

ADA UPGRADES TO THE JAMES G. ATKINSON MEMORIAL PARK AMPHITHEATER

138 Bethel Road, Sewell, NJ 08080

OWNER/ APPLICANT: GLOUCESTER COUNTY BOARD OF CHOSEN FREEHODLERS
ADDRESS: DELAWARE AVENUE, WOODBURY, NEW JERSEY 08096
REPRESENTATIVE: MR. PETER SCIRROTTO, DIRECTOR OF FACILITIES
EMAIL: pscirrotto@co.gloucester.nj.us
PHONE: (856) 848-8455

ABBREVIATIONS				SYMBOLS		LOCATION MAP		DRAWING INDEX		SCOPE OF WORK																																																															
A.F.F. ABOVE FINISH FLOOR AL. TH. ALUMINUM THRESHOLD AC. BD. ACOUSTIC BOARD B.P. BEARING PLATE BRG. BEARING BRK. BRICK CAB. CABINET C.A.B.C. COURSE AGGREGATE CARP. CARPET CB. CATCH BASIN C.J. CONTROL JOINT CLG. CEILING CL. CLOSET C.L.K. CHAIN LINK C.L.L. CONTRACT LIMIT LINE CLR. CLEAR - CLEARANCE C.I. CAST IRON C.M.U. CONCRETE MASONRY UNIT C.O. CLEAN OUT COL. COLUMN CONC. CONCRETE CONT. CONTINUOUS CONTR. CONTRACTOR CORR. CORRIDOR CORRU. CORRUGATED CSP. CONSTRUCTION SHOWING C.T. CERAMIC TILE C.T.C.B. CERAMIC TILE COVE C.W. COLD WATER DEMO. DEMOLISH DIA. DIAMETER D.F. DRINKING FOUNTAIN D.L. DOUBLE LOAD DR. DOOR DWG. DRAWING EA. EACH E.C. EXPOSED CONSTRUCTION E.C.P. EXPOSED CONSTRUCTION ELEC. ELECTRIC - ELECTRICAL ELEV. ELEVATION EL. PNL. ELECTRICAL PANEL EQUIP. EQUIPMENT EWC. ELECTRIC WATER COOLER EXP. EXPANSION JOINT EXH. EXHAUST EXIST'G EXISTING EXT. EXTERIOR F.A.B.C. FINE AGGREGATE F.B. FACE BRICK F.D. FLOOR DRAIN F.E. FIRE EXTINGUISHER FIN. FL. FINISH FLOOR FIN. GR. FINISH GRADE FL. FLOOR FLD'G. FOLDING FD'N. FOUNDATION FTG. FOOTING H.R. HANDRAIL GWB. GYPSUM WALL BOARD INSUL. INSULATION INT. INTERIOR INV. INVERT JAN. JANITOR JST. JOIST JT. JOINT KIT. KITCHEN LAV. LAVATORY L.WT. LIGHT WEIGHT L.F. LINEAR FEET MAX. MAXIMUM MB.TH. MARBLE THRESHOLD MECH. MECHANICAL MFR. MANUFACTURER MIN. MINIMUM MIR. MIRROR M.O. MASONRY OPENING M.T.P. METAL TOILET PARTITION M.R. MAT RECESS M.REC. MOP RECEPTOR M.TH. METAL THRESHOLD MTL. METAL N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE O.C. ON CENTER O.D. OUTSIDE DIAMETER OFF. OFFICE O.H. OPPOSITE HAND O.H.D. OVERHEAD DOOR OPN'G. OPENING PERF. PERFORATED PLAS. PLASTIC PLAT. PLATFORM PLY'WD. PLYWOOD P.S.F. POUNDS PER SQUARE FOOT P.S.I. POUNDS PER SQUARE INCH PTD. PAINTED PVC. POLYVINYL CHLORIDE Q.T. QUARRY TILE Q.T.C.B. QUARRY TILE COVE BASE R. RISER RAD. RADIUS R.D. ROOF REQ'D. REQUIRED RFG. ROOFING RM. ROOM R.O. ROUGH OPENING R.O.W. RIGHT OF WAY R.W.C. RAIN WATER CONDUCTOR SAN. SANITARY SCH. SCHEDULE SECT. SECTION SEW. SEWER S.L. SKYLIGHT SPEC. SPECIFICATION(S) S.S. SERVICE SINK STL. STEEL ST-STL. STAINLESS STEEL STOR. STORAGE S.U. SINK UNIT SYN. POURED SYNTHETIC FLOORING T. TREAD T. CN. TOP OF CONCRETE T.#G. TONGUE AND GROOVE TH. THRESHOLD THK. THICK - THICKNESS T.O.F. TOP OF FOOTING T.O.M. TOP OF MASONRY T.O.S. TOP OF STEEL T.PNL. TELEPHONE PANEL TYP. TYPICAL T.P. TOILET PARTITION U.D. UNIT DIMENSION UC. UNDERCUT U.H. UNIT HEATER U.V. UNIT VENTILATOR V. SHEET VINYL V.C.B. VINYL COVE BASE V.C.T. VINYL COMPOSITION TILE V.S.B. VINYL STRAIGHT BASE VEST. VESTIBULE V.T.R. VENT THRU ROOF W/ WITH W.C. WATER CLOSET WD. WOOD W/O WITHOUT W.SCT. WAINSCOT WTH. WIDTH W.W.M. WELD WIRE MESH EARTH COMPACT FILL CONCRETE CONCRETE BLOCK SOLID CONCRETE BLOCK GROUND FILL CMU BRICK STONE STUD WALL SPLIT FACE CMU STEEL RIGID INSULATION BATT INSULATION FINISH LUMBER ROUGH LUMBER SECTION NUMBER SECTION INDICATOR SHEET NUMBER ELEVATION ROOM NUMBER DOOR NUMBER PARTITION TYPE WINDOW NUMBER CHAINLINK FENCE SITE LOCATION 138 BETHEL MILL ROAD SEWELL, NJ 08080 CONSULTANTS CIVIL ENGINEERS BRYSON & YATES CONSULTING ENGINEERS, LLC 307 GREENTREE ROAD SEWELL, NJ 08080 TEL: (856) 589-1400 ARCHITECT MCKERNAN ARCHITECTS 100 DOBBS LANE, SUITE 204 CHERRY HILL, NJ 08034 TEL: (856) 616-2960 STRUCTURAL ENGINEER MICHAEL A. BEACH & ASSOCIATES 200 BIRCHFIELD DRIVE, SUITE 205 MOUNT LAUREL, NJ 08054 TEL: (856) 273-1909 X15 ELECTRICAL ENGINEER HOLSTEIN WHITE, INC. 210 E. STREET ROAD, SUITE 2D FEASTERVILLE, PA 19053 TEL: (215) 322-7711 STAGE LIGHTING AND SOUND CONSULTANT HEWSHOTT SIGHT + SOUND + EXPERIENCES 1406 LONGFELLOW DRIVE CHERRY HILL, NJ 08003 TEL: (856) 512-6400 CS-1 COVER SHEET CIVIL DRAWINGS 1 OF 10 LEGEND & NOTES 2 OF 10 EXISTING CONDITIONS & DEMOLITION PLAN 3 OF 10 SITE PLAN - BASE BID 4 OF 10 GRADING PLAN - BASE BID 5 OF 10 CONSTRUCTION DETAILS 6 OF 10 LIGHTING PLAN 7 OF 10 LIGHTING DETAILS 8 OF 10 SOIL EROSION & SEDIMENT CONTROL PLAN 9 OF 10 SOIL EROSION CONTROL DETAILS 10 OF 10 SOIL EROSION CONTROL NOTES ARCHITECTURAL DRAWINGS AS-1 ARCHITECTURAL SITE PLAN EG-1 STAGE EGRESS PLAN & NOTES D-1 DEMO PLAN & NOTES A-1 FLOOR PLAN / FND. PLAN & MISC. DETAILS A-2 CEILING PLAN A-3 EXTERIOR ELEVATIONS A-4 STAIR #3 / RAMP #1 MISC. SECTIONS & DETAILS A-5 STAIR #1 / STAIR #2 MISC. SECTIONS & DETAILS A-6 RAMP #2 / SEATING WALKWAY FOUNDATION PLAN & SECTION A-7 RAMP #2 / SEATING WALKWAY FLOOR PLAN & ELEVATION A-8 RAMP #2 / SEATING WALKWAY SECTIONS, ELEV. & DET. STRUCTURAL DRAWINGS S-0.0 STRUCTURAL LEAD SHEET S-1.0 FOUNDATION PLAN S-3.0 SECTIONS AND DETAILS ELECTRICAL DRAWINGS E-0.0 ELECTRICAL SITE PLAN E-1.0 FIRST FLOOR ELECTRICAL PLAN E-2.0 ELECTRICAL SCHEDULES & DETAILS E-2.1 ELECTRICAL SCHEDULES & DETAILS LIGHT & SOUND DRAWINGS TS0.0 COVER SHEET TS1.1 DEVICE PLAN TS1.2 DEVICE RCP TS1.3 LIGHT PLOT TS3.1 ELEVATIONS TS6.1 SCHEDULES TS7.1 FUNCTIONALS SCOPE OF WORK SCOPE OF WORK INCLUDES, BUT NOT LIMITED TO A NEW HANDICAP RAMP TO THE EXISTING STAGE. WORK ALSO INCLUDES REMOVAL AND INSTALLATION OF NEW CONCRETE STAIR TO THE STAGE. NEW SITE WORK WILL INCLUDE NEW PATH FROM PARKING LOT TO THE THEATER AREA.. APPLICABLE CODES INTERNATIONAL BUILDING CODE 2021 (NJAC 5:23-3.14) NATIONAL ELECTRICAL CODE 2020 (NJAC 5:23-3.16) ICC/ ANSI A117.1-2017 (NJAC 5:23-7) <table><tr><td colspan="2">1</td><td colspan="2">09-15-2026</td><td colspan="2">ISSUE FOR BIDS</td><td colspan="2">DESCRIPTION</td><td colspan="2">DF / JFM</td></tr><tr><td colspan="2">No.</td><td colspan="2">DATE</td><td colspan="2"></td><td colspan="2">REVISIONS</td><td colspan="2">REV'D BY</td></tr><tr><td colspan="4">APPROVAL:</td><td colspan="6">PROJECT:</td></tr><tr><td colspan="4"></td><td colspan="6">ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080</td></tr><tr><td colspan="4"> Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034 </td><td colspan="4">TITLE:</td><td colspan="2"></td></tr><tr><td colspan="4">JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. #1084 - PA ARCH. RA-0442-0 - CT. 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CS-1

LEGEND

North Point To Be Used On Standard Construction Sheets Where Bearings Refer to N.J. Plane Coordinate System

	Slant Lettering = Existing	Vertical Lettering = Proposed
	<i>EXISTING</i>	PROPOSED
Sanitary Sewer Main	<i>SIZE AND TYPE S</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Water Service	<i>SIZE AND TYPE W</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Gas Main	<i>SIZE AND TYPE G</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Storm Sewer Main	<i>SIZE AND TYPE ST</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Roof Drain	<i>SIZE RD</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Cable Conduit	<i>C</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Electrical Conduit	<i>E</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Overhead Wire	<i>OH</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Fiber Optic Conduit	<i>FO</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Unknown Utility	<i>UU</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Edge Of Pavement	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Pavement Marking Stripes	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Cut and Fill Slope Lines	<i>F C</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Center Line Or Base Line (If Both Label As Such)	<i>12+00 13+00</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Property Lines	<i>P</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Curb	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Wooden Fence	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Steel / Chainlink Fence	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Beam Guide Rail	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Railroad Track	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Block Wall	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Treeline	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Seam	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Saw-Cut Line	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Limit of Disturbance	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Silt Fence	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Tree Protection	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Major Contour	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Minor Contour	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Base Bid Limit	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Cable TV	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
18" Pole No. & Type	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Pole with Guy Wire	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Luminaire	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Light Pole	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Ballard with Lighting	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Water Gate Valve	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Gas Gate Valve	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Junction Box	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Loop Detector	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Inlet Type 'A'	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Inlet Type 'B'	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Inlet Type 'E'	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Manhole	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Proposed Concrete Bench	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Proposed Concrete, 4" Thick	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Proposed Asphalt	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Proposed Infiltration	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Proposed Mulching	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.
Stabilized Construction Entrance	<i>TYPE</i>	PROPOSED MH RIM ELEV. INV. ELEV.

SURVEY NOTES

- THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY EASEMENT, RESTRICTION AND/OR COVENANTS THAT A CURRENT REPORT OF TITLE, OR COMPLETE SEARCH OF THE PUBLIC RECORD, MAY DISCLOSE.
- BLOCK AND LOT NUMBER REFER TO THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS ILLUSTRATED ARE BASED UPON UTILITY MARKOUT ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD. THE STATE OF NEW JERSEY REQUIRES NOTIFICATION PRIOR TO ANY EXCAVATION BY UTILIZING THE NEW JERSEY ONE-CALL SYSTEM (1-800-272-1000).
- SURVEY BASED ON N.J.S.P.C.S. (NAV '83) (2011). VERTICAL DATUM: NAVD 1988 (GEOID 12A).

SITE NOTES

- LOCATION OF EXISTING SURFACE, SUBSURFACE UTILITIES AND FEATURES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ANY DIFFERING SITE CONDITIONS WHICH WOULD AFFECT THE PERFORMANCE OF THE WORK MUST BE REPORTED TO THE ENGINEER.
- ALL CONSTRUCTION METHODS, MATERIALS AND DETAILS SHALL BE IN ACCORDANCE WITH WASHINGTON TOWNSHIP REQUIREMENTS.
- PLANS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS PREPARED BY OTHERS.
- REFER TO DETAILS SHEETS FOR MATERIAL SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE CONSTRUCTION OF THE APPROVED IMPROVEMENTS.
- THE OWNER OR HIS REPRESENTATIVE IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5.23-2.21 (e) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32(f) (OSHA COMPETENT PERSON).
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING SITE SAFETY DEVICES AND SAFETY TRAINING FOR PERSONNEL, AND SHALL MAINTAIN SAFE PRACTICES ON SITE AT ALL TIMES.

GRADING NOTES

- MATERIAL PLACED IN FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, FROZEN SOIL, STONES MORE THAN SIX (6) INCHES, AND OTHER OBJECTIONABLE MATERIAL.
- DRAIN FILL SHALL BE KEPT FROM BEING CONTAMINATED BY ADJACENT SOIL MATERIALS DURING PLACEMENT BY EITHER PLACING IT IN A CLEANLY EXCAVATED TRENCH, OR BY KEEPING THE DRAIN AT LEAST ONE FOOT ABOVE THE ADJACENT EARTH FILL.
- SELECTED DRAIN FILL AND BACKFILL MATERIAL SHALL BE PLACED AROUND STRUCTURES PIPE CONDUITS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL LOADING. FILL MATERIAL SHALL BE PLACED AND SPREAD BEGINNING AT THE LOWEST POINT IN THE FOUNDATION, AND THEN BROUGHT UP IN CONTINUOUS HORIZONTAL LAYERS THICK ENOUGH THAT THE REQUIRED COMPACTION CAN BE OBTAINED.
- THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL SHALL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM SURROUNDING MATERIAL.
- THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE DESIRED COMPACTION. MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT, AND MATERIAL THAT IS TOO DRY SHALL BE WETTED AND MIXED UNTIL THE REQUIREMENT IS MET. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER OF FILL TO ENSURE THAT THE REQUIRED LEVEL OF COMPACTION IS OBTAINED.
- FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, OR DRAIN FILL SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY HAND TAMPING, OR BY USING MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL THE CONCRETE HAS HAD TIME TO GAIN ENOUGH STRENGTH TO SUPPORT THE LOAD.
- GRADING SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- PROVIDE A MINIMUM OF 1.5% SLOPE IN ALL SHEET FLOW LAWN AREAS.
- MINIMUM SLOPE OF 1.0% SHALL BE PROVIDED IN SWALES.
- THE PROPOSED LAWN AREAS WILL BE GRADED WITH LIGHT-WEIGHT CONSTRUCTION EQUIPMENT.
- NO TOPSOIL SHALL BE REMOVED FROM THE SITE OR USED AS SPOIL WITHOUT FIRST OBTAINING THE APPROPRIATE PERMITS AND APPROVALS FROM THE PROPERTY OWNER AND MUNICIPALITY.

BACKFILLING NOTES

- BACKFILL SHALL CONSIST OF SUITABLE ON-SITE MATERIAL OR IMPORTED SELECT FILL MEETING THE FOLLOWING UCS CLASSIFICATION: GW, GP, GW-GM, GP-GM, SW, SP, SW-SM, SP-SM, OR NJDOT SOIL AGGREGATE CLASSIFICATION: 1-13, 1-5.
- BACKFILL SHALL BE FREE OF CLAY MATERIAL, STUMPS, TREE PARTS, TRASH, DEBRIS OR MATERIAL OVER 2" IN SIZE.
- BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF EIGHT (8) INCH LIFTS TO 95% OF THE MAXIMUM IN-SITU DRY DENSITY OF THE MATERIAL BEING PLACED FOR AREAS BELOW STRUCTURES, ROADWAYS, SIDEWALKS, PIPING.
 - CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER TO DISCUSS SAMPLING FREQUENCY AND ANALYTICAL PARAMETERS IF/ONCE A MATERIAL SOURCE HAS BEEN SELECTED. THE RESULTS OF THIS TESTING, IF NECESSARY, SHOULD BE PROVIDED TO THE TOWNSHIP AND PROJECT ENGINEER FOR REVIEW PRIOR TO IMPORTING TO THE SITE.
 - CONTRACTOR SHALL PROVIDE ARCHITECT/ENGINEER WITH SOIL TESTING RESULTS FOR BACKFILL MATERIAL INCLUDING, BUT NOT LIMITED TO, UCS CLASSIFICATION, OPTIMUM MOISTURE CONTENT, MAXIMUM DRY DENSITY AND SCREENING FOR PESTICIDES AND CONTAMINANTS IN ACCORDANCE WITH THE NJDEP PRIORITY POLLUTANT LIST.
 - ONE SAMPLE SHALL BE TESTED FOR EACH 500 C.Y. OF BACKFILL MATERIAL TO BE UTILIZED AND THE RESULTS SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO INITIATING BACKFILLING OPERATIONS.
- BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF ONE (1) FOOT LIFTS TO 90% OF THE MAXIMUM IN-SITU DRY DENSITY OF THE MATERIAL BEING PLACED FOR ALL OTHER AREAS.
- COMPACTION SHALL BE MONITORED BY CONTRACTOR'S GEOTECHNICAL ENGINEER, UTILIZING THE DENSITY CONTROL METHOD PER SECTION 203. 10 OF THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. A MINIMUM OF TWO (2) MEASUREMENTS SHALL BE TAKEN PER LIFT FOR EACH STRUCTURE/AREA BEING BACKFILLED. COMPACTION TESTING RESULTS SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER FOR REVIEW PRIOR TO PERFORMING ABOVE GRADE ACTIVITIES ON THE AREAS RECEIVING BACKFILL.

UTILITY NOTES

- THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AT NO COST TO THE OWNER INCLUDING BUT NOT LIMITED TO ROAD OPENING PERMITS FROM THE TOWNSHIP AND COUNTY.
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES OF PROPOSED EXCAVATIONS IN THE VICINITY OF SAID UTILITIES PRIOR TO CONSTRUCTION.
- NO MATERIAL SHALL BE PLACED OR DISTURBED BEYOND THE PROPERTY LINE OR RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING, PLANTING, ETC. IN KIND AND TOPSOILING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT REPLACEMENT AND ALL RESTORATION IN DISTURBED AREAS SHALL MEET THE REQUIREMENTS OF THE TOWNSHIP OR PROJECT ENGINEER.
- WHENEVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE AND SUPERIMPOSED LOADS, THE TRENCH BOTTOM SHALL BE OVER EXCAVATED AND STABILIZED WITH SIX (6) INCH MINIMUM THICK LAYERS OF CRUSHED STONE, AS DIRECTED BY THE PROJECT ENGINEER.
- ALL TRENCHES WILL BE BACKFILLED BY COMPACTION IN SIX (6) INCH LAYERS IN STRICT ACCORDANCE WITH THE TRENCH DETAILS AND SPECIFICATIONS.
- THE CONSTRUCTION SITE MUST BE SWEEPED AND CLEANED DAILY WITH NO TRENCHES OPEN OVERNIGHT.
- INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE ENGINEER, OR THE ENGINEER'S REPRESENTATIVE, OR THE TOWNSHIP SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND APPLICABLE LAWS.
- THE CONTRACTOR SHALL SUPPLY THE AUTHORITY ENGINEER WITH COMPLETE AS-BUILTS OF ALL UTILITY INSTALLATIONS AND APPURTENANCES PRIOR TO THE AUTHORITY ENGINEER WITNESSING TESTING OF THE SYSTEMS.
- LOCATIONS AND SLOPES OF THE MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.
- PIPE DIMENSIONS ARE ROUNDED TO THE NEAREST FOOT BETWEEN THE OUTER EDGES OF STRUCTURES. MINOR FIELD ADJUSTMENT MAY BE NECESSARY.

LIGHTING NOTES

- ALL UTILITIES WILL BE UNDERGROUND. PROPOSED ONSITE LIGHTING TO BE INSTALLED BY THE CONTRACTOR. LUMINAIRES WILL BE LED. SEE LIGHTING DETAILS FOR SPECIFICATIONS.
- ALL LIGHT POLES SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE FACE OF CURB OR EDGE OF PAVEMENT.
- STREET LUMINAIRES, TELEPHONE PEDESTALS AND TRANSFORMERS WILL BE LOCATED ON COMMON PROPERTY LINES. AND WILL NOT BE PERMITTED WITHIN STORMWATER OR SANITARY SEWER EASEMENTS.
- UTILITY PLANS WILL BE PREPARED BY THE VARIOUS UTILITY COMPANIES AND SUBMITTED, TO THE TOWNSHIP ENGINEER PRIOR TO A PRE-CONSTRUCTION MEETING, IF REQUIRED.

LEGEND & NOTES
ATKINSON MEMORIAL PARK
AMPHITHEATER

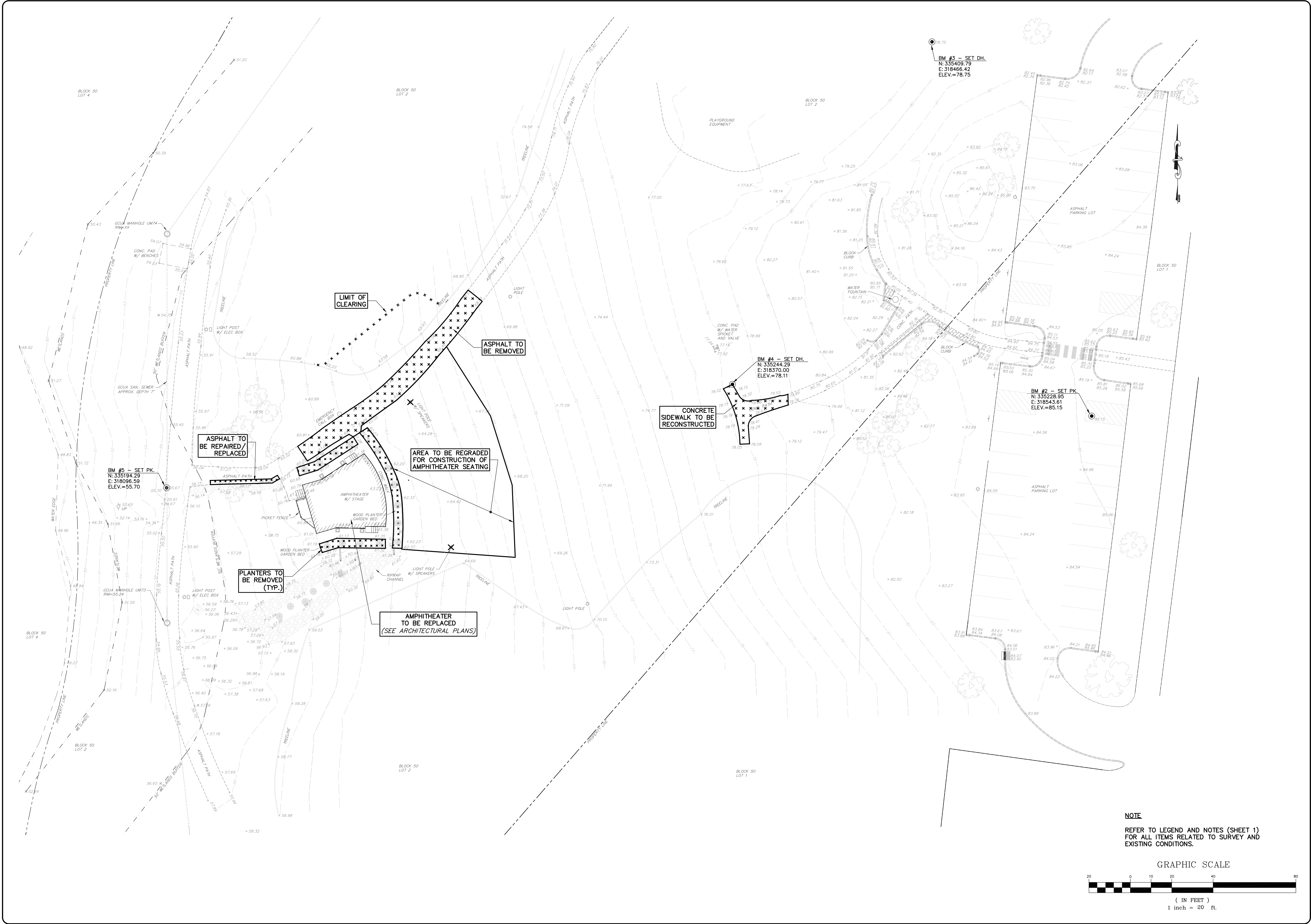
BRYSON & YATES
CONSULTING ENGINEERS, LLC
307 Greentree Road Sewell, New Jersey 08080
Phone: (656) 589-1400 Fax: (656) 582-1716

JOB NO.: 22014
DATE: 11/28/2022
SCALE: AS SHOWN
DRAWN BY: K.D.A.
CHECKED BY: E.F.F.3

SHEET:
1 OF 10

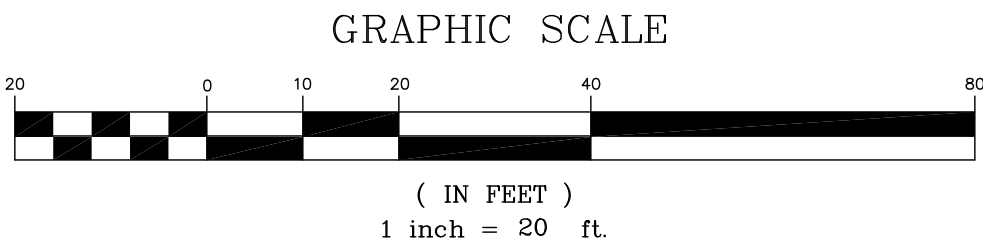
TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154



NOTE

REFER TO LEGEND AND NOTES (SHEET 1)
FOR ALL ITEMS RELATED TO SURVEY AND
EXISTING CONDITIONS.



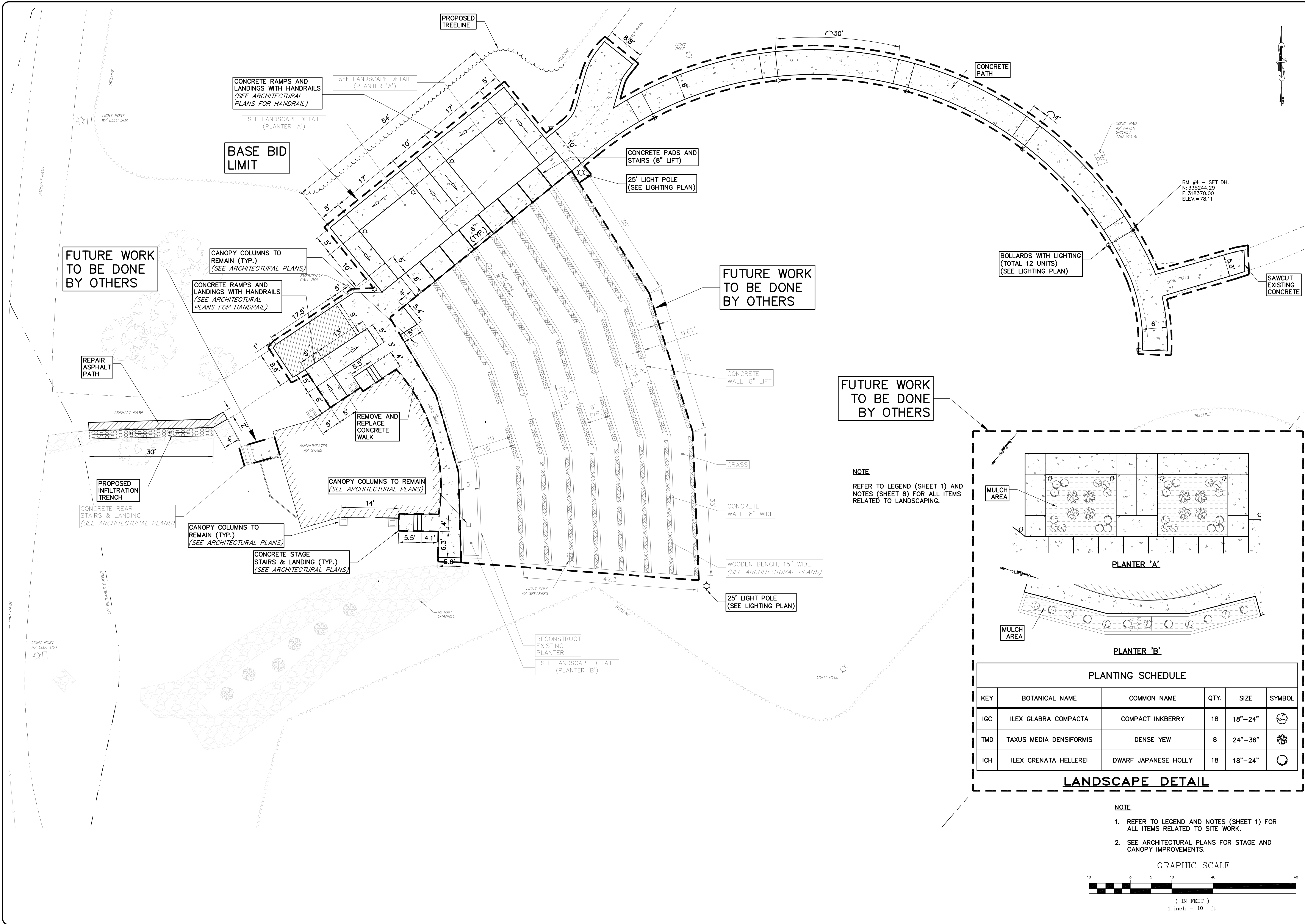
EXISTING CONDITIONS & DEMOLITION PLAN
ATKINSON MEMORIAL PARK
AMPHITHEATER

BRYSON & YATES
CONSULTING ENGINEERS, LLC
307 Greentree Road Sewell, New Jersey 08080
Phone: (856) 589-1400 Fax: (856) 582-1976

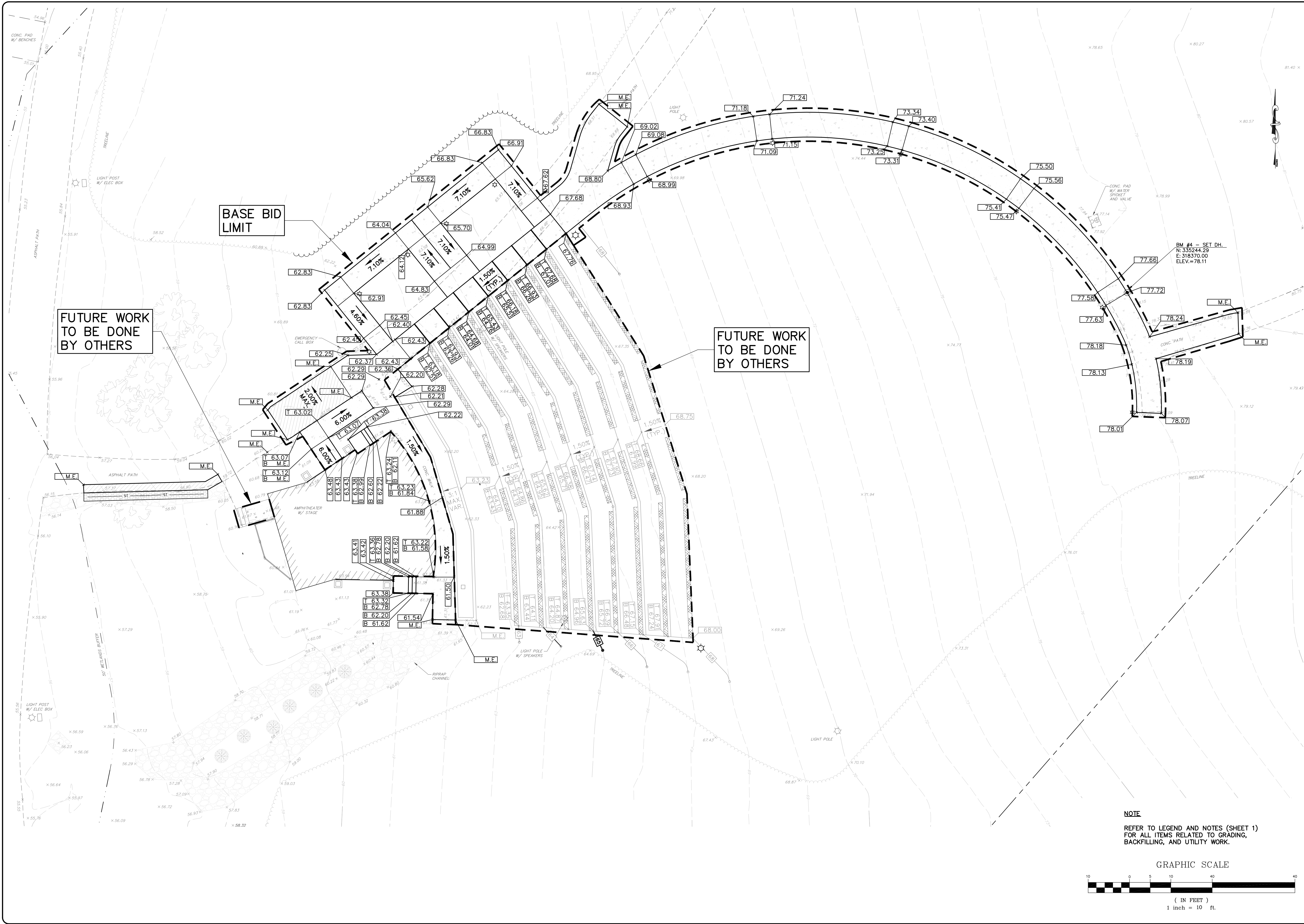
JOB NO.:	22014
DATE:	11/28/2022
SCALE:	AS SHOWN
DRAWN BY:	K.D.A.
CHECKED BY:	E.F.F.3
SHEET:	2 OF 10

NO.	DATE	REVISIONS	BY	CHECKED
1	3/27/23	UPDATE SHEET TOTAL	K.D.A.	E.F.F.3
2	5/15/24	REV. STAGE DESIGN AND ADD. ALTS	K.D.A.	E.F.F.3
3	9/5/24	ADD. ALTS - LANDSCAPING, PLANTERS	K.D.A.	E.F.F.3
4	10/24/24	ISSUED FOR PERMITS	K.D.A.	E.F.F.3
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS	B.S.P.	E.F.F.3
6	9/15/26	REV. ADD. ALTS	B.S.P.	E.F.F.3

EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154



NO.	DATE	REVISIONS	BY	CHECKED BY
1	3/27/23	UPDATE PER LIGHTING PLAN	K.D.A.	E.F.F.3
2	5/15/24	REV. STAGE DESIGN AND ADD. ALTS	K.D.A.	E.F.F.3
3	9/5/24	ADD. ALTS - LANDSCAPING PLANTERS	K.D.A.	E.F.F.3
4	10/24/24	ISSUED FOR PERMITS	B.S.P.	E.F.F.3
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS	B.S.P.	E.F.F.3
6	9/15/26	REV. ADD. ALTS	B.S.P.	E.F.F.3



NOTE

REFER TO LEGEND AND NOTES (SHEET 1)
FOR ALL ITEMS RELATED TO GRADING,
BACKFILLING, AND UTILITY WORK.

GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.

GRADING PLAN - BASE BID
ATKINSON MEMORIAL PARK
AMPHITHEATER

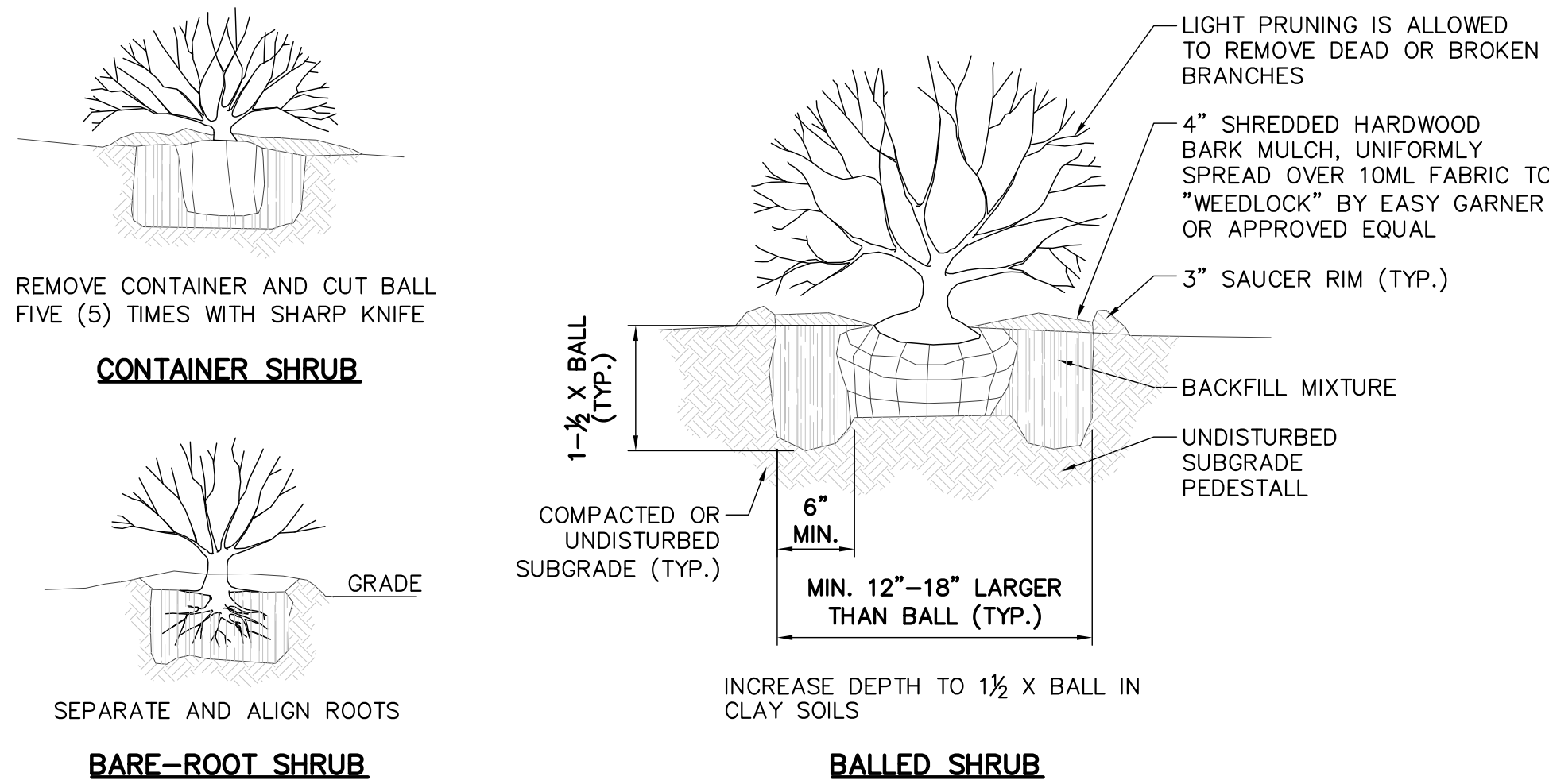
BRYSON & YATES
CONSULTING ENGINEERS, LLC
307 Greentree Road Sewell, New Jersey 08080
Phone: (856) 589-1400 Fax: (856) 582-1776

JOB NO.:	22014
DATE:	11/28/2022
SCALE:	AS SHOWN
DRAWN BY:	K.D.A.
CHECKED BY:	E.F.F.3

SHEET:
4 OF 10

NO.	DATE	REVISIONS	BY	CHECKED BY
1	7/27/23	UPDATE SHEET TOTAL	K.D.A.	E.F.F.3
2	8/1/23	ADD. ALTS.	K.D.A.	E.F.F.3
3	9/5/24	ADD. ALTS. - LANDSCAPING PLANTERS	K.D.A.	E.F.F.3
4	10/24/24	ISSUED FOR PERMITS	B.S.P.	E.F.F.3
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS.	B.S.P.	E.F.F.3
6	9/15/26	REV. ADD. ALTS.	B.S.P.	E.F.F.3

EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154



NOTES

- CROWN OF ROOT BALL SHOULD BEAR SAME RELATION (OR SLIGHTLY ABOVE) FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.
- TOPSOIL AND SUBSOIL SHALL BE MIXED WITH SPHAGNUM PEAT OR HUMUS BEFORE BACKFILLING.
- MULCH SHOULD BE APPLIED PRIOR TO INITIAL WATERING AS A MAXIMUM FOUR (4) INCH TOP DRESSING. NEVER MOUND MULCH AROUND THE BASE OF THE TREE.
- CUT TWINE AND FOLD DOWN BURLAP INTO BOTTOM OF HOLE PRIOR TO BACKFILLING.
- ALL NON-BIODEGRADABLE MATERIALS SHOULD BE REMOVED FROM THE ROOT BALL.

SHRUB PLANTING DETAIL

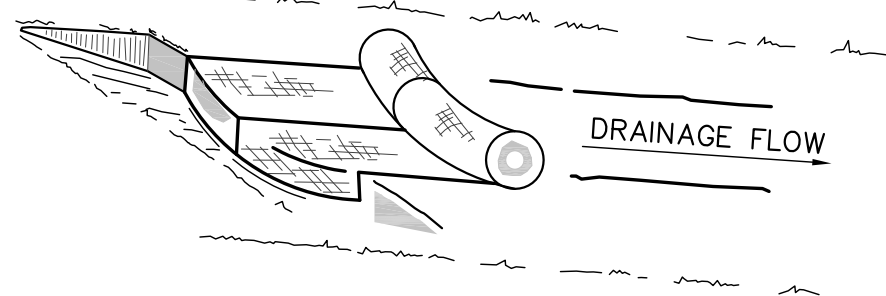
N.T.S.

LANDSCAPING NOTES

- THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANT MATERIALS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES INDICATED ON THE PLANT UST. THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.
- STANDARDS: ALL PLANTS SHALL BE IN CONFORMANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. WITH REGARD TO SIZING AND DESCRIPTION.
- QUALITY: ALL PLANTS SHALL BE NURSERY GROWN AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS.
- SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN REASONABLE DISTANCE, SUBSTITUTIONS MAY BE MADE UPON REQUEST BY THE CONTRACTOR, IF APPROVED BY THE TOWNSHIP ENGINEER.
- SIZE: ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLANT UST UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE TOWNSHIP ENGINEER.
- PRUNING: EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN, INC. STANDARDS TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL DEAD WOOD OR SUCKERS AND BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED.
- ROOT SYSTEMS: BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN THE CONTAINER OR BALL.
- PROTECTOR: ROOTBALLS, TRUNKS, BRANCHES AND FOLIAGE OF PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WINDS OR FROST. PLANTS WITH BROKEN ROOT BALLS OR EXCESSIVE DAMAGE TO THE CROWN SHALL BE REPLACED, IN KIND, PRIOR TO INSTALLATION.
- MULCH: IMMEDIATELY FOLLOWING PLANT INSTALLATION ALL TREE AND SHRUB PLANTING PITS SHALL BE COVERED WITH SHREDDED HARDWOOD MULCH OR OTHER MATERIAL APPROVED BY THE TOWNSHIP ENGINEER. THE LIMITS OF THIS MULCH FOR DECIDUOUS TREES AND SINGLE EVERGREEN TREES SHALL BE THE AREA OF THE PIT: FOR EVERGREEN TREES CLUSTER OR SHRUB MASSES, A MULCHED BED SHALL BE CREATED.
- ANTI-DESICCANT SPRAY: TREES AND WHEN PLANTED IN LEAF SHALL BE TREATED WITH ANTI-DESICCANT SUCH AS "WILT PROOF"
- PLANTING MIX BEFORE BACKFILLING: THE TOPSOIL BACKFILL MIXTURE SHALL BE PREPARED AND MIXED TO THE FOLLOWING PROPORTIONS: DECIDUOUS PLANTS - TWO PARTS BY VOLUME OF TOPSOIL, ONE PART ORGANIC COMPOST AND FIVE POUNDS BONE MEAL PER CUBIC YARD. EVERGREEN PLANTS- THREE PARTS BY VOLUME OF TOPSOIL AND ONE PART ORGANIC COMPOST. FERTILIZER - TO THE ABOVE MIXTURES, ADD THREE POUNDS OF SPECIFIED COMMERCIAL FERTILIZER FOR TREES UP TO THREE INCHES (3") IN CALIPER AND ONE POUND PER INCH OF CALIPER FOR LARGER TREES. SHRUBS SHALL BE FERTILIZED WITH SIX (6) OUNCES OF FERTILIZER FOR SHRUBS FOUR FEET (4") AND OVER.
- STAKING AND GUYING: ALL TREES SHALL BE STAKED AND GUYED ACCORDING TO ACCEPTED INDUSTRY PRACTICE. THEY SHALL ALSO BE WRAPPED IMMEDIATELY AFTER THEY ARE PLANTED WITH APPROVED TREE WRAP IN CONFORMANCE WITH ACCEPTED INDUSTRY PRACTICE.
- LAYOUT: THE CONTRACTOR SHALL LAY OUT WITH IDENTIFIABLE STAKES, THE LOCATION OF ALL PLANTS AND THE ARRANGEMENT AND OUTLINES OF PLANTING BEDS AS INDICATED ON THE DRAWINGS. THE LAYOUT OF PLANTING SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO ANY EXCAVATION OF PLANTING PITS OR PREPARATION OF PLANTING BEDS. ALL PLANTING SHALL BE THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT* AND BE LAYOUT OF PLANTING BEDS. MINOR ADJUSTMENTS TO TREE LOCATIONS MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER IF MAJOR ADJUSTMENTS ARE ANTICIPATED.
- ADVERSE CONDITIONS: THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRING OF ANY SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO PLANT GROWTH. THE DOCUMENTED CONDITIONS SHALL INCLUDE A PROPOSAL FOR CORRECTING THE SITUATION, INCLUDING ANY CHANGE IN COST FOR REVIEW AND ACCEPTANCE BY THE TOWNSHIP ENGINEER.
- QUANTITY: THE QUANTITY OF PLANTS INDICATED IN THE PLANT SCHEDULE IS FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL OBTAIN QUANTITIES FOR PRICING BY COMPIING NUMBERS FROM THE PLANTS ILLUSTRATED ON THE DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE DRAWINGS AND THE PLANT SCHEDULE, THE QUANTITIES ILLUSTRATED ON THE DRAWINGS SHALL TAKE PRECEDENCE.
- GARANTEE: ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A FULL YEAR FROM THE DATE OF INSTALLATION. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE UNLESS OTHERWISE AGREED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE GUARANTEE PERIOD AND NOTIFY THE OWNER IN WRITING IF PROBLEMS ARE OCCURRING OR SITUATIONS DEVELOP THAT APPEAR DETRIMENTAL TO THE PLANT MATERIAL. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHALL BE CONSIDERED DEAD AND MUST BE REPLACED AT NO CHARGE TO THE OWNER. A TREE SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR THERE, IS 25% OF THE CROWN DEAD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING ALL LANDSCAPING AND VEGETATION DURING THE DURATION OF CONSTRUCTION AND UNTIL FINAL PAYMENT.
- ROOT BALLS SHALL BE PLACED ATOP UNDISTURBED SUBGRADE.
- D RIP IRRIGATION SHALL BE USED ON SITE FOR FOUNDATION PLANT MATERIAL
- FAILURE TO MAINTAIN THE LANDSCAPING AS APPROVED IN SAID PLAN, SHALL BE DEEMED A VIOLATION THEREOF.

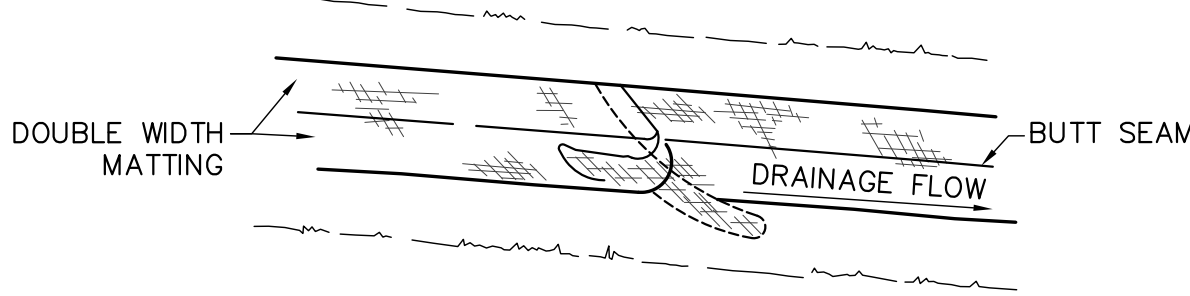
NOTE

DOUBLE WIDTH MATTING AND BLANKETS IN SWALE, USE 3'-6" OVERLAP WHERE TWO OR MORE STRIPS ARE REQUIRED, AND STAPLE ON 2'-0" CENTERS



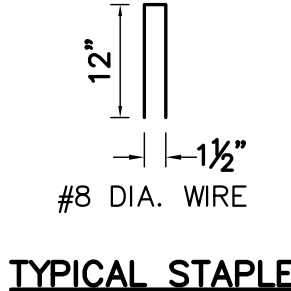
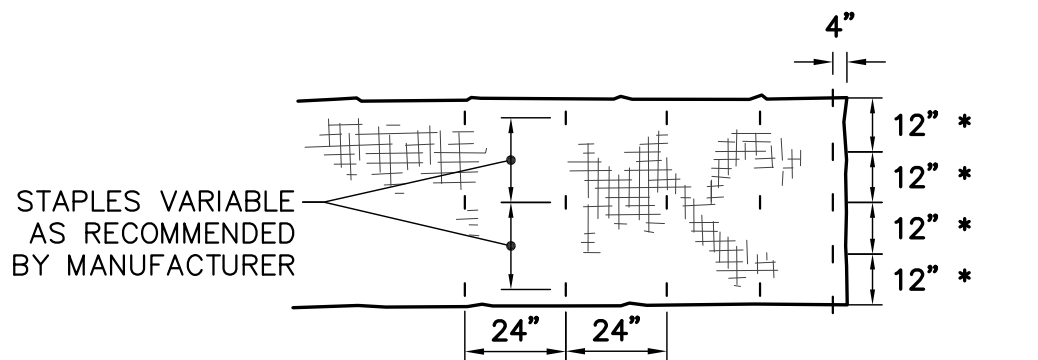
NOTE

BURY TOP END OF MATTING AND BLANKETS IN A 6" TRENCH TAMP TRENCH FULL OF SOIL. SECURE WITH ROW OF STAPLES, 12" MAXIMUM SPACING 4" DOWN FROM TRENCH.



NOTE

OVERLAP: BURY UPPER END OF LOWER STRIP AS PER ABOVE DETAIL. OVERLAP END OF TOP STRIP 6" AND STAPLE EITHER SIDE OF JOINT.

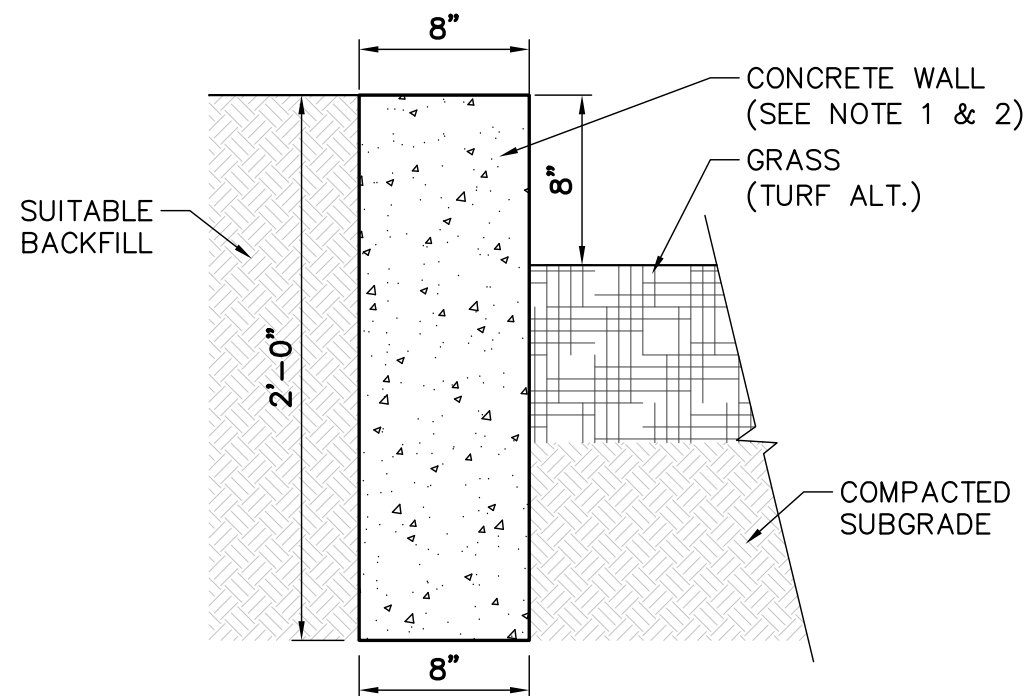


NOTE

SECURE MATTING AND BLANKETS WITH STAPLES SPACED 24" APART ALONG THE SIDES AND DOWN THE CENTER. AT THE ENDS OF THE MATTING AND AT 50 FOOT INTERVALS STAPLES SHALL BE PLACED 12" APART ACROSS THE WIDTH.

TOPSOIL STABILIZATION DETAIL

N.T.S.

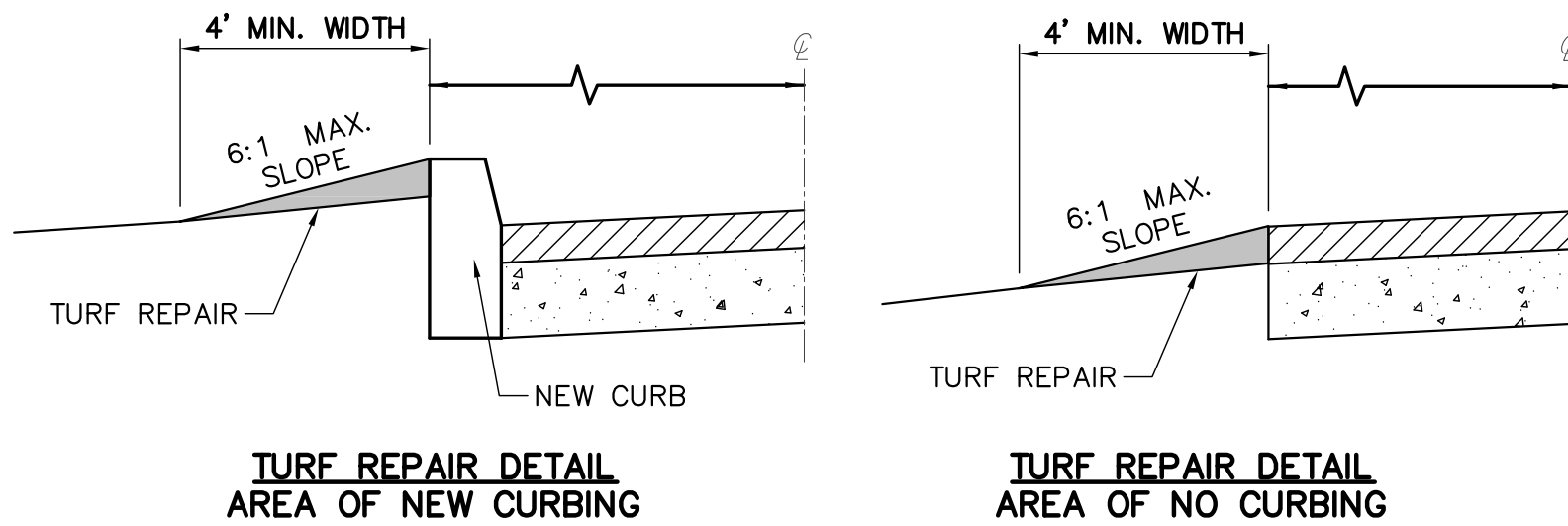


NOTES

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONCRETE WALL DESIGN AND LAYOUT IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DETAILED DESIGN DRAWINGS SIGNED AND SEALED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER, IF REQUIRED BY THE MANUFACTURER, AT NO ADDITIONAL COST TO THE OWNER.
- CONCRETE WALL SHALL INCLUDE THE FURNISHING AND INSTALLATION OF MATERIALS (I.E. EXCAVATION, BACKFILL, COMPACTION, REINFORCEMENT, AND ALL ELSE INCIDENTAL) FOR PROVIDING A COMPLETE AND FUNCTIONAL CONCRETE WALL.
- SEE ARCHITECTURAL DETAIL FOR WOODEN BENCH.
- BACKFILL BACK OF WALL WITH ON-SITE SUITABLE SOIL OR BORROW EXCAVATION, 1-14 AT NO EXTRA COST TO THE OWNER.

CONCRETE WALL DETAIL

N.T.S.



TURF REPAIR DETAIL AREA OF NEW CURBING

TURF REPAIR DETAIL AREA OF NO CURBING

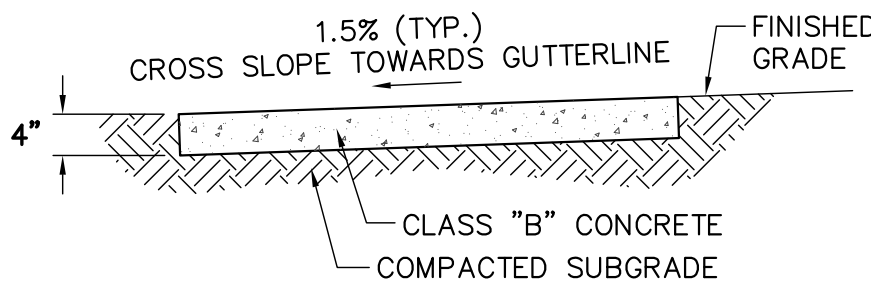
FILL OPERATIONS FOR THESE AREAS SHALL BE DONE USING ON-SITE EXCAVATION MATERIAL, PRIOR TO FURNISHING BORROW MATERIAL. THERE IS NO SPECIFIC PAYMENT FOR HAULING, PLACING AND COMPACTION ON-SITE ROADWAY EXCAVATION MATERIAL, AND THE COST THEREOF SHOULD BE INCLUDED IN THE UNIT PRICE BID FOR 'EXCAVATION, UNCLASSIFIED.'

NOTES

- ANY AREAS IN WHICH THE NEW TOP OF CURB OR TOP OF SIDEWALK IS GREATER IN HEIGHT THAN 1/2" ABOVE THE EXISTING GROUND SURFACE, THE PROPOSED EDGE OF ROAD TREATMENT AS CALLED FOR IN THIS CONTRACT SHALL BE CONSTRUCTED AS SOON AS POSSIBLE AFTER THE SIDEWALK OR CURBING HAS BEEN CONSTRUCTED. THIS WORK SHALL BE DONE CONCURRENTLY WITH THE OVERLAY WORK, NOT AS A SEPARATE PHASE AFTER THE OVERLAY WORK HAS BEEN COMPLETED.
- TURF REPAIR STRIP WORK SHALL BE PERFORMED WITHIN TEN (10) CALENDAR DAYS AFTER FINAL PAVING IS COMPLETED, BUT SHALL NOT OCCUR UNTIL THE STRIPING IS COMPLETED.
- SEED MIXTURE SHALL BE SOWN INTO T.R.S. SOIL STRIP BY HAND; SOIL SHALL THEN BE IMMEDIATELY COMPACTED WITH MECHANICAL PLATE TAMPER TO THE EXACT ELEVATION OF THE TOP OF CURB OR SIDEWALK ELEVATION. ANY SETTLED T.R.S. AREAS SHALL BE RESTORED WITH ADDITIONAL SOIL AND RECOMPACTED TO THE TOP OF CURB OR TOP OF SIDEWALK GRADES.
- FURNISH, PLACE, AND COMPACT ON-SITE SOIL ADJACENT TO THE CURB AND SIDEWALK WORK, WHEN THE FILL DEPTHS EXCEED 4-INCHES; PLACE TOPSOIL, MINIMUM THICKNESS 2 TO 3 INCHES, ATOP ON-SITE GRAVEL MATERIAL, TO ESTABLISH THE FINISH SURFACE, AT A MAXIMUM SLOPE OF 4H:1V. TOPSOIL DEPTHS SHALL NOT EXCEED 4". STABILIZATION MATTING SHALL BE USED IF & WHERE DIRECTED BY THE ENGINEER AND THE COST THEREOF SHALL BE INCLUDED IN THE COST OF VARIOUS OTHER ITEMS.
- CONTRACTOR SHALL REVIEW GRADE SHEETS AND DETERMINE SCOPE OF WORK TO COMPLETE THE TURF REPAIR STRIP OPERATIONS. THE CONTRACTOR SHALL ONLY BE PAID FOR THE AREAS REPAIRED UP TO THE LIMIT APPROVED BY THE ENGINEER IN THE FIELD. ANY DISTURBANCE PAST THE LIMIT APPROVED BY THE ENGINEER WILL BE REPAIRED BY THE CONTRACTOR AT NO FURTHER COST TO THE OWNER.

TURF REPAIR STRIP DETAIL

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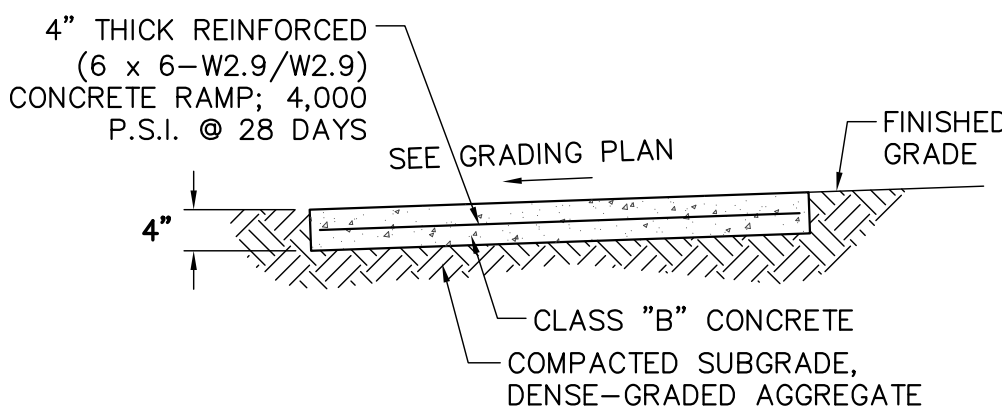


NOTES

- PROVIDE TRANSVERSE SURFACE GROOVES AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK BETWEEN THE EXPANSION JOINTS.
- EXPANSION JOINTS SHALL BE PROVIDED WITH FILLER MATERIAL AT TWENTY (20) FOOT INTERVALS.
- ALL CONCRETE SHALL BE CONSTRUCTED OF CLASS "B" AIR-ENTRAINED CONCRETE WITH A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CONCRETE SIDEWALK DETAIL

N.T.S.

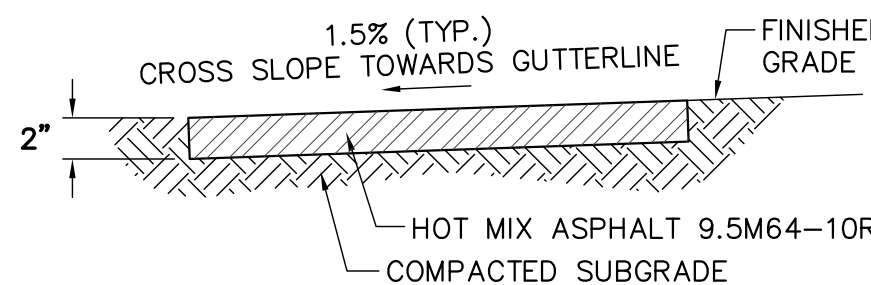


NOTES

- PROVIDE TRANSVERSE SURFACE GROOVES AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK BETWEEN THE EXPANSION JOINTS.
- ALL CONCRETE SHALL BE CONSTRUCTED OF CLASS "B" AIR-ENTRAINED CONCRETE WITH A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CONCRETE RAMP DETAIL

N.T.S.



NOTES

- PAVEMENT SHALL BE ROLLED TO ACHIEVE A SMOOTH FINISH.
- PAVEMENT SHALL TIE INTO EXISTING PAVEMENT AS SHOWN ON PLAN.

ASPHALT WALK REPAIR DETAIL

N.T.S.

CONSTRUCTION DETAILS
ATKINSON MEMORIAL PARK
AMPHITHEATER

BRYSON & YATES
CONSULTING ENGINEERS, LLC



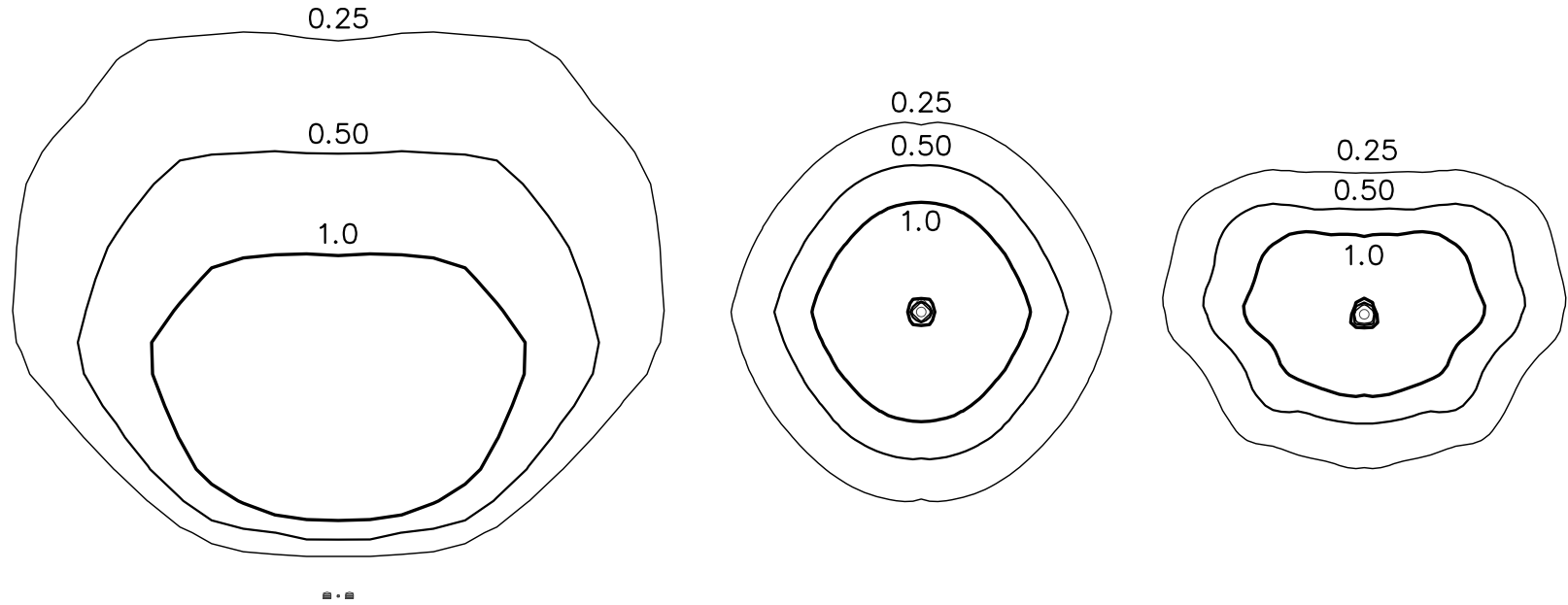
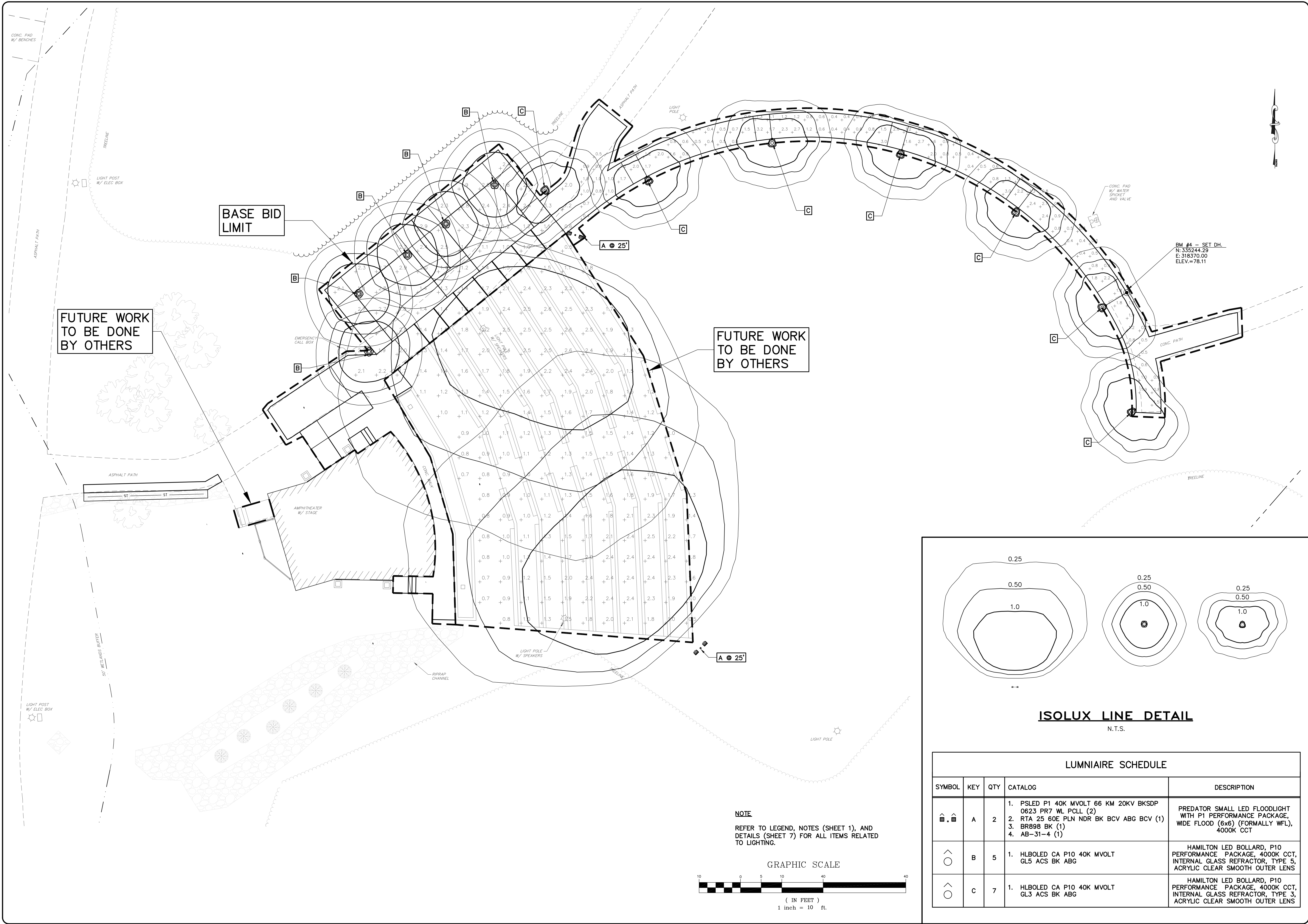
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CHECKED BY: E.F.F.3

SHEET:

5 OF 10

TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

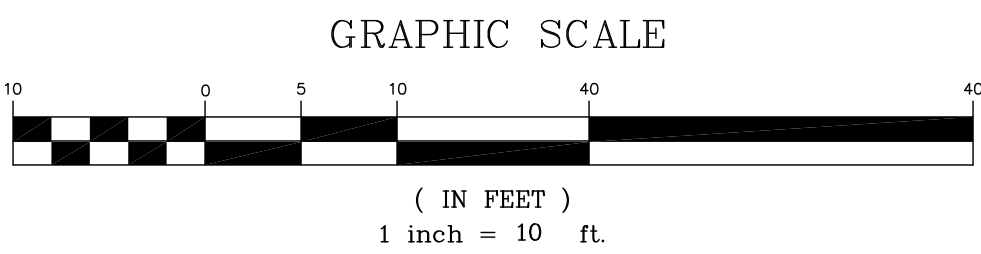
EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154



ISOLUX LINE DETAIL
N.T.S.

