South Perkasie Covered Bridge

Contact: Client Contact: Kim W. King
10466 Sunnyside Rd SE Box 70
Jefferson, OR 97352

Property Location:
149 W Walnut St,
Perkasie, PA 18944

Tax Map Number:
TAX MAP # 33-004-092

Bucks County

Bridge Abutment Design

G DRAWING INDEX - GENERAL

Sheet Number	Sheet Name	Sheet Issue Date	Revision #	Revision Date	Revision Description
G-1.0	COVER SHEET/ DRAWING INDEX	06/19/2025			
G-1.1	CODE COMPLICANCE REVIEW/ PROJECT INFO.	06/19/2025			

S DRAWING INDEX - STRUCTURAL

Sheet Number	Sheet Name	Sheet Issue Date	Revision #	Revision Date	Revision Description
S-0.1	GENERAL STRUCTURAL NOTES	06/19/2025			
S-1.0	FOUNDATION PLAN	06/19/2025			
S-2.0	FOUNDATION SECTIONS AND DETAILS	06/19/2025			

GENERAL PROJECT NOTES:

1. All codes having jurisdiction shall be observed strictly in the conviction of the project, including all applicable township and state, zoning, building codes. contractor to verify all codes before commencing construction and bring all discrepancies between code requirements and the contract documents to the attention of the Architect / Engineer.
2. The contractor shall verify and protect all service and utility lines and existing site area from deterioration or damage.
3. The Architect / Engineer shall not be responsible for the safety and construction, procedures, techniques, or the failure of the builder to carry out the work in accordance with the drawings, specifications, or required codes, including all OSHA regulations.
4. Contractor shall bring errors and omissions, which may occur, in the Contract Documents to the attention of the Architect / Engineer and Owner in writing and written instructions shall be obtained before proceeding with the work. The contractor will be held responsible for the results of any errors, discrepancies, or omissions in the Contract Documents of which the Contractor failed to notify the Engineer before construction and/or fabrication of the work.
5. The contractor shall verify all dimensions and job conditions at the job site sufficiently in advance of work, to be performed to assure the orderly progress of the work.
6. Contractors shall maintain the premises clean and free of trash, debris and shall protect all adjacent work from damage. All finished work shall be ready for use at the conclusion of project.
7. All manufacturer's printed warnings and/or directions for handling products must be strictly observed. Any items not compatible with substrate shall be isolated as per manufactures' recommendations.
8. All codes, trade standards, and manufacturer's instructions referenced in the Contract Documents shall be the latest edition.
9. The Contractor shall make no structural changes without approval of the Architect / Engineer.

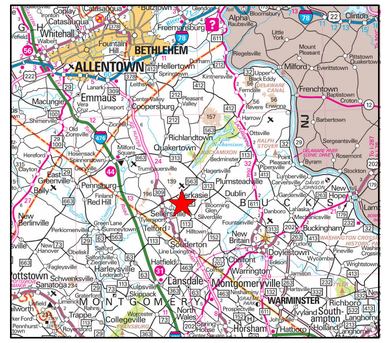
PENNSYLVANIA ONE CALL SYSTEM INC. 1-800-242-1776 DIAL 8-1-1 BEFORE YOU DIG!

Pennsylvania One Call System, Inc.

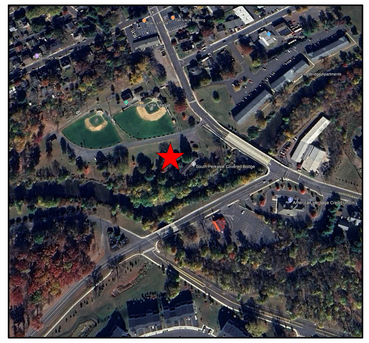
CALL BEFORE YOU DIG!

Pennsylvania Law Requires:
a. 3 working days for construction phase
b. 10 working days in design state
c. Stop Call

Pennsylvania 811 — A Privately funded non-profit Pennsylvania Corporation



LOCATION MAP



AERIAL LOCATION MAP

JHA SURVEYING ENGINEERING ENVIRONMENTAL ARCHITECTURE
PA - NY - OH - WV
3939 Birney Ave
Moosic, Pennsylvania 18507
844-542-4757

Rev #	Revision Description	Date

Project Contacts:

JHA Companies
Mark H. Ross, PE
719 N. Lehigh Ave.
Sayre PA 18840
Phone: (570) 886-1843
email: mross@jhacompanies.com

Consultant 1 Name
Consultant 1 Contact
123 Consultant Address
City, ST 00000
Phone: (###) ###-####

Consultant 2 Name
Consultant 1 Contact
123 Consultant Address
City, ST 00000
Phone: (###) ###-####

Seal:

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MARK HOWER ROSS — ENGINEER — PE080692

Project Notes:

Project Notes

South Perkasie Covered Bridge
10466 Sunnyside Rd SE Box 70
Jefferson, OR 97352
Attn:Client Contact: Kim W. King

Project Location:
149 W Walnut St,
Perkasie, PA 18944

Bridge Abutment Design

Sheet Title:

COVER SHEET/ DRAWING INDEX

Project No:	2025-0305
Sheet Issue Date:	06/19/2025
Project Issue Date:	03/18/2025
Checked By:	MHR
Plan Status:	FOR BIDDING

G-1.0

Scale: As Indicated

GENERAL PROJECT:

1. ALL DRAWINGS SHALL BE READ IN CONJUNCTION W/ ALL OTHER DRAWINGS, PROJECT MANUAL/SPECIFICATION, PROJECT PRODUCT MANUAL, THESE NOTES, DRAWING SYMBOLS, MATERIAL LEGEND, REFLECTED CEILING LEGEND AND GENERAL INFORMATION ON THIS SHEET AND ABBREVIATIONS.

2. DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK. VERIFY ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS. IN THE EVENT OF DISCREPANCY, NOTIFY THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT.

SPECIFICATION S:

1. WHEN/ IF PROVIDED PER PROJECT SEE SPECIFICATION FOR GENERAL BUILDING ELEMENTS, FINISHES, MATERIALS, BUILDING ACCESSORIES, TOILET AND BATHROOM ACCESSORIES, TOILET PARTITIONS AND URINAL SCREENS, ETC. UNLESS NOTED OTHERWISE (U.N.O.).

DRAWINGS :

1. PLANS, SECTIONS, AND ELEVATIONS INDICATE SPECIFIC INFORMATION. SEE TYPICAL MOUNTING HEIGHTS, PARTITION DETAILS, DOOR DETAILS, CASEWORK TYPES AND DETAILS, TOP TYPES, SHELF TYPES, NOTES AND TYPICAL DETAILS FOR TYPICAL INFORMATION, INSTALLATION AND CONSTRUCTION UNLESS INDICATED OTHERWISE. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE (U.N.O.)

VERIFY CONDITIONS :

1. VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. VERIFY ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS. IN THE EVENT OF DISCREPANCY, NOTIFY THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT.

COORDINATION :

1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ENTIRE PROJECT INCLUDING ALL BUILDING ELEMENTS, SITE, EQUIPMENT, FITTINGS, FIXTURES, FURNITURE, MECH. AND ELEC. ITEMS.

2. VERIFY AND COORDINATE THE FOLLOWING W/ THE RESPECTIVE DISCIPLINES AND TRADES:
2A. VERIFY ALL EXISTING CONDITIONS, SIZES AND LOCATIONS OF MECH. AND/OR ELEC. PENETRATIONS PRIOR TO COMMENCEMENT OF ANY WORK.
2B. LOCATIONS FOR BACKING/BLOCKING REQUIRED FOR MOUNTING ARCH, MECH. AND/OR ELEC. EQUIPMENT, OWNER FURNISHED EQUIPMENT, FURNITURE, ARTWORK AND SYSTEMS.
2C. CUTTING AND PATCHING FOR WORK REQUIRED BY MECH. AND/OR ELEC.
2D. SIZES AND LOCATIONS OF MECH. AND/OR ELEC. CONCRETE CURBS AND HOUSE KEEPING PADS. SEE ALSO TYPICAL INTERIOR CONCRETE DETAILS U.N.O.
2E. SIZES AND LOCATIONS OF MECH AND/OR ELEC. EXTERIOR WALL, CEILING AND ROOF EQUIPMENT, DEVICES AND PENETRATIONS.

