ROOF AREA B ACCESS STAIR DESIGN CENTER BUILDING

67 INDEPENDENCE DRIVE AUGUSTA, MAINE 04330

PREPARED FOR STATE OF MAINE BUREAU OF GENERAL SERVICES 111 SEWALL STREET, 77 STATE HOUSE STATION AUGUSTA, MAINE 04333

DRAWING NO

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PROJECT	CENTER BUILDING ROOF AREA B ACCESS STA AT THE STONE BUILDING AT INDEPENDENCE DRIVE	AUGUSTA. ME 04330	OWNER	STATE OF MAINE BUREAU OF GENERAL SERVICES 111 SFWALL STRFFT 77 STATE HOUSE STATION	AUGUSTA, ME 04333		
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	GENERAL STRU	JCTURAL NOTES		STRUC
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1. STRUCTURAL USED IN CON	DRAWINGS ARE ONLY PART (JUNCTION WITH PROJECT DR/	OF THE CONTRACT DOCUMENTS AND SHALL BE AWINGS.	1.	ALL STRUCTURAL STEEL MATERIALS, LATEST EDITION OF THE ANSI/AISC 36
2. ALL DIMENSIO FIELD VERIFIE ARCHITECT A	ONS, ELEVATIONS AND CONDI D, AND ANY DISCREPANCIES ND ENGINEER BEFORE PROC	TIONS RELATED TO EXISTING CONDITIONS MUST BE SHALL BE BROUGHT TO THE ATTENTION OF THE EEDING WITH THE AFFECTED PORTION OF THE	2.	BUILDINGS" AND AISC "CODE OF STA ALL STRUCTURAL STEEL SHALL BE N SPECIFICATIONS.
WORK. 3. THE DRAWING DIMENSIONS AND CONFLIC	SS ARE NOT TO BE SCALED IN TAKE PRECEDENCE OVER DR TING INFORMATION ON DRAW	FIELD OR FROM ELECTRONIC FILES. WRITTEN AWN DIMENSIONS. VERIFY ALL DISCREPANCIES /INGS AND/OR SURVEY WITH THE ARCHITECT AND		 STRUCTURAL STEEL TUBES STRUCTURAL STEEL PLATES ANGLES & RODS CHANNELS
ENGINEER. 4. SHOP DRAWIN	IGS PREPARED BY CONTRAC	TORS, SUPPLIERS, ETC. SHALL BE PROVIDED TO	3.	ALL SHOP CONNECTIONS SHALL BE V AWS D1.1, LATEST EDITION OF THE AI
THE ARCHITE CONSTRUCTION SUBMITTING T	CT AND ENGINEER FOR REVIE ON. GENERAL CONTRACTOR S TO THE ARCHITECT AND ENGI	EW AND APPROVAL PRIOR TO FABRICATION AND/OR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO NEER.	4.	ALL WELDING SHALL BE PERFORMED CURRENT WHEN WELDING IS PERFOR
5. THE CONTRAC CAUSE DAMA	CTOR SHALL ENSURE THAT AI GE TO ADJACENT BUILDINGS,	L CONSTRUCTION METHODS USED WILL NOT UTILITIES, OR OTHER PROPERTY.	5.	ALL BOLTED CONNECTIONS SHALL BE A325-N, UNO. WHERE WELDING IS SP
6. STRUCTURAL COMPLETED F PROVIDED BY	STABILITY OF THE BUILDING RAMING AND CONNECTIONS THE CONTRACTOR TO ENSU	RELIES ON THE FINISHED CONSTRUCTION WITH TEMPORARY BRACING AND SHORING SHALL BE RE STABILITY OF THE STRUCTURE DURING	6. 7.	PROVIDE A MINIMUM OF 1/4" FILLET W
7. TEMPORARY EXISTING SUF	DN. BRACING, SHORING, OR ANY ROUNDING PROPERTIES, BUI	NORK THAT MAY BE REQUIRED TO PROTECT THE LDINGS, UTILITIES, ETC. SHALL BE PROVIDED BY	8.	DIAMETER A325 BOLTS, UNLESS NOT PROVIDE 1/4" LEVELING PLATES AND PLATES SUPPORTED ON CONCRETE. GROUTED SOUD BEFORE FRECTION
8. THE CONTRAC STRUCTURES	CTOR SHALL BE RESPONSIBLE FROM GROUND VIBRATIONS	E FOR ALL EFFECTS ON SURROUNDING EXISTING INDUCED BY THE CONSTRUCTION ACTIVITIES.	9.	ALL STEEL SHALL BE NEW STEEL CON FABRICATION AND ERECTION OF STR
PROTECTION	AND/OR MONITORING OF VIB	RATIONS.	10.	ALL WELDS SHALL DEVELOP THE FUL 70 ELECTRODES.
10. JOB SITE SAF	ETY IS THE CONTRACTOR'S R	NOTED OTHERWISE. ESPONSIBILITY. GALE REPRESENTATIVES,	11.	CONTRACTOR SHALL SUBMIT STRUC THE ENGINEER A MINIMUM OF 4 WEEI DELAYS.
INCLUDING SU TIME. THESE AND ARE NOT	JBCONSULTANTS RETAINED E /ISITS ARE FOR CLARIFICATION FOR THE PURPOSES OF JOB	Y GALE, MAY VISIT THE JOB SITE FROM TIME TO DNS OF SPECIFIC DESIGN RELATED ISSUES ONLY SITE SAFETY. IT IS THE CONTRACTOR'S SOLE	12.	CONTRACTOR SHALL FIELD VERIFY A INTERFACES FOR EACH STEEL ELEME
