMENT.	СКТ	CIRCUIT
3.	EXISTING UNDERGROUND PIPE, CONDUIT AND APPURTENANCES ARE NOT SHOWN.	E	EXISTING
	CONTRACTOR SHALL LOCATE ALL EXISTING SUBSURFACE EQUIPMENT WHICH MAY CONFLICT WITH NEW CONSTRUCTION SO AS TO AVOID CONFLICTS OR DAMAGE.	EC	ELECTRICAL CONTRACTOR
4.	UTILITY COMPANY WORK SHALL BE COORDINATED BY THE CONTRACTOR. ANY ASSOCIATED FEES AND COSTS SHALL BE PAID BY THE CONTRACTOR. CONTRACTOR SHALL PAY UTILITY	EQP	EQUIPMENT
	COMPANY IN ADVANCE TO ENSURE THE CONTRACTOR MEETS ITS SCHEDULE.	ETR	EXISTING TO REMAIN
5.	WIRE SIZES SHOWN ON PLANS MAY BE OVERSIZED TO ACCOMMODATE VOLTAGE DROP. CONTRACTOR MAY ELECT TO TAP DOWN WIRE SIZE AT SOURCE AND/OR APPLIANCE IN A	EM	
	LISTED MANNER COMPLIANT WITH THE CODE.	FACP GFCI	FIRE ALARM CONTROL PANEL
6.	CONTRACTOR SHALL PROVIDE APPURTENANCES AS REQUIRED (TRANSFORMERS, RELAYS, ETC.) TO PROVIDE THE PROPER POWER SUPPLY FOR ANY VOLTAGES REQUIRED FOR A		GROUND FAULT CIRCUIT INTERRUP
	COMPLETE INSTALLATION. ANY VOLTAGE SUPPLIES REQUIRED BY THE SUBMITTED EQUIPMENT, FOR POWER OR CONTROLS, SHALL BE INCLUDED.	GRD/G HOA	GROUNDING
7.	THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE GROUNDING	JB	HAND-OFF-AUTOMATIC
	SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL WIRE RACEWAYS, APPARATUS AND PANEL ENCLOSURES AND OTHER NON-CURRENT CARRYING	KV	KILOVOLTS
	METAL PARTS SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS CONDUCTING METALLIC PATH AND ASSURE ELECTRICAL CONTINUITY OF THE GROUNDING CIRCUITS. THE	KVA	KILOVOLT AMPERES
	STRANDED COPPER BONDING JUMPER CABLES AND/OR GROUND WIRES SHALL BE INSTALLED WHERE REQUIRED. THE SURFACE WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL	KW	KILOWATTS
	BE CLEAN AND DRY. STEEL SURFACES SHALL BE GROUND OR FILED TO REMOVE ALL SCALE, RUST, GREASE AND DIRT. COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY	NTS	NOT TO SCALE
7.1.	CLOTH TO REMOVE OXIDE BEFORE MAKING CONNECTIONS.	R	REMOVE
7.2	A GROUND CONDUCTOR.	RE	RELOCATE EXISTING
	A GROUND CONDUCTOR, METALLIC RACEWAY, OR A COMBINATION OF THE TWO.	TYP	TYPICAL
8.	THE TYPE CONDUIT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: APPLICATION TYPE	UON	UNLESS OTHERWISE NOTED
	INDOOR LOCATIONS RMC OUTDOOR ABOVE GRADE LOCATIONS RMC	V	VOLTS
	OUTDOOR BELOW GRADE LOCATIONS SCH. 40 PVC	v W	WATTS
9.	THE POWER AND CONTROL WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH THHW INSULATION RATED 600 VOLTS. SERVICE WIRING SHALL BE AS POWER WIRING BUT HAVE	WP	