LIFE SAFETY :

1. LIFE SAFETY PLANS INDICATES FIRE AND SMOKE RATED PARTITIONS. SEE LIFE SAFETY PLANS FOR PARTITION RATING AND FLOOR PLANS FOR PARTITION TYPES AND CONSTRUCTION.

2. ALL SLEEVES, OPENINGS, PENETRATIONS, ETC. FOR CONDUITS, CABLE TRAYS, PIPES AND DUCTS, ETC. THROUGH RATED PARTITIONS, FLOORS AND ROOF SLABS ARE TO BE FIRE STOPPED IN ACCORDANCE W/ THE REQUIRED FIRE RATED ASSEMBLY DESIGN, APPLICABLE CODES AND LOCAL FIRE AUTHORITY REQUIREMENTS. SEE "HILTI" FIRE STOPPING SPECIFICATIONS FOR CORRECT APPLICATION.

3. ALL FIRE EXITS SHALL BE KEPT CLEAR AND ACCESSIBLE AT ALL TIMES.

SPRINKLER SYSTEM : (When Applicable)

1. SPRINKLER HEADS SHOWN ON THE RCPS ARE THOSE OF DESIGN CONCERN. ALL AREAS ARE REQUIRED TO BE SPRINKLERED. SPRINKLER HEADS AT GYPSUM BOARD CEILINGS MUST BE FULLY RECESSED AND COVERED W/ METAL PLATES FINISHED TO MATCH ADJACENT SURFACE.

ROOM OPENINGS :

1. FLOOR PLANS INDICATE ROOM OPENING NUMBERS FOR DOOR AND BORROWED LIGHT FRAME TYPES, FRAME PROFILES, NOTES AND TYPICAL DETAILS. SEE DOOR SCHEDULE.

2. LOCATE DOORS AND OTHER OPENINGS IN PARTITIONS ADJACENT TO PERPENDICULAR WALLS. MAINTAIN MINIMUM ACCESSIBILITY DOOR LATCH SIDE CLEARANCE REQUIREMENTS, PUSH SIDE 12" MIN. 4'-0" DEEP IF DOOR IS PROVIDED W/ A CLOSER AND PULL SIDE 1'-6" MIN. 4'-0" DEEP IF DOOR IS PROVIDED W/ A CLOSER.

CASEWORK AND MILLWORK :

1. CASEWORK TYPES, TOP TYPES, SHELF TYPES, NOTES AND SPECIFIC DETAILS ARE AS SHOWN ON PLANS AND INTERIOR ELEVATIONS, TYPES, UNDERCOUNTER TASK LIGHTING, SUPPORT BRACKET TYPES, COUNTER TOP CORNER, GROMMETS, GYP. BD./ PLAM SOFFIT TYPES, NOTES AND DETAILS, ROOM FINISHES SCHEDULE AND/OR FINISHES PLANS.

2. CASEWORK FINISHES, SEE ROOM FINISHES SCHEDULE AND NOTES.

ROOM FINISHES :

1. FINISHES ARE INDICATED IN THE FINISH SCHEDULE AND/OR FINISH PLANS.
SEE TYPICAL FINISH TRANSITION DETAILS.

FLOOR DRAINS :

1. SET FLOOR DRAINS AND FLOOR SINKS W/ TOP OF FINISH TILE/ POURED FLOOR. SEE PLUMBING DRAWINGS FOR LOCATIONS

2. SLOPE CONCRETE FLOOR AT 1/8" PER FOOT TOWARDS FLOOR DRAINS AND AWAY FROM ALL WALLS.

FURNITURE, EQUIPMENT, FIXTURES AND ACCESSORIES

1. FURNITURE, EQUIPMENT, FITTING, FIXTURES AND ACCESSORIES INSTALLATION SHALL BE IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS AND THE TYPICAL MOUNTING HEIGHTS.

CURBS AND PADS :

1. CONCRETE CURBS AND PADS FOR EQUIPMENT. LOCATIONS MAY BE NOTED ON THE ARCHITECTURAL DRAWINGS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SPECIFIC SIZE AND CONFIGURATION OF THEIR EQUIPMENT.

PARTITIONS :

1. PLAN DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CMU PARTITIONS EXCLUDING DIRECTLY APPLIED FINISH MATERIAL SUCH AS GYP.BD. AND CERAMIC TILE UNLESS NOTED OTHERWISE (U.N.O.)

2. ALIGN PARTITIONS W/ FACE OF OTHER PARTITIONS OR COLUMNS, UNLESS NOTED OTHERWISE. THE FACE OF EVERY PARTITION SHALL BE FLUSH W/OUT OFFSETS. CHANGES IN PARTITION THICKNESS SHALL OCCUR AT CORNERS, PARTITION INTERSECTIONS OR OTHER FEATURES WHICH INTERRUPT THE PLANE OF THE PARTITION. FACE OF CORRIDOR PARTITIONS SHALL BE FLUSH FOR THE ENTIRE LENGTH OF THE CORRIDOR REGARDLESS OF CHANGES IN PARTITION THICKNESS, ALL ADJUSTMENTS SHALL BE MADE TO THE ROOM SIDE OF THE CORRIDOR PARTITION AND AT CORNERS.

WALL BLOCKING AND ANCHORAGE :

1. PROVIDE PLYWOOD WALL BLOCKING WHERE ARTWORK, MARKER-BOARDS (MBD) AND TACK-BOARDS (TBD) ARE SHOWN. EXTENT OF BLOCKING TO MATCH SIZE OF ARTWORK, MARKER-BOARDS (MBD) AND TACK-BOARDS (TBD). SEE PARTITION BLOCKING DETAILS.

2. PROVIDE WALL BLOCKING FOR FURNITURE, EQUIPMENT, FITTINGS, FIXTURES AND ACCESSORIES IN ACCORDANCE W/ MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS. SEE PARTITION BLOCKING DETAILS. DESIGN LOAD FOR FITTINGS AND FIXTURES MUST INCLUDED MIN, 250 LB VERTICAL AND HORIZONTAL FORCES.

WALL PROTECTION :

1. CORNER GUARDS AND OTHER WALL PROTECTION TYPES AS INDICATED ON THE DRAWINGS.

2. CORNER GUARDS ARE MOUNTED ABOVE FLOOR FINISH BASE AND UP TO UNDERSIDE OF CEILING OR CEILING BULKHEAD, WHICH EVER IS APPLICABLE.

3. FOR INSTALLATION OF CORNER GUARDS, WALL PROTECTION, HANDRAILS, CRASH RAILS, ETC, SEE MANUFACTURERS INSTRUCTIONS.

CEILINGS :

1. CEILING HEIGHT SHALL BE MIN. 7'-6" IN ALL HABITABLE ROOMS, LOBBIES, CORRIDORS, PASSAGES, ETC. ABOVE FLOOR LEVEL UNLESS OTHERWISE NOTED. SEE ALSO REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULE.

2. COORDINATE AND VERIFY ALL CEILING ACCESS PANEL SIZES AND LOCATIONS W/ MECH. AND ELEC. CONTRACTORS. PROVIDE FLUSH ACCESS PANELS AT ALL EQUIPMENT, VALVES, DAMPERS, CONTROLS, CLEANOUTS, ETC. PAINT TO MATCH CEILING FINISH.

3. CENTER CEILING GRID IN ROOM UNLESS NOTED OTHERWISE.

4. CENTER SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, AND OTHER RECESSED OR SURFACE MOUNTED ITEMS IN CEILING TILES UNLESS NOTED OTHERWISE (U.N.O.).