LUMNAIRE SCHEDULE				
SYMBOL	KEY	QTY	CATALOG	DESCRIPTION
	A	2	1. PSLED P1 40K MVOLT 66 KM 20KV BKSDP 0623 PR7 WL PCLL (2) 2. RTA 25 60E PLN NDR BK BCV ABG BCV (1) 3. BR898 BK (1) 4. AB-31-4 (1)	PREDATOR SMALL LED FLOODLIGHT WITH P1 PERFORMANCE PACKAGE, WIDE FLOOD (6x6) (FORMALLY WFL), 4000K CCT
	B	5	1. HLBOLED CA P10 40K MVOLT GL5 ACS BK ABG	HAMILTON LED BOLLARD, P10 PERFORMANCE PACKAGE, 4000K CCT, INTERNAL GLASS REFRACTOR, TYPE 5, ACRYLIC CLEAR SMOOTH OUTER LENS
	C	7	1. HLBOLED CA P10 40K MVOLT GL3 ACS BK ABG	HAMILTON LED BOLLARD, P10 PERFORMANCE PACKAGE, 4000K CCT, INTERNAL GLASS REFRACTOR, TYPE 3, ACRYLIC CLEAR SMOOTH OUTER LENS

NOTE
REFER TO LEGEND, NOTES (SHEET 1), AND DETAILS (SHEET 7) FOR ALL ITEMS RELATED TO LIGHTING.



EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154

NO.	DATE	REVISIONS	BY	CHECKED BY
1	9/20/24	REV. STAGE DESIGN AND ADD. ALTS.	K.D.A.	E.F.F.3
2	10/24/24	REV. STAGE DESIGN AND ADD. ALTS.	K.D.A.	E.F.F.3
3	10/24/24	ISSUED FOR PERMITS	K.D.A.	E.F.F.3
4	10/24/24	REV. STAGE DESIGN AND ADD. ALTS.	B.S.P.	E.F.F.3
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS.	B.S.P.	E.F.F.3
6	9/15/26	REV. ADD. ALTS.	B.S.P.	E.F.F.3

LIGHTING PLAN
ATKINSON MEMORIAL PARK
AMPHITHEATER

TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

BRYNSON & YATES
CONSULTING ENGINEERS, LLC
307 Greentree Road Sewell, New Jersey 08080
Phone: (856) 589-1400 Fax: (856) 582-7776

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SCALE: AS SHOWN
DRAWN BY: K.D.A.
CHECKED BY: E.F.F.3

6 OF 10

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REVISIONS		BY	CHECKED BY
1	FACE DESIGN AND ADJ. ALTS	K.O.A.	
2	IS. UNDOORING PLANTERS	K.O.A.	
3	FOR PERMITS	E.F.F.3	
4	FACE DESIGN AND ADJ. ALTS	B.S.P.	
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EDWARD F. FARRELL III, PE, CME

PROFESSIONAL ENGINEER N.J. LICENSE NO. 06-46154

06-46154





User Manual

HoloPort CA PRO 4K V0207 ACS ACS AKO

Item:

Page:

HLB100 Series

Aluminum 100 Series

Cnc Aluminum 100 Series



General Description

The HoloPort CA PRO 4K V0207 which provides fully integrated HLB100 solution to implement full line of decorative glass handling functions than the most sophisticated solutions. While maintaining the perfect line of the machine's arrangement to provide easy-to-install and ensure maximum performance, our HoloPort CA PRO 4K V0207 offers the application of a primary process for the

intended use. HoloPort CA PRO 4K V0207, capable of picking, higher tolerance surfaces, such as, of machinery.

Mechanical Specifications

The laminate holding shaft

• Six heavy grade A304 / Aust. Aluminum material with <1% copper

• Wet location

• One operation with conventional tool

• A holding shaft is provided for the

• All elements of the HoloPort CA PRO 4K V0207 are

• Suitable for 100mm thick glass panels, 100mm thick glass panels and are provided as a 100mm thick

• Remains open for use by the HoloPort CA PRO 4K V0207

• 100mm thick glass panels, 100mm thick glass panels and are provided as a 100mm thick

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Certification Specifications

The HoloPort CA PRO 4K V0207 provides the following equipment:

• Certified by CE mark for the following equipment:

• Heavy equipment and machine, fully integrated

• 100mm thick glass panels, 100mm thick glass panels and are provided as a 100mm thick

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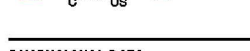
• 100mm thick glass panels, 100mm thick glass panels and are provided as a 100mm thick

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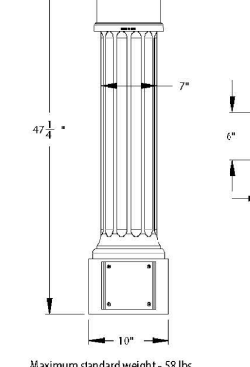
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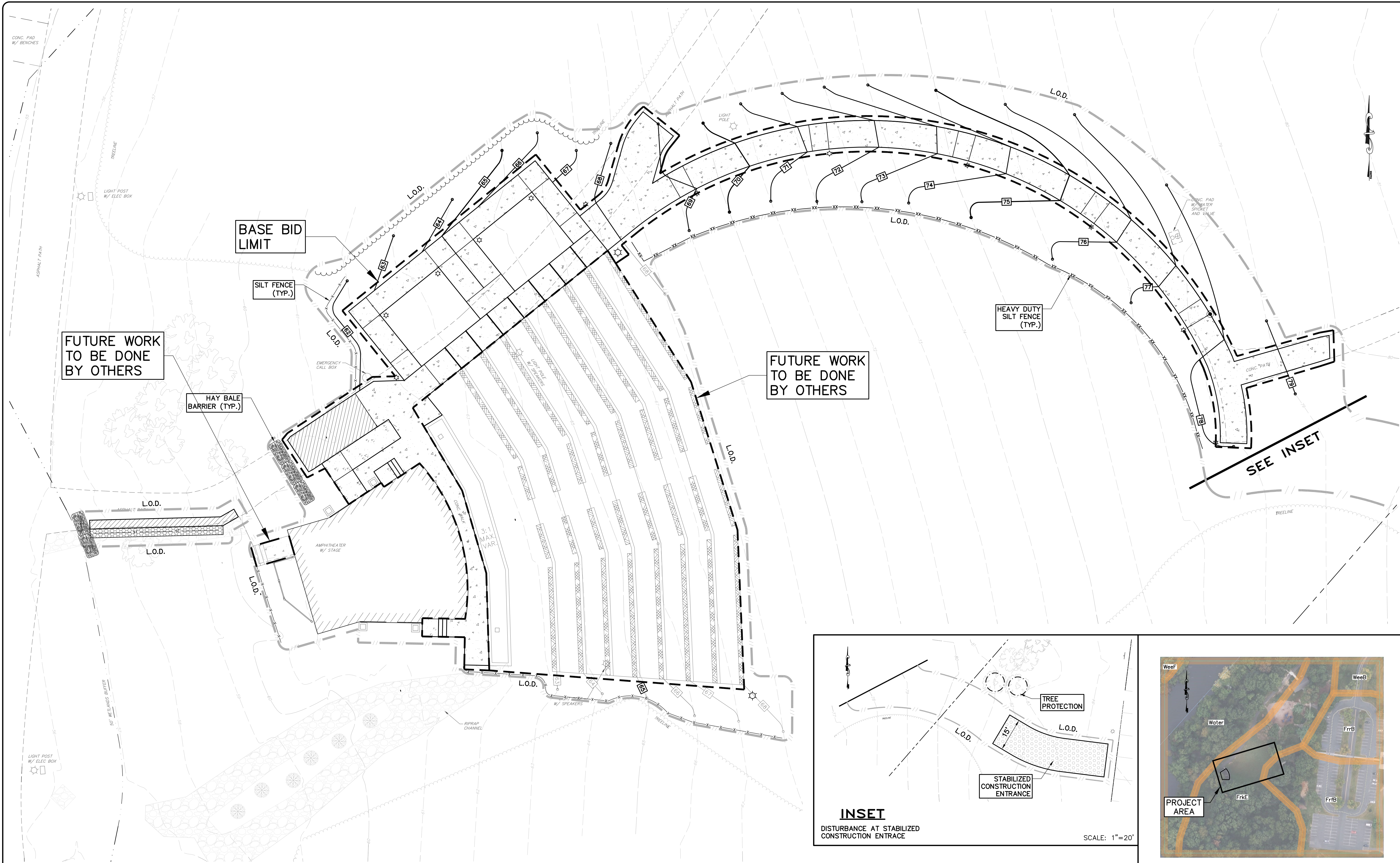
• Wet location

NO	DR	NO
1	8/2/71	
2	8/7/71	
3	10/7/71	
4	10/7/71	
5	7/2/71	
6	7/2/71	

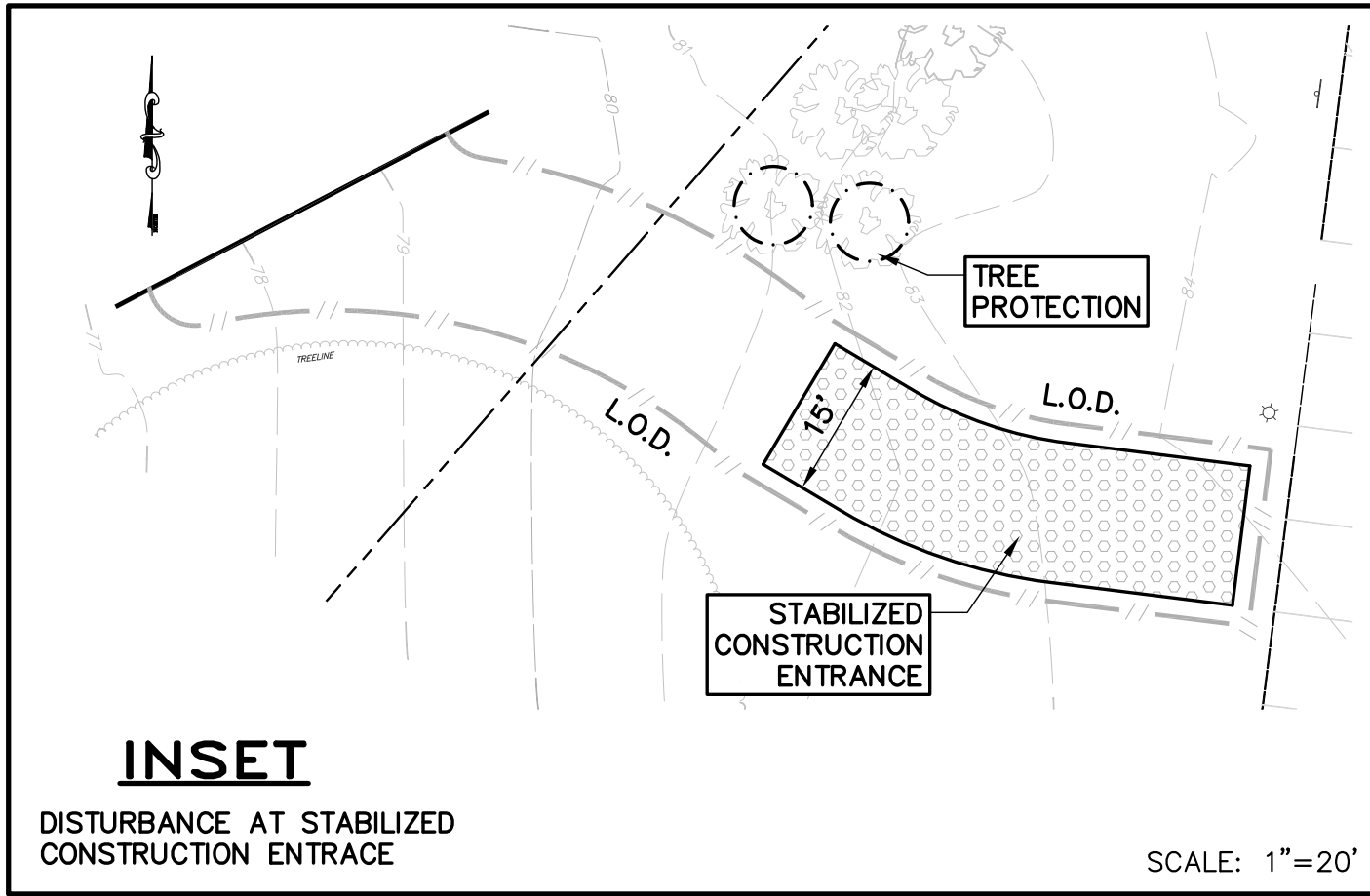
LIGHTING DETAILS

ATKINSON MEMORIAL PARK
AMPHITHEATER

TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY



TOTAL PROJECT AREA: 17,955 S.F.
TOTAL DISTURBED AREA: 17,955 S.F.
TOTAL SOIL RESTOATION AREA: 11,745 S.F.

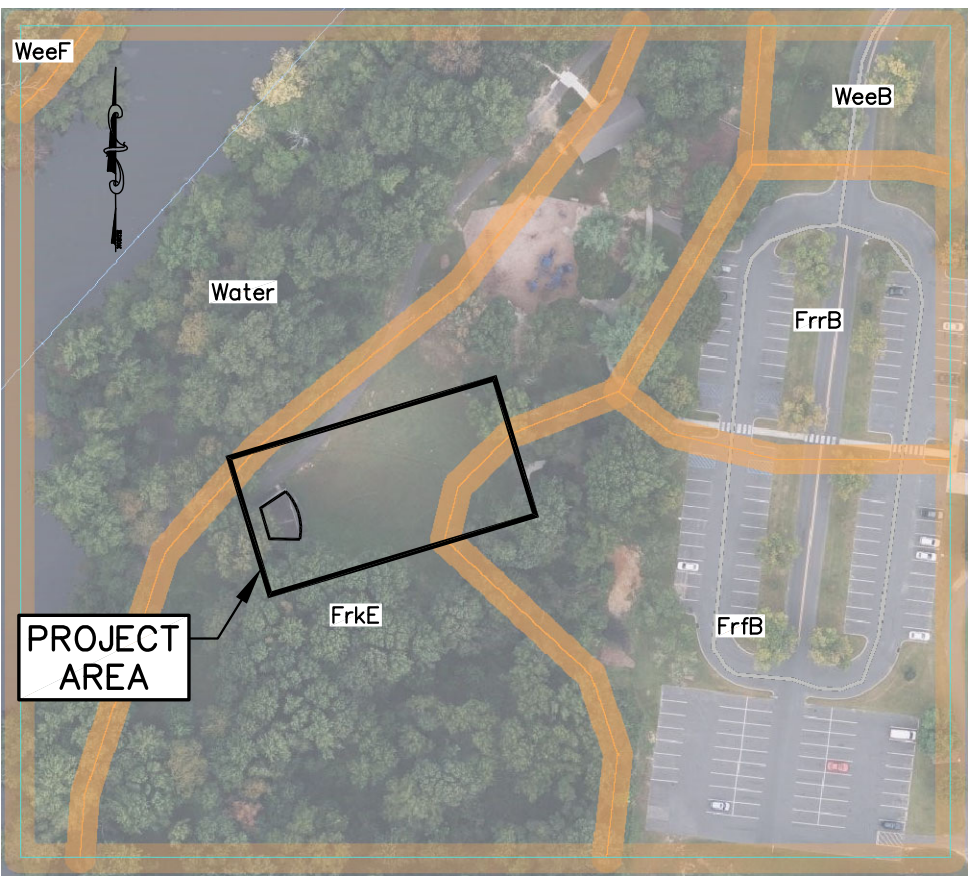
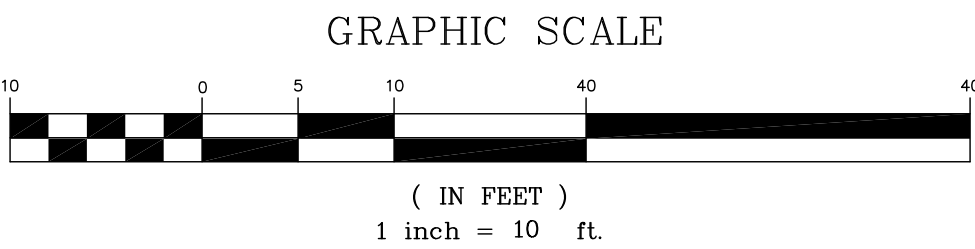


INSET
DISTURBANCE AT STABILIZED
CONSTRUCTION ENTRANCE

SCALE: 1"=20'

NOTE

REFER TO LEGEND (SHEET 1), NOTES AND
DETAILS (SHEET 7, 8) FOR ALL ITEMS RELATED
TO SOIL EROSION & SEDIMENT CONTROL.



Map Unit	Map Unit Name	Slopes
FrrB	Freehold loamy sand	0% - 5%
FrrE	Freehold sandy loam	15% - 25%
FrrB	Freehold-Urban land complex	0% - 5%
Water	-	-
WeeB	Westphalia fine sandy loam	2% - 5%
WeeF	Westphalia fine sandy loam	15% - 40%

SOILS MAP

N.T.S.

SOIL EROSION & SEDIMENT CONTROL PLAN
ATKINSON MEMORIAL PARK
AMPHITHEATER

BRYSON & YATES
CONSULTING ENGINEERS, LLC
307 Greentree Road Sewell, New Jersey 08080
Phone: (856) 589-1400 Fax: (856) 582-1776

JOB NO.: 22014
DATE: 11/28/2022
SCALE: AS SHOWN
DRAWN BY: K.D.A.
CHECKED BY: E.F.F.3

SHEET:
8 OF 10

EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154

NO.	DATE	REVISIONS	BY	CHECKED BY
1	3/27/23	UPDATE SHEET NUMBER	K.D.A.	E.F.F.3
2	5/15/24	ADD. ALTS.	K.D.A.	E.F.F.3
3	9/5/24	ADD. ALTS. - LANDSCAPING, PLANTERS	K.D.A.	E.F.F.3
4	10/24/24	ISSUED FOR PERMITS	K.D.A.	E.F.F.3
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS	B.S.P.	E.F.F.3
6	9/15/26	REV. ADD. ALTS	B.S.P.	E.F.F.3

TABLE 4-3
PERMANENT VEGETATIVE MIXTURES, PLANTING RATES AND PLANTING DATES

SEED MIXTURE ²	PLANTING ³ RATE	PLANTING DATES										MAINTENANCE ⁴ LEVEL	REMARKS
		O=Optimal Planting Period A=Acceptable Planting Period											
		PLANT HARDINESS ZONES (see Figure 4-1)											
		Zone 5b, 6a			Zone 6b		Zone 7a, 7b						
lbs/acre	lbs/1000 sq. ft.	3/15-5/31	6/1-7/31	8/1-10/31	3/1-4/30	5/1-8/14	8/15-11/15	2/1-4/30	5/1-8/14	8/15-11/30			
WARM SEASON SEED MIXTURE													
1A. For Pinelands National Reserve Seed mixtures see Table 4-4 page 4-17													
1. Switchgrass and/or Coastal panicgrass plus or Flatpea	15 15 20-20	.35 .35 -45-45	O			O			O			C-D	
2. Deertongue or Switchgrass Redtop	15 20 1	.35 .45 -11-23	O			O			O			C-D	
3. Switchgrass Deertongue Little Bluestem Sheep fescue plus Partridge pea	15 20 20 20	.35 .25 .45 .45	O			O			O			C-D	
4. Switchgrass Big Bluestem Little Bluestem Sand lovegrass Coastal panicgrass	10 5 5 4 10	.25 .10 .10 .10 .25	O			O			O			C-D	
5. Bermudagrass Zoysiagrass (seed) Zoysiagrass (sprigs)	15 30	.35 .70	O			O			O			A-D	
COLD SEASON SEED MIXTURE													
6. Fine Fescue (Blend) Hard Fescue Chewings fescue Strong Creeping Red Fescue Kentucky bluegrass Perennial ryegrass plus White Clover (see note at right)	130 45 20 5	3 1 5 .10	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	B-D	
7. Strong Creeping red fescue Kentucky bluegrass Perennial ryegrass or Redtop plus White clover	130 50 20 10	3 1 .5 .25	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	B-D	
8. Tall fescue (turf-type) or Strong Creeping red fescue or Perennial ryegrass Flatpea	30 30 25	.7 .7 .60	O	A ⁶		O	A ⁶		O	A ⁶		B-D	
9. Deertongue Redtop Wild rye (Elymus) Switchgrass	20 2 15 25	.45 .05 .35 .60	O			O			O			C-D	
10. Tall fescue (turf-type) Perennial ryegrass or White clover (see note at right)	265 20 45 5	6 5 -25 .10	O	A ⁵	A ⁵	O	A ⁵	A ⁵	O	A ⁵	A ⁵	C-D	
11. Kentucky Bluegrass Turf-type Tall Fescue	45 45 22	1 1 5	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	C-D	
12. Turf-type Tall fescue (Blend of 3 cultivars)	350	8	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	C-D	
13. Hard Fescue and/or Chewings fescue and/or Strong creeping red fescue Perennial ryegrass Ky. bluegrass (blend)	175 45 45	4 1 1	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	A-C	
14. Tall fescue Ky. bluegrass (blend) Perennial ryegrass (blend)	265 20 20	6 0.50 0.50	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	A-B	
15. Hard fescue Chewings fescue Strong Creeping red fescue Perennial ryegrass	130 45 45 10	3 1 1 .25	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	C-D	
16. Rough bluegrass Strong Creeping red fescue	90 130	2.0 3	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	C-D	
17. Creeping bentgrass Creeping red fescue Alkali saltgrass	45 45 45	1 1 1	A	A ⁵	O	A	A ⁵	O	A	A ⁵	O	B-D	
18. Hard or Sheeps fescue N. E. wildflower mixture	25 12	0.60 0.35	O	A	O	O	A	O	O	A	O	C-D	
19. a. Smooth cordgrass b. Saltmeadow cordgrass	veg veg					O	Before July 1		O	Before July 1		D	
20. American Beachgrass Coastal Panicgrass	veg 20	.45				Before April 1			O			D	
21. a. Purpleleaf willow b. Dwarf willow c. Redstart dogwood d. Silky dogwood	veg veg veg veg		Before May 10			Before May 10			Before May 10			D	

1. See Appendix B for descriptions of turf grass mixtures and cultivars. The actual amount of warm season grass mixture used in Table 3 (seed mix 1-7) shall be adjusted to reflect the amount of Pure Live Seed (PLS) as determined by germination testing results. No adjustment is required for cool season grasses (seed mixtures 6-20).
2. Seeding mixtures and/or rates not listed above may be used if recommended by the local Soil Conservation District, Natural Resources Conservation Service; recommendations of Rutgers Cooperative Extension may be used if approved by the Soil Conservation District. Legumes (white clover, flatpea, lespedeza) should be mixed with the proper inoculant prior to planting.
3. Seeding rates specified are required when a report of compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in rates may be used when permanent vegetation is established prior to a report of compliance inspection. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative coverage of the seeded area and mowed once. Grass seed mixture checked by the State Seed Analyst, New Jersey Department of Agriculture, Trenton, New Jersey, will assure the purchaser that the seed mixture obtained is the mixture ordered. Pursuant to the N.J. State Seed Law, N.J.S.A. 4:8-17.13 et. seq.
- O = optimal planting period A = acceptable planting period
4. Maintenance Level:
- A. Intensive mowing, (2-4 days), fertilization, lime, pest control and irrigation (Examples - high maintenance lawns, commercial and recreation areas, public facilities).
- B. Frequent mowing, (4-7 days), occasional fertilization, lime and weed control (Examples - home lawns, commercial sites, school sites).
- C. Periodic mowing (7-14 days), occasional fertilization and lime (Examples - home lawns, parks).
- D. Infrequent or no mowing, fertilization and lime the first year of establishment (Examples - roadside, recreation areas, public open spaces).
5. Summer seedings should only be conducted when the site is irrigated. Mixes including white clover require that at least six weeks of growing season remain after seeding to ensure establishment before freezing conditions.

TABLE 16-1
DUST CONTROL MATERIALS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPL GALLONS/ACRE
Anionis asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12.5:1	Fine Spray	235
Resin in water	4:1	Fine Spray	300
Polyacrylamide (PAM) - spray on Polyacrylamide (PAM) - dry on		Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard, p. 26-1	
Acidulate Soy Bean Soap Stick	None	Coarse Spray	1200

TABLE 4-2
PERMANENT STABILIZATION MIXTURES FOR VARIOUS USES

APPLICATION	PLANTING MIXTURES BY SOIL DRAINAGE CLASS ¹ (see Table 4-3)		
	EXCESSIVELY DRAINED	MODERATELY WELL DRAINED	SOMEWHAT POORLY TO POORLY DRAINED
Residential/Commercial sites	10, 12, 15	6, 10, 12, 13, 14, 15	16
Pond and channel banks, dikes, berms & dams	2, 5, 6, 10	5, 6, 7, 8, 9, 15	2, 8, 16, 17
Drainage ditches, swales, detention basins	2, 9, 11	2, 7, 9, 11, 12, 17	2, 9, 16, 17
Filter Strips	12	11, 12	11, 12
Grasses waterway, spillways	2, 3, 9, 10, 12	6, 7, 9, 10, 11, 12	2, 9, 11, 12
Recreation areas, athletic fields	5, 12, 15, 18	12, 13, 14, 15, 18	16
Special Problem Sites Steep slopes and banks, roadsides, borrow areas	2, 3, 4, 6	2, 3, 5, 7, 8, 9, 10, 15, 18	2, 9, 10, 11, 12
Sand and gravel pits, Sanitary landfills	1, 2, 3, 4, 6, 20	1, 2, 3, 4, 5, 6, 8, 15, 20	2, 8
Dredged material, spoilbanks, borrow areas	2, 3, 6, 20	2, 3, 6, 11	2, 8
Streambanks & shorelines ²	2, 8, 20, 21a	2, 8, 19b, 20, 21a, 21b	2, 8, 19a, 21a,b,c,d
Utility rights-of-way	3, 7, 180	3, 7	8, 9, 17

1. Refer to Soil Surveys for drainage class descriptions.
2. Refer to Soil Bioengineering Standard for additional seed mixtures.
3. Spillways only.
4. See Appendix E for description of turf grasses and cultivars.

TABLE 7-2
TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES & DEPTH

SEED SELECTIONS	SEEDING RATES ¹ (pounds)		OPTIMUM SEEDING DATE ² Based on Plant Hardiness Zone ³			OPTIMUM SEED DEPTH ⁴ (inches)
	Per Acre	Per 1,000 Sq. Ft.	Zone 6B	Zone 7A	Zone 7B	
COOL SEASON GRASSES						
Perennial ryegrass	100	1.0	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	2/15-5/1 8/15-10/15	0.5
Spring oats	86	2.0	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	2/15-5/1 8/15-10/15	1.0
Winter barley	96	2.2	8/15-10/1	8/15-10/15	8/15-10/15	1.0
Annual ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/15-6/1 8/1-9/15	2/15-5/1 8/15-10/15	0.5
Winter cereal rye	112	2.8	8/1-11/15	8/1-12/15	8/1-12/15	1.0
WARM SEASON GRASSES						
Pearl millet	20	0.5	5/15-8/15	5/1-9/1	5/1-9/1	1.0
Millet (German or Hungarian)	30	0.7	5/15-8/15	5/1-9/1	5/1-9/1	1.0

1. Seeding rate for warm season grass, selections 5-7 shall be adjusted to reflect the amount of Pure Live Seed (PLS) as determined by a germination test result. No adjustment is required for cool season grasses.
2. May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
3. Plant Hardiness Zone (see figure 7-1, pg. 7-4.)
4. Twice the depth for sandy soils

- Zone 6B - Portions of Bergen, Passaic, Morris, Essex, Hudson, Union, Somerset, Middlesex, Mercer, Hunterdon, Monmouth, Ocean, Burlington, Camden, Gloucester, Atlantic Cumberland and Cape May Counties
- Zone 7A - Portions of Camden, Gloucester, Salem, Cumberland, Cape May, Atlantic, Burlington, Ocean and Monmouth counties of Somerset, Sussex, Union and Warren Counties
- Zone 7B - Portions of Cape May, Atlantic, Ocean and Monmouth Counties

TABLE 6-1
LIMESTONE APPLICATION RATE BY SOIL TEXTURE

SOIL TEXTURE	TONS/ACRE	LIMESTONE LBS./1,000 SQ. FT.
Clay, clay loam, and high organic soil	3	135
Sandy loam, loam, silt loam	2	90
Loamy sand, sand	1	45

Pulverized dolomitic limestone is preferred for most soils south of the New Brunswick-Trenton line; however, this should be confirmed by soil testing.

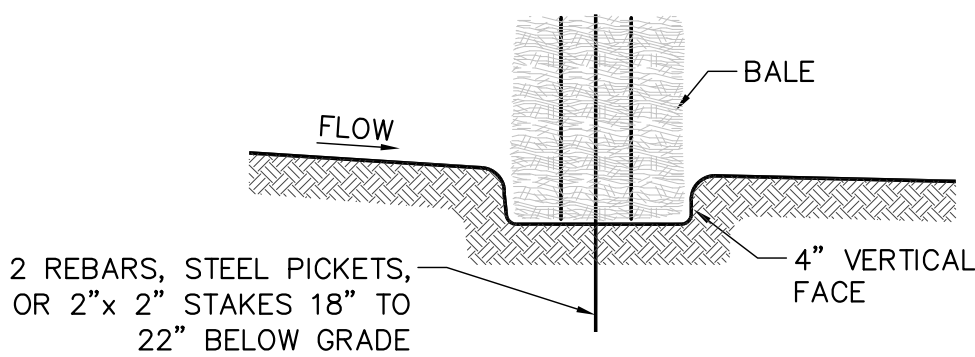
CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE OF CONSTRUCTION WILL BE FOLLOWED:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND MAINTAIN FOR PROJECT DURATION
2. EXCAVATE SUITABLE SOILS AND STOCKPILE
3. DEMOLISH EXISTING STAGE CANOPY STRUCTURE
4. DEMOLISH/REMOVE ASPHALT PATH AND CONCRETE SIDEWALK PER DESIGN PLANS
5. REMOVE EXISTING LIGHT POLES PER DESIGN PLANS
6. RELOCATE AND CONSTRUCT UTILITIES, INCLUDING LIGHTING CONDUITS AND STORMWATER INFILTRATION TRENCH
7. CONSTRUCT STAGE CANOPY STRUCTURE WITH DOWNSPOUTS
8. CONSTRUCT/INSTALL LIGHTING FOUNDATIONS AND FIXTURES
9. PERFORM EARTHWORK FOR GRADING OF AMPHITHEATER SEATING
10. CONSTRUCT/INSTALL CONCRETE PATH, SIDEWALK, RAMPS, AND ASPHALT PATH PER DESIGN PLANS
11. CONSTRUCT AMPHITHEATER STRUCTURE WITH CONCRETE STAIRS AND PADS; INSTALL BENCHES
12. INSTALL VEGETATION AND MULCH PER LANDSCAPE DETAIL
13. INSTALL PERMANENT STABILIZATION MEASURES TO DISTURBED SOILS
14. FINAL CLEANUP

DURATION (DAYS)

- 1-5
- 1-10
- 1-10
- 1-7
- 1-3
- 1-10
- 1-10
- 1-14
- 1-7
- 1-10
- 1-20
- 1-10
- 1-5
- 1-5



HAY BALE EMBEDDING DETAIL

N.T.S.