	"XHHW" TYPE INSULATION. MINIMUM SIZE OF POWER WIRING SHALL BE #12 AWG. CONTROL WIRING SHALL BE #14 AWG.	WP XFMR	WEATHERPROOF
0.	THE ELECTRICAL APPARATUS SUCH AS SWITCHES, RECEPTACLES, CONTROL DEVICES, PANELS, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. ACTUAL LOCATION OF THESE APPARATUS SHALL BE DETERMINED BY CHECKING JOB SITE AND OTHER TRADE DRAWINGS. FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER. SWITCHES AND DISCONNECTS MOUNTING HEIGHT SHALL BE 4'-6" MIN. ABOVE FINISHED FLOOR OR GRADE UNLESS OTHERWISE NOTED.		SYMBOLS AND ABBREVIATIONS SHOWN PEAR ON THE DRAWINGS FOR THIS PRO
1.	A 1/8" NYLON PULL CORD SHALL BE PULLED INTO ALL CONDUITS NOT CONTAINING WIRES.		
12.	ALL PVC TYPE CONDUIT EXCEPT ELECTRIC SERVICE CONNECTIONS SHALL INCLUDE A		
3.	GROUNDING CONDUCTOR IN ADDITION TO THOSE THAT ARE SHOWN ON THE DRAWING. ALL FIELD WIRING TERMINATIONS SHALL BE MADE AT TERMINALS LOCATED IN THE		
υ.	ALL FIELD WIRING FERMINATIONS STALL BE MADE AT FERMINALS ECCATED IN THE INDIVIDUAL COMPARTMENTS OR ENCLOSURES. USE OF WIRE NUTS OR DIRECT WIRING WILL NOT BE ACCEPTED. ALL TERMINATION POINTS MUST BE IDENTIFIED IN THE SHOP DRAWINGS AND PERMANENTLY / CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS. TERMINATOR MATERIALS SHALL BE SIZED FOR THE INSTALLED CONDUCTORS.		
4.	ALL WIRES SHALL BE NEATLY BUNDLED AND TAGGED TO INDICATE THE CONNECTED DEVICE. EACH WIRE SHALL BE COLOR CODED AND TAGGED WITH A PLASTIC SLEEVE TYPE WIRING TAG. WIRING SHALL BE TAGGED AT EACH POINT OF TERMINATION.		
	ALL WIRES SHALL BE NEATLY BUNDLED AND TAGGED TO INDICATE THE CONNECTED DEVICE. EACH WIRE SHALL BE COLOR CODED AND TAGGED WITH A PLASTIC SLEEVE TYPE WIRING		
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15. 16.	ALL WIRES SHALL BE NEATLY BUNDLED AND TAGGED TO INDICATE THE CONNECTED DEVICE. EACH WIRE SHALL BE COLOR CODED AND TAGGED WITH A PLASTIC SLEEVE TYPE WIRING TAG. WIRING SHALL BE TAGGED AT EACH POINT OF TERMINATION. CONDUIT INSTALLATION INTO EQUIPMENT WITH EXPOSED LIVE COMPONENTS SHALL BE ROUTED FOR BOTTOM ENTRY WHERE POSSIBLE OR SEALED IN A WATERTIGHT MANNER ACCEPTABLE TO THE ENGINEER. ALL 90 DEGREE ELBOWS AND CONDUIT PENETRATING CONCRETE SHALL BE PVC COATED GALVANIZED RIGID STEEL. ALL RELAYS AND CONTACTORS SHALL HAVE A SUFFICIENT AMOUNT OF CONTACTS TO SATISFY THE CONTRACT REQUIREMENTS AND ONE SPARE.		
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ED: 08/24/21 1:46PM BY:MNELLI ING: G:PROJECTS\SJTA\00367\DRAWINGS\ELECTRICAL DRAWINGS.DWG [E001] 08/16/2