DEFINITIONS:

WHERE ADDITIONAL ABBREVIATIONS, OR WORD DEFINITIONS, ARE DEFINED BY ANOTHER DISCIPLINE AND A CONFLICT OCCURS, THEIR DEFINITION SHALL TAKE PRECEDENCE OVER THE FOLLOWING:

NECESSARY: WORK NEEDED TO COMPLETE THE WORK. TO: "MAKE IT OPERATIONAL".

REQUIRED: WORK NEEDED TO BE IN COMPLIANCE WITH BUILDING CODE, GOVERNING CODE, OR JURISDICTION HAVING AUTHORITY.

PROVIDE: RESPONSIBLE FOR PURCHASE, DELIVERY, RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEM(S).

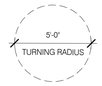
FURNISH: RESPONSIBLE FOR PURCHASE AND DELIVERY OF ITEM(S)

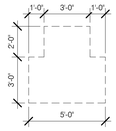
INSTALL: RESPONSIBLE FOR RECEIVING, INSPECTION, STORAGE, PREPARATION AND INSTALLATION OF ITEM(S).

ADA SYMBOLOGY LEGEND:

THESE CODE REQUIRED CLEARANCE MUST BE MET.

CLEAR FLOOR SPACE

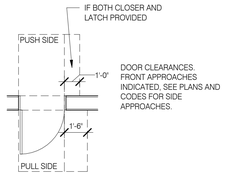




PHYSICAL ACCESSIBLE DESIGNATED ROOM.

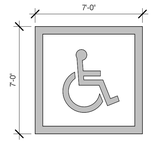
HEARING ACCESSIBLE DESIGNATED ROOM WITH COMMUNICATION ELEMENTS AND FEATURES.

DOOR CLEARANCES



DOOR CLEARANCES. FRONT APPROACHES INDICATED, SEE PLANS AND CODES FOR SIDE APPROACHES.

HANDICAP PARKING SYMBOL

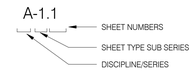


NOTES:
1. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND. USE WHITE ON BLUE (COLOR #105090 IN FEDERAL STANDARD 5952) DOUBLE COAT.

ABBREVIATIONS:

A.B.	Anchor Bolt	F.A.	Fire Alarm	PART	Particle, Partial or Partition
A/C	Air Conditioning	FD. or F.D.	Floor Drain	PL	Plate
ACC.	Accessible/Accessibility	FDN.	Foundation	P. LAM or P.L.	Plastic Laminate
ACOUST.	Acoustical	F.E.	Fire Extinguisher	PLAS.	Plaster
ADJ.	Adjacent	F.E.C.	Fire Extinguisher	PLBG.	Plumbing
AFF or A.F.F.	Above Finish Floor	FIN.	Finish	PLWD. or PLYWD.	Plywood
AFG or A.F.G	Above Finish Grade	FLR.	Floor	PNL.	Panel
ALUM.	Aluminium	FLUOR.	Fluorescent	PORC.	Porcelain
ANGL.	Angle	FRM.	Frame	PR.	Pair
APPROX.	Approximate	F.R.	Fire Resistant	P.S.F.	Pounds per Square Foot
ARCH.	Architect(ural)	F.R.C.	Fiber reinforced concrete	P.T.	Pressure Treated
ASPH.	Asphalt	F.R.T.	Fire Retardant Treated	POST TEN.	Post Tensioned
ATTN.	Attention	F.R.P.	Fiber Reinforced Plastic	PTN. or PARTN.	Partition
		FT.	Foot (feet)	PWR.	Power
B/O	Bottom of	FTG.	Footing		
BD.	Board	FUT. or FUTR.	Future	R	Riser
BIT.	Bituminous	FV. or F.V.	Field Verify	R.A.	Return Air
BLDG.	Building			RAD.	Radius
BLK.	Block	Ga.	Gauge	RD	Roof Drain
BLKG.	Blocking	GALV.	Galvanized	REC.	Recessed
BM.	Beam	G.B.	Gypsum Board	RECV or REC'VD	Receive or Received
BOT	Bottom	GEN.	General	RE	Refer or Referenced
BRG.	Bearing	GFRC	Glass Fiber Reinforced Concrete	REF.	Refrigerator
BRK.	Brick	GFRG	Glass Fiber Reinforced	REG.	Regular or Register
BRKMTL.	Break Metal	GL.	Glass	REINF.	Reinforce
B.U.R.	Built-Up Roofing	GLAZ.	Glazing	REQ'D	Required
		GRAN.	Granular	REQ'S	Requirements
C or CH.	Channel	G.S.M.	Galvanized Sheet Metal	RES.	Resilient
C.F.	Communication Features	G.V.	Gas Valve	RM.	Room
CAB.	Cabinet	GYP.	Gypsum	R.O.	Rough Opening
CB or C.B.	Cement Board	GYP. BD.	Gypsum Board		
C/C or C.C.	Center to Center			SCHED.	Schedule
CCTV or C.C.T.V.	Closed Circut Television	HC. or H.C.	Handicapped	SECT.	Section
Cer.	Ceramic	H.B.	Hose Bib	SF or S.F.	Square Feet
CFS	Clear Floor Space	HDWD.	Hardwood Floors	SIM.	Similar
CFSF	Cold Form Steel Framing	HDWR.	Hardware	SM. or S.M.	Surface Mounted
CL or C.L. or	Centerline	HM. OR H.M.	Hollow Metal	SPEC.	Specification
CLG. or CLNG.	Ceiling	HORIZ.	Horizontal	SQ.	Square
CMU or C.M.U.	Concrete Masonry Unit	H.P.	High Point	SS OR S.S.	Stainless Steel
C.O.	Closed Opening	HSS	Hollow Structural Section	STD.	Standard
COL.	Column	HT.	Height	ST.	Steel
COMB.	Combination or Combine	HTG.	Heating	STOR.	Storage
COMP.	Compact(ed)	HR. or Hr.	Hour	STR.	Structural
CONC.	Concrete	HVAC	Heating, Ventilation and A/C	SUSP.	Suspended
CONST.	Construction	H.W.	Hot water	SYM.	Symmetrical
CONT.	Continuous				
CORR.	Corridor	ID.	Inside Diameter	TEL.	Telephone
C.W.	Cold Water	IN.	Inch(es)	TEMP.	Temporary or Tempered
CJ or C.J.	Control Joint	INCL.	Include	T&B	Top and Bottom
CLR.	Clear	INSUL.	Insulation	T&G	Tongue and Groove
		INT.	Interior	THRU	Through
DN.	Down	INV.	Invert	TS or T.S.	Tube Steel
DBL.	Double			TV OR T.V.	Television
DEPT.	Department	JC or J.C.	Janitor's Closet	TYP.	Typical
DETL.	Detail	JAN.	Janitor(ial)		
DIA. or Ø	Diameter	JT. or JNT.	Joint	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain			UR. or URNL.	Urinal
DIV.	Division	KIT.	Kitchen		
DR. or DRN.	Drain	K.O.	Knock out	VAR.	Varies/ Variable
DS. or D.S.	Downspout			VCT or V.C.T.	Vinyl Composition Tile
DWG(S).	Drawing(s)	LAV.	Lavatory	VB.	Vertical Bracing
		LAM.	Laminate	VERT.	Vertical
EA.	Each	LB. or LBS.	Pound(s)	VIF. or V.I.F.	Verify in Field
EJ or EJ. or E.J.	Expansion Joint	LGMF	Light Gauge Metal Framing		
ELEV.	Elevation	LT. WT.	Light Weight	W/	With
ELEC. or ELECT	Electrical	L.L.H or LLH	Long Leg Horizontal	W/O	Without
ELE.	Elevator	L.L.V. or LLV	Long Leg Vertical	WD.	Wood
EMER. or EMERG.	Emergency			WF.	Wide Flange
ENCL.	Enclosure	MAS.	Masonry	W.O.	Work Order
ENG.	Engineer	MAX.	Maximum	WIN	Window
EP or E.P.	Electrical Panel	MED.	Medium		
EQ.	Equal	MDO or M.D.O.	Medium Density Overlay		
EQUIP.	Equipment	MECH.	Mechanical		
EWC or E.W.C.	Electrical Water Cooler	OPNG.	Opening		
E.W.	Each Way	OPP.	Opposite		
EX.	Existing				
EXP.	Expansion				
EXT.	Exterior				