USDA Plant Hardiness Zones

Average Annual Minimum Temperature
New Jersey

Hardiness Zones

Range of average annual minimum temperatures for each zone (degrees Fahrenheit)

Zone 5b (-10 to -15)

Includes portions of Sussex and Warren counties

Zone 6a (-5 to -10)

Includes portions of Sussex, Warren, Passaic, Morris, Somerset and Hunterdon counties

Zone 6b (0 to -5)

Includes portions of Bergen, Passaic, Morris, Essex, Hudson, Union, Somerset, Middlesex, Mercer, Hunterdon, Monmouth, Ocean, Burlington, Camden, Gloucester, Atlantic, Cumberland and Cape May counties

Zone 7a (5 to 10)

Includes portions of Camden, Gloucester, Salem, Cumberland, Cape May, Atlantic, Burlington, Ocean and Monmouth counties

Zone 7b (10 to 15)

Includes portions of Cape May, Atlantic, Ocean and Monmouth counties

After USDA-ARS Misc. Publication 1475
NDA State Soil Conservation Committee
April 1999

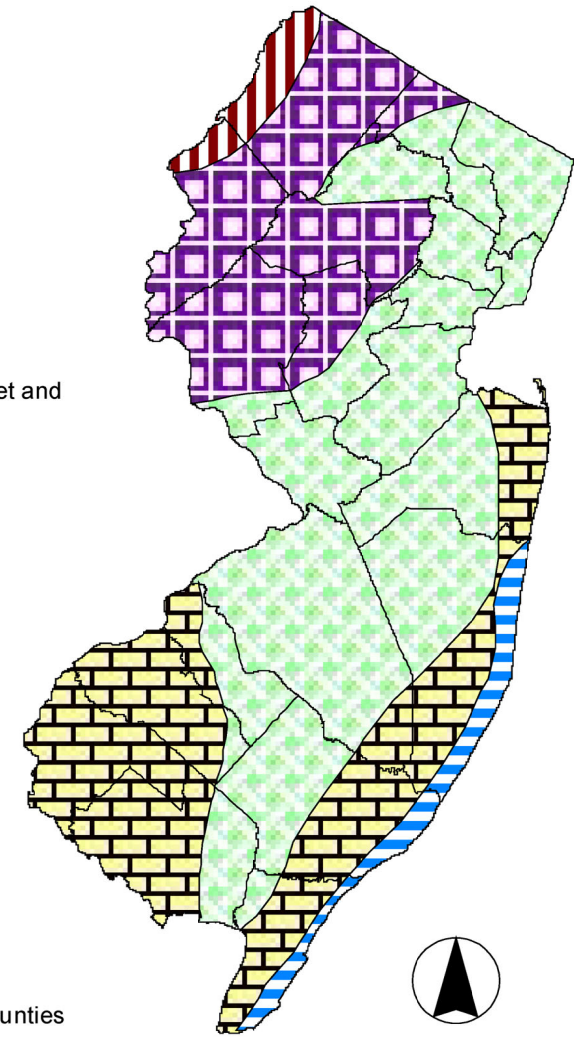
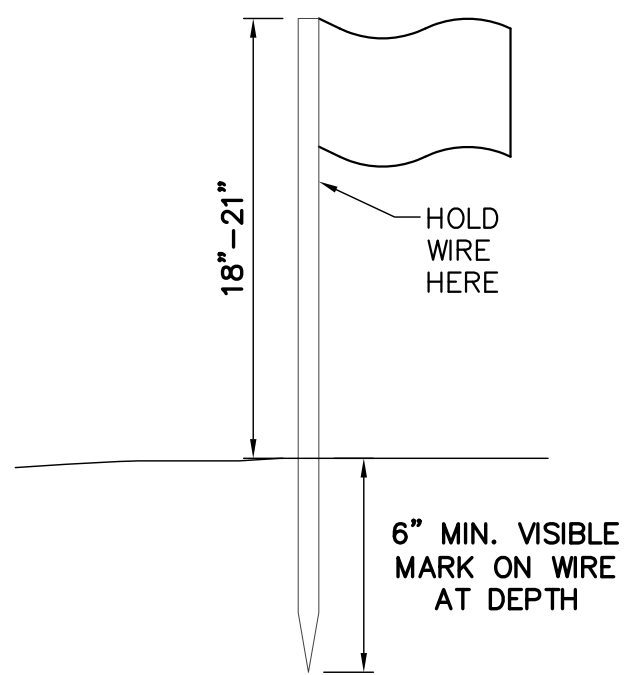


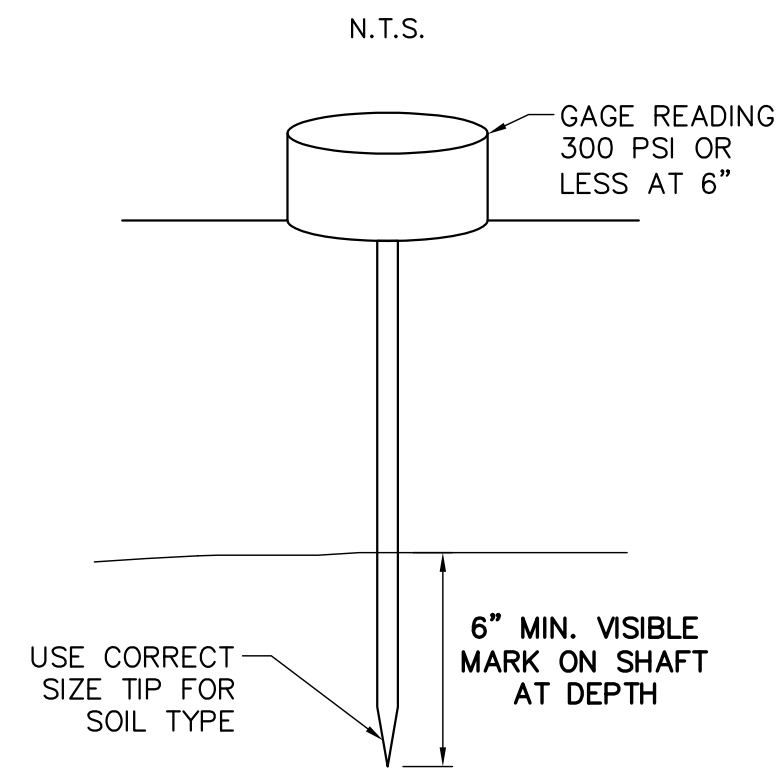
FIGURE 4-1



NOTE

1. SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.
2. WIRE MUST PENETRATE A MINIMUM OF 6" WITHOUT DEFORMATION.
3. WIRE MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

PROBING WIRE TEST 15.5 GA STEEL WIRE (SURVEY FLAG)

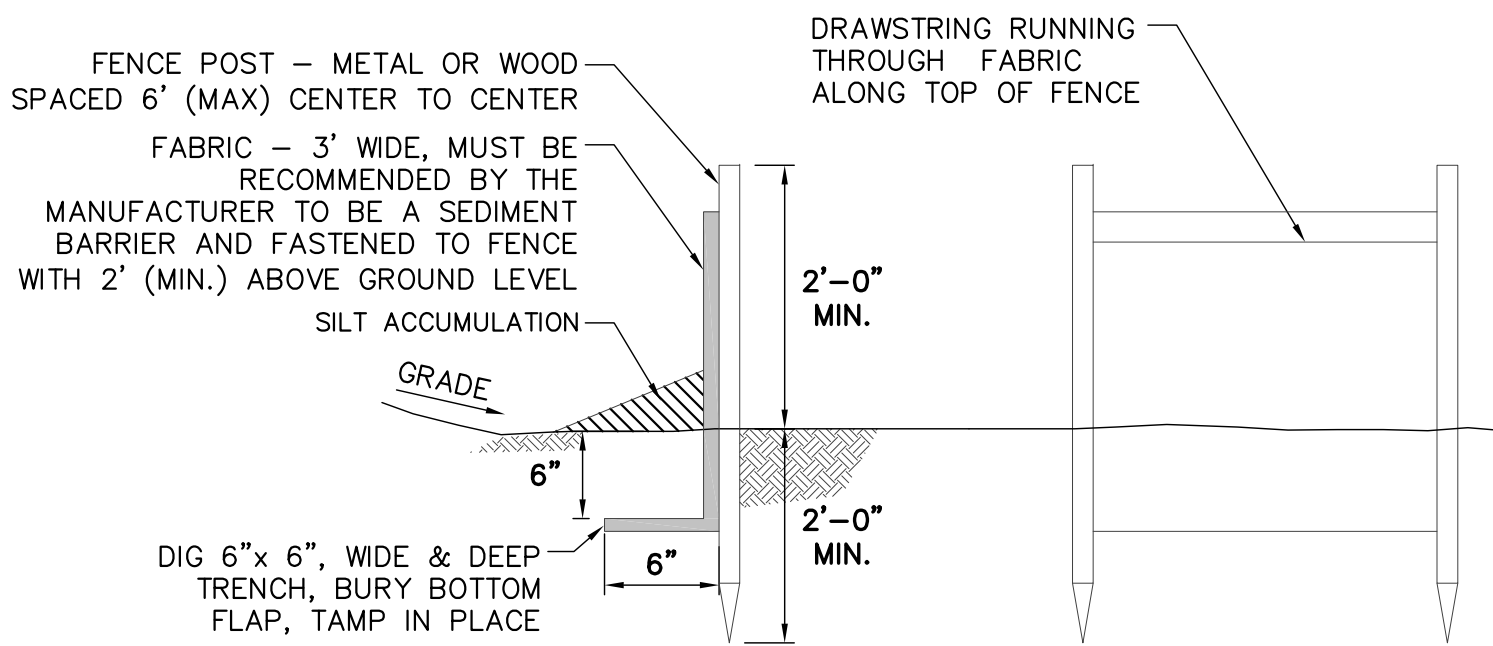


NOTE

1. SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAUGE.
2. PENETROMETER MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

HANDHELD SOIL PENETROMETER TEST

N.T.S.

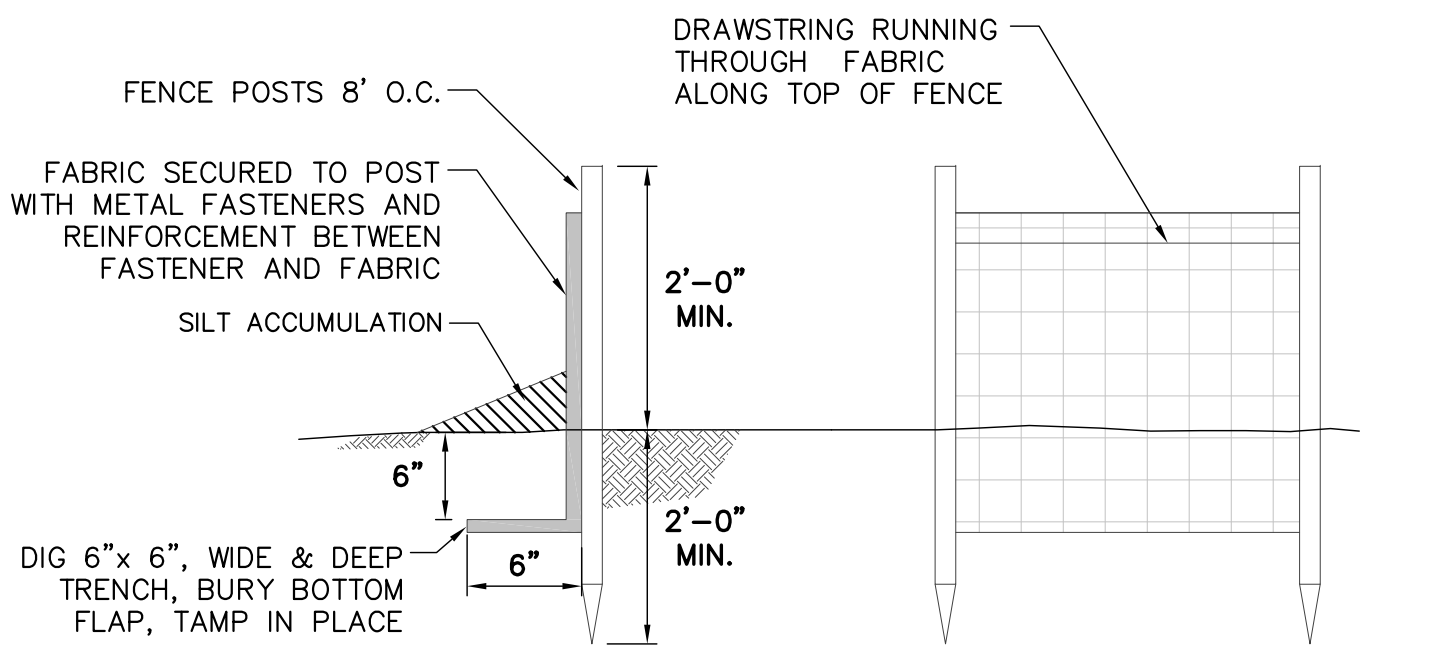


NOTES

1. FABRIC SHALL HAVE A DRAWSTRING IN THE TOP PORTION OF THE FENCE.
2. FABRIC SHALL BE SECURED TO POST WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC.

SILT FENCE DETAIL

N.T.S.

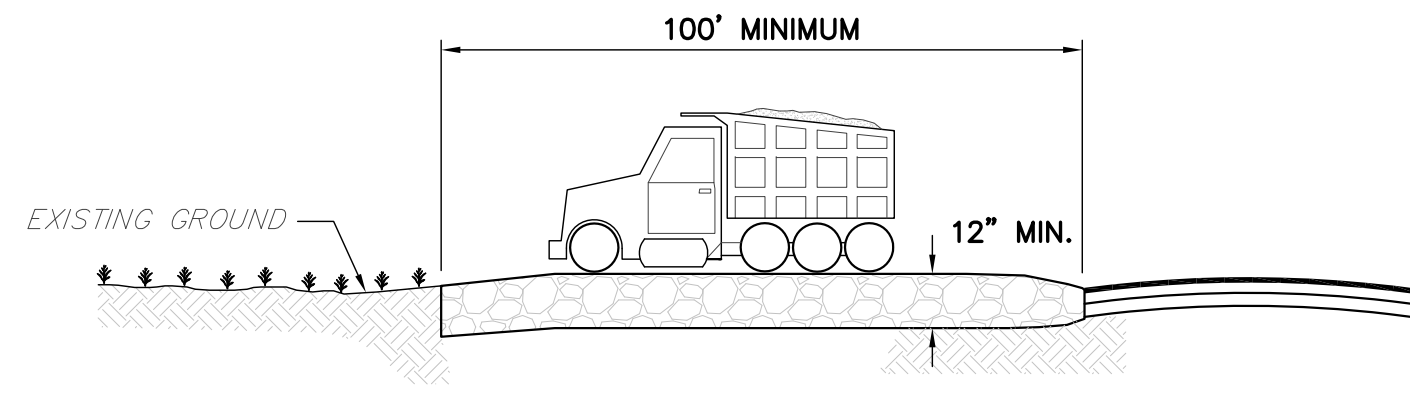


NOTES

1. FENCE POSTS SHALL BE HARDWOOD WITH A MINIMUM THICKNESS OF 1-1/2 INCHES.
2. SILT FENCE TO BE REINFORCED WITH METAL WIRE FENCE. FENCE SHALL BE AT LEAST 2 FEET HIGH AND SHALL HAVE OPENINGS NO GREATER THAN 6 INCHES WIDE.

HEAVY DUTY SILT FENCE DETAIL

N.T.S.

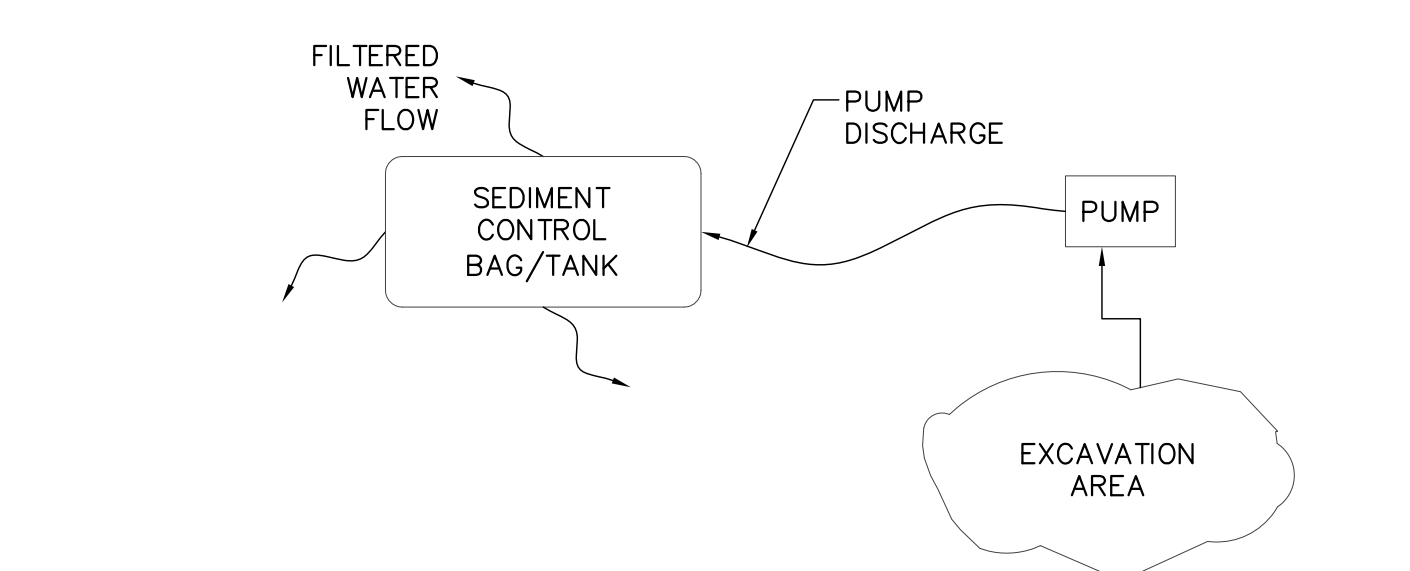


NOTES

1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.
2. MAINTAIN STABILIZED CONSTRUCTION ENTRANCE FOR DURATION OF PROJECT UNTIL ENTRANCE POINT IS PAVED AND SOILS ARE STABILIZED
3. REPLENISH STONE ON A REGULAR BASIS TO MAINTAIN MINIMUM 12" THICKNESS.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL

N.T.S.



NOTES

1. BAG MUST BE LOCATED AWAY FROM RECEIVING WATERS, OTHER ENVIRONMENTALLY SENSITIVE AREAS, AND/OR CONSTRUCTION ACTIVITIES.
2. BAGS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. BAGS MAY NOT BE REUSED.
4. BAGS MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

SEDIMENT CONTROL BAG FOR DEWATERING DETAIL

N.T.S.

SOIL EROSION CONTROL DETAILS ATKINSON MEMORIAL PARK AMPHITHEATER

TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY

BRYSON & YATES
CONSULTING ENGINEERS, LLC

307 Greentree Road, Sewell, New Jersey 08080
Phone: (856) 589-1400 Fax: (856) 582-1976

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CHECKED BY: E.F.F.3

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9 OF 10

EDWARD F. FARRELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 0646154

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition:

Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days.

Purpose:

To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

Water Quality Enhancement:

Provides temporary protection against the impacts of wind and rain, slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

Where Applicable:

On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials:

- Site Preparation**
 - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, pg. 19-1.
 - Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.
 - Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- Seedbed Preparation**
 - Apply ground limestone and fertilizer according to soil test recommendations such as offered by Rutgers Co-operative Extension. Soil sample mappers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Apply limestone at the rate of 2 tons/acre unless soil testing indicates otherwise. Calcium carbonate is the equivalent and standard for measuring the ability of liming materials to neutralize soil acidity and supply calcium and magnesium to grasses and legumes.
 - Work time and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.
 - Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled in accordance with the above.
 - Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.
- Seeding**
 - Seed from recommendations in Table 7-2.
 - Conventional Seeding. Apply seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse textured soil.
 - Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short-fibered mulch may be applied with a hydroseeder following seeding. (also see Section IV Mulching) Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. Poor seed to soil contact occurs reducing seed germination and growth. Hydroseeding may be used for areas too steep for conventional equipment, to traverse or too obstructed with rocks, stumps, etc.
 - After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seeding emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
- Mulching**

Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement.

 - Straw or Hay. Unrotted small grain straw, hay free of seeds, applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed. Application. Spread mulch uniformly by hand or mechanically so that approximately 95% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square foot sections and distribute 70 to 90 pounds within each section. Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.
 - Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
 - Mulch Nettings. Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
 - Crimper (mulch anchoring tool). A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
 - Liquid Mulch-Binders. - May be used to anchor hay or straw mulch.
 - Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
 - Use one of the following:
 - Organic and Vegetable Based Binders - Naturally occurring, powder based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
 - Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing, shall no longer be soluble or dispersible in water. Binder shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
- Wood-fiber or paper-fiber mulch. Shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder. This mulch shall not be mixed in the tank with seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.
- Pelletized mulch. Compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs./1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired or on sites where straw mulch and tackifier agent are not practical or desirable.

Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.

STANDARD FOR MAINTAINING VEGETATION

Definition:

The perpetuation of vegetative cover.

Purpose:

To ensure the continuing vigor and function of vegetative cover and enhance the environment. It is usually less costly to carry on a maintenance program than it is to make repairs after an extended period of neglect.

Water Quality Enhancement:

Ensures adequate permanent cover and prevents exposure of soils to erosion and off site sedimentation from stormwater runoff impacts.

Where Applicable:

On areas where existing vegetation protects or enhances the environment.

Methods and Materials:

A preventative maintenance program anticipates requirements and accomplishes work when it can be done with least effort and expense to insure adequate vegetative cover.

Maintenance should occur on a regular basis, consistent with favorable plant growth, soil, and climatic conditions. This involves regular seasonal work for mowing, fertilizing, liming, watering, pruning, fire control, weed and pest control, reseeding, and timely repairs.

The degree of preventative maintenance depends upon the category of the vegetation and land; i.e., improved, semi-improved, and unimproved grounds.

- Mowing is a recurring practice and its intensity depends upon the function of the ground cover. On high to moderate (A to B) maintenance areas, such as towns, certain recreation fields, and picnic areas, mowing will be frequent (2 to 7 day intervals) and typically at a height of 2.5 to 3 inches. Return clippings from mowing (mulching mow) to the turf to reduce the amount of fertilizer needed to maintain the turf by as much as 50%. Some turf mixtures can be managed as naturalized stands requiring only one (cool season mixtures) or two (warm season mixtures) mowings per year. Mowing of naturalized areas is typically done at heights no less than 4 inches and should not be done between April 1st and July 15th to avoid disturbing ground nesting birds. The large amount of clipping debris generated by mowing naturalized areas will need to be removed and/or dispersed so the vegetation is not smothered. Burning of naturalized areas is another procedure used to manage naturalized turfs. Low maintenance (D) areas may be left unmowed to permit natural succession. See pg. 4-13 footnote #4, Maintenance Levels A, B, C and D in the Standard for Permanent Vegetative Cover, Table 4-3.
- Incorporation of organic matter (for example, mature compost) into the soil will substantially reduce the need for fertilizer and irrigation inputs.
- Fertilizer and lime should be applied as needed to maintain a dense stand of desirable species. Frequently mowed areas and those on sandy soils will require more frequent fertilization but at lower nutrient rates per application.
- Time requirement should be determined by soil testing every 2 or 3 years. Fertilization may increase the need for liming. Contact the local county extension office for details on soil testing and fertilization and pest control recommendations online at <http://njpes.rutgers.edu/county/>.
- Fertilization and additions of other soil amendments are not recommended for managing native vegetation such as in the Pinelands National Reserve. See the Standard for Permanent Vegetative Stabilization for specific requirements in the PNR.
- Weed invasion may result from abusive mowing and from inadequate fertilizing and liming. Many newly established grasses will not survive if mowed at heights below 2.5 inches and at intervals greater than 7 days. Brush invasion is a common consequence of lack of mowing. The amount of weeds or brush that can be tolerated in any vegetated area depends upon the intended use of the land. Drainage ways are subject to rapid infestation by weed and woody plants. These should be controlled, since they often reduce drainage way efficiency. Control of weeds or brush is accomplished by using herbicides or mechanical methods.
- Fire hazard is greater where dry vegetation has accumulated. The taller the vegetation, the greater the hazard.
- Prune trees and shrubs to remove dead or damaged branches. Remove undesirable or invasive plants to maintain integrity of the landscape and enhance quality of permanent vegetative cover.

USDA PLANT HARDINESS ZONES

Average Annual Minimum Temperature - New Jersey

Hardiness Zones:

Range of average annual minimum temperatures for each zone (degrees Fahrenheit)

- | | | |
|----------------------|---|---|
| Zone 5b (-10 TO -15) | - | Includes portions of Sussex and Warren Counties. |
| Zone 6a (-5 TO -10) | - | Includes portions of Sussex, Warren, Passaic, Morris, Somerset and Hunterdon Counties. |
| Zone 6B (0 TO -5) | - | Includes portions of Bergen, Sussex, Morris, Essex, Hudson, Union, Somerset, Middlesex, Mercer, Hunterdon, Monmouth, Ocean, Burlington, Camden, Gloucester, Atlantic, Cumberland and Cape May Counties. |
| Zone 7a (5 TO 0) | - | Includes portions of Camden, Gloucester, Salem, Gloucester, Cape May, Atlantic, Burlington, Ocean and Monmouth Counties. |
| Zone 7B (10 TO 5) | - | Includes portions of Cape May, Atlantic, Ocean and Monmouth Counties. |

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Definition:

Establishment of permanent vegetative cover on exposed soils where perennial vegetation is needed for long-term protection.

Purpose:

To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.

Water Quality Enhancement:

Slows the over-land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

Where Applicable:

On exposed soils that have a potential for causing off-site environmental damage.

Methods and Materials:

- Site Preparation**
 - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.
 - Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
 - Topsoll should be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoll shall be amended with organic matter, as needed, in accordance with the Standard for Topsoiling.
 - Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.
- Seedbed Preparation**
 - Uniformly apply ground limestone and fertilizer to topsoll which has been spread and firmed, according to soil test recommendations such as offered by Rutgers Co-operative Extension. Soil sample mappers are available from the local Rutgers Cooperative Extension offices (<http://njpes.rutgers.edu/county/>). <http://njpes.rutgers.edu/county/> Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seedbed preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.
 - Work time and fertilizer into the topsoll as nearly as practical to a depth of 4 inches with disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.
 - High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid-Producing Soils for specific requirements.
- Seeding**
 - Select a mixture from Table 4-3 or use a mixture recommended by Rutgers Cooperative Extension or Natural Resources Conservation Service which is approved by the Soil Conservation District. Seed germination shall have been tested within 12 months of the planting date. No seed shall be accepted with a germination test date more than 12 months old unless retested.
 - Seeding rates specified are required when a report of compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in rates may be used when permanent vegetation is established prior to a report of compliance inspection. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative coverage with the specified seed mixture for the seeded area and mowed once.
 - Warm-season mixtures are grasses and legumes which maximize growth at high temperatures, generally 85°F and above. See Table 4-3 mixtures 1 to 7. Planting rates for warm-season grasses shall be the amount of Pure Live Seed (PLS) as determined by germination testing results.
 - Cool-season mixtures are grasses and legumes which maximize growth at temperatures below 85°F. Many grasses become active at 65°F. See Table 4-3, mixtures 8-20. Adjustment of planting rates to compensate for the amount of PLS is not required for cool season grasses.
 - Conventional Seeding is performed by applying seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil within 24 hours of seedbed preparation to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse-textured soil.
 - After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seeding emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
 - Hydroseeding is a broadcast seeding method usually involving a truck, or trailer-mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short-fibered mulch may be applied with a hydroseeder following seeding. (also see Section 4-Mulching below) Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. When poor seed to soil contact occurs, there is a reduced seed germination and growth.
 - Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
 - Mulch Nettings. Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
 - Crimper (mulch anchoring tool) - A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
 - Liquid Mulch-Binders - May be used to anchor salt hay, hay or straw mulch.
 - Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
 - Use one of the following:
 - Organic and Vegetable Based Binders - Naturally occurring, powder-based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turf grass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
 - Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and, following application of mulch, drying and curing, shall no longer be soluble or dispersible in water. Binder shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
 - If soil moisture is deficient supply new seeding with adequate water (a minimum of 1/4 inch applied up to twice a day until vegetation is well established). This is especially true when seedings are made in abnormally dry or hot weather or on droughty sites.
- Topdressing**

Since soil organic matter content and slow release nitrogen fertilizer (water insoluble) are prescribed in Section 2A - Seedbed Preparation in this Standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists in the soil to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 300 pounds per acre or 7 pounds per 1,000 square feet every 3 to 5 weeks until the gross nitrogen deficiency in the turf is ameliorated.
- Establishing Permanent Vegetative Stabilization.**

The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rates in Table 4-3 are required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and mowed once. Note this designation of mowed once does not guarantee the permanency of the turf should other maintenance be required.

SOIL DE-COMPACTATION AND TESTING REQUIREMENTS

Soil Compaction Testing Requirements

- Subgrade soils prior to the application of topsoll (see permanent seeding and stabilization notes for topsoll requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover.
- Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan.
- Compaction test locations are denoted on the plan. A copy of the plan or portion of the plan shall be attached to the report of compliance and to the compaction mitigation verification form, available from the local soil conservation district. This form must be filled out and submitted prior to receiving a certificate of compliance from the district.
- In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details below), the contractor/owner shall have the option to perform either (1) compaction mitigation over the entire mitigation area denoted on the plan (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively compacted areas would require compaction mitigation. Additional detailed testing shall be performed by a trained, licensed professional.

Compaction Testing Methods

- Probing Wire Test (see detail)
- Hand-held Penetrometer Test (see detail)
- Tube Bulk Density Test (licensed professional engineer required)
- Nuclear Density Test (licensed professional engineer required)

Note: Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement may be allowed subject to District approval.

- Soil compaction testing is not required if/when subsoil compaction remediation (scarification/tillage (6" minimum depth) or similar) is proposed as part of the sequence of construction.
- Procedures for Soil Compaction Mitigation shall be used to mitigate excessive soil compaction prior to placement of topsoll and establishment of permanent vegetative cover.
- Restoration of compacted soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.). In the alternative, another method as specified by a New Jersey Licensed Professional Engineer may be substituted subject to District Approval.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- All applicable erosion and sediment control practices shall be in place prior to any grading operation and/or installation of proposed structures or utilities.
- Soil erosion and sediment control practices on this plan shall be constructed in accordance with The Standards for Soil Erosion and Sediment Control in New Jersey.
- Applicable erosion and sediment control practices shall be left in place until construction is completed and/or the area is stabilized.
- The contractor shall perform all work, furnish all materials and install all measures required to reasonably control soil erosion resulting from construction operations and prevent excessive flow of sediment from the construction site.
- Any disturbed area that is to be left exposed for more than thirty (30) days and not subject to construction traffic shall immediately receive a temporary seeding and fertilization in accordance with the New Jersey Standards and their rates should be included in the narrative. If the season prohibits temporary seeding, the disturbed areas will be mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards (i.e. peg and twine, mulch netting or liquid mulch binder).
- It shall be the responsibility of the developer to provide confirmation of lime, fertilizer and seed application and rates of application at the request of the Gloucester soil conservation district.
- All critical areas subject to erosion will receive a temporary seeding in combination with straw mulch at a rate of 2 tons per acre, according to the New Jersey Standards immediately following rough grading.
- The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- All sedimentation structures will be inspected and maintained on a regular basis and after every storm event.
- A crushed stone, fire cleaning pad will be installed wherever a construction access exists. The stabilized pad will be installed according to the standard for stabilized construction access.
- All driveways must be stabilized with 2 1/2" crushed stone or subbase prior to individual lot construction.
- Paved areas must be kept clean at all times.
- All catch basin inlets will be protected according to the certified plan.
- All storm drainage outlets will be stabilized, as required, before the discharge points become operational.
- All dewatering operations must discharge directly into a sediment filter area. The sediment filter should be composed of a suitable sediment filter fabric. (see detail). The basin must be dewatered to normal pool within 10 days of the design storm.
- USDA 4-24-30a at all sites requires that no certificate of occupancy be issued before all provisions of the certified soil erosion and sediment control plan have been complied with for permanent measures. All site work for the project must be completed prior to the district issuing a report of compliance as a prerequisite to the issuance of a certificate of occupancy by the municipality.
- Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier vegetation cover.
- Offsite sediment disturbance may require additional control measures to be determined by the erosion control inspector.
- A copy of the certified soil erosion and sediment control plan must be maintained on the project site during construction.
- The Gloucester Soil Conservation District shall be notified 48 hours prior to any land disturbance.
- Any conveyance of this project prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
- Immediately after the completion of stripping and stockpiling of topsoll, the stockpile must be stabilized according to the standard for temporary vegetative cover, stabilize topsoll stockpile with straw mulch for protection if the season does not permit the application and establishment of temporary seeding. All soil stockpiles are not to be located within fifty (50) feet of a floodplain, slope, roadway or drainage facility and the base must be protected with a sediment barrier.
- Any changes to the site plan will require the submission of a revised soil erosion and sediment control plan to the Gloucester Soil Conservation District. The revised plan must be in accordance with the current New Jersey Standards for Soil Erosion and Sediment Control.
- Methods for the management of high acid producing soils shall be in accordance with the standards. High acid producing soils are those found to contain iron sulfides or have a pH of 4 or less.
- Temporary and permanent seeding measures must be applied according to the New Jersey Standards, and mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards (i.e. peg and twine, mulch netting or liquid mulch binder).
- Maximum side slopes of all exposed surfaces shall not be constructed steeper than 3:1 unless otherwise approved by the district.
- Dust is to be controlled by an approved method according to the New Jersey Standards and may include watering with a solution of calcium chloride and water.
- Adjoining properties shall be protected from excavation and filling operations on the proposed site.
- Use staged construction methods to minimize exposed surfaces, where applicable.
- All vegetative material shall be selected in accordance with American Standards for Nursery Stock of the American Association of the Nurseryman and in accordance with the New Jersey Standards.
- Vegetative material shall be stored and returned where specified on the landscaping plan.
- The soil erosion inspector may require additional soil erosion measures to be installed, as directed by the district inspector.

MAINTENANCE OF EROSION CONTROL MEASURES

Maintenance is the work required to keep practices in, or restore them to, their original physical and functional condition.

Maintenance as it applies to this section is divided into two periods; that which is necessary to allow for continuing performance of erosion controls during the construction period and long term maintenance, following completion of construction, for the life of structural measures.

Maintenance During Construction Phase

All structural measures for control of soil erosion and sedimentation must have timely maintenance if the measures are to endure and efficiently perform their design function. Particular attention should be given to temporary structures.