TTPD ARCHITECTS, LLCArchitecturePlanningInterior Design109 Hewett Road, Wyncote , Pennsylvania 19095(215) 887-24601735 Market St., Suite 3750, Philadelphia, PA 19103(267) 507-6022E-mail: tpdarchitectsllc@verizon.netWeb: http://www.tpdarchitectsllc.com

DRAWN BY: AHM CHECKED BY: MED APPROVED BY: MED

MARY ELAINE DASTI STATE OF NJ LICENSE No.: 24GE05120300

√S		ELECTRICAL SYMBOLS	
	\$	LOCAL SWITCH – 1 POLE – 20A, 120V WITH COVERPLATE	
	\$_	LOW VOLTAGE DIMMER SWITCH. USE PERFECTSENSE – PS-SWX-803	
	\$ <sub>LV</sub>	LOW VOLTAGE PUSHBUTTON ON/OFF SWITCH. USE PERFECTSENSE – PS-SWX-801	
	\$ <sub>os</sub>	ON/OFF DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH. USE PERFECTSENSE – PS-SWX-121	COORDINATE COLOR AND
	\$ <sub>vs</sub>	ON/OFF DUAL TECHNOLOGY VACANCY SENSOR SWITCH. USE PERFECTSENSE – PS-SWX-123	FINISH WITH ARCHITECT
	OS,	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. HIGH RANGE AND SMALL MOTION DETECTION. USE PERFECT SENSE – PS-SWX-221-1	
	OS	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. HIGH RANGE AND LARGE MOTION DETECTION. USE PERFECT SENSE – PS-SWX-222-1	
	OS	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. HIGH RANGE AND HIGH BAY DETECTION. USE PERFECT SENSE – PS–SWX–223–1	
ER		LIGHT FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE	
	φ	DUPLEX RECEPTACLE, NEMA 5–20R, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	
	\$	QUAD RECEPTACLE, NEMA 5-20R, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	
	P	GFI DUPLEX RECEPTACLE, NEMA 5-20R, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	COORDINATE_COLOR_AND
	Ŷ	SPECIAL PURPOSE RECEPTACLE, AS NOTED ON PLANS	FINISH WITH ARCHITECT
	▼	TEL/DATA RECEPTACLE, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS AND QUANTITY	
	<b>⊕ </b>	FLUSH FLOOR BOX WITH QUAD RECEPTACLE, PROVIDE EMPTY CONDUIT WITH PULL STRING TO WALL INDICATED FOR DATA	
	J	JUNCTION BOX FOR HARDWIRED EQUIPMENT	
	F	FIRE ALARM MANUAL PULL STATION - MOUNT 48" AFF	
	X	COMBINATION AUDIO/VISUAL INDICATING DEVICE - MOUNT 80" AFF	
	X	VISUAL INDICATING DEVICE – MOUNT 80" AFF	
	FS	FLOW SWITCH	
	TS	TAMPER SWITCH	
HERE	2	SMOKE DETECTOR. CONTRACTOR SHALL TIE IN SMOKE DETECTOR TO EXISTING LOCAL SMOKE DETECTOR SYSTEM. TYPE TO MATCH EXISTING (FIRST ALERT).	

N HERE OJECT.