11. CONTRACTOR	R SHALL SUBMIT DRAWINGS A	ND CALCULATIONS PREPARED AND STAMPED BY A	13.	NO PERMANENT CONNECTIONS SHOUPROPERLY ALIGNED. PROVIDE TEMP
PRE-ENGINEE CONNECTION	RED ELEMENTS INCLUDING, E S, STEEL STAIRS AND RAILING	BUT NOT LIMITED TO, STRUCTURAL STEEL BS, ETC.	14.	SUBMIT SHOP DRAWINGS TO THE ENG ALL DETAILS AND SIZES OF MEMBERS ENGINEERING CALCULATIONS. STEE DETAILS AND DESIGN IN ACCORDANC EDITION OF THE AISC DETAILING MAN
	CODE INF	ORMATION	15.	PROVIDE A 1/2" DIAMETER WEEPHOLE
1. ALL WORK SHA STANDARDS: MAINE 0 2021 IN ACI 318	LL CONFORM TO THE REQUIR JNIFORM BUILDING AND ENEF TERNATIONAL BUILDING CODI -19 - BUILDING CODE REQUIR	EMENTS OF THE FOLLOWING BUILDING CODES AND RGY CODE (MUBEC). E (IBC). EMENTS FOR REINFORCED CONCRETE	16.	ALL STRUCTURAL STEEL SHAPES AND ACCORDANCE WITH THE REQUIREME ALL STEEL HARDWARE, INCLUDING AN ACCORDANCE WITH ASTM A153/A153I SCRAPES WITH ZINC-RICH PAINT IN A
AISC 36	0-16 - SPECIFICATION FOR ST	RUCTURAL STEEL BUILDINGS		
2. DESIGN LOADS STAIRS: DEAD LOAD STRUC LIVE LOADS: STAIRS SNOW LOADS GROUI IMPOR EXPOS	S: CTURE S ND SNOW LOAD TANCE FACTOR, IS SURE FACTOR, CE	ACTUAL WEIGHT 100 PSF OR 300 LBS (CONCENTRATED) 70 PSF 1.0 1.0		
			J	
	 FIELD VERIFIE ARCHITECT AI WORK. THE DRAWING DIMENSIONS AND CONFLIC ENGINEER. SHOP DRAWIN THE ARCHITE CONSTRUCTION SUBMITTING T THE CONTRAC CAUSE DAMAGE STRUCTURAL COMPLETED F PROVIDED BY CONSTRUCTION TEMPORARY I EXISTING SUB THE CONTRACTOR PROTECTION DETAILS, SEC SIMILAR CONE JOB SITE SAFI INCLUDING SU TIME. THESE VA AND ARE NOT RESPONSIBILI JOB SITE SAFI INCLUDING SU TIME. THESE VA AND ARE NOT RESPONSIBILI CONTRACTOR PRE-ENGINEE CONNECTION JOB SITE SAFI INCLUDING SU TIME. THESE VA AND ARE NOT RESPONSIBILI CONTRACTOR REGISTERED PRE-ENGINEE CONNECTION JOB SITE SAFI INCLUDING SU TIME. THESE VA AND ARE NOT RESPONSIBILI AINC ACI 318 AISC 36 DESIGN LOADS STAIRS: DEAD LOADS STAIRS SNOW LOADS GROUN IMPOR EXPOS THERM 	 FIELD VERIFIED, AND ANY DISCREPANCIES ARCHITECT AND ENGINEER BEFORE PROCI WORK. THE DRAWINGS ARE NOT TO BE SCALED IN DIMENSIONS TAKE PRECEDENCE OVER DR AND CONFLICTING INFORMATION ON DRAW ENGINEER. SHOP DRAWINGS PREPARED BY CONTRACT THE ARCHITECT AND ENGINEER FOR REVIE CONSTRUCTION. GENERAL CONTRACTOR S SUBMITTING TO THE ARCHITECT AND ENGINES. THE CONTRACTOR SHALL ENSURE THAT AI CAUSE DAMAGE TO ADJACENT BUILDINGS. STRUCTURAL STABILITY OF THE BUILDING I COMPLETED FRAMING AND CONNECTIONS. PROVIDED BY THE CONTRACTOR TO ENSUI CONSTRUCTION. TEMPORARY BRACING, SHORING, OR ANY I EXISTING SURROUNDING PROPERTIES. BUI THE CONTRACTOR SHALL BE RESPONSIBLE STRUCTURES FROM GROUND VIBRATIONS CONTRACTOR SHALL DETERMINE THE NEE PROTECTION AND/OR MONITORING OF VIBR DETAILS, SECTIONS AND NOTES ON THE DF SIMILAR CONDITIONS ELSEWHERE UNLESS JOB SITE SAFETY IS THE CONTRACTOR'S R INCLUDING SUBCONSULTANTS RETAINED B TIME THESE VISTS ARE FOR CLARFICATIONS CONTRACTOR SHALL DETERMINE THE NEE PROTECTION AND/OR MONITORING OF VIBR DISTERED STRUCTURAL ENGINEER IN TO PRE-ENGINEERED STRUCTURAL ENGINEER IN THE PRESE VISTS ARE FOR CLARFICATIONS AND ARE NOT FOR THE PURPOSES OF JOB RESPONSIBILITY TO COMPLY WITH ALL SITE 11. CONTRACTOR SHALL SUBMIT DRAWINGS A REGISTERED STRUCTURAL ENGINEER IN TO PRE-ENGINEERED STRUCTURAL ENGINEER IN TO PRE-ENGINEERERD STRUCTURAL ENGINEER IN STANDARDS: MAINE UNIFORM BUILDING AND ENEF 2. DESIGN LOADS STAIRS: DEAD LOADS STAIRS SNOW LOADS STAIRS SNOW LOADS STAIRS SNOW LOADS STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNOW LOADS: STAIRS SNO	PIED VERTIFIED, AND ANY DISORERANCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHTECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK. THE DRAWINGS ARE NOT TO BE SCALED IN FIELD OR FROM ELECTRONIC PIELS. WRITTEN DIMENSIONS USING TAKE PRECORDED COVER DRAWINGS AND RELAYS INTERVIAL DISORERANCES AND CORFLICTING INFORMATION ON DRAWINGS AND RELY ALL DISORERANCES AND CORFLICTING INFORMATION ON DRAWINGS AND RELY ALL ISORERANCES SAUC DRAWINGS REPARED BY CONTRACTORS, SUPPLIERS, ETC, SHALL BE PROVIDED TO THE ARCHTECT AND ENGINEER FOR RELY BUY AND DRAWINGS PRIOR TO SUBMITTING TO THE ARCHTECT AND ENGINEER THE CONTRACTOR SHALL REVER THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDING, UTLITTES, OR OTHER PROPERTY. STRUCTURAL STABILTY OF THE BUILDING, UTLITTES, OR OTHER PROPERTY. STRUCTURAL STABILTY OF THE BUILDING, UTLITTES, OR OTHER PROPERTY. THE CONTRACTOR SHALL ENDER THAT ALL CONSTRUCTION METHODS USED WILL NOT CONSTRUCTION. TELEDRAWING AND CONSECTIONS THEOR AND BIORINGS INSULAL BE PROVIDED BY THE CONTRACTOR TO DEBUNE STABILTY OF THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EFFECTS ON SURROUNDING EXISTING STRUCTURES FROM ROPORTIZES ON THE AND AND SIGNINGS. DETALLS, SECTIONS AND NOTES ON THE DRAWINGS ARE DRAWINGS FRUCTION ACTIVITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EFFECTS ON SURROUNDING EXISTING STRUCTURES FROM ROPORTIZES ON THATONS. DETALLS, SECTIONS AND NOTES ON THE DRAWINGS ARE DRAWING STRUCTONACTIVES, MORTACTOR SHALL BE RESPONSIBLE FOR ALL EFFECTS ON SURROUNDING EXISTING STRUCTURES FROM ROPORTIZES ON THATONS. DETALLS, SECTIONS AND NOTES ON THATONS. DETALLS,	PED VERIFIED AND ANY DISCREPANCIES INAL LEE RENOUTED TO THE ATTENTION OF THE ARCHITECT AND ENANCERS REPORE PROCEEDING WITH THE AFFECTED PRITION OF THE ARCHITECT AND ENANCERS REPORE PROCEEDING WITH THE AFFECTED PRITION OF THE DUBLICASIONS AFE NOT TO BE SOLIED IN TEDL OR REPORTED SUFFICIENCY ALL DISCREPANCIES DUBLICASIONS TAKE PRECEDENCE OVER DAWN DIMENSIONS VERY ALL DISCREPANCIES DUBLICASIONS TAKE PRECEDENCE OVER DAWN DIMENSIONS VERY ALL DISCREPANCIES DUBLICASIONS TAKE PRECEDENCE OVER DAWN DIMENSIONS VERY ALL DISCREPANCIES DUBLICASIONS TAKE PRECEDENCE OVER DAWN DIMENSIONS VERY ALL DISCREPANCIES DUBLICASIONS TAKE PRECEDENCE ON PROVIDE TO THE ARAMINES PREPARED BY CONTRACTORS, SUPPLIENS ETC. SHALL BE PROVIDED TO THE CONTRACTOR SHALL REVER WALL HARD DAWNINGS PRIOR TO SUMMITTED TO THE REVERT AND ADDORS OF OTHER ADDORS DUSE DAMNE TO THE REVERT AND ADDORS OF OTHER REPORT. THE CONTRACTOR SHALL REVER WALLENGT DONSTRUCTION WITH CONTRACTOR SHALL ENDER THAT ALL ONNER UTION BEHADIS USED WILL NOT CONSERUCTION THE CONTRACTOR SHALL ENDER THAT ALL ONNER DONS AND BHORING SHALL BE PROVIDED TO THE CONTRACTOR SHALL ENDER THAT ALL ONNER DONS AND SHORING SHALL BE PROVIDED TO THE CONTRACTOR SHALL ENDER THAT ANY BE RENOLVED ON WITH CONTRACTOR SHALL ENDER THAT ANY BE RENOLVED TO REVERT THE CONTRACTOR SHALL ENDER THAT ANY BE RENOLVED TO REVERT THE CONTRACTOR SHALL ENDER THAT ANY BE RENOLVED TO REVER THE CONTRACTOR SHALL ENDER THAT ANY BE REPORATED ON SHALL BE ROVED DAY THE CONTRACTOR SHALL ENDER THAT ANY BE REPORTED TO SMALLAR CONTRACTORS SHOTED OTHERWISE. THE CONTRACTORS SHALL ENDER THAT ANY BE REPORTED TO SMALLAR CONTRACTORS SHOTED OTHERWISE. DESTING SHALL ENDER THAT ANY BE REPORTED TO SMALLAR CONTRACTORS SHOTED OTHERWISE. DESTING SHALL ENDER THAT ANY BE REPORTED TO SMALLAR CONTRACTORS OF THE REVERTING SHALL ENDER THAT CONTRACTOR SHALL ENDER THAT ANY SHIT THE OBJECTION ADD SHALL SHALL AND SHALL END