Sediment barriers such as silt fence and haybales can accumulate large quantities of sediment, particularly after a heavy storm. The same is true for stormsewer inlet protection, which should be frequently inspected for blockage.

Construction entrances composed of loose aggregate may become impacted with sediments scoured from the tires of construction vehicles. When soil begins to track onto paved surfaces, the aggregate must be replaced or new aggregate added on top of the old.

Maintenance Following Completion of Construction

At the completion of construction and final stabilization responsibility for lifetime maintenance of structural measures is usually transferred to a subsequent owner. Such maintenance is the responsibility of the owner and not the contractor. A comprehensive maintenance program should be prescribed for use of those who will accept such responsibility. All structures should be inspected at least semiannually and following intensive rainfalls. Maintenance items should include but not be limited to those shown for each of the following examples.

Channel Linings (include slope protection structures)

Check for: Cracking; spalling; deterioration from freezing, salt or chemicals; channel obstructions; scour at inlet and outlet.

Corrective Action: cracks should be sealed, protective coatings applied when needed, and modification or riprap repairs made where and when necessary.

Earth Channels (including diversions and waterways)

Check for: points of scour or bank failure and deposition; rubbish or channel obstruction; rodent holes; excessive wear from play, traffic or setting.

Corrective Action: remove sediment deposition and undesirable plant growth such as woody vegetation, weeds, etc. Repair damages from scour, rodents and loss of freboard.

Dams and Spillways

Check for: fill surfaces, damage from wave action, rodents, undesirable vegetation growth, and obstructions to principal and emergency spillways. Check gates, trash racks, metal work, anchors, conduits and appurtenances for damage from corrosion, ice and debris. Check for unauthorized modifications, tampering or vandalism.

Corrective Action: fill and reseed eroded areas or riprap, removal of obstructions should be performed on a timely basis. Valves and gates should be cleaned, lubricated and operated through their full range.

Maintenance and inspection of dam and outlet structures may be subject to the requirements of the New Jersey State Dam Safety Standards, NJAC 7-20.

Water Quality Practices: Various structures and practices are designed to treat stormwater runoff by filtering in some manner. Practices such as sand filters and vegetative filter strips can become clogged with debris and sediment and will lose their ability to treat runoff. Periodic inspection and cleaning is needed to maintain filtration capacity. Other types of treatment practices rely on settlement of suspended solids, such as on-line stormsewer devices and wet or extended detention ponds. Over time, debris and sediment may accumulate in these devices and reduce the available volume needed to treat runoff. Periodic inspection and removal of debris is necessary to maintain function.

Vegetative Maintenance: Vegetation is used as both a temporary and permanent erosion control practice. During establishment it is highly susceptible to damage both from natural and man-made causes. See the Standard for Maintaining Vegetation, pg. 3-1 for complete requirements.

STANDARD FOR DUST CONTROL

Definition:

The control of dust on construction sites and roads.

Purpose:

To prevent blowing and movement of dust from exposed soil surfaces, reduced on-site and off-site damage and health hazards and improve traffic safety.

Condition Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on-site and off-site damage is likely without treatment. Consult with local municipal ordinances on any restrictions.

Water Quality Enhancement

Sediments deposited as "dust" are often fine colloidal material which is extremely difficult to remove from water once it becomes suspended Use of this standard will help to control the generation of dust from construction sites and subsequent blowing and deposition into local surface water resources.

Planning Criteria

The following methods should be considered for controlling dust:

Mulches - See Standard of Stabilization with Mulches On pg. 5-1

Vegetative Cover - See Standard for Temporary Vegetative Cover, pg. 7-1, Permanent Vegetative Cover for Soil Stabilization pg. 4-1 and Permanent Stabilization with Sod, pg. 6-1

Spray-On Adhesives - On mineral soils (not effective on muck soils). Keep traffic off these areas.

Tillage - To rough surface and bring soil to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart and spring-toothed harrows are examples of equipment which may produce the desired effect.

Seeding - Site is sprinkled until the surface is wet.

Barriers - Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Calcium Chloride - Shall be in the form of loose, dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams or accumulation around plants.

Stones - Cover surface with crushed stone or coarse gravel.

GUIDE FOR CONSTRUCTION SPECIFICATIONS

The following are examples of requirements that may be used for preparing construction specifications. Incorporation of such requirements, will help assure protection of disturbed areas, especially where critical soil erosion problems may exist.

The contractor shall perform all work, furnish all materials, and install all measures required to reasonably control soil erosion, resulting from construction operations and minimize loss of sediment from the construction site. The contractor shall adhere to the certified soil erosion and sediment control plan, showing the methods to be used for controlling erosion during construction, which includes sequence of construction operations. When to be performed on critical areas for more than 60 days, they shall be protected by temporary seeding, mulching, or sodding, or the slope lengths shall be reduced by the installation of diversions or other means.

The contractor shall install erosion controls on all disturbed critical areas or disturbances adjacent to critical areas.

Critical areas are any areas subject to excessive erosion due to highly erodible soils, slope length, steepness, water concentration or other factors. Areas may become critical when the vegetation or other soil surface protection is removed.

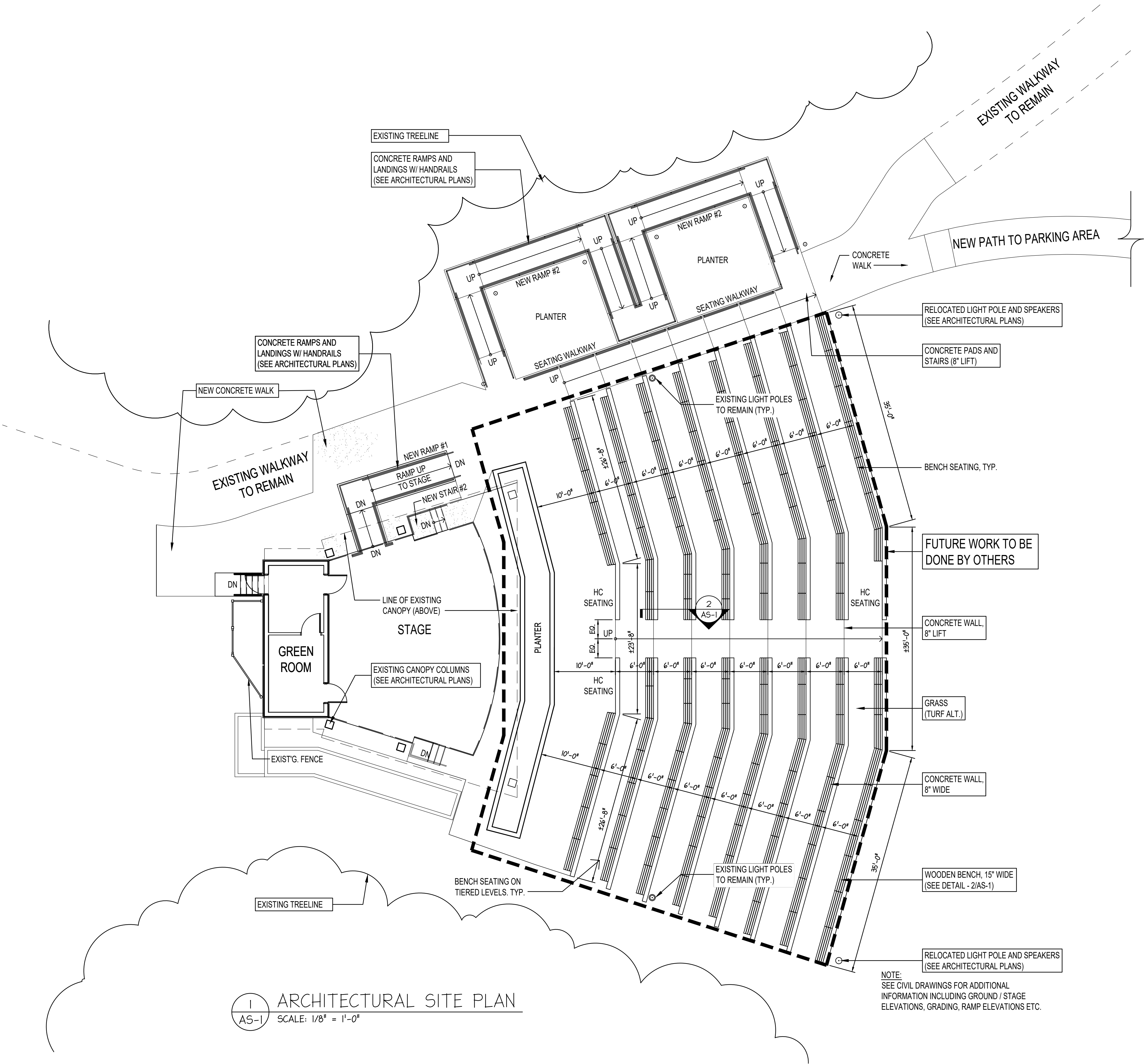
Excavated soil material shall not be placed adjacent to rivers, streams, or bodies of water, in a manner that will cause it to be washed away by high water or runoff. Excess borrow material removed from the construction site shall be stabilized at the point of placement.

The contractor shall comply with applicable State and local regulations for prevention and abatement of pollution.

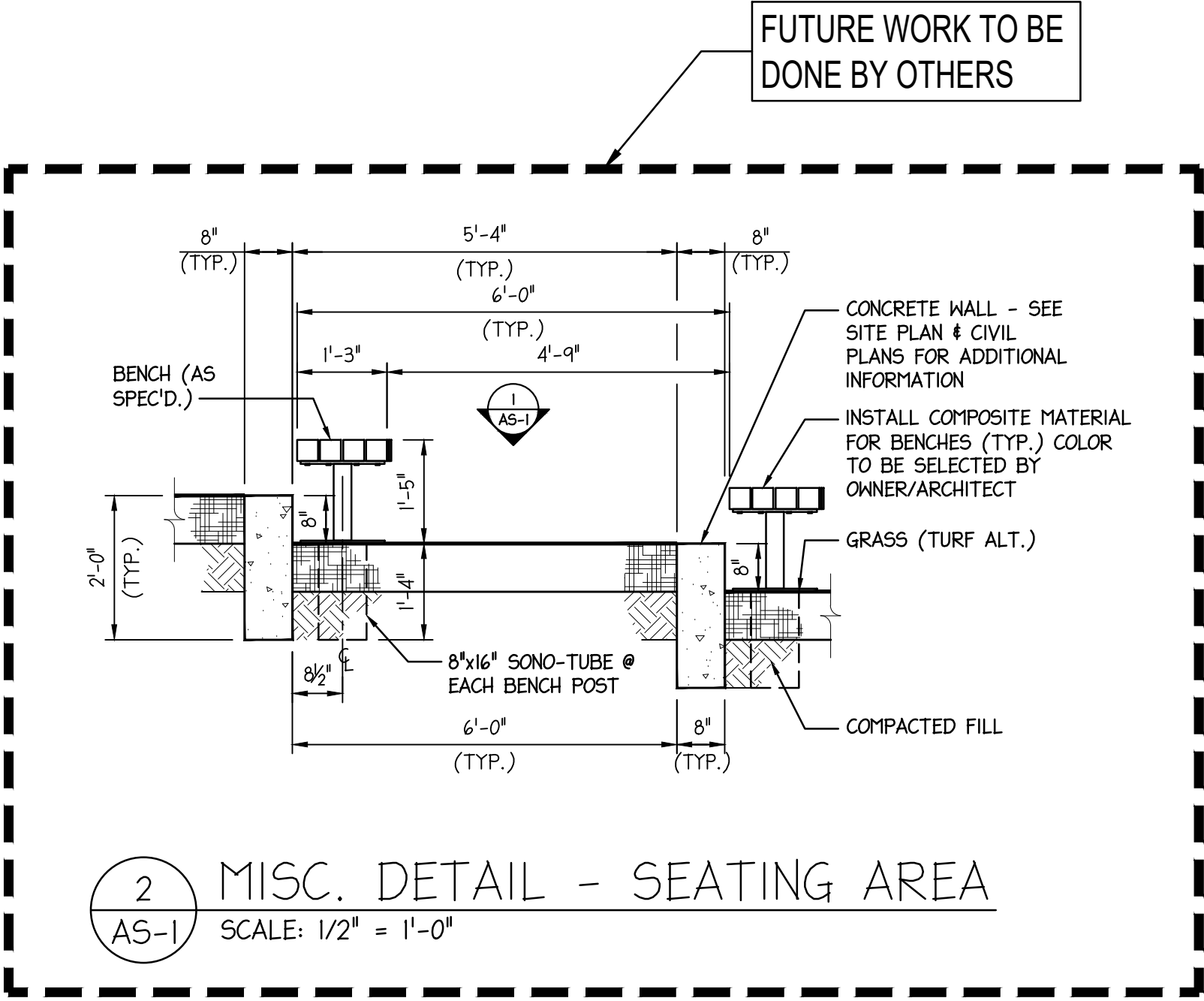
EDWARD F. FARELL III, PE, CME
PROFESSIONAL ENGINEER N.J. LICENSE NO. 06-46154

NO.	DATE	BY	REVISIONS
1	5/27/23	K.O.A.	E.F.F.3
2	9/25/24	K.O.A.	E.F.F.3
3	9/25/24	K.O.A.	E.F.F.3
4	10/24/26	DESIGNED FOR PERMITS	K.O.A.
5	7/20/26	REV. STAGE DESIGN AND ADD. ALTS.	B.S.P.
6	9/15/26	REV. ADD. ALTS.	E.F.F.3

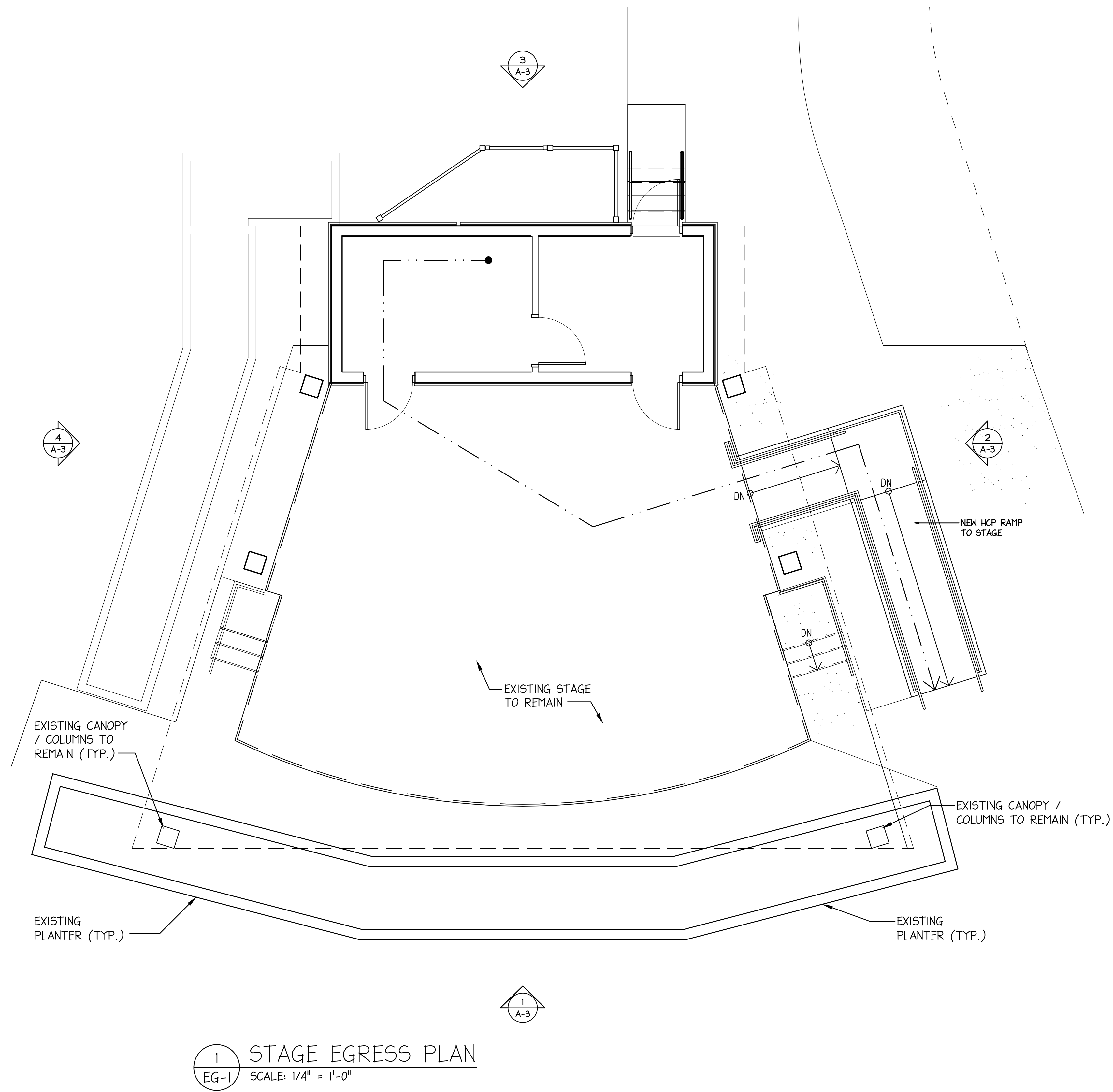
SOIL EROSION CONTROL NOTES
ATKINSON MEMORIAL PARK
AMPHITHEATER
TOWNSHIP OF WASHINGTON, COUNTY OF GLOUCESTER, STATE OF NEW JERSEY



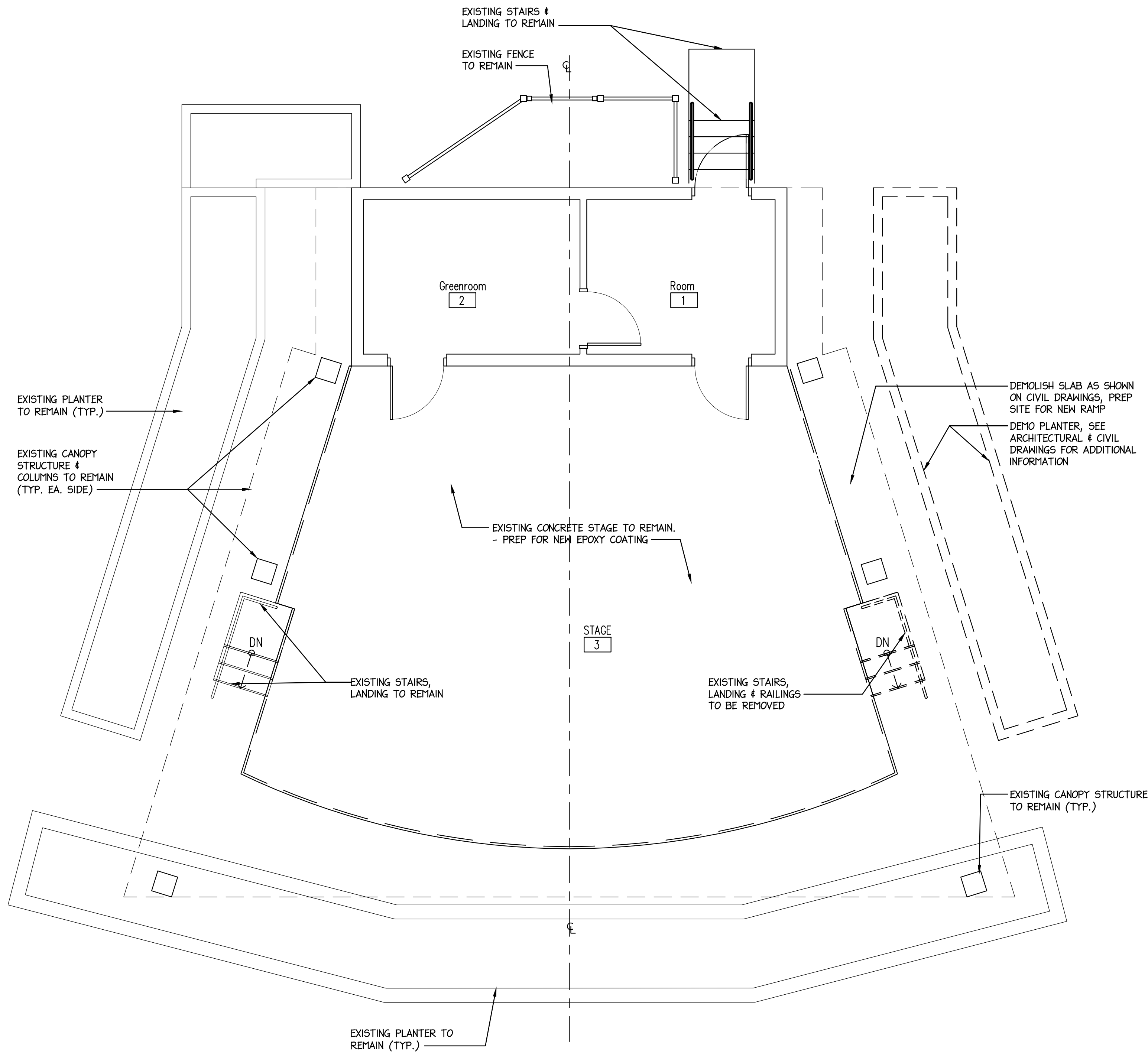
- BASE BID - SCOPE #1**
- NEW ADA RAMP #2 AND SEATING WALKWAY FROM THE TOP SIDEWALK CONNECTING TO THE BOTTOM NEAR THE AMPHITHEATER
 - NEW ADA RAMP #1 TO THE STAGE
 - NEW SMALL STAIR #2 ON THE RIGHT SIDE OF THE STAGE
 - EPOXY THE STAGE FLOOR
- ALT #1**
- NEW SOUND SYSTEM, ANY ADDITIONAL LIGHTING (IF RECOMMENDED)
- FUTURE WORK BY OTHERS**
- STADIUM SEATING (BASE BID AS SHOWN ON ARCHITECTURAL SITE PLAN SHEET AS-1)
 - NEW SMALL STAIR #1 ON THE LEFT SIDE OF THE STAGE
 - NEW STAIR #3 @ THE REAR OF THE BUILDING WITH AN ADDED LANDING
 - REMOVE EXISTING AND INSTALL NEW EP HENRY PLANTER BOX AS PER PLAN
 - NEW EP HENRY STONE COLUMN BASES @ EACH COLUMN
 - (3) ADDITIONAL ROWS OF TIERED SEATING
 - INSTALL COMPOSITE BENCH SEATING



1	09-15-2026	ISSUE FOR BIDS	DESCRIPTION	DF / JFM
No.	DATE	REVISIONS	REVISIONS	REV'D BY
APPROVAL:		PROJECT:		
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER		
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
		Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 0084 PA ARCH. RA-0442-0 CT. ARCH. 7034		TITLE: ARCHITECTURAL SITE PLAN		
SEAL:		SCALE: AS NOTED DRAWING NO: AS-1		
DRAWINGS MUST BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN DRAWINGS AND CONSTRUCTION DO NOT SCALE DRAWING.		DATE: 09/25/26 REV'D: DRAWN BY: GES CHECKED BY: JFY/DF		
TICKET: 08/25/26 & 08/26/26				

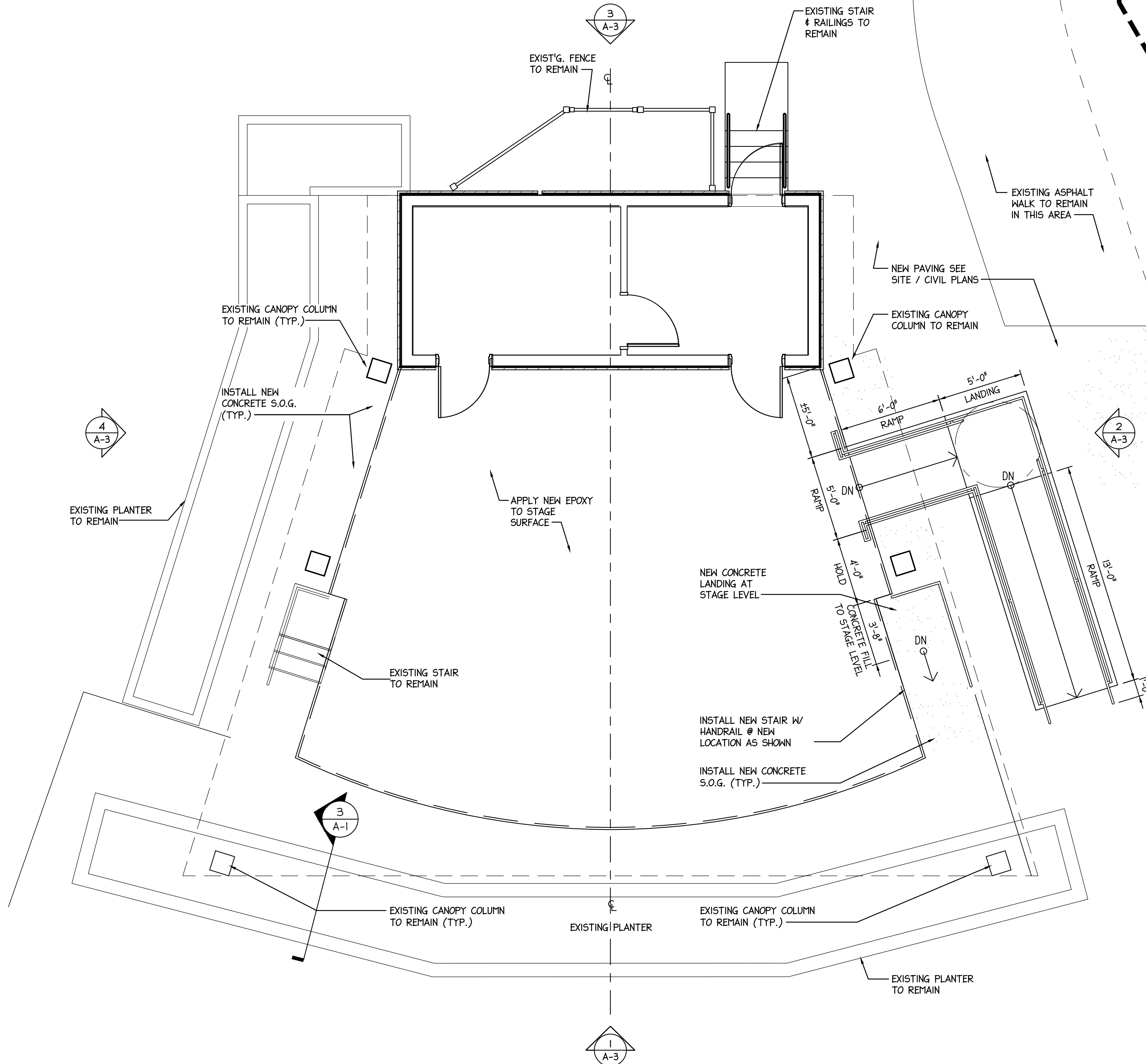


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REVISIONS			
APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: STAGE EGRESS PLAN & NOTES	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 1084 PA ARCH. RA-0442-D CT ARCH. 7534		SCALE: AS NOTED DATE: 09/29/26 REV'D: 6ES DRAWN BY: JPM/JDF	
SEAL:		DIMENSIONS MUST BE VERIFIED BY CONTRACTOR. VERIFY THE ARCHITECT'S PLANS FOR CONSTRUCTION BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.	
TICKETMASTER ADDRESS & PHONE COPYRIGHT 2026		DRAWING NO: EG-1	

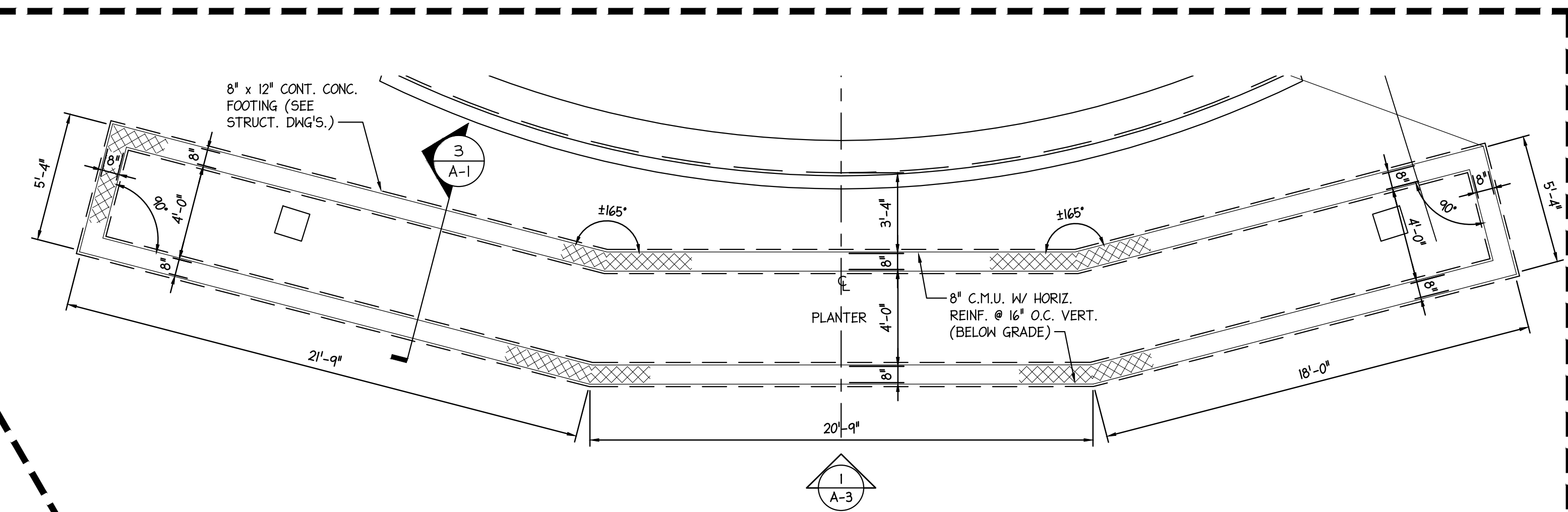


1 DEMOLITION PLAN
D-1 SCALE: 1/8" = 1'-0"

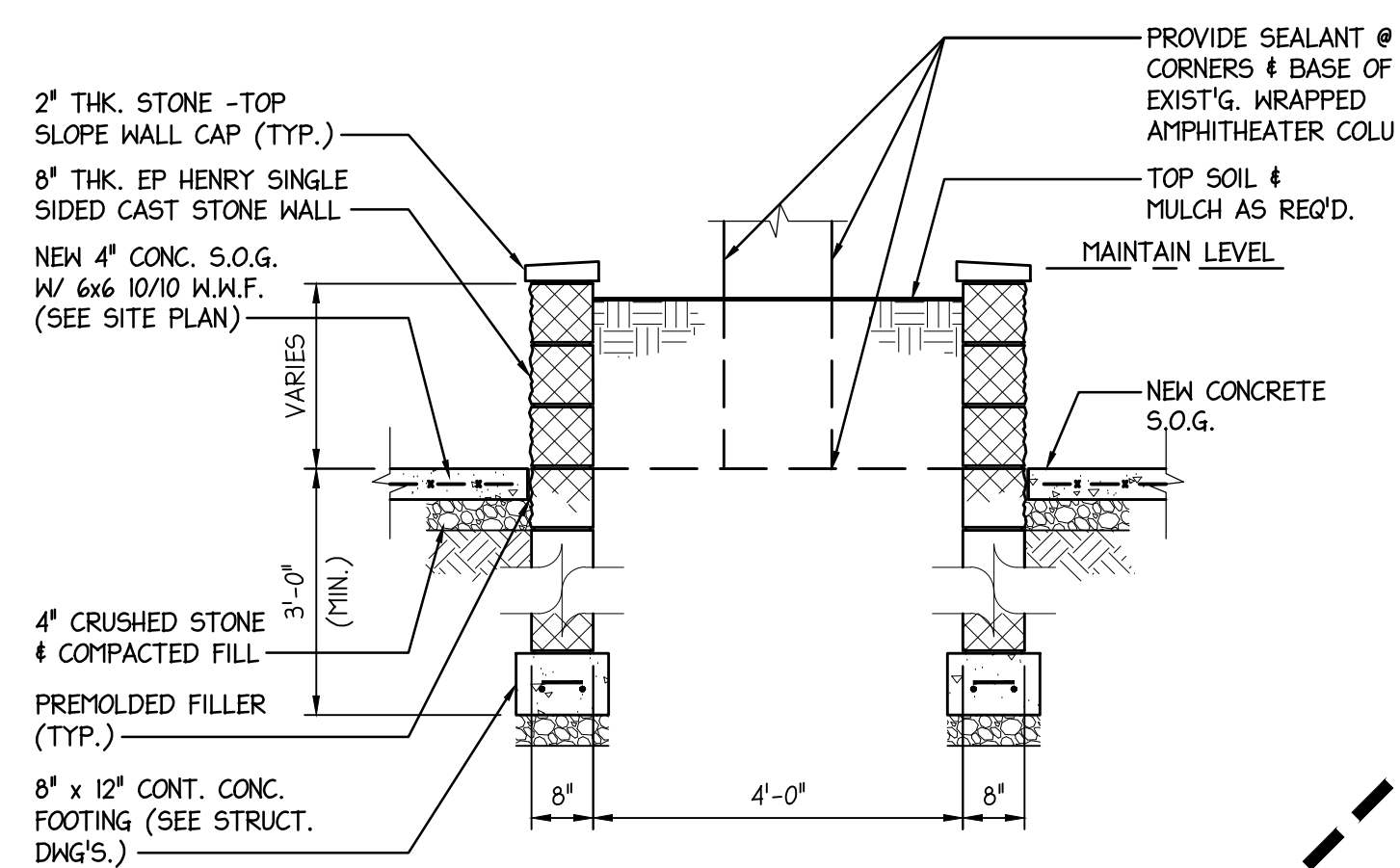
1	09-15-2026	ISSUE FOR BIDS	DF / JFM
No.	DATE	DESCRIPTION	REV'D BY
REVISIONS			
APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: DEMOLITION PLAN & NOTES	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 1084 - PA. ARCH. RA-0442-0 - CT. ARCH. 7524		SCALE: AS NOTED PROJECT NO.: 156A DATE: 09/25/26 REV'D: DRAWN BY: GES CHECKED BY: JFYVDF	
CONTRACTOR MUST BE VERIFIED BY ARCHITECT OR ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.		ISSUING ARCHITECT & ASSOCIATES	