3#500 MCM IN 3-1/2"C 7

UTILITY

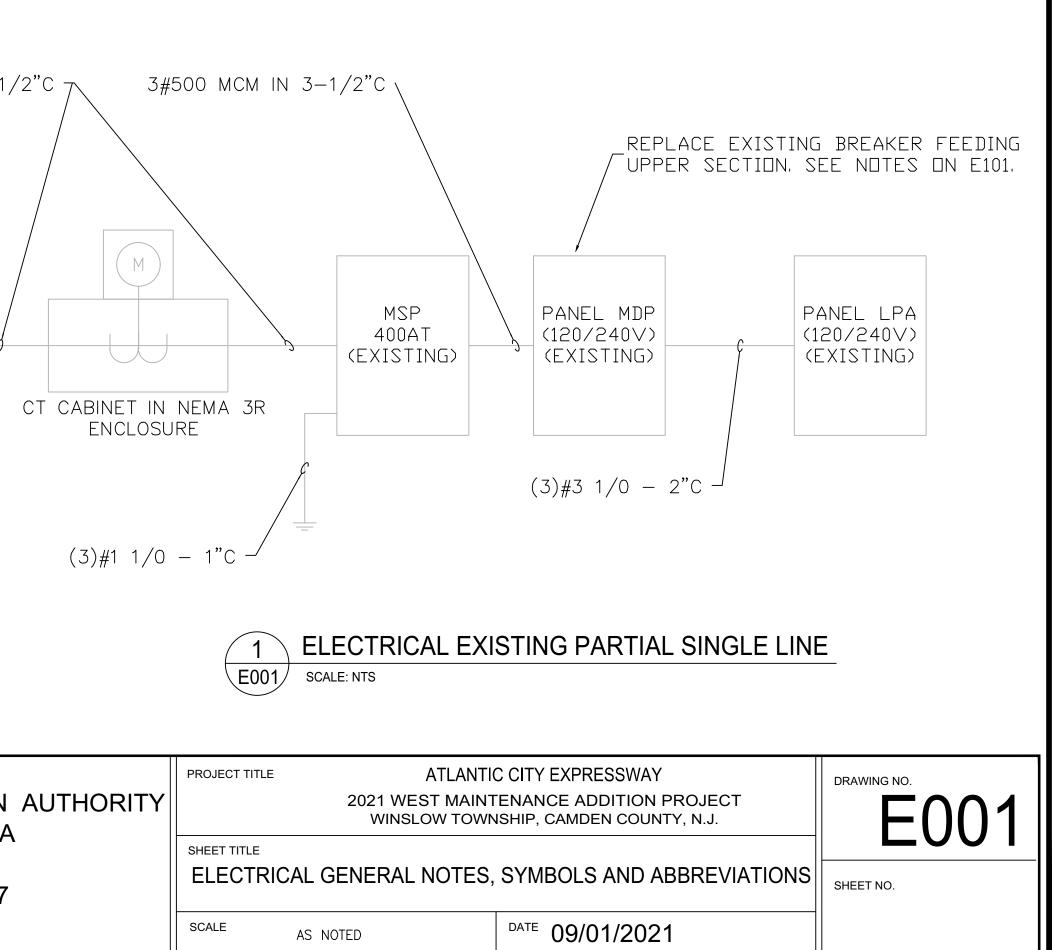
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