CTURAL STEEL

S, WORKMANSHIP, AND DETAILS, SHALL CONFORM TO THE 360 "SPECIFICATION FOR THE STRUCTURAL STEEL FANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

NEW STEEL CONFORMING TO THE FOLLOWING

ASTM A500, GRADE C
ASTM A36 MIN.
ASTM A572 GR. 50
ASTM A992 GR.50

WELDED TO CONFORM TO "STRUCTURAL WELDING CODE", AMERICAN WELDING SOCIETY, E70 SERIES. OR BOLTED.

D BY AWS CERTIFIED WELDERS. CERTIFICATIONS MUST BE DRMED.

BE HIGH STRENGTH BOLTED TO CONFORM TO ASTM SPECIFIED, WELDING PER NOTE ABOVE SHALL APPLY.

WELDS (ALL AROUND) AT WELDED CONNECTIONS, U.N.O.

L BE BEARING TYPE CONNECTIONS MADE WITH 1/2" TED OTHERWISE.

) 1" THICK NONSHRINK GROUT UNDER ALL COLUMN BASE ... LEVELING PLATES SHALL BE SET, LEVELED AND I OF COLUMN.

ONFORMING TO THE AISC SPECIFICATIONS FOR DESIGN, RUCTURAL STEEL FOR BUILDINGS.

ILL STRENGTH OF THE MATERIAL BEING WELDED. USE EXX

CTURAL STEEL SHOP DRAWINGS (HARD COPY OR PDF) TO EKS PRIOR TO THE START OF CONSTRUCTION TO AVOID

ALL DIMENSIONS AND CONNECTIONS AT ALL MATERIAL IENT PRIOR TO SUBMITTING SHOP DRAWINGS.

OULD BE MADE UP UNTIL THE STRUCTURE HAS BEEN PORARY BRACING AS REQUIRED.

NGINEER SHOWING SETTING PLANS, ERECTION PLANS, RS INCLUDING CONNECTIONS AND ALL STAMPED EL FABRICATOR IS RESPONSIBLE FOR FINAL CONNECTION ICE WITH THE MINIMUM REQUIREMENTS OF THE LATEST NUAL.

LE AT THE BASE OF ALL TUBE AND PIPE COLUMNS.