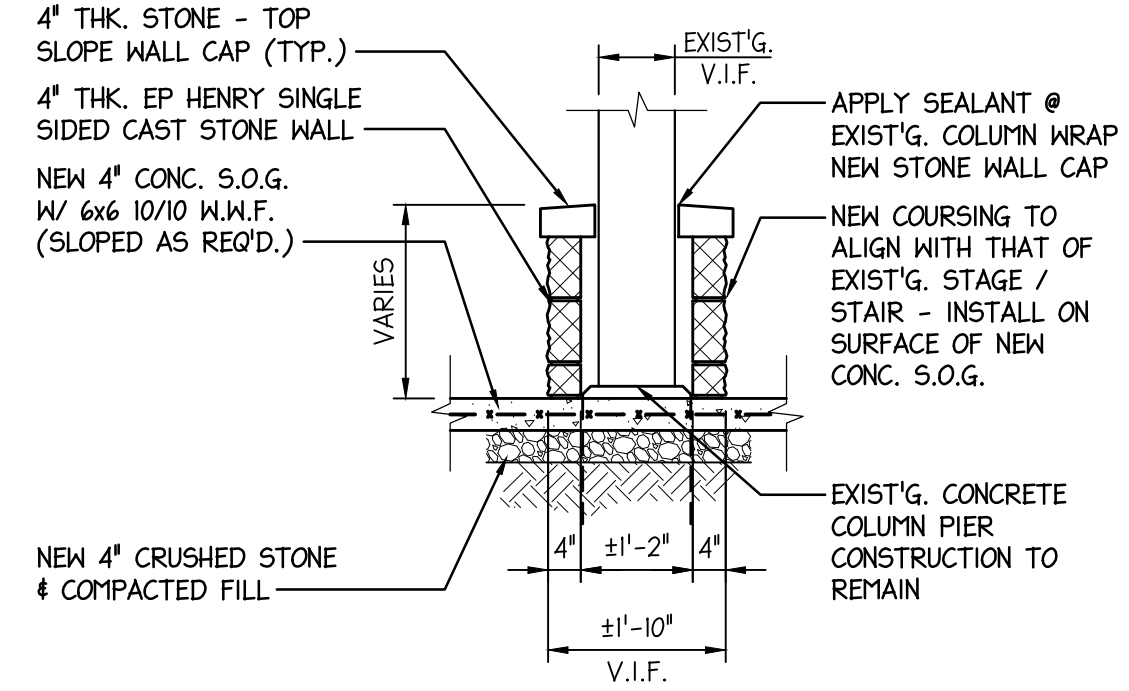
1 FLOOR PLAN
A-1 SCALE: 1/4" = 1'-0"



2 PLANTER FOUNDATION PLAN
A-1 SCALE: 1/4" = 1'-0"



3 PLANTER SECTION
A-1 SCALE: 1/2" = 1'-0"

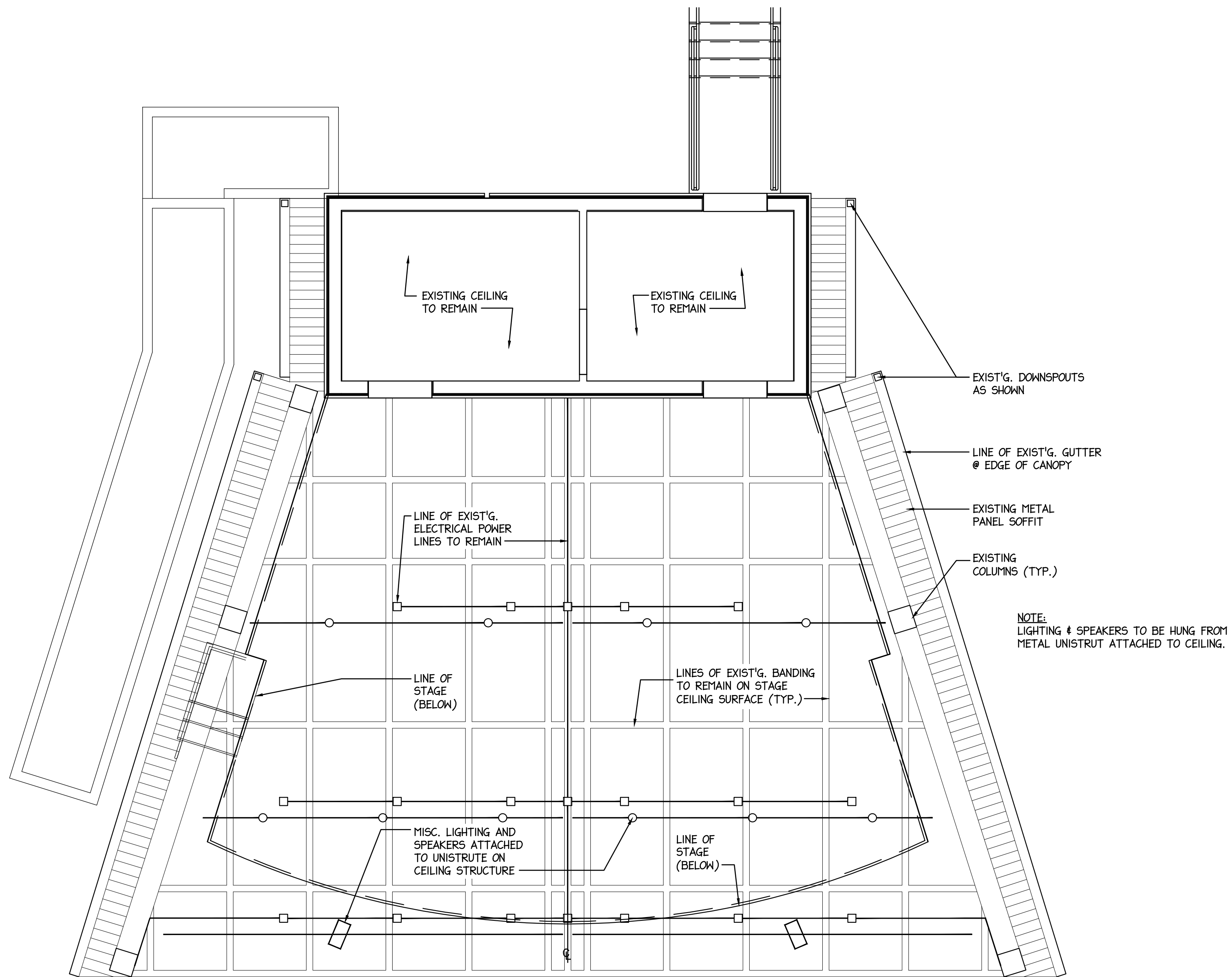


4 NEW MASONRY @ COLUMN BASE
A-1 SCALE: 1/2" = 1'-0"

- GENERAL NOTES:
1. ALL BIDDERS SHALL VISIT THE SITE PRIOR TO BIDDING AND BECOME FAMILIAR WITH ALL CONDITIONS. ANY DISCREPANCIES OR APPARENT PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST (14) DAYS PRIOR TO BIDDING.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
 3. ALL FOOTINGS SHALL BE A MINIMUM OF 1'-0" BELOW EXISTING UNDISTURBED GRADES AND 3/4" BELOW FINISHED GRADE. SEE CIVIL & STRUCTURAL DWG'S. FOR MORE INFORMATION.
 4. CONCRETE SLAB THICKNESS TO BE AS INDICATED ON THE ARCHITECTURAL, CIVIL AND STRUCTURAL DRAWINGS.
 5. ALL WORK SHALL CONFORM TO STANDARDS OF THE INDUSTRY FOR FINEST QUALITY WORKMANSHIP AND MATERIALS AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
 6. ALL WORK SHALL CONFORM TO GOVERNING CODES, AUTHORITIES, STANDARDS, AND REGULATIONS.
 7. GENERAL CONTRACTOR TO PROVIDE CONSTRUCTION SIGN & DIRECTIONAL SIGN OF EXTERIOR GRADE PLYWOOD PAINTED WITH NAMES AS DIRECTED BY ARCHITECT. LOCATION TO BE DETERMINED BY THE ARCHITECT & OWNER.
 8. SEE CIVIL DRAWINGS FOR NEW SITE WORK.

FUTURE WORK TO BE DONE BY OTHERS

1	09-15-2026	ISSUE FOR BIDS	DF / JFM
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APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE	
		JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
Joseph F. McKernan Jr., R.A.		TITLE:	
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		FLOOR PLAN / FND.	
		PLAN & MISC. DETAILS	
JOSEPH F. MCKERNAN JR., R.A.		SCALE: AS NOTED	
		DRAWING NO.	
		A-1	
CONTRACTOR MUST BE VERIFIED BY ARCHITECT PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWING.		SCALE: AS NOTED	
		PROJ. NO.: 156A	
		DATE: 09/25/26	
		REV'D:	
		DRAWN BY: GES	
		CHKD BY: JPM/DF	
TICKET: ADDRESS & REVISIONS			



1
A-2

CEILING PLAN

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

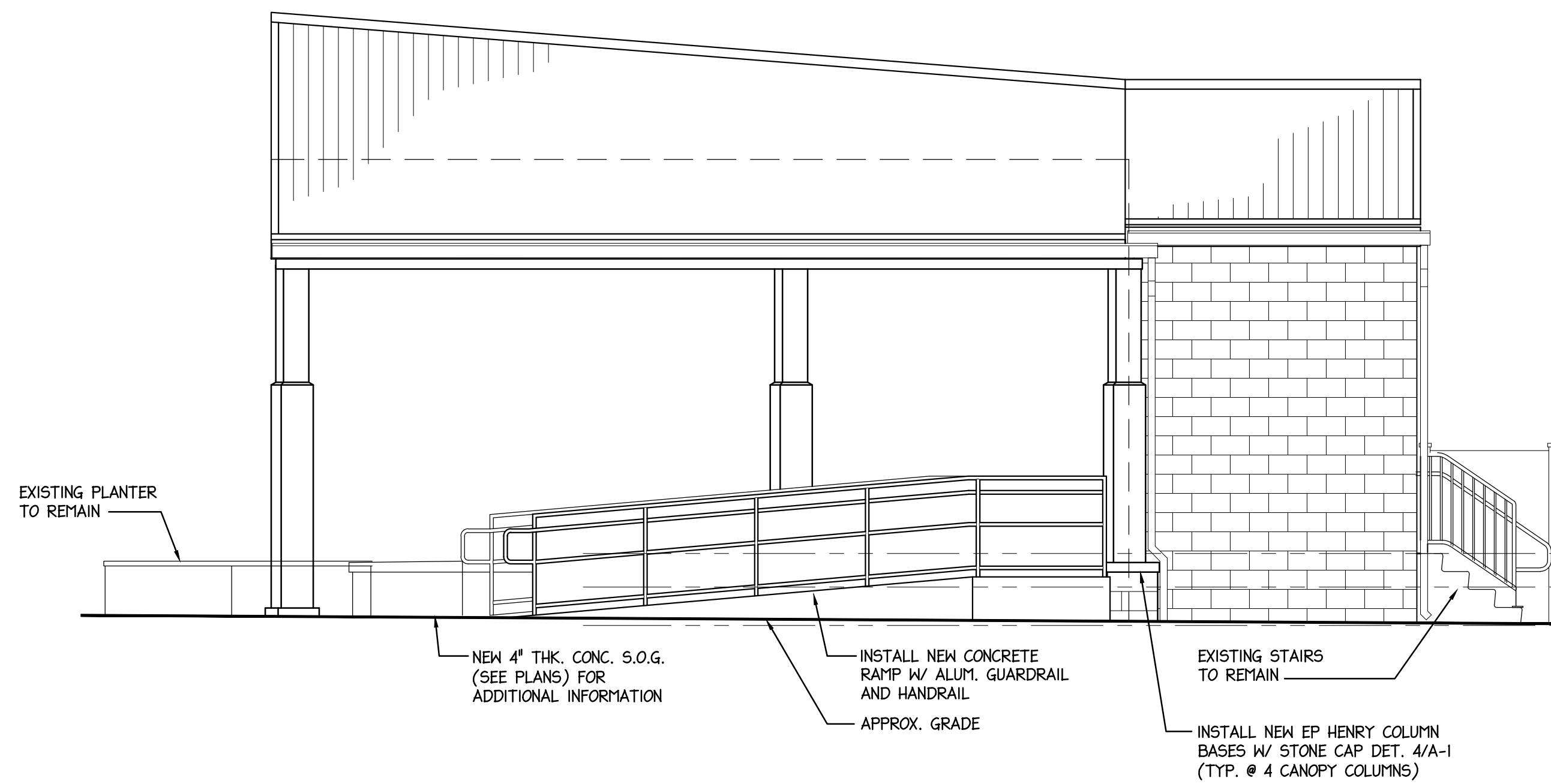
NOTES:

1. ALTERNATE #1 - INSTALL NEW LIGHTING & SOUND SYSTEM. SEE THEATER DRAWINGS FOR MORE INFORMATION

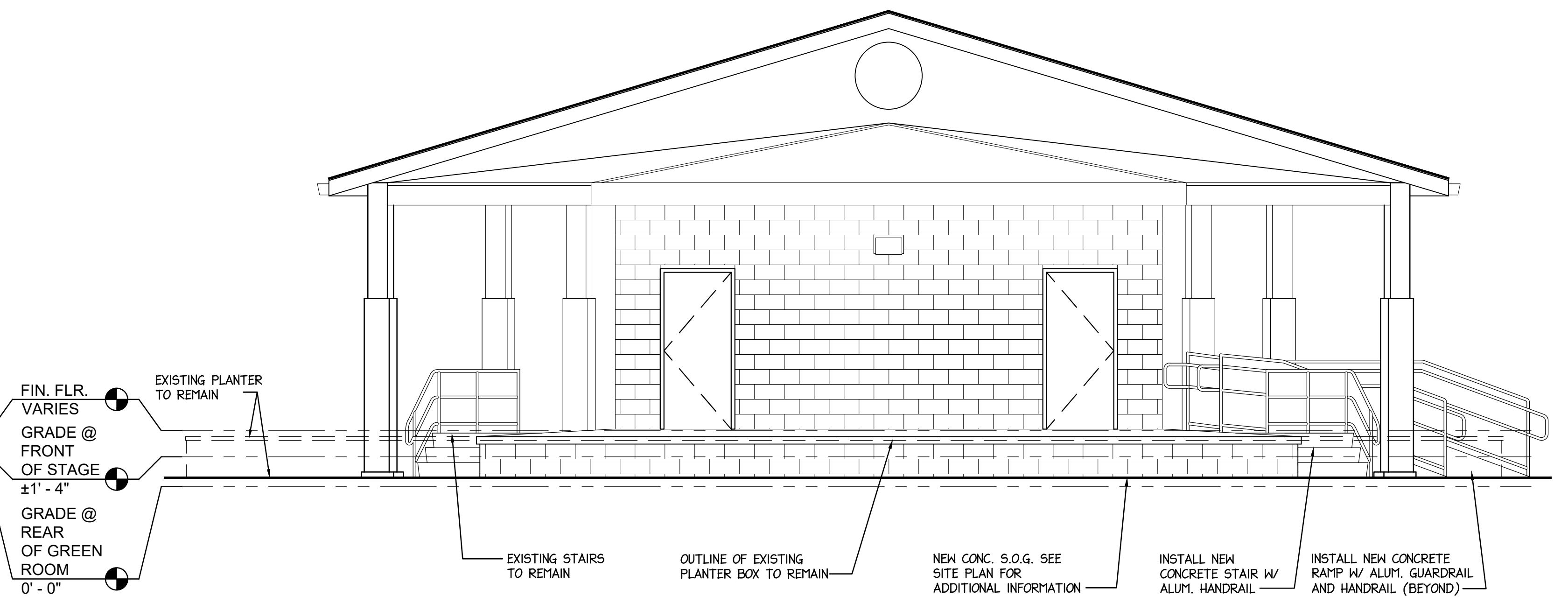
NOTE:

SEE DRAWINGS FROM HEWSHOTT SITE + SOUND + EXPERIENCES FOR ADDITIONAL EQUIPMENT & MATERIALS FOR SOUND & LIGHTING AT AMPHITHEATER AND VARIOUS PERIMETER SITE LOCATIONS AS WELL

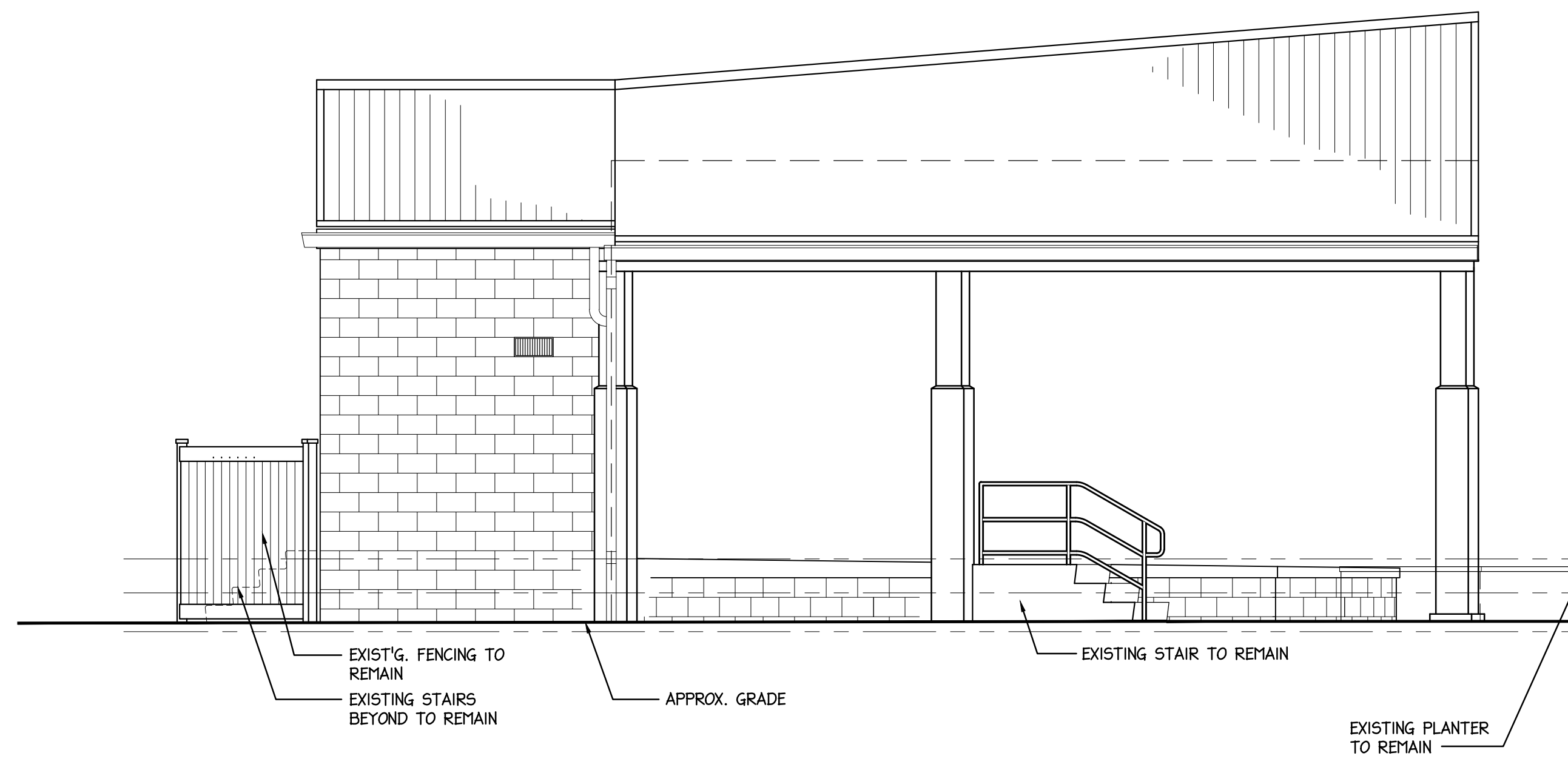
1	09-15-2026	ISSUE FOR BIDS	DF / JFM
No.	DATE	DESCRIPTION	REV'D BY
REVISIONS			
APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: CEILING PLAN	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 1084 - PA. ARCH. RA-0442-0 - CT. ARCH. 7534	SEAL:	DIMENSIONS MUST BE VERIFIED BY CONTRACTOR. VERIFY THE ACCURACY OF ALL DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.	SCALE: AS NOTED PROJECT NO.: 156A DATE: 09/25/26 REV'D: DRAWN BY: GES CHECKED BY: JPM/JDF
		DRAWING NO: A-2	



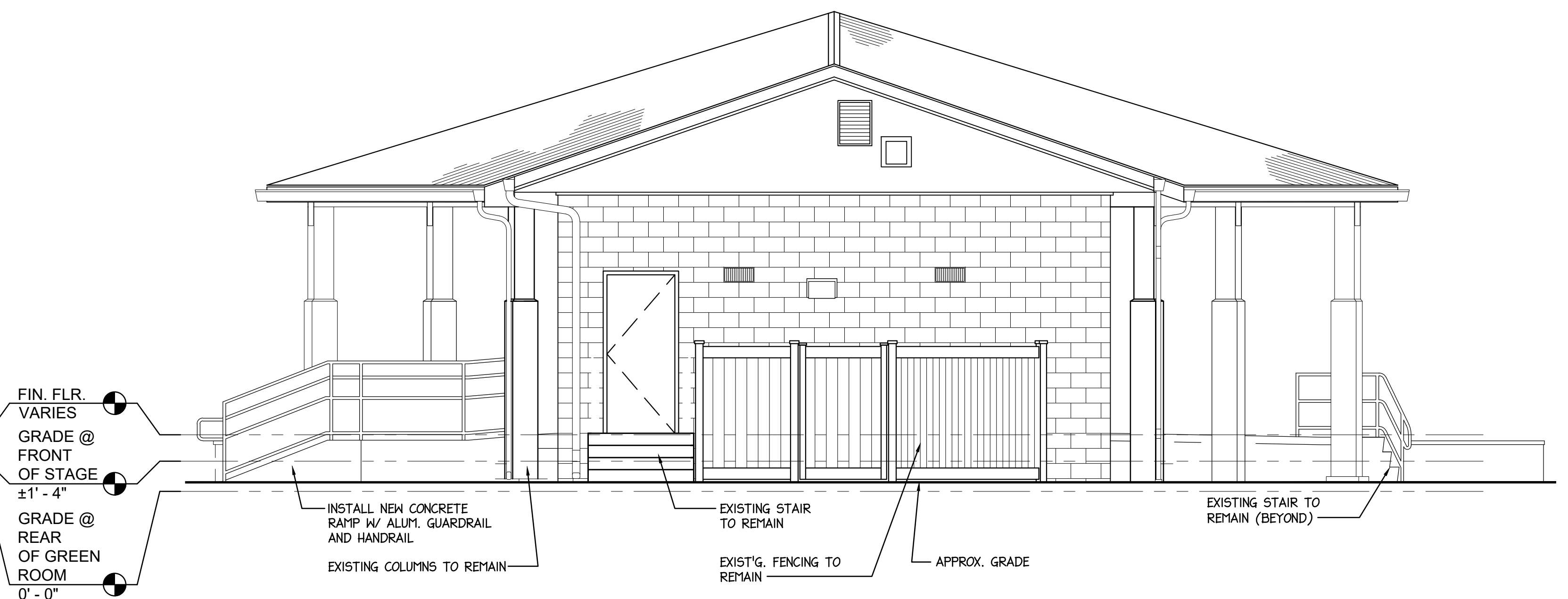
2 RIGHT SIDE ELEVATION
A-3 SCALE: 1/4" = 1'-0"



1 FRONT ELEVATION
A-3 SCALE: 1/4" = 1'-0"

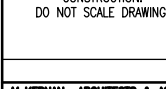


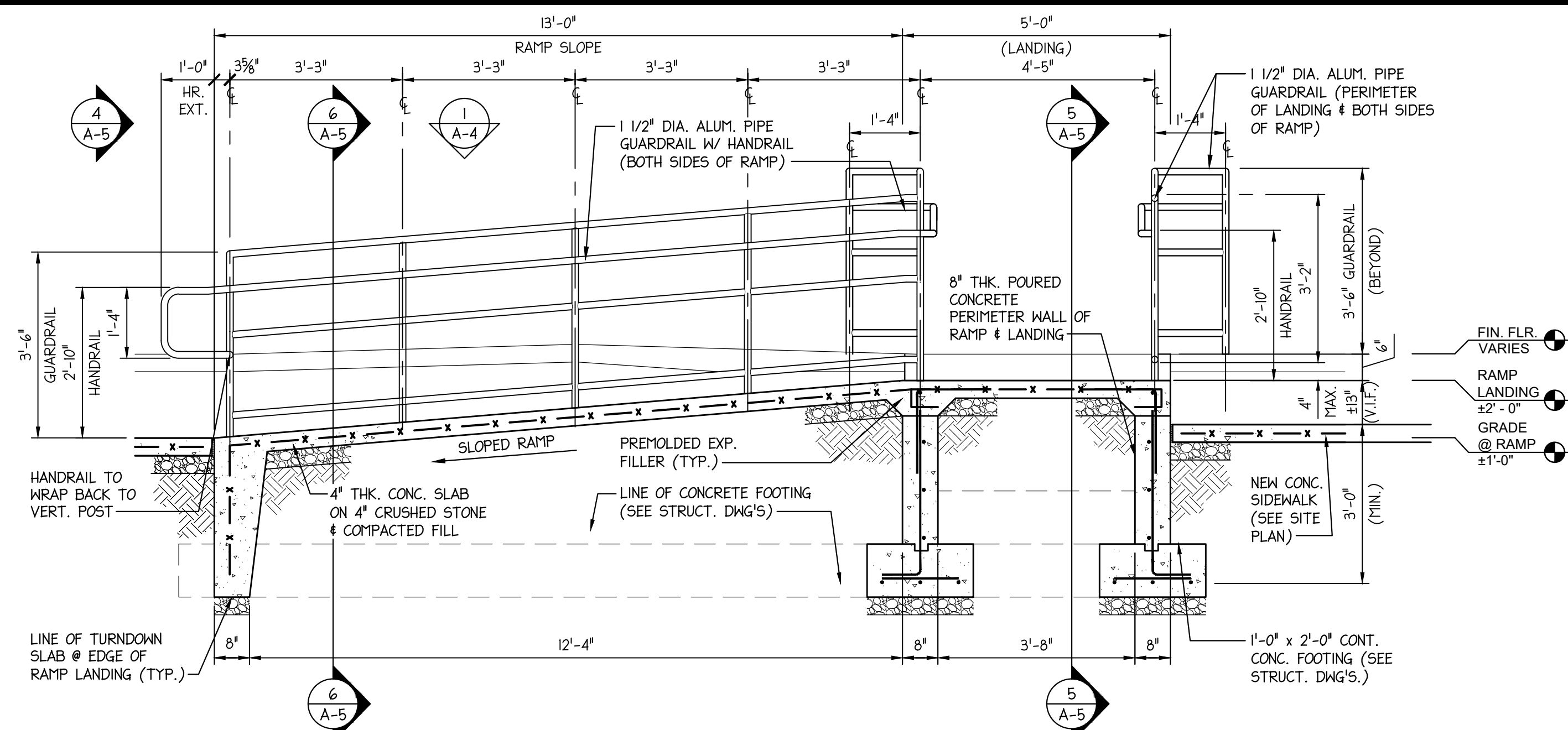
4 LEFT SIDE ELEVATION
A-3 SCALE: 1/4" = 1'-0"



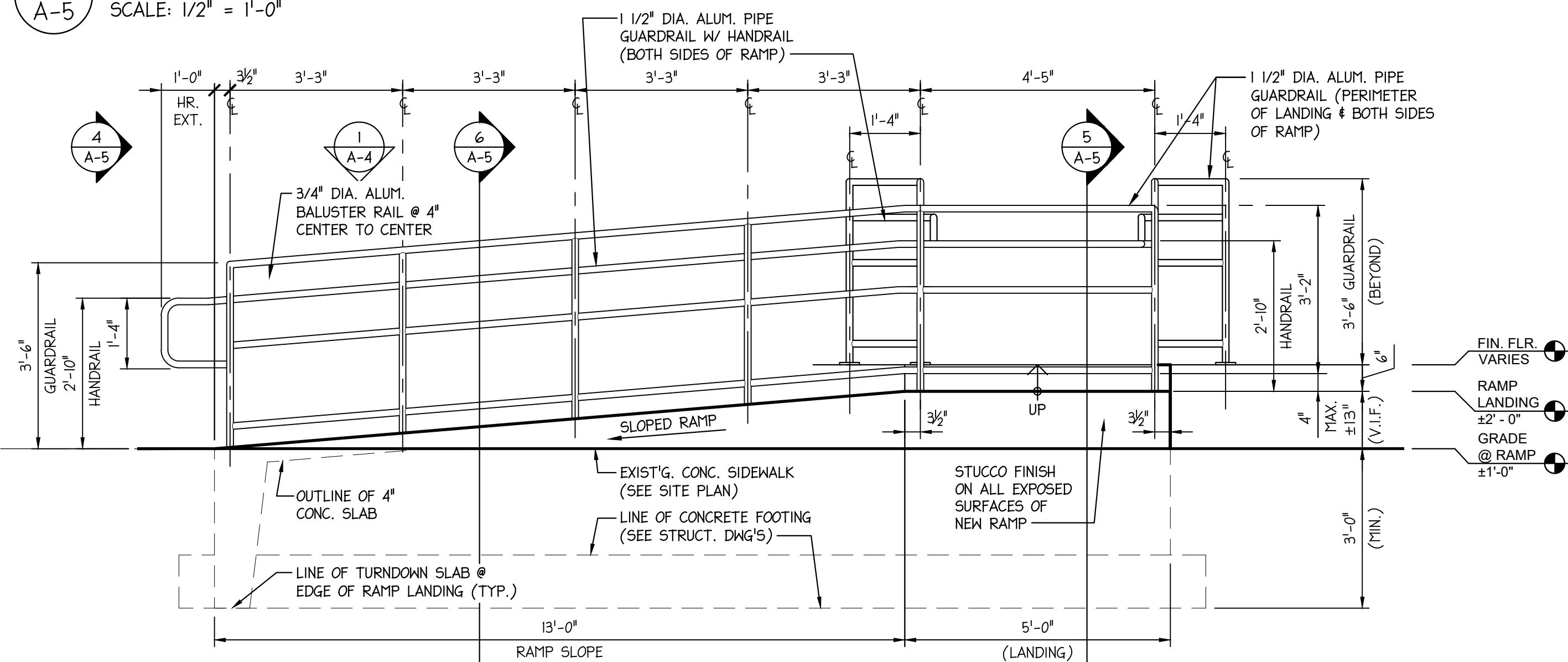
3 REAR ELEVATION
A-3 SCALE: 1/4" = 1'-0"

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APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE	
		JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
Joseph F. McKernan Jr., Architects & Associates		TITLE:	
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		EXTERIOR ELEVATIONS	
JOSEPH F. MCKERNAN JR., R.A.		SEAL:	
NJ ARCH. AL. 0084 - PA ARCH. RA-00420-X - CT ARCH. 7524		DIMENSIONS MUST BE VERIFIED BY CONSTRUCTION PARTY. SEE ARCHITECT'S PLANS FOR DIMENSIONS. DO NOT SCALE DRAWING.	
		SCALE: AS NOTED	
		PROJ. NO.: 156A	
		DATE: 09/25/26	
		REV'D BY: GES	
		CHKD. BY: JPM/DF	
		DRAWING NO. A-3	

1		09-15-2026		ISSUE FOR BIDS		DF / JF	
No.		DATE		DESCRIPTION		REV'D BY	
REVISIONS							
APPROVAL:				PROJECT:			
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034				ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
				TITLE: STAIR #3 / RAMP #1 MISC. SECTIONS & DETAILS			
				SCALE: AS NOTED PROJNO.: 1156A DATE: 03/23/26 REV'D: DRAWN BY: GES CHECK BY: JFV/JDF			
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH A-0964 PA ARCH BA-05423-01 CT ARCH 21-0				SEAL: EXHIBITING MUST BE ATTACHED BY CORRESPONDING NOTARY PUBLIC BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.			
				DRAWING NO. A-4			
MATERIAL SPECIFICATIONS & ACCESS COPIES							