PLAN SYMBOLOGY LEGEND:

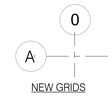


SHEET/DRAWING NUMBERS

DISCIPLINE/SERIES
A = ARCHITECTURAL
AE= AS-EXISTING
C = CIVIL
E = ELECTRICAL
G= GENERAL
M= HVAC
L = LANDSCAPE
LS= LIFE SAFETY
P = PLUMBING
S = STRUCTURAL

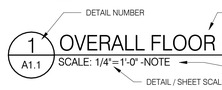
SHEET TYPE SUB SERIES (ARCHITECTURAL)
A = ARCHITECTURAL PLANS, SECTIONS AND ELEVATIONS
1 = FLOOR PLANS
2 = EXTERIOR ELEVATIONS
3 = BUILDING SECTIONS
4 = ENLARGED ROOM DETAILS
5 = SCHEDULES & DETAILS
6 = REFLECTED CEILING
7 = FINISHES

NORTH ARROW



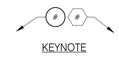
NEW GRIDS

EXISTING GRIDS



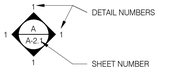
PLAN, ELEVATION, SECTION OR DETAIL TITLE

GRAPHIC SCALE



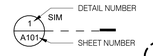
KEYNOTE

EXTERIOR ELEVATION REFERENCE

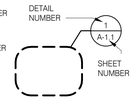


INTERIOR ELEVATION REFERENCE

SECTION REFERENCE



DETAIL REFERENCE



CALLOUT REFERENCE

ROOM NAME
S.F.

ROOM NAME, NUMBER & AREA

WINDOW TAG

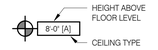
CURTAINWALL TAG

CASEWORK TAG

ROOM FINISH TAG

DOOR/OPENING TAG

ALIGN FACE OF OBJECTS/SURFACES



CEILING TAG

WALL TAG

LEVEL NAME
EL 0'-0"

FLOOR ELEVATION

MATCHLINE REFERENCE

REVISION TAG

MATERIAL PATTERNS:

CONCRETE

EARTH (UNDISTURBED)

EARTH (DISTURBED)

METAL

WOOD

CMU

RIGID INSULATION

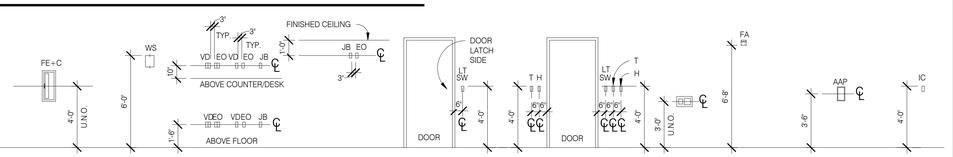
BATT INSULATION

GRAVEL / SUB-BASE

SAND / GROUT

GYPSUM BOARD / PLASTER

TYPICAL MOUNTING HEIGHTS AND LOCATIONS:



DESCRIPTION	F.E. +C	WALL SCONCE	ELECT/COMM OUTLETS	CCTV CAMERA OUTLETS	LIGHT SWITCH	THERMOSTAT/HUMIDISTAT	CARD READER	FIRE ALARM	ALARM ANNUNCIATOR PANEL	INTERCOM
NOTES :	PORTABLE FIRE EXTINGUISHER - U.L. LABELED MIN. 4A-80BC 10LB RATED - WALL MTD. W/ HANDLE @ 48" A.F.F. - F.E.+C = W/ RECESSED WALL CABINET	FIXTURES CAN NOT PROJECT INTO CORRIDOR MORE THAN 4"	MOUNT HEIGHTS SHOWN FOR ABOVE FLOOR AND ABOVE COUNTER UNO., REFER TO ELEVATIONS FOR LOCATIONS. - CENTERLINE AT 18" A.F.F.		AT DOOR LOCATION - 48" MAX. TOP OF DEVICE	WALL MOUNTED AT DOOR LOCATION	REFER ELECTRICAL AND COMMUNICATION DRAWINGS.	MIN. MOUNTING HEIGHT. MAX. DIM. TO TOP OF FIXTURE 8'-0".		

JHA
SURVEYING
ENGINEERING
ENVIRONMENTAL
ARCHITECTURE

PA - NY - OH - WV
3939 Birney Ave
Moosic, Pennsylvania 18507
844-542-4757

Rev #	Revision Description	Date

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City, ST 00000
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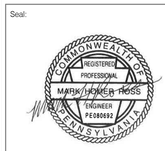
Seal:



Project Notes:

Project Notes

South Perkasie Covered Bridge
10466 Sunnyside Rd SE Box 70
Jefferson, OR 97352
Attn:Client Contact: Kim W. King

Project Location:
149 W Walnut St,
Perkasie, PA 18944

Bridge Abutment Design

Sheet Title:

CODE COMPLICANCE REVIEW/ PROJECT INFO.

Project No:	2025-0305
Sheet Issue Date:	06/19/2025
Project Issue Date:	03/18/2025
Checked By:	MHR
Plan Status:	FOR BIDDING

G-1.1

Scale: As Indicated

GENERAL PROJECT INFORMATION

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. THE REACTION LOADS USED TO DESIGN THE BRIDGE FOUNDATIONS INCLUDED IN THE FOLLOWING DRAWINGS WERE CALCULATED BY THE BRIDGE REHABILITATION ENGINEER AND PROVIDED TO JHA COMPANIES.
2. ALL DETAILS MARKED "TYPICAL" IN THE SET OF STRUCTURAL DRAWINGS SHALL BE APPLIED THROUGHOUT THE PROJECT AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR QUANTITY AND LOCATION WHERE THE "TYPICAL" DETAILS APPLY.
3. FAILURE ON THE PART OF THE CONTRACTOR TO REVIEW THE STRUCTURAL DRAWINGS TOGETHER WITH THE FULL EXTENT OF THE PROJECT SPECIFICATIONS DOES NOT RELIEVE THEM OF THE RESPONSIBILITY TO FURNISH AND INSTALL ITEMS THAT ARE PART OF THEIR WORK AS INDICATED BY THE STRUCTURAL DRAWINGS. ALL STRUCTURAL TRADE CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM EXCLUDING STRUCTURAL WORK FROM THEIR CONTRACT NOT SHOWN IN THE STRUCTURAL DRAWINGS.
4. THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE NOT ISSUED FOR BID OR CONSTRUCTION UNLESS THE INDIVIDUAL SHEETS ARE IDENTIFIED AS 'ISSUED FOR BID' OR 'ISSUED FOR CONSTRUCTION.'

EXISTING CONDITIONS

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. DIMENSIONS AND ELEVATIONS OF EXISTING CONDITIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED ON LIMITED AVAILABLE INFORMATION CONTAINED IN EITHER VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS OR FIELD SURVEY. ACTUAL FIELD CONDITIONS NEED TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BY ACTUAL MEASUREMENT PRIOR TO BEGINNING WORK. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH THE PROJECT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL UNFORESEEN AND DEVIATING CONDITIONS

SITE PREPARATION GENERAL NOTES

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. THE SURFACE OF THE EXPOSED SUB-GRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AND REPLACE WITH LOAD BEARING FILL OR LEAN CONCRETE (2,000 PSI)
2. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8 INCH (8 ") MAXIMUM LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.
3. ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NO MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE (CLASSIFIED AS SC, SM, SP OR BETTER IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM) AND WITH A PLASTICITY INDEX NOT EXCEEDING 6%.
4. EXCAVATIONS SHALL BE KEPT DRY BY PUMPING UNTIL UNDERGROUND CONSTRUCTION IS COMPLETE.
5. LOOSENED BEARING SOILS SHALL BE RE-COMPACTED WITH A SMALL VIBRATORY PLATE COMPACTOR PRIOR TO PLACEMENT OF REINFORCING BARS.
6. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. ALL SOFTENED OR OTHERWISE UNSUITABLE BEARING MATERIALS SHALL BE REMOVED AND REPLACED WITH LOAD-BEARING FILL OR WITH LEAN CONCRETE (2,000 PSI).
7. THE CONTRACTOR SHALL LAYOUT THE ENTIRE BRIDGE FOUNDATION AND FIELD VERIFY ALL DIMENSIONS PRIOR TO EXCAVATION.