ND PLATES SHALL BE HOP-DIP GALVANIZED IN IENTS OF ASTM A123/A123M. UNLESS OTHERWISE NOTED, ANCHOR BOLTS, SHALL BE HOT-DIP GALVANIZED IN 3M. TOUCH UP ALL FIELD WELDS, SCRATCHES, OR ACCORDANCE WITH THE REQUIREMENTS OF ASTM A780. 1. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY AS SPECIFIED.

- 2. CONCRETE SHALL BEAR UNIFORMLY ON SPECIFIED CRUSHED STONE ATOP UNDISTURBED SOIL OR STRUCTURAL COMPACTED FILL.
- 3. ALL FILL UNDER ANY PORTION OF THE CRUSHED STONE LAYER SHALL BE COMPACTED IN 4" LOOSE LIFTS OF 95% MODIFIED PROCTOR (ASTM D1557) COMPACTED MATERIAL AS APPROVED BY THE ENGINEER AND GEOTECHNICAL ENGINEER/TESTING LABORATORY.
- 4. THE STRUCTURAL ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS. A GEOTECHNICAL ENGINEER AND TESTING LAB SHALL BE HIRED BY THE OWNER TO PROVIDE FIELD REVIEW SERVICES, SIEVE ANALYSIS AND COMPACTION TESTING.
- 5. ALL CONCRETE SHALL BE PROTECTED AGAINST FROST UNTIL CONCRETE IS FULLY CURED AND THE PROJECT IS COMPLETED. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- 6. CONCRETE WORK SHALL CONFORM TO ACI318-19 AMERICAN CONCRETE INSTITUTE CODE FOR "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- 7. CONTRACTOR IS REQUIRED TO FOLLOW ALL CURRENT ACI COLD AND HOT WEATHER CONCRETING SPECIFICATIONS, RECOMMENDATIONS AND GUIDELINES TO COMPLETE THE WORK. SUBMIT THE PROPOSED MEANS AND METHODS FOR CONCRETING TO THE ENGINEER FOR APPROVAL PRIOR TO INITIATING THE WORK.
- 8. CEMENT SHALL BE TYPE I OR II PORTLAND CEMENT. CONCRETE SHALL NOT CONTAIN SLAG. MAXIMUM FLY-ASH, IF USED, SHALL BE 20% OF CEMENT QUANTITY. MAXIMUM AGGREGATE SIZE IN FOUNDATION CONCRETE SHALL BE $1\frac{1}{2}$ ". MAXIMUM AGGREGATE SIZE IN SLAB CONCRETE SHALL BE $\frac{3}{4}$ ".
- 9. FOOTING CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH A SLUMP OF NO MORE THAN 4 INCHES AND AIR ENTRAINMENT (AT POINT OF PLACEMENT) OF 6% ± 1.5%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION OR HEAT IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN ACCORDANCE WITH ALL CURRENT AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS. USE OF WATER REDUCERS MAY ALTER SPECIFIED SLUMP AS APPROVED BY THE ENGINEER.
- 10. ALL CONCRETE SHALL BE READI-MIXED AT PLANT COMPLYING WITH ASTM C94 AND ASTM C1116. SITE MIXING IS NOT ALLOWED.
- 11. ADDITION OF WATER TO CONCRETE MIXES AT THE SITE IS NOT ALLOWED UNLESS SPECIFICALLY IDENTIFIED IN CONCRETE MIX DESIGN SUBMITTAL DUE TO WATER REDUCER ADMIX. ANY OTHER ADDITION OF WATER TO CONCRETE ON SITE SHALL BE GROUNDS FOR IMMEDIATE REJECTION.
- 12. ALL CONCRETE SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS. PROVIDE SUFFICIENT CHAIR OR SUPPORT BARS AS NECESSARY TO PROPERLY POSITION REINFORCING STEEL. PULL UP OF MESH OR UNSUPPORTED MESH, IF USED, WILL NOT BE ALLOWED.