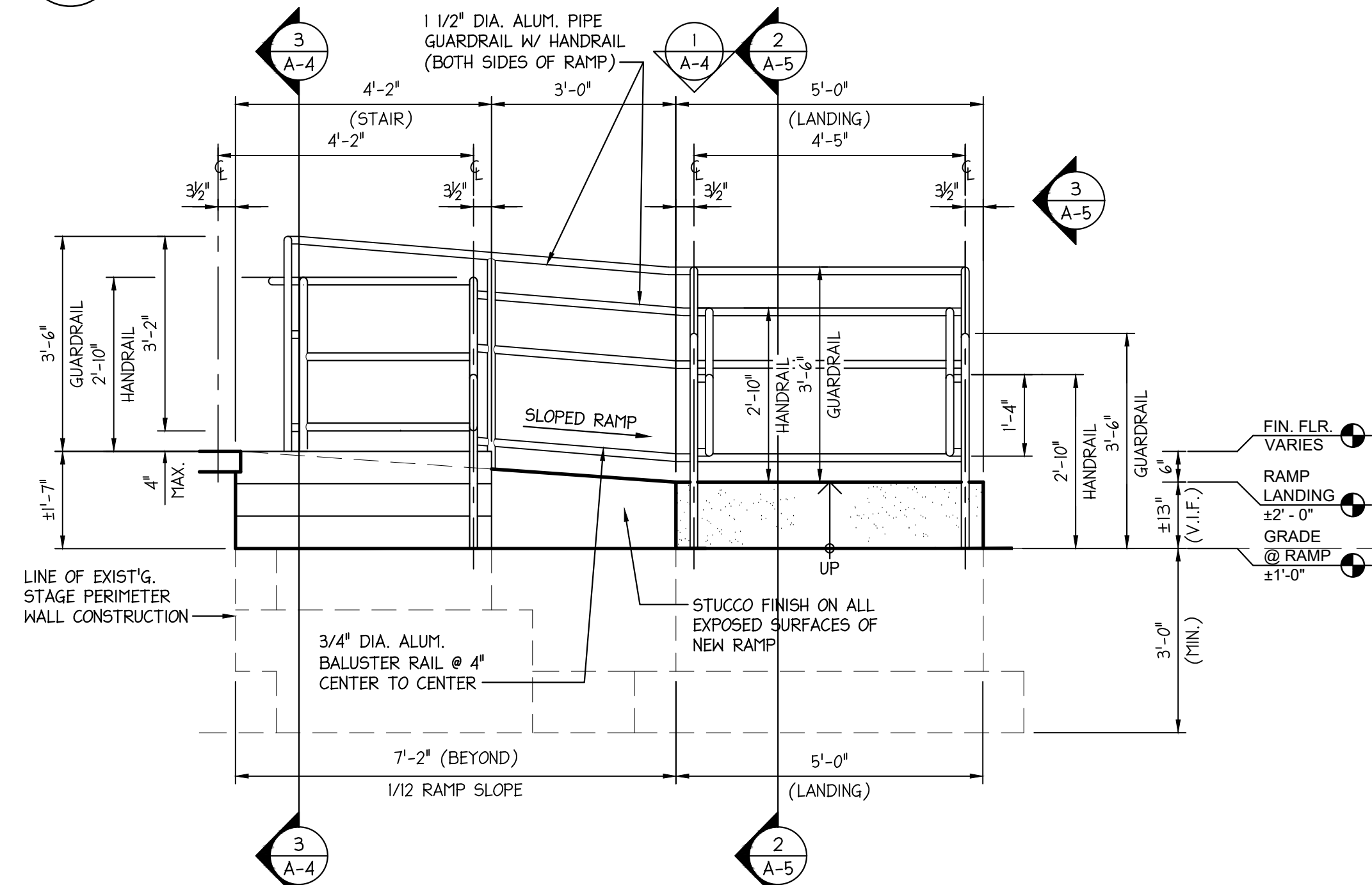


2 RAMP #1 SECTION 'A'
A-5 SCALE: 1/2" = 1'-0"

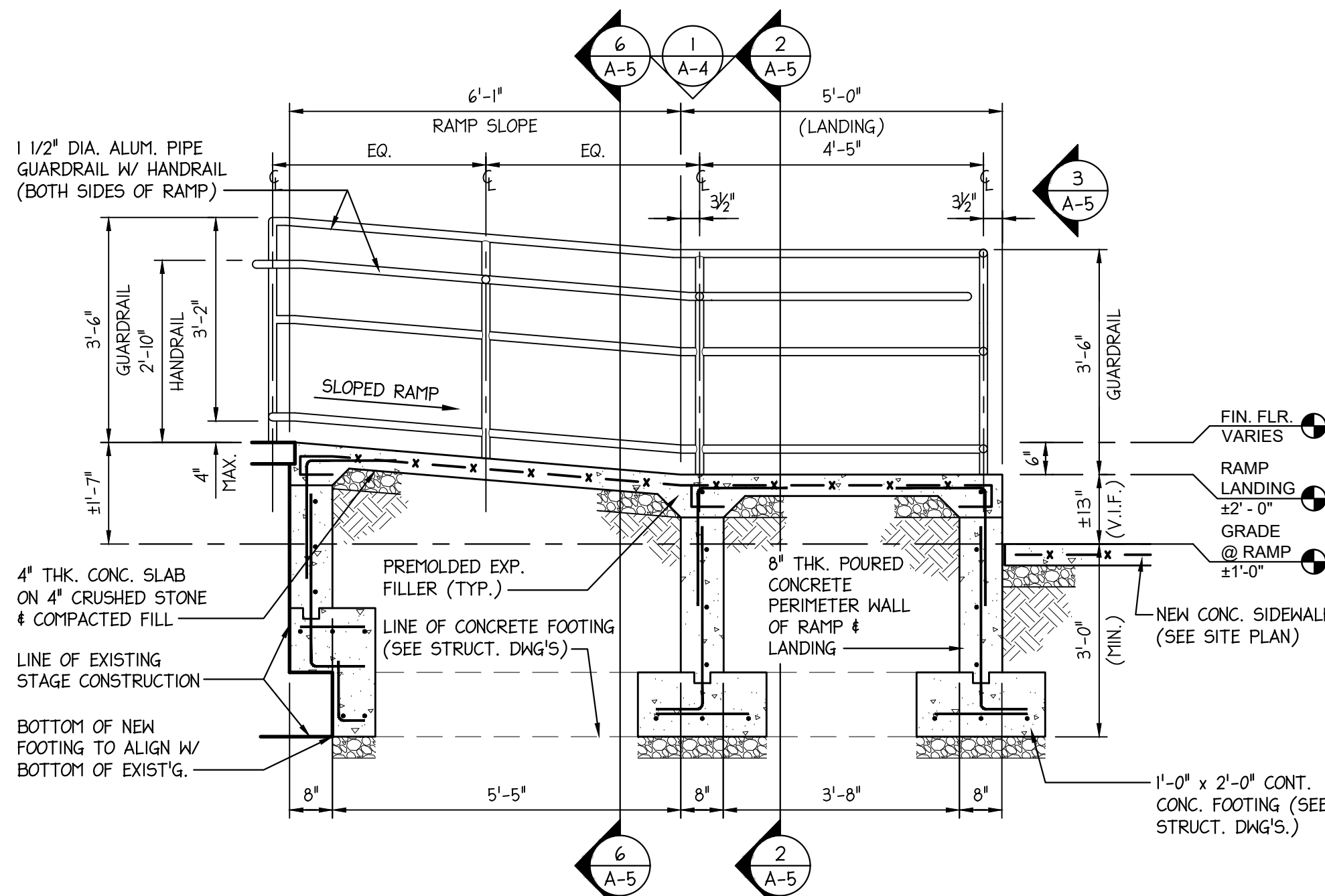


6 RAMP #1 SECTION 'C'
A-5 SCALE: 1/2" = 1'-0"

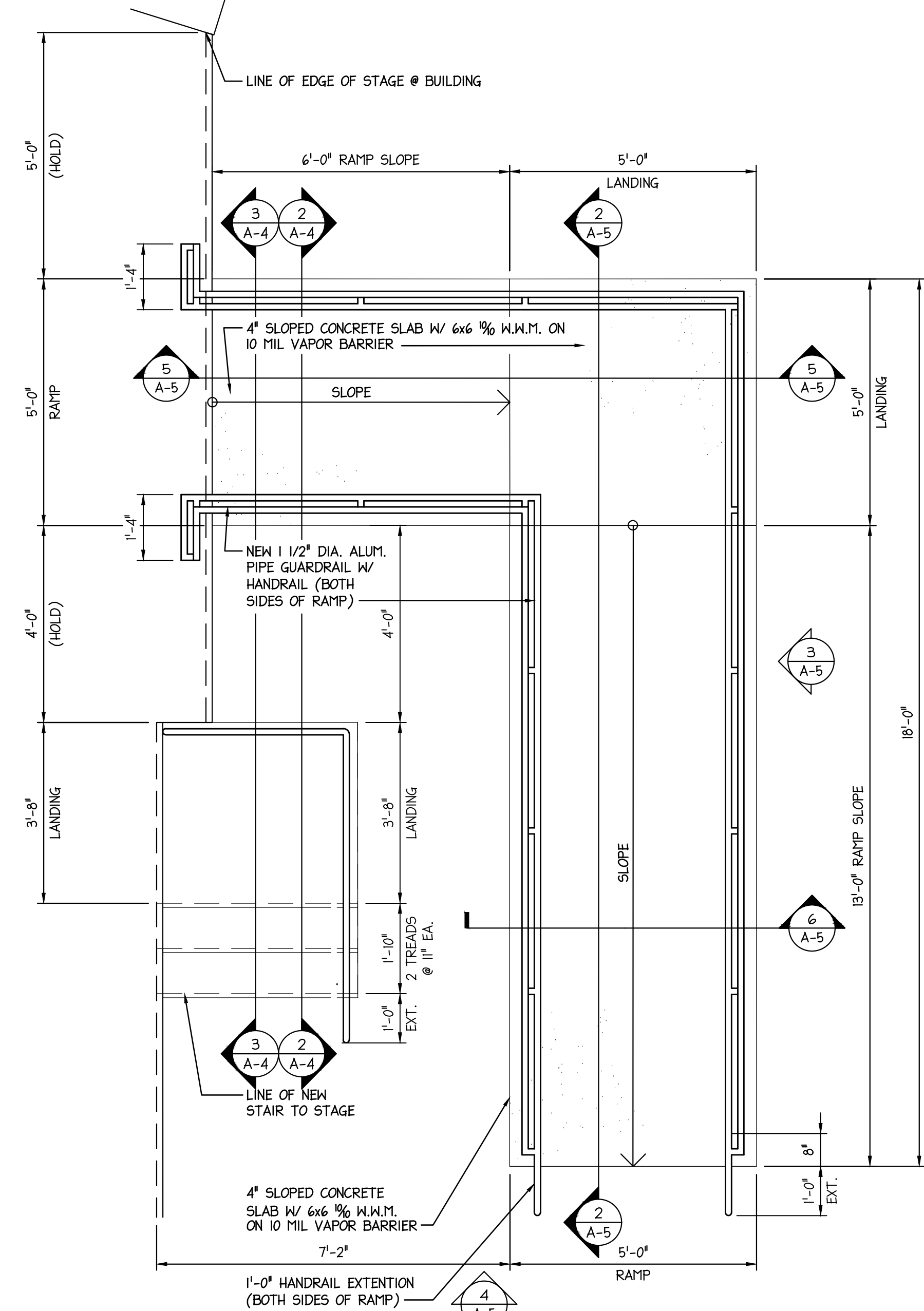
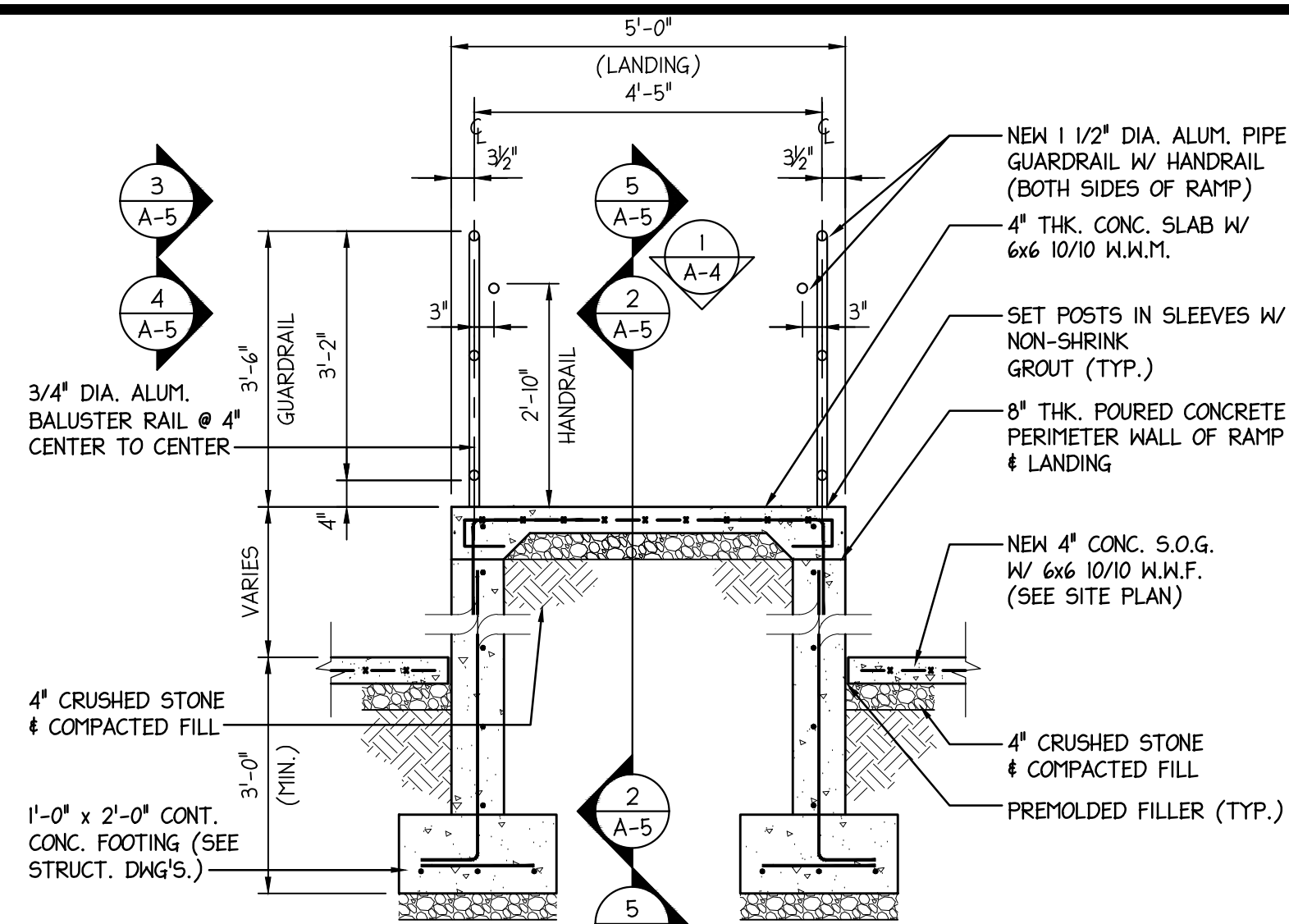
3 RAMP #1 ELEV. 'A'
A-5 SCALE: 1/2" = 1'-0"



4 RAMP #1 / STAIR #2 ELEV. 'B'
A-5 SCALE: 1/2" = 1'-0"

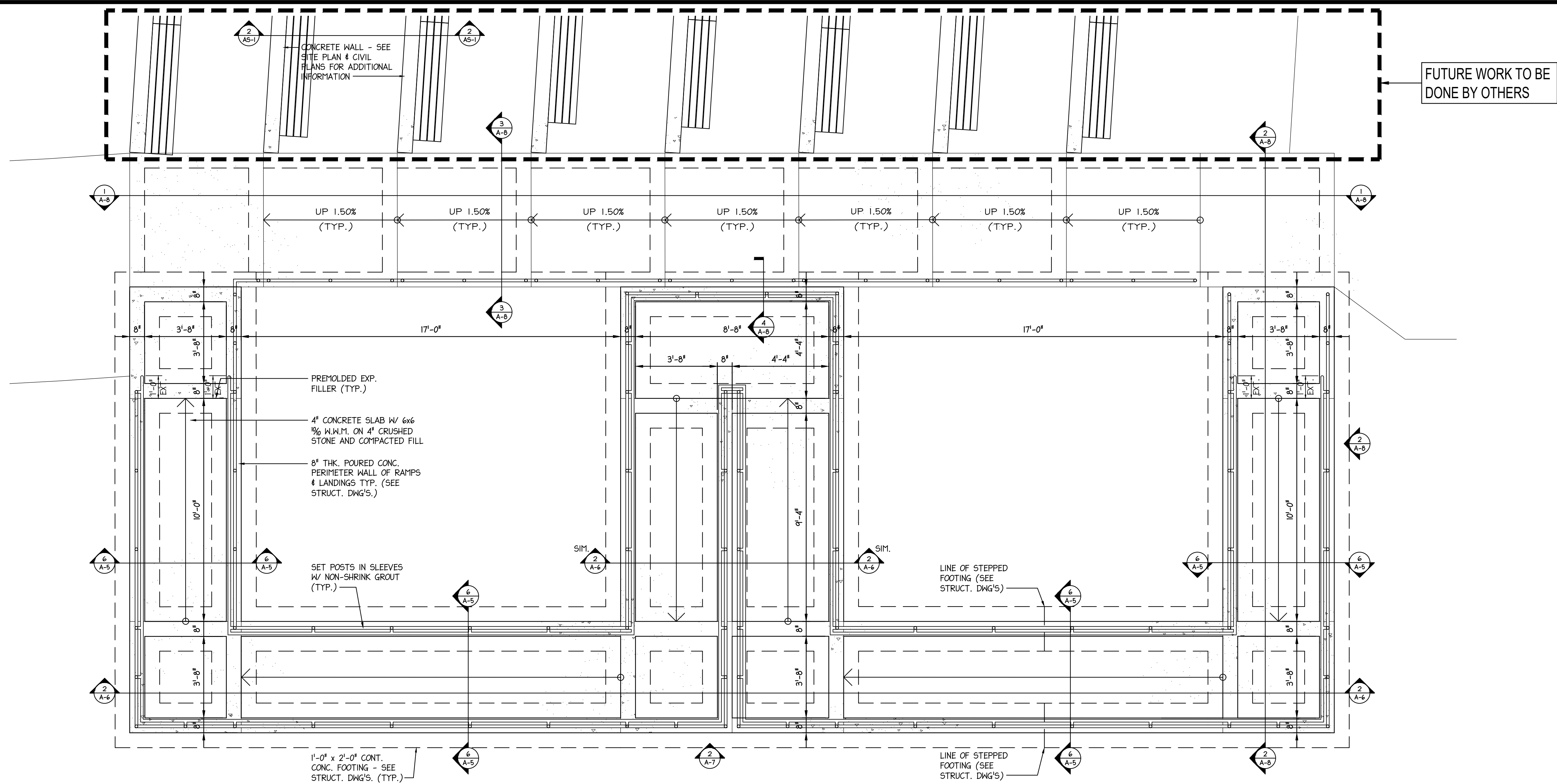


5 RAMP #1 SECTION 'B'
A-5 SCALE: 1/2" = 1'-0"

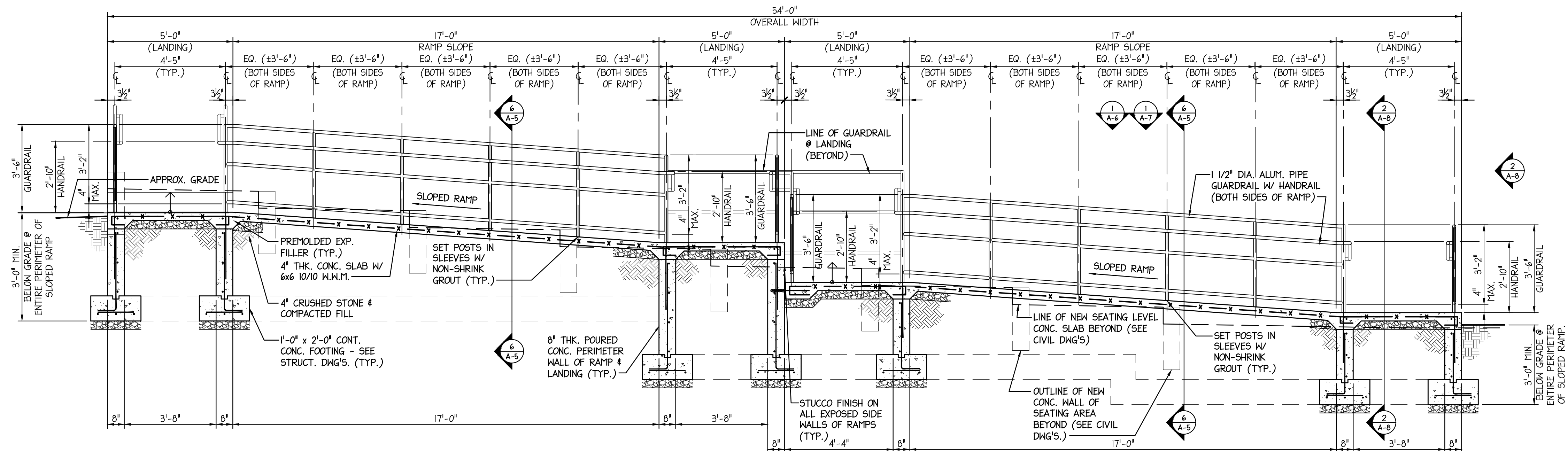


1 RAMP #1 / STAIR #2 PLAN
A-5 SCALE: 1/2" = 1'-0"

1	09-15-2026	ISSUE FOR BIDS	DF / JFM
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JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER			
138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
TITLE			
RAMP #1 / STAIR #2 MISC.			
SECTIONS & DETAILS			
Joseph F. McKernan Jr., Architects & Associates			
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034			
JOSEPH F. MCKERNAN JR., R.A.			
SEAL			
DIMENSIONS MUST BE VERIFIED BY ARCHITECTS FIELD REPRESENTATIVE BEFORE CONSTRUCTION. DO NOT SCALE DRAWING.			
SCALE: AS NOTED			
DRAWING NO.			
A-5			

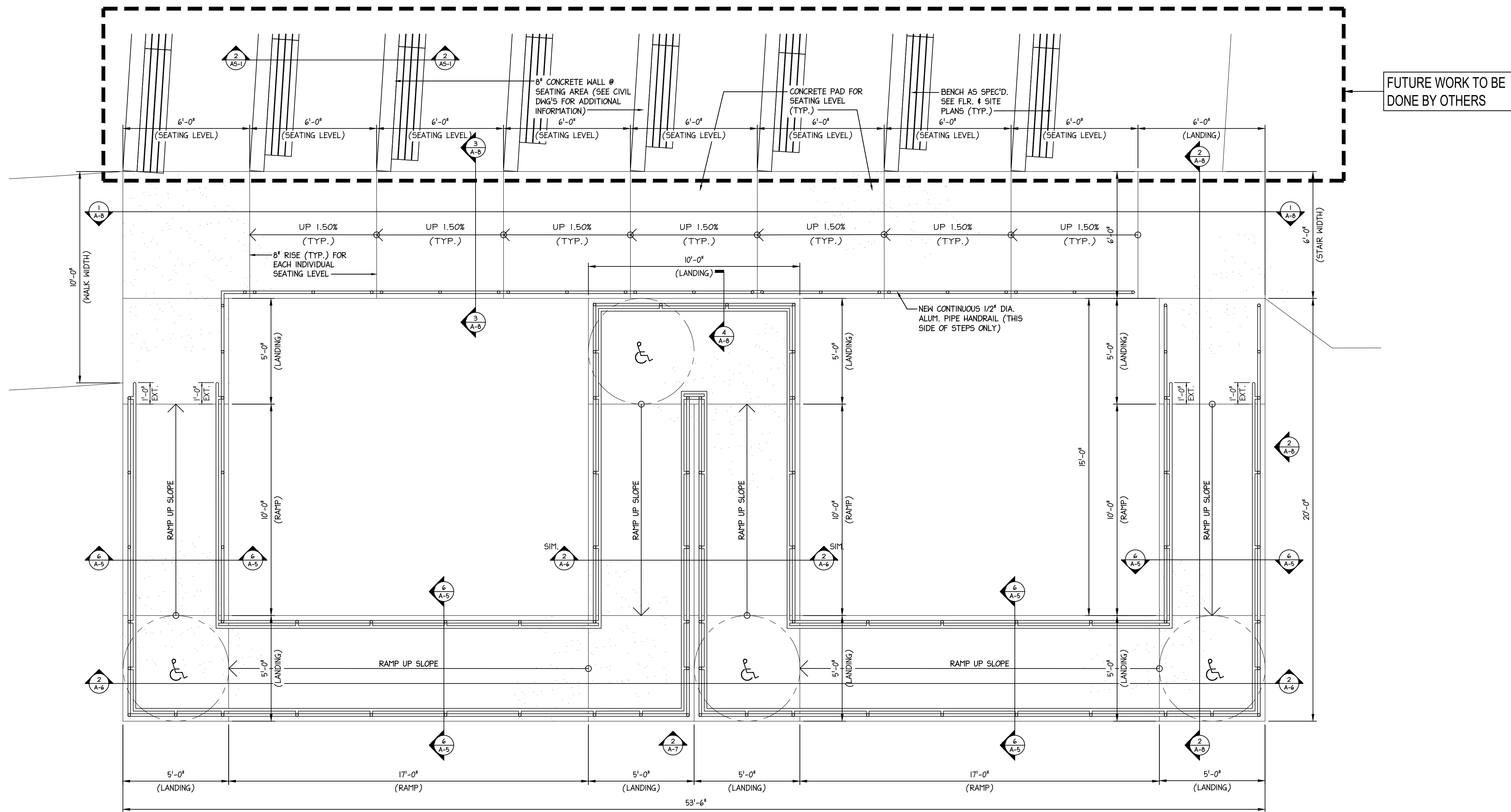


1 RAMP #2 / SEATING WALKWAY FOUNDATION PLAN
A-6 SCALE: 3/8" = 1'-0"

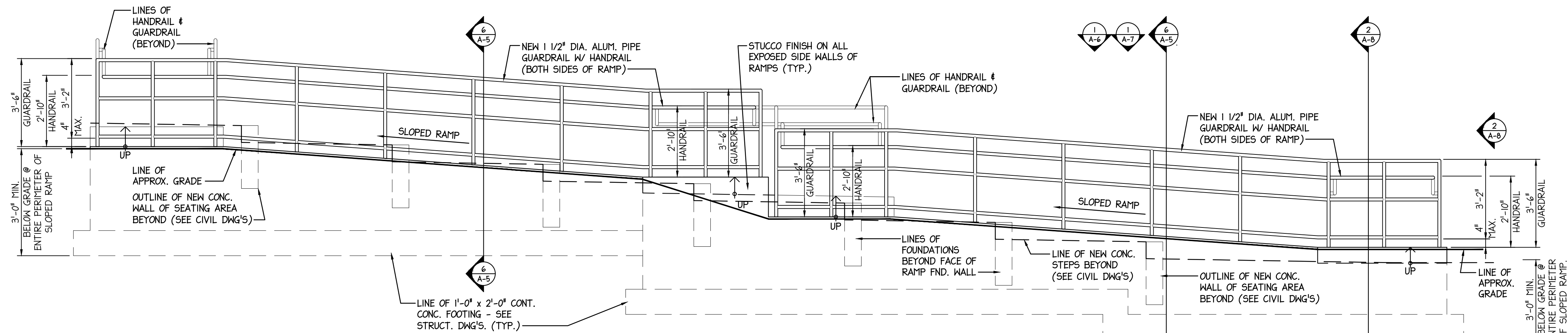


2 RAMP #2 SECTION 'A'
A-6 SCALE: 3/8" = 1'-0"

1	09-15-2026	ISSUE FOR BIDS	DF / JFM
No.	DATE	DESCRIPTION	REV'D BY
REVISIONS			
APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
		TITLE: RAMP #2 / SEATING WALKWAY FOUNDATION PLAN & SECTION	
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		SCALE: AS NOTED DATE: 09/25/26 REV'D: JPM/DF	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 0084 - PA ARCH. RA-0442-0 - CT ARCH. 1754		SEAL:	
CONTRACTOR MUST BE VERIFIED BY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.		DRAWING NO. A-6	
DESIGN: JPM/DF & REV'D: JPM/DF		CHECKED BY: JPM/DF	

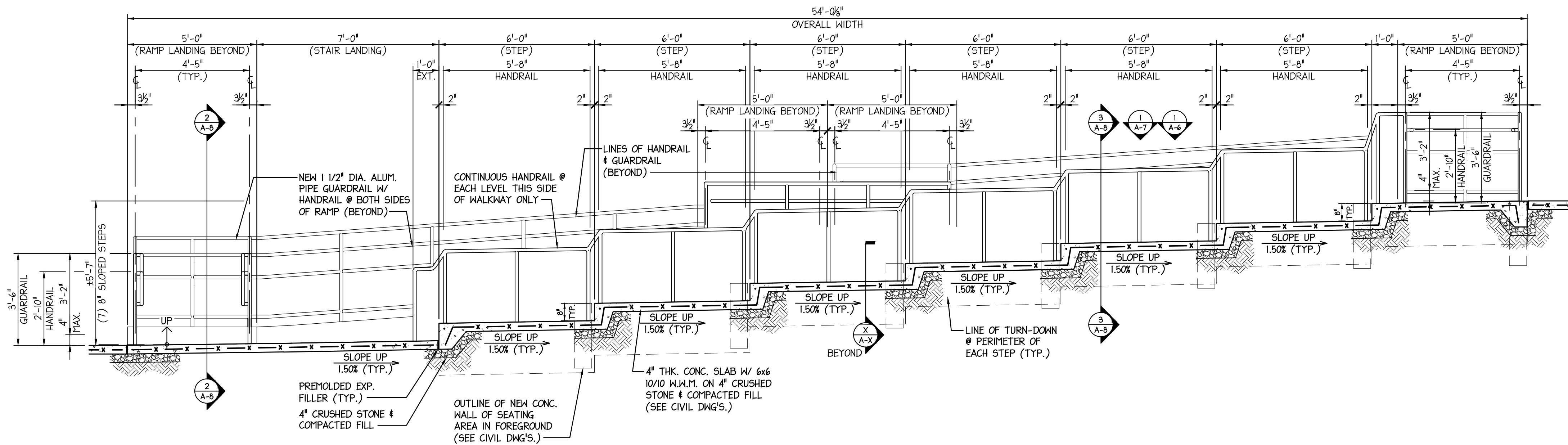


1 RAMP #2 / SEATING WALKWAY FLOOR PLAN
A-7 SCALE: 3/8" = 1'-0"

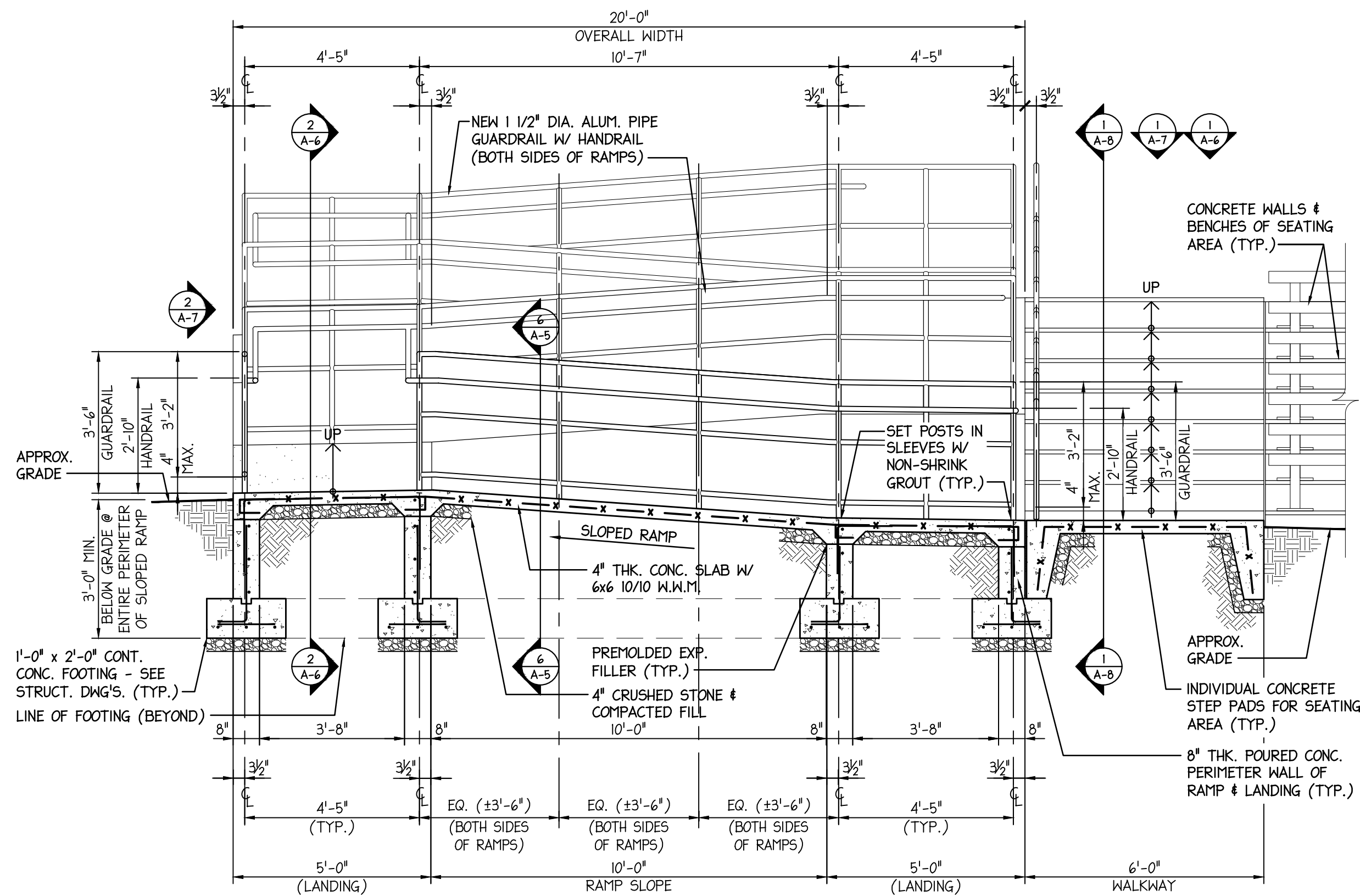


2 RAMP #2 ELEVATION
A-7 SCALE: 3/8" = 1'-0"

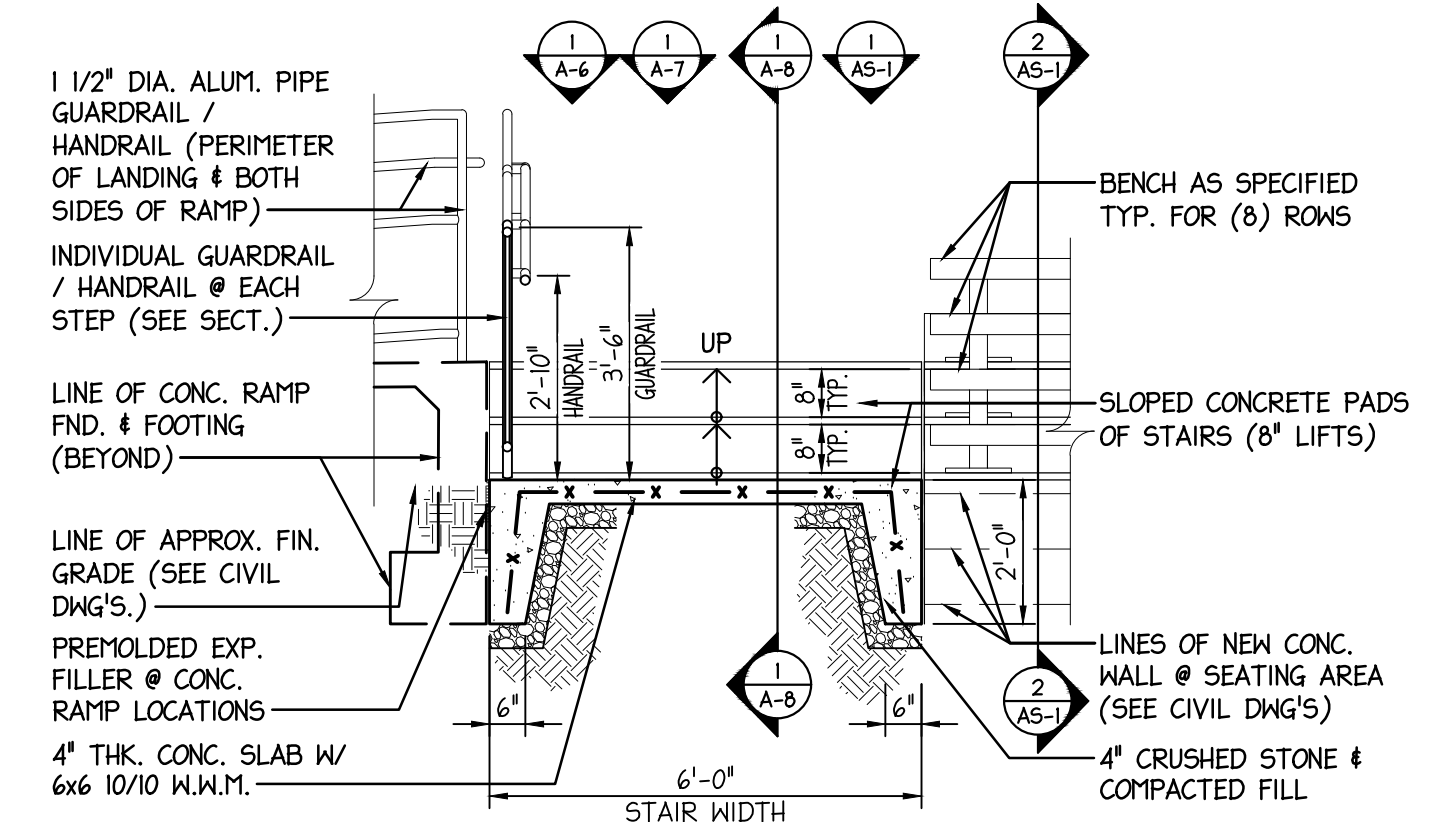
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No.	DATE	DESCRIPTION	REV'D BY
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		JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080	
		TITLE:	
		RAMP #2 / SEATING WALKWAY	
		FLOOR PLAN & ELEVATION	
JOSEPH F. MCKERNAN JR., R.A.		SEAL:	
100 DOBBS LANE SUITE 204 CHERRY HILL, NEW JERSEY 08034		SCALE: AS NOTED	
		DRAWING NO.	
		A-7	
		DATE: 09/25/26	
		REV'D BY: GES	
		QKD BY: JFYVDF	
		DRAWING NO. 156A	
		DATE: 09/25/26	
		REV'D BY: GES	
		QKD BY: JFYVDF	