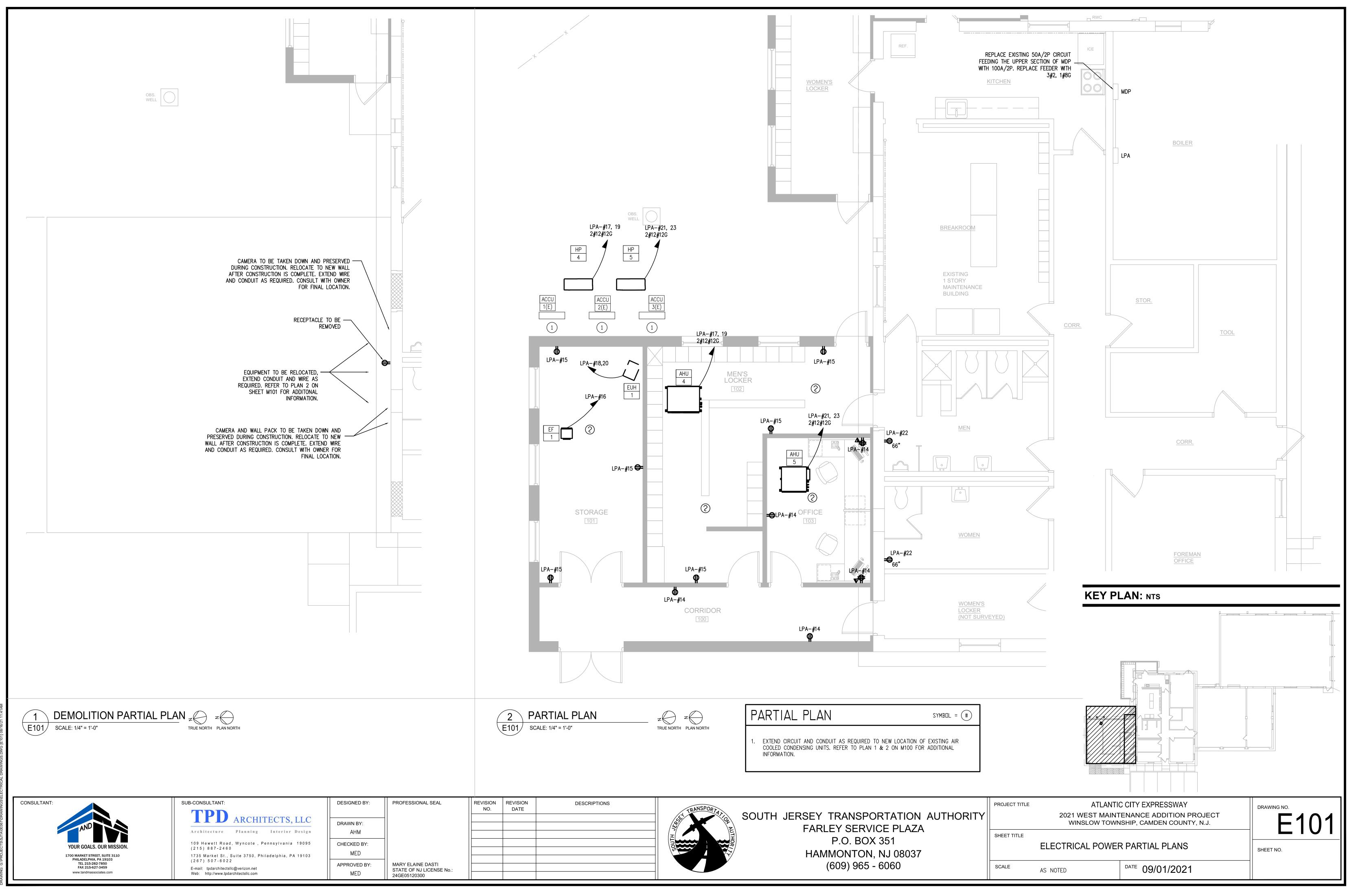
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 Descriptions
 SOUTH JERSEY TRANSPORTATION AUTHORITY