- 13. STEEL REINFORCEMENT SHALL CONFORM TO ASTM 615, GRADE 60, DEFORMED BARS.
- 14. REINFORCING MUST HAVE CLEAR COVER OF 2" FOR FORMED SURFACES AND 3" FOR CONCRETE CAST AGAINST EARTH.
- 15. NOTIFY ENGINEER FOR INSPECTION OF COMPLETED INSTALLATION OF REINFORCEMENT AT LEAST TWO (2) WORK DAYS PRIOR TO SCHEDULED PLACEMENT OF CONCRETE.
- 16. CONCRETE USED FOR ALL FOUNDATIONS SHALL BE TESTED BY AN INDEPENDENT ACI CERTIFIED TESTING LAB, HIRED, AND PAID FOR BY THE OWNER. THE CONTRACTOR IS REQUIRED TO CONTACT AND COORDINATE THE TESTING LAB SERVICES. THE FOLLOWING MINIMUM TESTING SHALL BE PERFORMED, AND FIELD/ LAB-RESULT REPORTS SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL:
 - AIR ENTRAINMENT AT PLACEMENT ASTM C-231-97
 - SLUMP ASTM C-143
 - COMPRESSIVE STRENGTH ASTM C-39
- 17. CONCRETE CYLINDER SAMPLES SHALL BE OBTAINED FROM EACH CONCRETE DELIVERY TRUCK FOR COMPRESSIVE STRENGTH TESTING. FIVE (5) CYLINDERS SHALL BE MADE FROM EACH SAMPLE. EACH CYLINDER SHALL BE STANDARD 6" DIAMETER BY 12" TALL. ONE (1) CYLINDER WILL BE TESTED AT 7-DAY CURE, AND THREE (3) CYLINDERS WILL BE TESTED AT 28-DAY CURE TO DETERMINE COMPRESSIVE STRENGTH OF THE CONCRETE IN ACCORDANCE WITH ASTM C-39. AIR ENTRAINMENT AND SLUMP WILL BE TESTED AT EACH SAMPLE AS WELL. RETAIN THE FIFTH CYLINDER SAMPLE FOR POTENTIAL 56 DAY COMPRESSIVE TESTING AND/OR PETROGRAPHIC EXAMINATION. TEST RESULTS WHICH ARE DETERMINED BY GALE TO BE DEFICIENT OR QUESTIONABLE WILL REQUIRE THAT THE CONTRACTOR PAY FOR ADDITIONAL TESTING AND CORING OF THE IN-PLACE CONCRETE, INCLUDING PETROGRAPHIC EXAMINATION WITH REPORT AS DIRECTED BY GALE. CONCRETE DETERMINED BY GALE TO REMAIN DEFICIENT AFTER FINAL TESTING SHALL BE ENTIRELY REMOVED AND REPLACED AT NO ADDITIONAL COST.
- 18. ALL EXTERIOR FOUNDATIONS SHALL BE PLACED AT OR BELOW THE FROST DEPTH OF 4'-0" FROM THE ADJACENT FINISHED GRADE UNLESS NOTED OTHERWISE.
- 19. CONCRETE FOUNDATIONS AND SLABS-ON-GRADE SHALL BE PLACED UPON A MINIMUM 12" (REFER TO DWG. DETAILS) THICK BED OF 3/4" CRUSHED, WASHED STONE COMPACTED TO A STABLE AND UNYIELDING STATE, IN 6" (MAX.) LIFTS, UNLESS OTHERWISE SPECIFIED. ALL STONE BED SUB-BASE COMPACTED MATERIALS SHALL BE PLACED ATOP SPECIFIED COMPACTED STRUCTURAL FILL AND PROOF-ROLLED, ACCEPTABLE (AS DETERMINED BY GEOTECHNICAL ENGINEER) MATERIALS.
- 20. FOUNDATION DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1000 PSF. FINAL SOIL BEARING CAPACITIES SHALL BE FIELD VERIFIED BY A QUALIFIED TESTING AGENCY RETAINED BY THE CONTRACTOR PRIOR TO CONCRETE PLACEMENT.
- 21. IF BEARING MATERIALS WITH A LOWER BEARING CAPACITY THAN 1000 PSF ARE ENCOUNTERED (AS DETERMINED BY THE GEOTECHNICAL ENGINEER), AT THE SPECIFIED ELEVATIONS, THE UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO BE APPROVED BY THE STRUCTURAL AND GEOTECHNICAL ENGINEER.