CAST-IN-PLACE CONCRETE GENERAL NOTES

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 318-19(22).
2. UNLESS OTHERWISE INDICATED, ALL CAST-IN-PLACE CONCRETE SHALL DEVELOP A STRENGTH OF 4,000 PSI AT 28 DAYS.
3. CONCRETE MIXTURES SHALL MEET THE FOLLOWING CRITERIA:
   A. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO 0.50.
   B. SLUMP LIMIT:
   C. FOOTINGS, FOUNDATIONS & GRADE BEAMS; 4" TO 8" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4" BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1".
   D. SLABS-ON-GRADE: 4" PLUS OR MINUS 1".
      - SUSPENDED SLABS, BEAMS, COLUMNS AND WALLS: 4" TO 8" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4" BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1".
   E. AIR CONTENT:
      - FOOTINGS, FOUNDATIONS & GRADE BEAMS: 6%, PLUS OR MINUS 1.5% AT POINT OF DELIVERY.
      - SLABS-ON-GRADE: DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%.
      - BEAMS, COLUMNS, AND WALLS: 6%, PLUS OR MINUS 1.5% AT POINT OF DELIVERY.
      - SUSPENDED SLABS: DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%.
      - REINFORCEMENT SHALL BE DEFORMED BARS ASTM DESIGNATION A-615, GRADE 60.
4. CONCRETE COVER PROTECTION FOR REINFORCEMENT SHALL CONFORM TO ACI 318-14 SPECIFICATION OR AS FOLLOWS: MORE STRINGENT APPLIES:
   - CONCRETE CAST AGAINST EARTH AND PERMANENTLEY EXPOSED - 3"
   - CONCRETE EXPOSED TO EARTH OR WEATHER #6 OR LARGER ------- 2"
   - #5 OR SMALLER ---------- 1 1/2"
   - CONCRETE NOT EXPOSED TO EARTH OR WEATHER ----------
   - SLABS, WALLLS, AND JOISTS ---------- 3/4"
   - BEAMS AND COLUMNS ---------- 1 1/2"
5. TEMPERATURE REINFORCING SHALL BE SUFFICIENTLY EMBEDDED TO DEVELOP FULL STRENGTH IN CONCRETE WALLS AND SLABS.
6. ALL REINFORCING SHALL BE LAPPED WITH AN ACI 318-14 CLASS B SPLICE, AND BE EMBEDDED A MINIMUM OF 32 BAR DIAMETERS, UNLESS OTHERWISE NOTED.
7. PROVIDE ADEQUATE TIES FOR REINFORCEMENT IN SLABS, BEAMS, PIERS, AND WALLS. REINFORCEMENT TO BE HELD AT CORRECT DISTANCE FROM FORMS AND EARTH BY STEEL CHAIRS OR TIES.
8. FOLLOW C.R.S.I. RULES FOR PLACING OF REINFORCING STEEL AND ACCESSORIES.
9. INTERIOR CONCRETE TO RECEIVE A STEEL TROWEL FINISH. EXTERIOR CONCRETE TO RECEIVE A BROOM FINISH.
10. NO CONCRETE SHALL BE CAST UNTIL THE PRELIMINARY TESTS REQUIRED HAVE BEEN MADE, REPORTS THEREOF FILED WITH THE E.O.R., AND APPROVED THE CONTROLLED CONCRETE TO BE USED SHALL CONFORM TO THE APPROVED DESIGN MIX OBTAINED AS A RESULT OF HE PRELIMINARY TESTS THE USE OF ANY ADDITIVES NOT PRESENT IN THE PRELIMINARY TEST MIX IS PROHIBITED.
11. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS THAT COMPLIES WITH ASTM C-94/C-94M REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.
12. REPRESENTATIVE TEST CYLINDERS WILL BE TAKEN FROM THE CONCRETE PLACED EACH DAY IN ACCORDANCE WITH CONCRETE SPECIFICATIONS, TESTING, AND INSPECTION.
13. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, QUALIFIED ACCORDING TO ASTM C-1077 AND ASTM E-329 FOR TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E-548.
14. WELDED WIRE FABRIC SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI AND SHALL CONFORM TO ASTM A-185 AND A-497.
15. WELDED WIRE MESH/WELDED WIRE FABRIC (WWF) SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN THE OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS TWO INCHES (2 "), UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
16. THIS CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND, WHERE REQUIRED, INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC., AS REQUIRED FOR A COMPLETE JOB.
17. STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS SUCH AS A DAY'S POUR JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS, OR IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY, AND ROUGHEN JOINTS TO EXPOSE AGGREGATE FOR CHEMICAL BOND.
18. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS, WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
19. STRUCTURAL SLABS-ON-GRADE SHALL BE OF A THICKNESS AND REINFORCED AS INDICATED ON DRAWINGS.
20. SLABS-ON-GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, TRENCH DRAINS, FLOOR DRAINS, ETC., AS REQUIRED OR AS SHOWN HEREIN OR ON ENGINEERURAL AND PLUMBING DRAWINGS.
21. LOCATION OF CUTOFF POINTS FOR CONCRETE BEAM REINFORCEMENT SHALL BE AS SHOWN ON TYPICAL DETAILS.
22. PROVIDE 100% CONTINUITY OVER SUPPORTS FOR CONTINUOUS SLABS AND BEAMS.
23. PROVIDE TWO (2) #5 BARS AT RE-ENTRANT CORNERS AND AROUND OPENINGS IN ANY CONCRETE WALL, BEAM, SLAB, GRADE BEAM, FOOTING OR MASONRY BEARING WALL.
24. PROVIDE POCKETS IN WALLS FOR COLUMNS, BEAMS, AND SLABS.
25. IN ANY APPROVED CONSTRUCTION JOINT, PROVIDE KEYS AS FOLLOWS:
   - WALLS OR SLABS 6" OR LESS IN THICKNESS --- 3/4" DEEP BY 1 1/2" HIGH
   - WALLS OR SLABS 8" TO 12" THICK ---------- 3/4" DEEP BY 2" HIGH
   - STRIP FOOTINGS ---------- 1 1/2" DEEP BY 3 1/2" HIGH
26. TOP AND BOTTOM OF KEYS SHALL BE TAPERED 10 DEGREES. CONSTRUCTION JOINTS FOR POURED CONCRETE SHALL BE SPACED AT NO GREATER THAN 15' CENTER TO CENTER. REINFORCING IN STRIP FOOTINGS SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS.
27. ALL CONCRETE SLABS SHALL BE SAW CUT AS SOON AS THE CONCRETE WILL SUPPORT THE SAWING EQUIPMENT AND DOES NOT RAVEL DURING THE SAWING OPERATION. ALL SAW CUTTING SHALL BE DONE THE SAME DAY THE CONCRETE IS PLACED. SAW CUTS SHALL BE 1/8" WIDE WITH DEPTHS OF AT LEAST 25% OF THE SLAB THICKNESS. JOINTING PATTERN SHALL BE AS SHOWN ON DRAWINGS OR IN A SQUARE PATTERN WITH MAXIMUM SPACING(S) OF 15' FOR 6" SLABS OR 10' FOR 4" SLABS.
28. ALL CONCRETE FLAT WORK SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF SEVEN DAYS AFTER PLACING. CURING SHEETS SHALL BE USED AND ARE TO REMAIN IN PLACE DURING THIS PERIOD. CURING COMPOUND MAY BE USED ON VERTICAL SURFACES ONLY, AND MUST BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
29. THE USE OF FLY ASH IS PERMITTED WHEN USED IN ACCORDANCE WITH ACI DOCUMENT 232.2R-96, "USE OF FLY ASH IN CONCRETE," LIMITED TO 15% MAX CONTENT THE PERMISSIBLE TYPE OF FLY ASH: STRICTLY LIMITED TO TYPE 'C' AND TYPE 'F'.
30. ALL JOINTS AND CRACKS SHALL BE CONSTRUCTED WEATHER TIGHT BY CAULKING AND SEALING. USE DOW CORNING "790 SILICONE BUILDING SEALANT" OR GENERAL ELECTRIC "GE ELEMAX " SEALANT. COLORS SHALL MATCH THE COLOR OF THE ADJACENT MATERIALS.
31. CONCRETE SHALL BE COMPOSED OF TYPE I PORTLAND CEMENT CONFORMING TO ASTM C-150, FINE AND COARSE AGGREGATES CONFORMING TO ASTM C-33, AND MIXING WATER FREE OF OIL, ACID, OR INJURIOUS AMOUNTS OF ALKALIS AND OTHER SALTS. POLAR SET NON-CORROSIVE, NON-CHLORIDE, SET ACCELERATING ADMIXTURE, CONFORMING TO ASTM C-494 TYPE A, BUT ITS USE SHALL NOT RELAX THE MAXIMUM ALLOWABLE SLUMP NOTED HEREIN. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C-260.
32. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C-39/C-39M. THE TESTING LABORATORY SHALL MAKE (4) 6-INCH (6 ") DIAMETERS BY 12-INCH (12 ") HIGH TEST CYLINDERS FROM EACH 40 CUBIC YARDS OR FRACTION THEREOF OF CONCRETE AND FOR EACH TYPE OR CLASS OF CONCRETE AS IT IS CAST IN ANY ONE DAY. THE TESTING LABORATORY SHALL BE RESPONSIBLE FOR THE MAKING AND CURING OF TEST CYLINDERS IN STRICT ACCORDANCE WITH ASTM C-31.
33. OF THE AFORMENTIOND FOUR (4) CYLINDERS MADE FROM EACH 40 CUBIC YARDS OF CONCRETE, ONE WILL BE TESTED AT AN AGE OF SEVEN (7) DAYS, TWO AT AN AGE OF TWENTY-EIGHT (28) DAYS, AND ONE RETAINED AS A SPARE. EACH TEST REPORT SHALL BE SUBMITTED TO THE OWNER BY THE TESTING LABORATORY IN TRIPLICATE AND WILL INCLUDE THE FOLLOWING INFORMTATION:
   a. DATE SAMPLE WAS MADE
   b. LOCATION OF CONCRETE PLACEMENT FROM WHICH TEST SAMPLE WAS MADE.
   c. DATE OF SAMPLE TESTING.
   d. SLUMP AND AIR CONTENT OF CONCRETE AS PLACED.
   e. MIX PROPORTIONS.
   f. ADMIXTURE CONTENT.
   g. DENSITY OF CONCRETE.
   h. DESCRIPTION OF BREAK.
   i. CONCRETE STRENGTH SPECIFIED.