 FARLEY SERVICE PLAZA
 P.O. BOX 351

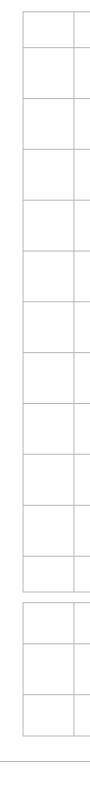
 HAMMONTON, NJ 08037
 (609) 965 - 6060





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	FIXTURI es as specified
A	2X2 LIGHTING F
	COMBINATION E MOUNTED HEAD
¢	EXTERIOR COMF PHOTOCELL AN AXCS3A-PC1-(



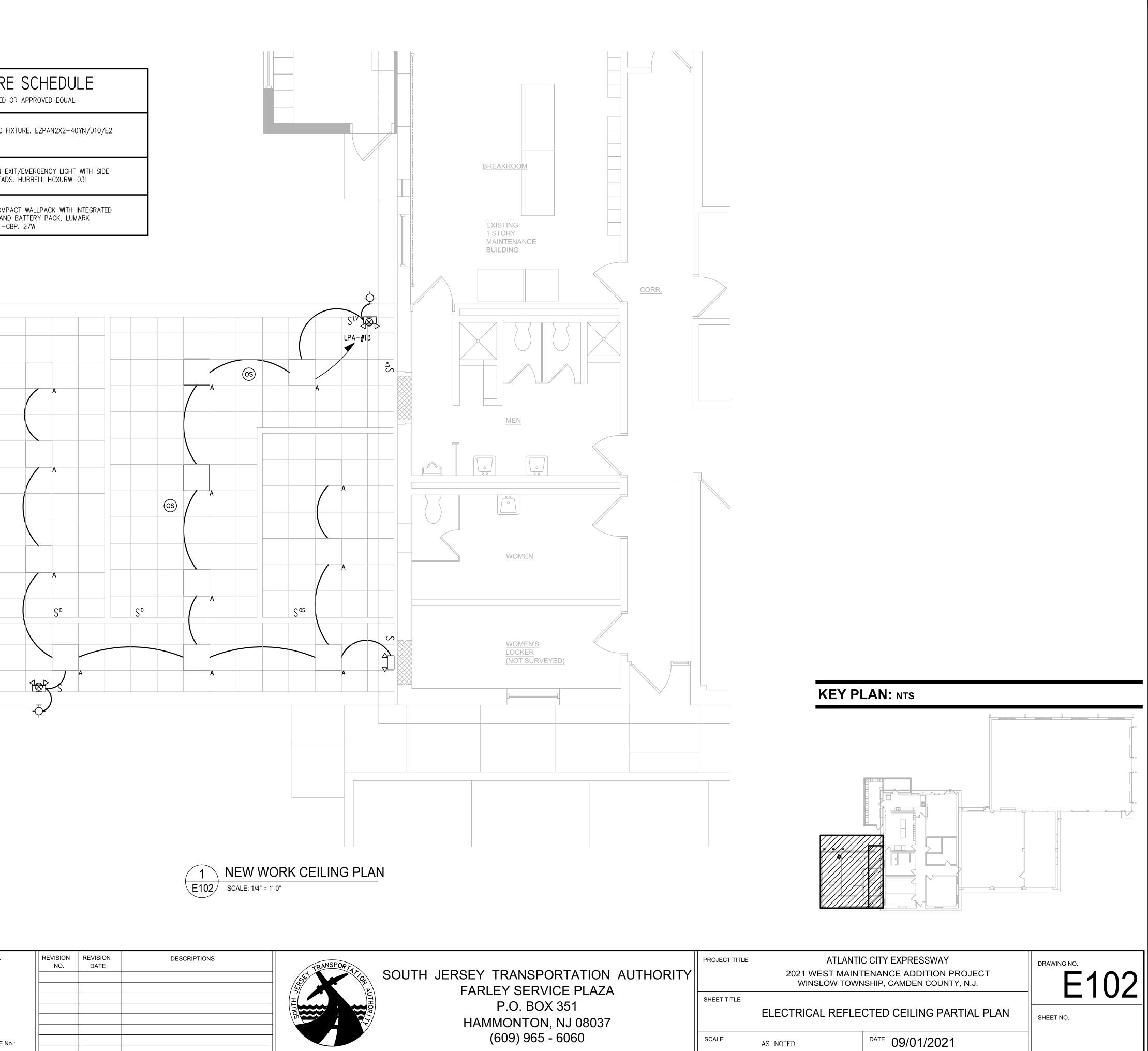
CONSULTANT:



SUB-CONSULTANT: TPD ARCHITECTS, LLC Architecture Planning Interior Design 109 Hewett Road, Wyncote , Pennsylvania 19095 (215) 887-2460 1735 Market St., Suite 3750, Philadelphia, PA 19103 (267) 507-6022 E-mail: tpdarchitectsllc@verizon.net Web: http://www.tpdarchitectsllc.com

DESIGNED BY: PROFESSIONAL SEAL DRAWN BY: AHM CHECKED BY: MED APPROVED BY: MED

MARY ELAINE DASTI STATE OF NJ LICENSE No.: 24GE05120300



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No.:							(609) 965 -	6060	

P		LP	Α			Bus Type	Cu		VOLTAGE: E & WIRE:	120/240V	/	EED	AIC: 10kAIC FROM: MDP
				Location/Room #:							cer		AMPS: 100
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MOUN	2					BR		NORMAL	MAINS:				
CIRC			AKER	LOAD TYPE & DESIGNATION	ON		LOAD		HASES (VA		LOAD		LOAD TYPE & DESIGNATION
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11		-	-	with circuit above		-				0			EXISTING
13		20	1	LOCKER ROOM LIGHTING			747	1647			900		RECEPTACLE
15		20	1	RECEPTACLE			1080		1130		50		EF-1
17		20	2	HP-4			2174			4674	2500		EUH-1
19		-	-	with circuit above		-		0				-	with circuit above
21		20	2	HP-5			3264		3264				CONDENSATE PUMP/LEAK DETECT
23		-	-	with circuit above		-				0		-	SPARE
CB NO	TES:					CON	N. KVA	1.6	4.4	4.7	CONNE	CTED K	VA
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No.:							(609) 965 -	6060	

UTHORITY	PROJECT TITLE	2021 WEST MAINT	C CITY EXPRESSWAY ENANCE ADDITION PROJECT ISHIP, CAMDEN COUNTY, N.J.	drawing no.
	SHEET TITLE	ELECTRICAL SCHED	ULES	SHEET NO.
	SCALE	AS NOTED	DATE 09/01/2021	