	STAIR, METAL GRATES, AND RAILING NOTES			G/	4		Ε
1.	STAIR STEEL RAILING AND GRATING DETAILS INDICATED ON THE DESIGN DRAWINGS ARE FOR SCHEMATIC REPRESENTATION AND BID PURPOSES ONLY. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL SPECIALTY STRUCTURAL ENGINEER (SSE) LICENSED IN THE STATE OF MAINE TO DESIGN ALL STAIRS, RAILING AND GRATING IN ACCORDANCE WITH THE INDICATED DESIGN LOADS AND CRITERIA IN THE FOLLOWING NOTES AND THE DESIGN LOAD REQUIREMENTS INCLUDED IN THE GENERAL NOTES SECTION. CONCEPTUAL DETAILS ARE PROVIDED ON THE FOLLOWING SHEET TO PORTRAY THE DESIGN INTENT TO THE CONTRACTOR AND SSE. THE ACTUAL DETAILS AND DESIGN PORTRAYING MEMBER SIZES, LOCATIONS, REQUIRED BRIDGING, CONNECTIONS, LAYOUTS, ETC., SHALL BE IN ACCORDANCE WITH THE SSE SIGNED AND SEALED SHOP DRAWINGS.	Gal Eng 5 M P 2 ww	e Associates aineers and Pla oulton Street 1 07.536.1092 w.gainc.com Boston Ba Ma s drawing and	, Inc . Inners Portland, I altimore anchester the desig	ME 04 Orland Portla	101 do Harl and d constr	tford
2.	WELDED STEEL GRATES AND FRAMES SHALL CONFORM TO THE MEMBER SIZE, DIMENSIONS AND DETAILS PER THE SELECT GRATE TYPE. STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION: A36.	fe As reu wr	atures disclos sociates, Inc. used in whole itten permissi Coi	sed are p and sha or part w on of Ga	roprie Il not b vithout le Ass 2025	tary to C be altere the exp ociates,	d or oress , Inc.
3.	ALL STEEL STAIRS, GRATES, AND RAILINGS SHALL BE HOT-DIP GALVANIZED. TOUCH UP ALL FIELD WELDS, SCRATCHES, OR SCAPRES WITH ZINC-RICH PAINT IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A780. ALL HARDWARE, INCLUDING ANCHOR BOLTS, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M.	ſ	100% C(ONST	RU(CTIO	
4.	FIELD MEASUREMENTS: VERIFY ACTUAL LOCATIONS OF WALLS AND OTHER CONSTRUCTION CONTIGUOUS WITH METAL FABRICATIONS BY FIELD MEASUREMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.STEEL GRATING SHALL BE ANTI SLIP AND COMPLY WITH APPLICABLE PROVISIONS AND RECOMMENDATIONS OF THE LATEST NAAMM METAL BAR GRATING MANUAL: ANSI/NAAMM MBG 531.		DOC	UM	EN	ITS	5
ō.	FOR GRATING CROSS-SECTION, SUBMIT PRODUCT DATA INDICATING DIMENSIONAL INFORMATION, SPAN, LOAD CAPACITY, AND DEFLECTION LIMITATIONS.SUBMIT METAL GRATING SHOP DRAWINGS FOR APPROVAL. INCLUDE FABRICATION AND INSTALLATION DETAILS, INCLUDING PLANS AND SECTIONS, DRAWN TO SCALE. INCLUDE SCALED LAYOUT AND RELATIONSHIPS BETWEEN GRATING AND ADJACENT STRUCTURAL ELEMENTS.		S STAIR				
6.	INSTALL GRATING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON THE CONSTRUCTION DRAWINGS.		С Ш С Ш	11		ഗ	
7.	POSITION GRATING SECTIONS FLAT AND SQUARE WITH ENDS BEARING A MINIMUM 1" ON THE UPPORTING STRUCTURE. CONNECTION TO STRUCTURAL STEEL PER MANUFACTURER.ALLOW CLEARANCE AT JOINTS BETWEEN ADJACENT GRATING PANELS OF 1/4" (MAX.) AND 3/8" (MAX.) AT ENDS.		UILDING	1 UKIVI 04330		ERAL SERVICE OUSE STATION	33
8.	JOIN ABUTTING METAL GRATING PLATFORM SECTIONS WITH MANUFACTURER SUPPLIED SPLICE PLATES; BOLTED OR WELDED AS SPECIFIED. UNIFORM DESIGN LIVE LOADING FOR TRUCTURAL GRATING IS 40 PSF. MAXIMUM ALLOWABLE CONCENTRATED DESIGN LOAD ON RATING IS 300 LBS.	PROJECT	TONE B	TA, ME	OWNER	UREAU OF GEN ET. 77 STATE H	SUSTA, ME 0433