CAST-IN-PLACE CONCRETE GENERAL NOTES (CON'T.)

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

36. ALL WORK DIRECTLY RELATED TO, AND ASSOCIATED WITH, THE PLACEMENT OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301-20 "SPECIFICATION FOR STRUCTURAL CONCRETE".
37. ALL CONCRETE WORK SHALL BE FREE OF THE FORMATION OF LAITANCE, COLD JOINTS, VOIDS, AND SURFACE DEFECTS. CONCRETE FINISHES SHALL BE AS DEFINED BY ACI 301-99 "SPECIFICATION FOR STRUCTURAL CONCRETE", AND SHALL BE APPLIED AS FOLLOWS:
   a. VERTICAL EXPOSED FORMED SURFACES: SMOOTH FORM FINISH
   b. HORIZONTAL SURFACES:
      - ALL SERVICE/PARTS AREA FLOORS: STEEL TROWEL FINISH
      - OFFICE AREA FLOOR: STEEL TROWEL FINISH
      - RAMPS (INTERIOR & EXTERIOR): BROOM FINISH
      - EXTERIOR SLABS: BROOM FINISH
38. THE USE OF A WATER-REDUCING PLASTICIZING ADMIXTURE TO INCREASE THE WORKABILITY OF THE CONCRETE IS PERMITTED. USE PLASTOL 5000, BY THE EUCLID CHEMICAL COMPANY, OR APPROVED EQUAL. SAID ADMIXTURE WILL BE ADDED DURING THE BATCHING PROCESS IN STRICT COMPLIANCE WITH THE MANUFACTURER'S DIRECTIONS FOR USE.
39. IN ANY APPROVED CONSTRUCTION JOINT, PROVIDE A 2" x 4" KEY AND CLASS B LAP SPLICE (16" MINIMUM) OF REINFORCING, EXCEPT FOR SLABS ON GRADE.
40. COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306-R16 AND AS FOLLOWS - PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
41. HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301 AND AS FOLLOWS; MAINTAIN CONCRETE TEMPERATURE BELOW 90 DEG FEHRENHEIT AT TIME OF PLACEMENT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER. USING LIQUID NITROGEN TO COOL CONCRETE IS CONTRACTOR'S OPTION AT CONTRACTOR 'S RISK.
42. WHEN AIR TEMPERATURE IS BETWEEN 85 DEGREES AND 90 DEGREES FEHRENHEIT, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES. WHEN AIR TEMPERATURE IS ABOVE 90 DEGREES FEHRENHEIT, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
43. FINISHING FORMED SURFACES:
   A. FOR A SMOOTH-FORMED FINISH, USE AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL, ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM OF SEAMS. REPAIR AND PATCH TIE HOLES AND DEFECTS, REMOVE FINS AND OTHER PROJECTIONS THAT EXCEED SPECIFIED LIMITS ON FORMED-SURFACE IRREGULARITIES.
44. CURE CONCRETE ACCORDING TO ACI 308-1, BY THE FOLLOWING METHOD:
   A. FOR A CURING COMPOUND, APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS. RE-COAT AREAS SUBJECTED TO RAINFALL WITHIN THREE HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD. AFTER CURING PERIOD HAS ELAPSED, REMOVE CURING COMPOUND WITHOUT DAMAGING CONCRETE SURFACES BY METHOD RECOMMENDED BY CURING COMPOUND MANUFACTURER UNLESS MANUFACTURER CERTIFIES CURING COMPOUND WILL NOT INTERFERE WITH BONDING OF FLOOR COVERING USED ON PROJECT.

FOUNDATION DESIGN AND CONSTRUCTION CRITERIA

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. THE FOUNDATION FOR THIS STRUCTURE HAS BEEN DESIGNED FOR A 3,000 PSF ASSUMED ALLOWABLE SOIL BEARING PRESSURE AT A BEARING DEPTH OF APPROXIMATELY 42" BELOW EXTERIOR GRADE ELEVATION, WITH APPROPRIATE GROUND INSULATION.
2. MINIMUM DEPTH BELOW GRADE REQUIRED FOR FROST PROTECTION TO BOTTOM OF FOUNDATION = (-3'-5") APPLIES TO ALL FOOTINGS.
3. BACKFILL SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF FOUNDATION WALLS UNTIL THE FINAL ELEVATION IS ACHIEVED.

POST-INSTALLED ANCHOR GENERAL NOTES

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY)

1. ALL POST-INSTALLED ANCHORS SHALL BE FROM THE FOLLOWING APPROVED MANUFACTURERS: HILTI. THE MANUFACTURER, DIAMETER, TYPE, SPACING, ETC. SPECIFIED IN THE SECTIONS AND DETAILS OF THIS PROJECT CONTROL.
2. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY JHA COMPANIES PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.
3. INSTALL ANCHORS PER THE MANUFACTURER 'S INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. DO NOT STRAY FROM STATED DIMENSIONS ON SECTIONS AND DETAILS.
5. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS OTHERWISE NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS. HILTI PS 200 FERROSCAN, HILTI PS 1000 X-SCAN, GPR SCAN, X-RAY, CHIPPING, OR OTHER MEANS MAY ALSO BE USED. DESTRUCTIVE INVESTIGATIVE METHODS MUST BE APPROVED BY THE ENGINEER OF RECORD. REINFORCING BARS SHALL NOT BE CUT WITHOUT THE APPROVAL OF JHA COMPANIES.
6. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-11 D.2.2)/(ACI318-14 17.1.2).

FIELD CONDITION	ANCHOR SYSTEM (OR EQUIVALENT)
ADHESIVE FOR ANCHORING THREADED ROD BARS INTO EXISTING CONCRETE	HDG THREADED ROD (GR. 55 MIN) WITH HAMMER DRILL BIT, HILTI HIT RE 500 V3 SAFESET SYSTEM (ESR-2322) WITH REBAR AND HOLLOW DRILL BIT (ESR-2322) SYSTEM

JHA SURVEYING ENGINEERING ENVIRONMENTAL ARCHITECTURE
PA - NY - OH - WV
3939 Birney Ave
Moosic, Pennsylvania 18507
844-542-4757

Rev #	Revision Description	Date

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Consultant 2 Name
Consultant 1 Contact
123 Consultant Address
City, ST 00000
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Seal:

Project Notes:

Project Notes

South Perkasie Covered Bridge

10466 Sunnyside Rd SE Box 70
Jefferson, OR 97352
Attn:Client Contact: Kim W. King

Project Location:
149 W Walnut St,
Perkasie, PA 18944

Bridge Abutment Design

Sheet Title:

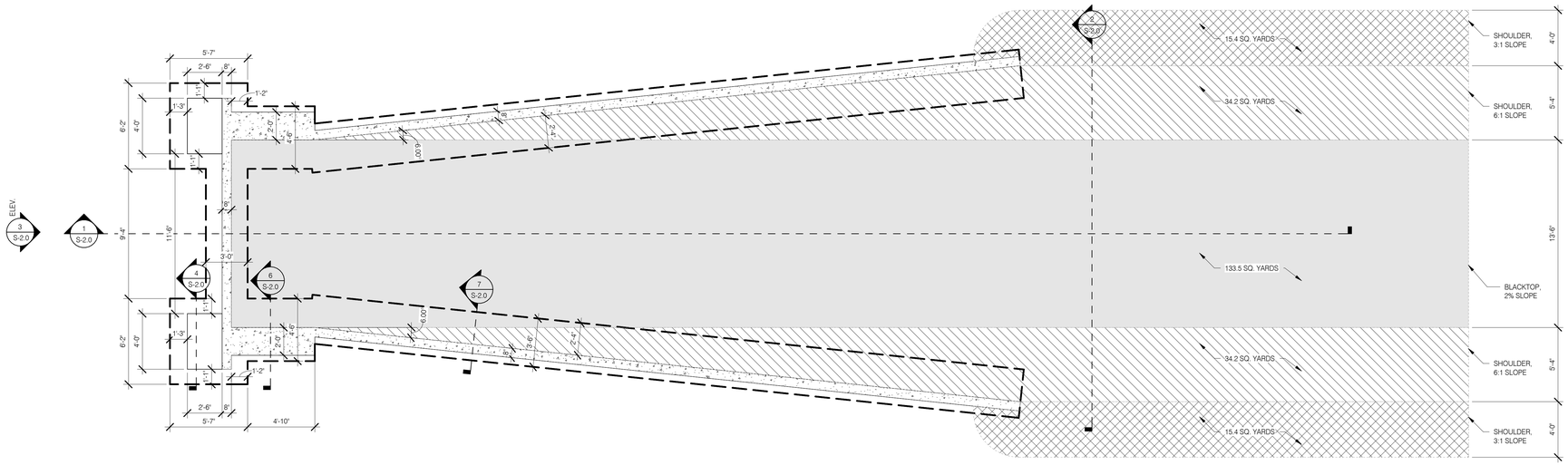
GENERAL STRUCTURAL NOTES

Project No:	2025-0305
Sheet Issue Date:	06/19/2025
Project Issue Date:	03/18/2025
Checked By:	MHR
Plan Status:	FOR BIDDING

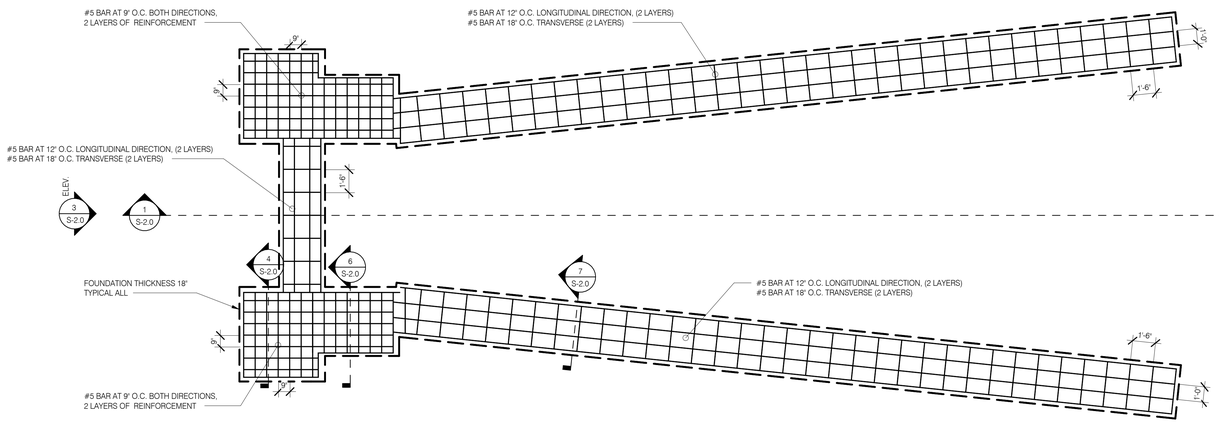
S-0.1

Scale: As Indicated

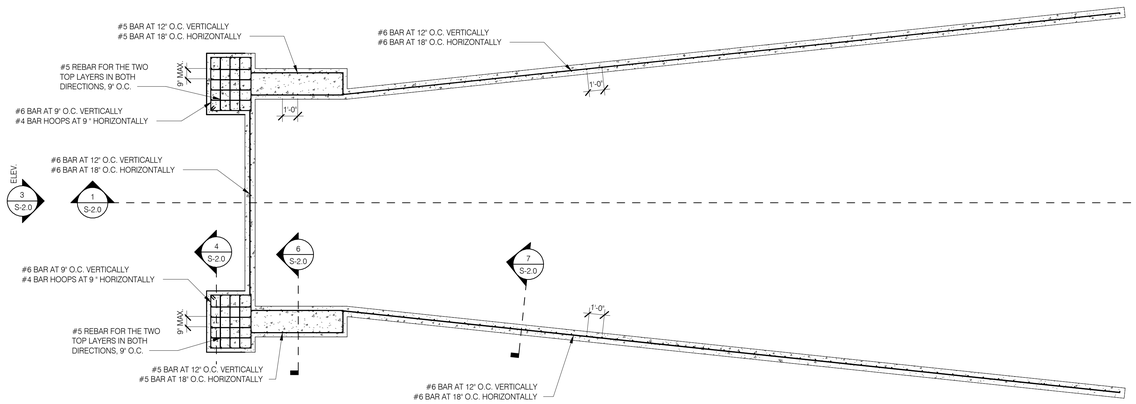
PLAN NORTH



1 OVERALL PLAN
1 / S-1.0
SCALE: 1/4" = 1'-0"



2 FOOTING REBAR PLAN
2 / S-1.0
SCALE: 1/4" = 1'-0"



3 WALL REBAR PLAN
3 / S-1.0
SCALE: 1/4" = 1'-0"

STRUCTURAL LEGEND:

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[WF-#]	WALL FOOTING TAG / MARK
X	WALL TAG / MARK
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[HDR-'X']	HEADER TAG / MARK
A.F.F.	ABOVE FINISHED FLOOR
O.C.	ON CENTER
L.M.F.	LIGHT METAL FRAMING
FDN.	FOUNDATION
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
℄	CENTERLINE
FTG.	FOOTING