9.	 STRUCTURAL PERFORMANCE: RAILINGS, INCLUDING ATTACHMENTS TO BUILDING CONSTRUCTION, SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED: HANDRAILS AND TOP RAILS OF GUARDS: A. UNIFORM LOAD OF 50 LBF/ FT (0.73 KN/M) APPLIED IN ANY DIRECTION. B. CONCENTRATED LOAD OF 200 LBF (0.89 KN/M) APPLIED IN ANY DIRECTION. C. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY. MATERIALS: STEEL AND IRON A. TUBING: ASTM A 500 (COLD FORMED) OR ASTM A 513. GALVANIZED FINISH. B. PIPE: ASTM A 53/ A 53M. TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT (SCHEDULE 40), UNLESS ANOTHER GRADE AND WEIGHT ARE REQUIRED BY STRUCTURAL LOADS. PROVIDE GALVANIZED FINISH. 		CENTER BUILDING R			STATE OF MAINE 111 SEWALL STR	AL
	C. PLATES, SHAPES, AND BARS: ASTM A 36/ A 36M. GALVANIZED FINISH. FASTENERS: PROVIDE THE FOLLOWING:						
	A. HOT-DIP GALVANIZED RAILINGS: TYPE 304 STAINLESS STEEL OR HOT-DIP ZINC-COATED STEEL FASTENERS COMPLYING WITH ASTM A 153/ A 153M OR ASTM F 2329 FOR ZINC COATING.						
	B. PROVIDE EXPOSED FASTENERS WITH FINISH MATCHING APPEARANCE, INCLUDING COLOR AND TEXTURE, OF RAILINGS.			DES	דסוסי		
	 A. FABRICATE RAILINGS WITH WELDED CONNECTIONS UNLESS OTHERWISE INDICATED. B. WELDED CONNECTIONS: COPE COMPONENTS AT CONNECTIONS TO PROVIDE CLOSE FIT, 	PF	ROJECT NO.	8	39100		Ы
	OR USE FITTINGS DESIGNATED FOR THIS PURPOSE. WELD ALL AROUND AT CONNECTIONS, INCLUDING AT FITTINGS. STEEL AND IRON FINISHES:GALVANIZED	DE	SIGNED BY	83 N	39100 ICC/A	S001 MV	
	RAILINGS: A. HOT-DIP GALVANIZE EXTERIOR STEEL RAILINGS, INCLUDING HARDWARE,	DF		N			
	AFTER FABRICATIONS. B. COMPLY WITH ASTM A 123/A 123M FOR HOT-DIP GALVANIZED RAILINGS.	DA		6	/16/20	25	
	C. COMPLY WITH ASTM A 153/A 153M FOR HOT-DIP GALVANIZED HARDWARE.D. DO NO QUENCH OR APPLY POST GALVANIZING TREATMENTS THAT MIGHT INTERFERE	DF	RAWING SCA	LE N		O SCAL	E
	WITH PAINT ADHESIONS. FOR GALVANIZED RAILINGS, PROVIDE HOT-DIP GALVANIZED FITTINGS, BRACKETS, FASTENERS, SLEEVES, AND OTHER FERROUS COMPONENTS.		GR	APHIC S	CALE		
	A. ANCHOR RAILING ENDS AT WALLS WITH ROUND FLANGES ANCHORED TO WALL CONSTRUCTION AND WELDED TO RAILING ENDS.	\vdash	S	HEET TI	TLE		
	B. ANCHOR RAILING ENDS TO METAL SURFACES WITH FLANGES BOLTED TO METAL SURFACES AND WELDED TO RAILING ENDS.						
	 C. ATTACH RAILINGS TO WALL WITH WALL BRACKETS. LOCATE BRACKETS AS INDICATED OR, IF NOT INDICATED, AT SPACING REQUIRED TO SUPPORT STRUCTURAL LOADS. D. SECURE WALL BRACKETS AND RAILING END FLANGES TO BUILDING CONSTRUCTION AS FOLLOWS: FOR CONCRETE AND SOLID MASONRY ANCHORAGE, USE DRILLED-IN EXPANSION SHIELDS AND HANGERS OR LAG BOLTS. 		STR N	UCT Iote	UR ES	AL	
	 FOR HOLLOW MASONRY ANCHORAGE, USE TOGGLE BOLTS. E. ALL STEEL PIPE POSTS AND RAILS SHALL BE ASTM A53 GRADE B SCHEDULE 40 PIPE 						
	MINIMUM. RAILINGS SHALL BE USHA-COMPLIANT WITH POWDER COATED GALVANIZED STEEL FINISH. GUARDRAIL SHALL HAVE A MINIMUM HEIGHT OF 42" ABOVE THE FINISHED WALKING SURFACE. PIPE RAILINGS SHALL HAVE A MINIMUM NOMINAL DIAMETER OF				DR/	AWING	NO.
	1-1/2". RAILING COMPONENTS SHALL BE WELDED SCHEDULE 40 PIPE.					S001	
						OF	







REFER TO THE STRUCTURAL NOTES SHEET S001 FOR STAIR

ANCHOR BOLTS NOT SHOWN IN CONCRETE - REFER TO

CONTRACTOR SHALL VERIFY ELEVATIONS AND DIMENSIONS IN THE FIELD PRIOR TO SHOP DRAWING PREPARATION AND FABRICATION OF STAIR COMPONENTS.

METAL GRATING SHALL BE 1-1/2"X3/16" GALVANIZED 19-W-4 USED IN PLATFORMS, LANDINGS, AND TREADS, TYP.









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PROJECT	CENTER BUILDING ROOF AREA B ACCESS STAIR AT THE STONE BUILDING	AUGUSTA, ME 04330	OWNER	STATE OF MAINE BUREAU OF GENERAL SERVICES 111 SEWALL STREET, 77 STATE HOUSE STATION AUGUSTA, ME 04333			
NO PF C/ DF CF DF	DATE ROJECT NO. ADD FILE ESIGNED BY RAWN BY HECKED BY ATE RAWING SCAI	DESC 83 83 M A A A A HIC SC	CRIP 39100 39100 CC/A CC MV/A 16/20 CALE	TION BY D D S100s AMV EO D25			
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