STRUCTURAL KEY NOTES:

1. XXX

JHA SURVEYING ENGINEERING ENVIRONMENTAL ARCHITECTURE
PA - NY - OH - WV
3939 Birney Ave
Moosic, Pennsylvania 18507
844-542-4757

Rev #	Revision Description	Date

Project Contacts:

JHA Companies
Mark H. Ross, PE
719 N. Lehigh Ave.
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Phone: (570) 886-1843
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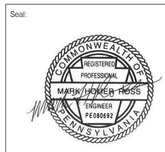
Consultant 1 Contact
123 Consultant Address
City, ST 00000
Phone: (###) ###-####

Consultant 2 Name
Consultant 1 Contact
123 Consultant Address
City, ST 00000
Phone: (###) ###-####

Seal:



Project Notes:

Project Notes

South Perkasie Covered Bridge
10466 Sunnyside Rd SE Box 70
Jefferson, OR 97352
Attn:Client Contact: Kim W. King

Project Location:
149 W Walnut St,
Perkasie, PA 18944

Bridge Abutment Design

Sheet Title:

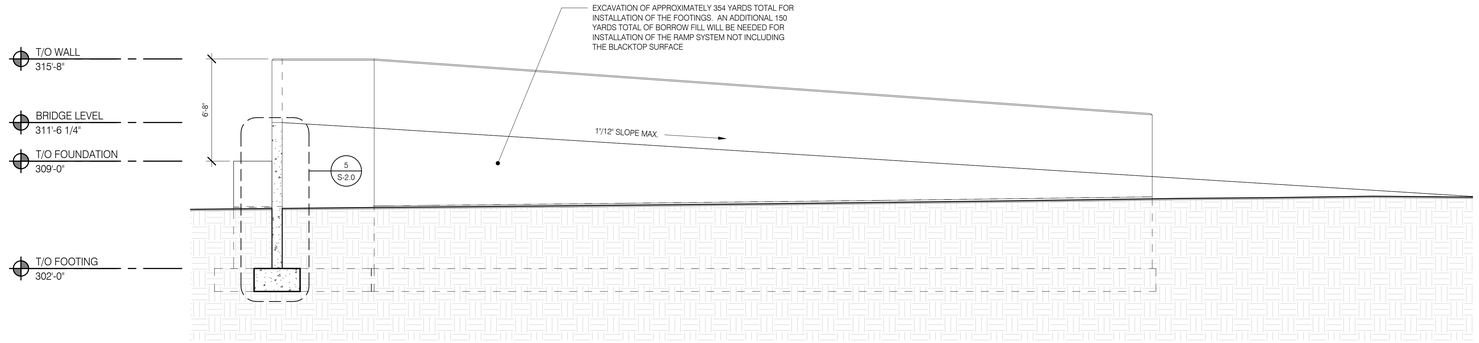
FOUNDATION PLAN

Project No:	2025-0305
Sheet Issue Date:	06/19/2025
Project Issue Date:	03/18/2025
Checked By:	MHR
Plan Status:	FOR BIDDING

S-1.0

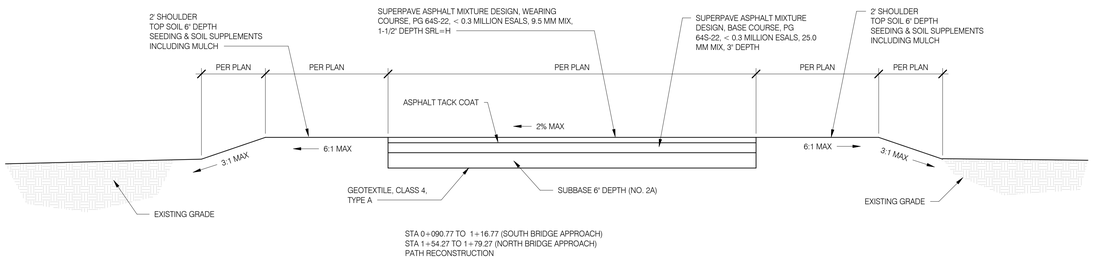
Scale: As Indicated

PLAN NORTH

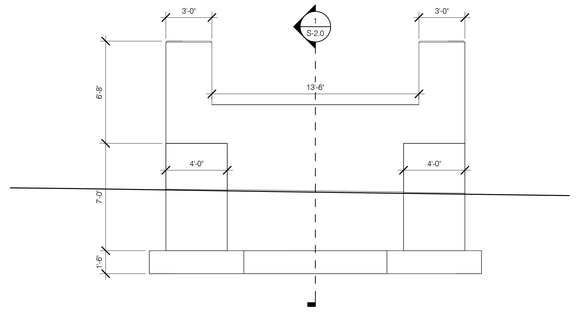


1 S-2.0 ABUTMENT SECTION

SCALE: 1/4" = 1'-0"

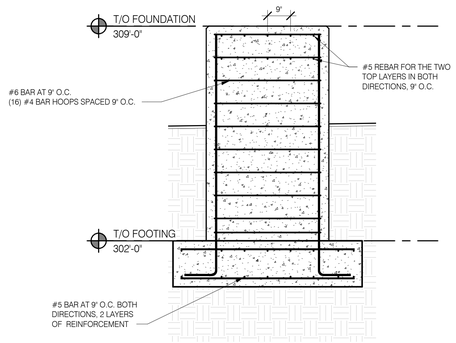


2 S-2.0 TYPICAL WALKWAY DETAIL



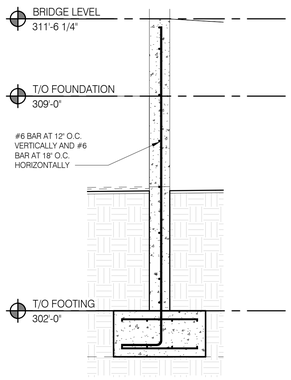
3 S-2.0 PLAN WEST ELEVATION

SCALE: 1/4" = 1'-0"



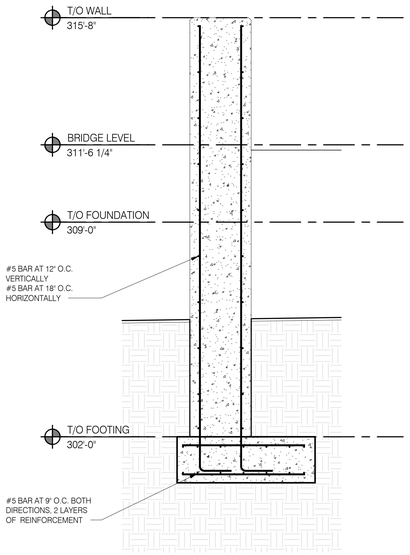
4 S-2.0 ABUTMENT PIER SECTION

SCALE: 1/2" = 1'-0"



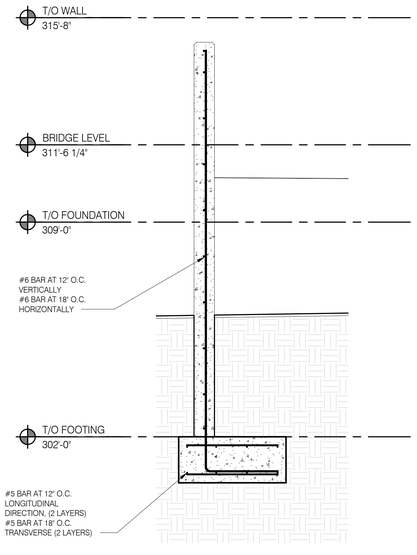
5 S-2.0 ABUTMENT BACK WALL SECTION

SCALE: 1/2" = 1'-0"



6 S-2.0 WING WALL SECTION 1

SCALE: 1/2" = 1'-0"



7 S-2.0 WING WALL SECTION 2

SCALE: 1/2" = 1'-0"

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Seal:

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S-2.0

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