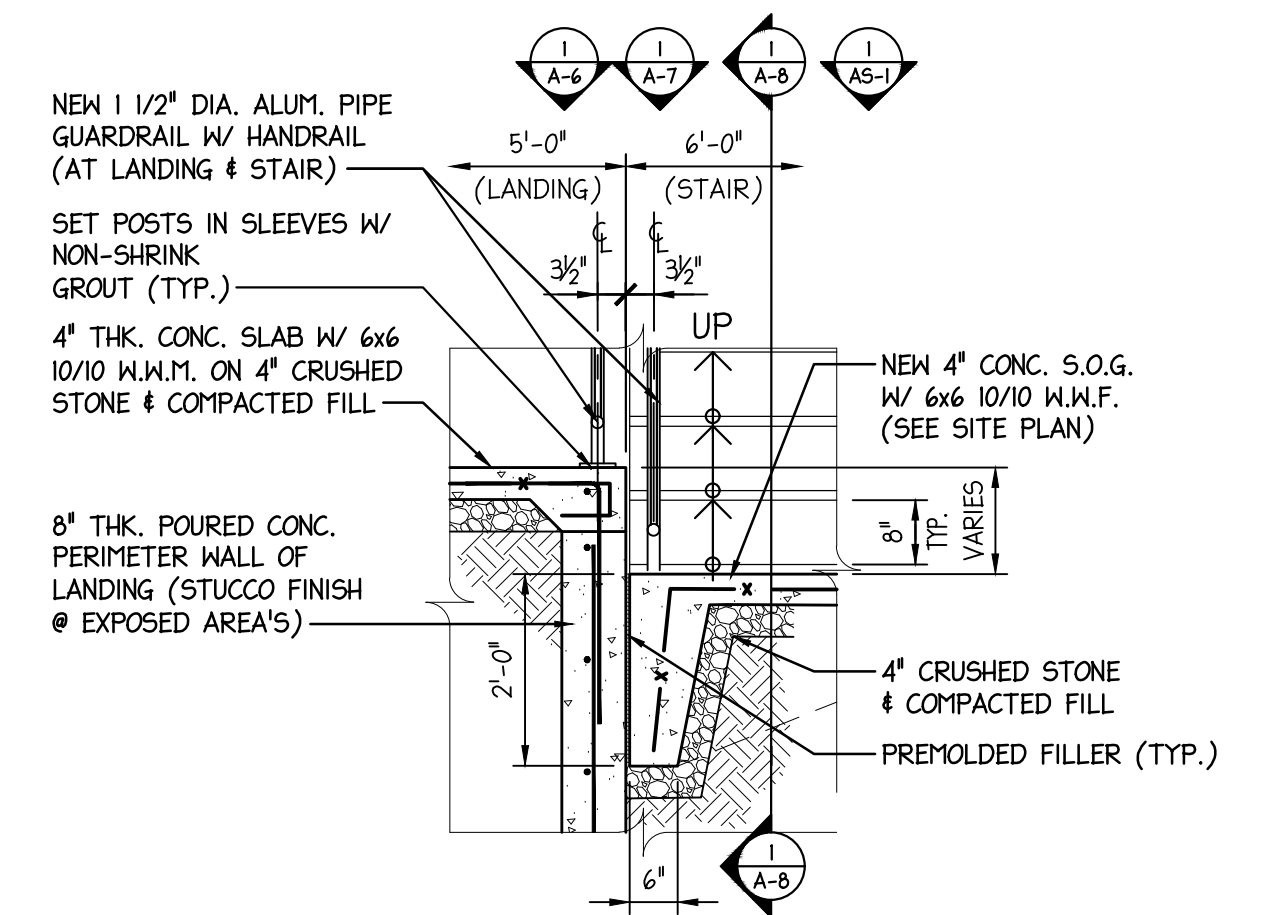
1 SEATING WALKWAY SECTION #1
A-8 SCALE: 3/8" = 1'-0"



2 RAMP #2 SECTION #2 / SEATING WALKWAY ELEVATION
A-8 SCALE: 3/8" = 1'-0"



3 SEATING WALWAY SECTION #2
A-8 SCALE: 3/8" = 1'-0"



4 MISC. RAMP / WALKWAY DETAIL
A-8 SCALE: 1/2" = 1'-0"

1	09-15-2026	ISSUE FOR BIDS	DESCRIPTION	DF / JFM
No.	DATE	REVISIONS	REVISIONS	REV'D BY
APPROVAL:		PROJECT:		
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: RAMP #2 / SEATING WALKWAY SECTIONS, ELEV. & DET.		
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. AL. 0084 - PA ARCH. RA-0442-X - CT ARCH. 7034		SCALE: AS NOTED PROJ. NO.: 156A DATE: 09/25/26 REV'D: DRAWN BY: GES CHKD BY: JFY/DF		
SEAL:		DRAWINGS MUST BE VERIFIED BY CONTRACTOR BEFORE THE INSTALLATION OF ANY STRUCTURES OR EQUIPMENT. ANY DISCREPANCIES SHOULD BE REPORTED TO THE DESIGNER IMMEDIATELY. DO NOT SCALE DRAWING.		
DESIGNER: JFM CHECKED: JFY/DF DATE: 09/25/26		DRAWING NO.: A-8		

STRUCTURAL NOTES

GENERAL NOTES:

- THIS PROJECT HAS BEEN DESIGNED USING THE 2021 INTERNATIONAL BUILDING CODE, NJ EDITION.
- STRUCTURAL SPECIAL INSPECTIONS ARE A REQUIREMENT FOR THIS PROJECT. A QUALIFIED INDEPENDENT INSPECTION AGENCY SHALL BE SELECTED TO PERFORM THIS SERVICE. ALL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (SEE THE FOLLOWING REFERENCES) ARE REQUIRED AT A MINIMUM. FOR STEEL CONSTRUCTION REFER TO TABLE 1705.2, FOR CONCRETE CONSTRUCTION SEE TABLE 1705.3, FOR MASONRY CONSTRUCTION SEE TABLE 1705.4, FOR SOILS SEE TABLE 1705.6. SEE THE NOTES ON THE DRAWING FOR ANY ADDITIONAL INSPECTIONS REQUIRED.
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS AS INDICATED IN THE NOTES FOR THIS JOB. FAILURE OF THE CONTRACTOR TO READ THE STRUCTURAL NOTES DOES NOT PERMIT THE CONTRACTOR TO DEVIATE FROM THEIR REQUIREMENTS.
- NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES INCLUDING ALL OSHA REGULATIONS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA.
- CONTRACTOR IS FULLY RESPONSIBLE FOR HIS WORKERS' SAFETY, SAFETY EQUIPMENT, FIRST AID, AND EMERGENCY HANDLING PROCEDURES.
- CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK AND SHALL BE PRESENT AT THE WORK SITE AT ALL TIMES DURING CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
- THESE DRAWINGS SHALL NOT BE SCALED FOR PURPOSES OF CONSTRUCTION.
- TYPICAL DETAILS ARE NOT NECESSARILY REFERENCED ON EVERY DRAWING SHEET AND SHALL BE USED BY THE CONTRACTOR AS REQUIRED FOR ALL CONDITIONS WHERE APPLICABLE.
- IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND OTHER DRAWINGS OF THIS PROJECT, CONTRACTOR SHALL IMMEDIATELY CONTACT ARCHITECT FOR CLARIFICATION PRIOR TO START OF WORK.
- IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND STRUCTURAL SPECIFICATIONS, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR CLARIFICATION PRIOR TO START OF WORK.
- ALL COLUMN LINE AND WALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE AND SHALL FIRST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE START OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND TEMPORARY SHORING OF THE EXCAVATIONS AND BUILDING STRUCTURE AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, DESIGN OF SHEETING, SHORING, SCAFFOLDING, FORM WORK, AND OTHER MEANS AND METHODS STRUCTURES SHALL BE DESIGNED BY ENGINEERS HIRED BY THE CONTRACTOR.
- SECTIONS SHOWN ON PLANS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS FOR THE PROJECT FOR THE FOLLOWING INFORMATION:
 - LOCATION OF ALL REQUIRED OPENINGS IN WALLS, FLOORS, ROOF, ETC. ALL OPENINGS MAY NOT BE INDICATED ON STRUCTURAL DRAWINGS.
 - SIZE AND LOCATION OF ALL SLEEVES, INSERTS, AND DEPRESSIONS.
 - LOCATION AND SIZE OF ALL EQUIPMENT HOUSE KEEPING PADS.
- ALL COSTS OF INVESTIGATION OR REDESIGN REQUIRED TO CORRECT CONTRACTOR MIS-LOCATION OF STRUCTURAL ELEMENTS OR OTHER CONSTRUCTION DOCUMENT DEVIATIONS SHALL BE AT THE CONTRACTORS EXPENSE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL MASONRY AND STUD NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW FOR VERTICAL MOVEMENT OF THE BUILDING STRUCTURE AT THE HEADS OF ALL PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF WALL LATERALLY. PROVIDE FIRE SAFING AT THE TOP OF THE WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
- THE DESIGN OF NON-LOAD BEARING METAL STUD AND CURTAIN WALLS SHALL BE PERFORMED BY ENGINEERS RETAINED BY THE CONTRACTOR. DRAWINGS AND CALCULATIONS FOR THESE WALLS SHALL BE PREPARED AND SUBMITTED FOR REVIEW. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY ENGINEERS LICENSED IN THE STATE OF THE PROJECT'S JURISDICTION. DESIGN OF WALL SYSTEM AND CONNECTIONS SHALL CONSIDER ALL VERTICAL AND LATERAL LOADS REQUIRED BY THE APPLICABLE BUILDING CODE.
- METAL STAIRS, RAILINGS, GUARDRAILS, AND LADDERS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONTRACTOR. SEE THE DELEGATED DESIGN SCHEDULE FOR MORE INFORMATION. DRAWINGS AND CALCULATIONS FOR THESE ITEMS SHALL BE PREPARED AND SUBMITTED FOR REVIEW. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY ENGINEERS LICENSED IN THE STATE OF THE PROJECTS JURISDICTION. DESIGNS ARE THE RESPONSIBILITY OF THE ENGINEER RETAINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ALL LOADS REQUIRED BY THE APPLICABLE BUILDING CODE. REVIEW OF SHOP DRAWINGS FOR THESE ITEMS WILL BE FOR CONCEPT ONLY AND NOT BE A CHECK OF THE DESIGN OF THESE ITEMS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS, DIMENSIONS, AND DETAILS.

SHOP DRAWINGS AND SUBMITTALS:

- FOR A LISTING OF SHOP DRAWINGS AND OTHER SUBMITTALS REQUIRED FOR THIS PROJECT SEE THE SHOP DRAWING AND SUBMITTAL REQUIREMENTS TABLE. ALL SUBMITTALS MUST BE PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECTS JURISDICTION. THE CONTRACTOR IS REQUIRED TO RETAIN SPECIALTY ENGINEERS AS REQUIRED TO PREPARE THESE SUBMITTALS.
- SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT/STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
- SHOP DRAWINGS, WHERE REQUIRED, SHALL BE SUBMITTED AS FOLLOWS: PROVIDE ONE (1) ELECTRONIC PDF COPY TO THE ENGINEER FOR REVIEW. ONE (1) COPY WILL BE MARKED UP AND RETURNED FOR DISTRIBUTION AS REQUIRED BY THE CONTRACTOR. ALL SHOP DRAWINGS SHALL BE CHECKED PRIOR TO SUBMISSION. CONTRACTOR SHALL ALLOW (10) WORKING DAYS IN THE CONSTRUCTION SCHEDULE FOR SHOP DRAWING REVIEW. FAX SUBMITTALS OF SHOP DRAWINGS WILL NOT BE ACCEPTED.
- STRUCTURAL DESIGN DRAWINGS (INCLUDING ORIGINAL CAD DRAWINGS) SHALL NOT BE USED AS THE BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED. THIS INCLUDES REBAR PLACEMENT DRAWINGS, FABRICATION DRAWINGS, ERECTION DRAWINGS, ERECTION DETAILS, ETC. THE CONTRACTOR SHALL PREPARE THEIR OWN SHOP DRAWINGS (INCLUDING DETAILS).
- ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE 'ISSUED FOR CONSTRUCTION' DESIGN DOCUMENTS OF THE PROJECT SHALL BE NOTED (BUBBLED, NOTE, ETC.) ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.
- REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY CONTRACT REQUIREMENTS EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE ENGINEERS REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND PROJECT REQUIREMENTS, AND DOES NOT IMPLY APPROVAL OR VARIANCE FROM THE CONTRACT DOCUMENTS. QUANTITIES WILL NOT BE CHECKED BY THE ENGINEER.
- ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION SHALL BE APPROPRIATELY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.
- SUBSTITUTIONS TO PRODUCTS SPECIFIED ON THE DRAWINGS IS ACCEPTABLE PROVIDED THE FOLLOWING CRITERIA ARE MET. THE CONTRACTOR SHALL SUBMIT INFORMATION ON THE PRODUCT TO BE SUBSTITUTED THAT SUBSTANTIATES ITS PERFORMANCE ON AN EQUAL OR BETTER VALUE. CONTRACTOR SHALL ALLOW A MINIMUM OF (5) WORKING DAYS IN THE CONSTRUCTION SCHEDULE FOR REVIEW OF THE SUBSTITUTED PRODUCT BY THE ENGINEER.

BUILDING STRUCTURE AND LATERAL BRACING DURING CONSTRUCTION:

- SINCE DRAWINGS FOR THE EXISTING STRUCTURE WERE NOT AVAILABLE DURING DESIGN, CERTAIN ASSUMPTIONS WERE MADE REGARDING EXISTING CONSTRUCTION. THESE ASSUMPTIONS TYPICALLY REQUIRE CONTRACTOR FIELD VERIFICATION PRIOR TO CONSTRUCTION OF THE NEW STRUCTURES. IN ANY EVENT, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR ASSUMED ON THE CONTRACT DRAWINGS. IN NO INSTANCE SHALL THE EXISTING STRUCTURE BE MODIFIED IF EXISTING CONDITIONS DIFFER FROM THOSE DEPICTED ON THE CONTRACT DOCUMENTS. THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO PROVIDE ADDITIONAL DETAILS AS REQUIRED IF EXISTING CONDITIONS DIFFER FROM THOSE DOCUMENTED ON THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF THE ARCHITECTURAL DEMOLITION ONCE THE EXISTING STRUCTURAL ELEMENTS ARE EXPOSED. THE EXISTING FOOTINGS, FOUNDATION WALLS, BEAM, AND COLUMN SIZES SHALL BE PROVIDED TO THE ENGINEERS OFFICE PRIOR TO PROCUREMENT OF NEW STEEL FRAMING FOR THE NEW CONSTRUCTION.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO DESIGN ALL TEMPORARY EARTH RETAINING STRUCTURES REQUIRED FOR THE INSTALLATION OF BUILDING FOUNDATIONS. THE DESIGN OF THE EXCAVATION SUPPORT SYSTEM SHALL INCLUDE TEMPORARY SURCHARGES DUE TO CONSTRUCTION EQUIPMENT AND ALL LOADS REQUIRED BY THE REFERENCED GEOTECHNICAL INVESTIGATION REPORT. SUBMIT DETAILS & SIGNED AND SEALED CALCULATIONS FOR THE SELECTED EARTH RETAINING SYSTEM TO OUR OFFICE FOR REVIEW PRIOR TO CONSTRUCTION. OUR OFFICE REVIEW WILL BE FOR INFORMATION AND RECOMMENDATION ONLY AND WILL NOT RELIEVE THE GENERAL CONTRACTOR FROM ANY DESIGN OR CONSTRUCTION RESPONSIBILITIES OR LIABILITY. ANY RECOMMENDATION ADOPTED BY THE GENERAL CONTRACTOR SHALL BE AT THE CONTRACTOR'S SOLE RISK, COST AND EXPENSE.

FOUNDATIONS:

- SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND TABLE 1705.6.
- BOTTOM OF ALL FOOTINGS HAVE BEEN DESIGNED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 3000 PSF.
- THE CONTRACTOR SHALL READ THE SOILS REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SITE PREPARATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERING SERVICES PREPARED BY PENNODI DATED DECEMBER 15, 2022.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE AUTHORITIES TO LOCATE ALL POTENTIALLY BURIED UTILITIES WITHIN THE PROPOSED PROJECT SITE BUILDING FOOTPRINT PRIOR TO COMMENCING EXCAVATION FOR NEW BUILDING FOUNDATIONS.
- EXISTING FOUNDATIONS, SLABS, PAVEMENTS, UNDERGROUND UTILITIES, AND OTHER BELOW GRADE STRUCTURES SHALL BE REMOVED FROM THE PROPOSED PROJECT SITE BUILDING FOOTPRINT. REMOVE SURFACE VEGETATION, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT UNSUITABLE SOILS FROM THE PROJECT SITE.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING NEW FOUNDATION CONSTRUCTION ACTIVITIES ADJACENT TO EXISTING BUILDING FOUNDATIONS THAT ARE TO REMAIN (EVEN IF LOCATED ON AN ADJACENT PROPERTY). SINCE DRAWINGS FOR EXISTING CONSTRUCTION ARE NOT ALWAYS AVAILABLE DURING NEW FOUNDATION CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONSTRUCTION PRACTICES. THESE ASSUMPTIONS TYPICALLY REQUIRE CONTRACTOR FIELD VERIFICATION PRIOR TO CONSTRUCTION OF THE NEW STRUCTURES. IN ANY EVENT, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IF EXISTING SITE OR FOUNDATION CONDITIONS DIFFER FROM THOSE SHOWN OR ASSUMED ON THE CONTRACT DRAWINGS. IN NO INSTANCE SHALL EXISTING BUILDING FOUNDATIONS BE UNDERMINED TO INSTALL NEW FOUNDATIONS. IF NEW BOTTOM OF FOOTING ELEVATIONS ARE LOWER THAN ADJACENT EXISTING BOTTOM OF FOOTING ELEVATIONS THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO PROVIDE ADDITIONAL DETAILS AS REQUIRED TO CONSTRUCT THE NEW FOUNDATIONS AT THE LOWER LEVEL.
- THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING OR GROUND WATER INFILTRATION. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE RE-PREPARATION OF THE SUBGRADE.
- BOTTOM OF ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN A SOIL BEARING PRESSURE OF 3000 PSF BELOW ALL FOOTINGS.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF THREE FEET (3'-0") BELOW EXTERIOR FINISH GRADE.
- STANDARD PROCEDURES FOR FROST PROTECTION OF FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST.
- REFER TO THE GEOTECHNICAL REPORT REFERENCED ABOVE FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS.
- THE BUILDING SITE SHOULD BE EXCAVATED TO THE DEPTH AND EXTENT INDICATED IN THE SOILS REPORT. ALL SUBGRADES SHALL BE APPROVED IN WRITING BY THE SOILS ENGINEER PRIOR TO BACKFILLING.
- DUE TO THE PRESENCE OF UNSUITABLE BEARING MATERIALS, OVER EXCAVATION WILL BE REQUIRED IN SOME AREAS TO PROVIDE THE SAFE ALLOWABLE BEARING PRESSURE LISTED ABOVE. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE REFERENCED GEOTECHNICAL REPORT LISTED ABOVE.
- RETAINING WALLS (BASEMENT WALL) (EXPOSED CONCRETE WALLS) SHALL HAVE CONTROL JOINTS AT 30 FEET MAXIMUM ON CENTERS UNLESS NOTED OTHERWISE. WALLS WITH INTERIOR COLUMN PIER OR PILE Piers SHALL HAVE A FORMED CONTROL JOINT ON ONE SIDE OF EACH PIER ON BOTH FACES OF THE WALL. JOINTS TO BE FILLED WITH AN APPROVED SEALANT.
- UNLESS OTHERWISE DICTATED BY THE GEOTECHNICAL ENGINEER, ALL FILL AND BACKFILL SHALL BE COMPACTED IN 8 INCH MAXIMUM LIFTS TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
- HORIZONTAL REINFORCING BARS IN FOUNDATIONS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS.
- FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. PENETRATIONS SHALL BE THROUGH THE FOUNDATION STEM WALL OR IF CLEAR BELOW.
- ALL CMU WALL FOUNDATION WALLS SHALL BE FILLED SOLID WITH 3,000 PSI GROUT BELOW FINISHED GRADE ELEVATION UNLESS NOTED OTHERWISE ON PLANS.

CONCRETE:

- THE PROVISIONS OF ACI 318-19 HAVE BEEN UTILIZED FOR THE DESIGN OF CONCRETE ELEMENTS ON THIS PROJECT.
- FLOOR FINISH TOLERANCES FOR THE SLAB ON GRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 117. FLOOR FINISH TOLERANCE SHALL BE MEASURED USING A 10 FOOT STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 72 HOURS AFTER SLAB PLACEMENT. THE GAP AT ANY POINT BETWEEN THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4".
- ALL CONCRETE SHALL BE NORMAL WEIGHT, READY MIX. ALL CONCRETE MIX DESIGNS SHALL BE DESIGNED BY ENGINEERS RETAINED BY THE CONCRETE SUPPLIER ACCORDING TO THE CRITERIA CONTAINED WITHIN THESE NOTES AND AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT ALL CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTED MIX DESIGNS SHALL INCLUDE SAMPLE CYLINDER TEST RESULTS CONFIRMING COMPRESSIVE STRENGTH OF EACH MIX DESIGN.
- ALL CONCRETE SHALL HAVE A WATER REDUCING ADMIXTURE AS REQUIRED TO INCREASE WORKABILITY. WORKABILITY SHALL NOT BE ACHIEVED THROUGH THE ADDITION OF WATER TO THE MIX. CONCRETE SLUMP PRIOR TO ADMIXTURE ADDITION SHALL BE A MAXIMUM OF 3 INCHES. PROPORTIONS OF CONCRETE SHALL BE DETERMINED BY THE CONCRETE MIX DESIGNING SERVICE.
- DO NOT USE ADMIXTURES THAT CONTAIN CHLORIDES, FLY ASH OR OTHER POZZOLANS SHALL NOT BE USED IN ANY CONCRETE UNLESS APPROVED BY THE ENGINEER.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS: ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS), ACI 308R (GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION), ACI 304 (GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE), ACI 311.4 (GUIDE FOR CONCRETE INSPECTION), ACI 315 (DETAILS AND DETAILING OF CONCRETE REINFORCEMENT), ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE), ACI 347R (GUIDE TO FORMWORK FOR CONCRETE), AND ACI 348R (GUIDE TO CONCRETE REPAIR). IN ADDITION, REFER TO THE CRSI - MANUAL OF STANDARD PRACTICE FOR DETAILS ON THE FABRICATION AND PLACEMENT OF CONCRETE REINFORCING.
- PRIOR TO FABRICATION OR SHIPMENT OF MATERIAL, THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INDICATE BENDING DIAGRAMS, SPLICING, LAPPING, SHAPES, DIMENSIONS AND DETAILS OF ALL BAR REINFORCING. THE APPROVAL OF SHOP DRAWINGS WILL BE FOR ARRANGEMENT ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS, OMISSIONS OR THE ACCURACY OF HIS OWN DIMENSIONS, DRAWINGS AND DETAILS SHALL CONFORM WITH ACI 315. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS FOR ALL WATERPROOFING DETAILS AT FOUNDATIONS, WALLS, AND SLABS.
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BULLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WWF SHALL BE COMPRISED OF CARBON STEEL PLAIN WIRES FABRICATED INTO SHEETS OR ROLLS IN ACCORDANCE WITH ASTM A1064.
- FOOTING, SLAB, AND WALL REINFORCEMENT NOT SHOWN ON SECTIONS AND PLANS IS THE SAME AS THAT SHOWN IN SIMILAR SECTIONS AND AT SIMILAR LOCATIONS.
- LAP ALL BARS PER TABLE 1 LAP SPICE LENGTHS FOR CONCRETE, CLASS B. LAP ALL WWF A MINIMUM OF 8 INCHES.
- CONTRACTOR SHALL PROVIDE ALL BOLSTERS, CHAIRS, BAR POSITIONERS, ETC. AS REQUIRED TO SET REBAR AND SLAB WWF TO REQUIRED DIMENSIONS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- CONTROL JOINTS FOR SLABS-ON-GRADE SHALL BE SAW CUT IN ACCORDANCE WITH THE PATTERN AS INDICATED ON THE STRUCTURAL DRAWINGS. THE SPACING OF CONTROL JOINTS SHALL BE ARRANGED SUCH THAT THE AREA OF CONCRETE SLAB BETWEEN CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET (MAXIMUM). COORDINATE WITH THE STRUCTURAL CONTRACT DRAWINGS FOR TYPICAL CONTROL JOINT DETAILS.
- CONSTRUCTION JOINTS IN SLABS AND GRADE BEAMS SHALL BE AT MID-SPAN AND KEY JOINTED WITH REINFORCING CONTINUOUS ACROSS JOINT. COORDINATE WITH ENGINEER FOR CONSTRUCTION JOINT LOCATIONS PRIOR TO CONSTRUCTION. CONSTRUCTION JOINTS ARE TO BE LOCATED WITH RESPECT TO PARTITIONS, FLOOR FINISHES, DEPRESSIONS, ETC. AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- PROVIDE CONTINUOUS KEYWAYS AND DOWELS IN THE TOP OF WALL FOOTINGS SUPPORTING CONCRETE WALLS. AT CONSTRUCTION JOINTS IN CONCRETE WALLS PROVIDE KEYWAYS AND CONTINUE REINFORCING THROUGH THE JOINT.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS AT FOUNDATIONS, WALLS, AND SLABS.
- CONCRETE CONTRACTOR SHALL PROVIDE ADDITIONAL SLAB REINFORCEMENT AT ALL CONCRETE SLAB RE-ENTRANT CORNERS. THIS REINFORCEMENT SHALL BE COMPRISED OF A #4 BAR x 4'-0" LONG LOCATED WITHIN 2 INCHES FROM THE TOP OF THE SLAB UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- CONCRETE CONTRACTOR SHALL PROVIDE ADDITIONAL WALL REINFORCEMENT AT WALL OPENINGS. THIS REINFORCING SHALL BE COMPRISED OF #5 BARS LOCATED WITHIN 1 1/2" OF THE OPENING DIMENSION AND EXTENDING A MINIMUM OF 36 INCHES BEYOND THE EXTENT OF THE OPENING. THE ADDITIONAL BARS SHALL BE LOCATED HORIZONTALLY, VERTICALLY AND DIAGONALLY AT THE CORNERS OF THE OPENING. PROVIDE ONE LAYER OF ADDITIONAL REINFORCING AT 8" WALLS AND TWO LAYERS (ONE ON THE INSIDE FACE AND ONE ON THE OUTSIDE FACE) OF WALLS WITH A THICKNESS OF 10 INCHES OR GREATER.
- AT CONCRETE WALL INTERSECTIONS PROVIDE CORNER BARS EQUAL IN SIZE AND SPACING TO TYPICAL WALL REINFORCING STEEL.
- ALL CONCRETE PLACED AT TEMPERATURES BELOW 50 DEGREES F SHALL CONFORM TO THE REQUIREMENTS OF ACI 308R "GUIDE TO COLD WEATHER CONCRETING". ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 308R "GUIDE TO HOT WEATHER CONCRETING".
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLEEVES, INSERTS, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES.
- ALL CONCRETE SHALL BE PROPERLY CONSOLIDATED THROUGH THE USE OF VIBRATORS. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE ALONG FORMWORK.
- UNLESS OTHERWISE SPECIFIED, A TESTING AGENCY SHALL BE EMPLOYED FOR EVALUATION AND QUALITY CONTROL OF CONCRETE PLACED. THE TESTING AGENCY PERFORMING ACCEPTANCE TESTING SHALL COMPLY WITH ASTM C1077. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318. FREQUENCY OF CONCRETE TESTING SHALL MEET THE REQUIREMENTS OF ACI 318 AT A MINIMUM UNLESS REQUIRED OTHERWISE BY THE APPLICABLE BUILDING CODE.

CONCRETE MIX DESIGN AND DURABILITY REQUIREMENTS PER ACI 318 BUILDING CODE

LOCATION	DENSITY NW = 145 pcf LW = 115 pcf	FREEZE/THAW SEVERITY	SULFATE SEVERITY	PERMEABILITY	CORROSION PROTECTION OF REINF.	f'c (psi)	AIR CONTENT	w/c RATIO (max)
FOOTINGS	NW	F0	S0	P0	C1	4,000	----	0.50
EXTERIOR WALLS	NW	F1	S0	P0	C1	4,500	6 %	0.45
EXTERIOR SLABS	NW	F3	S0	P0	C2	5,000	6 %	0.40

CONCRETE MIX DESIGN & DURABILITY NOTES:

- CONCRETE MIX SHALL BE DESIGNED BY THE CONCRETE SUPPLIER USING THE INFORMATION CONTAINED IN THIS SCHEDULE.
- REFER TO CHAPTER 19 OF THE ACI-318 BUILDING CODE FOR ADDITIONAL INFORMATION NOT PROVIDED OR NOTED IN THIS SCHEDULE.
- TOTAL AIR CONTENT LISTED IN THIS SCHEDULE IS BASED ON A MAXIMUM AGGREGATE SIZE OF 3/4" AND SHALL BE ADJUSTED BY THE CONCRETE MIX DESIGNER AS REQUIRED FOR DIFFERENT AGGREGATE SIZES PER ACI-318.
- REFER TO THE CONCRETE NOTES ON THE LEAD SHEET FOR THIS PROJECT FOR ADDITIONAL REQUIREMENTS.
- FLY ASH OR OTHER POZZOLANS SHALL NOT BE UTILIZED IN ANY CONCRETE MIX UNLESS APPROVED BY THE ENGINEER. THE QUANTITY OF POZZOLANS USES IN CONCRETE SUBJECT TO EXPOSURE CLASS F3 SHALL NOT EXCEED THE LIMITS SET FORTH IN ACI-318.

CAST-IN-PLACE CONCRETE CLEAR COVER FOR REINFORCING

TYPE	COVER
FOOTINGS, GRADE BEAMS, CAISSONS AND OTHER CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER (#6 BAR AND LARGER)	2"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER (#5 BAR AND SMALLER)	1 1/2"
INSIDE FACE OF WALLS	1"
BEAMS AND COLUMN TIES/STIRRUPS (NOT EXPOSED TO EARTH OR WEATHER)	1 1/2"

CAST-IN-PLACE CONCRETE CLEAR COVER NOTES:

- MINIMUM REINFORCING COVER SHALL BE PROVIDED PER THIS TABLE UNLESS SHOWN OR NOTED OTHERWISE ON PLANS AND SECTIONS.

SHOP DRAWING SUBMITTAL REQUIREMENTS		Submittal Required	Signed & Sealed
		Yes	Yes
Section 1 - General			
1	Temporary Sheeting & Shoring For Excavation Shop Drawings & Calculations	X	X
2	Temporary Shoring Shop Drawings & Calculations	X	X
Section 2 - Concrete			
1	Concrete Mix Design	X	
2	Concrete Reinforcing Shop Drawings	X	
Section 3 - Metals			
1	Steel Guards and Railings & Calculations	X	X
2	Post Installed Anchors, Materials, Adhesives	X	

TABLE 1
LAP SPICE LENGTHS FOR CONCRETE
CLASS B SPICE LENGTHS (INCHES)

BAR SIZE	3,000 PSI CONCRETE				4,000 PSI CONCRETE				5,000 PSI CONCRETE				6,000 PSI CONCRETE			
	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP
#3	21	27	12	18	24	12	17	22	12	17	20	12	17	20	12	12
#4	29	38	15	25	32	15	22	29	15	20	26	15	20	26	15	15
#5	37	47	19	31	40	19	28	36	19	25	33	19	25	33	19	19
#6	43	56	23	38	48	23	34	43	23	31	39	23	31	39	23	23
#7	62	82	27	54	70	27	49	63	27	45	58	27	45	58	27	27
#8	72	92	30	62	80	30	56	72	30	51	66	30	51	66	30	30
#9	81	104	34	70	91	34	63	81	34	57	74	34	57	74	34	34
#10	90	116	39	79	102	39	71	92	39	64	84	39	64	84	39	39

TABLE 2
STRAIGHT BAR DEVELOPMENT LENGTHS
CLASS A SPICE LENGTHS (INCHES)

BAR SIZE	3,000 PSI CONCRETE				4,000 PSI CONCRETE				5,000 PSI CONCRETE				6,000 PSI CONCRETE			
	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP	TENSION	TOP	COMP	COMP
#3	16	21	9	14	18	8	13	17	8	12	16	8	12	16	8	8
#4	22	29	11	19	25	9	17	22	9	15	20	9	15	20	9	9
#5	28	36	14	24	31	12	21	29	12	19	25	12	19	25	12	12
#6	33	43	17	29	37	14	26	33	14	24	30	14	24	30	14	14
#7	48	63	19	42	54	17	38	49	16	34	45	16	34	45	16	16
#8	55	71	22	48	62	19	43	56	18	39	51	18	39	51	18	18
#9	62	80	25	54	70	21	48	63	20	44	57	20	44	57	20	20
#10	69	89	28	61	79	24	54	71	23	50	64	23	50	64	23	23

- NOTES (TABLES 1, 2, AND 3):
- DEVELOPMENT AND LAP SPICE LENGTHS SHOWN ARE FOR UNCOATED ASTM A615 GRADE 60 (fy = 60,000 PSI) DEFORMED BAR REINFORCING.
 - DEVELOPMENT LENGTHS ARE BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT CONCRETE MULTIPLY THE LENGTHS SHOWN BY 1.333.
 - MINIMUM BAR CLEAR COVER SHALL BE 1 BAR DIAMETER. MINIMUM BAR CLEAR SPACING IS 1 BAR DIAMETER IN BEAMS AND COLUMNS IN OTHER CONCRETE ELEMENTS.
 - MULTIPLY THE DEVELOPMENT LENGTH SHOWN BY 1.5 FOR REINFORCING WITH COVER AND SPACING LESS THAN DESCRIBED ABOVE.
 - USE THE LAP SPICE LENGTHS IN THE "TOP" COLUMN FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR.

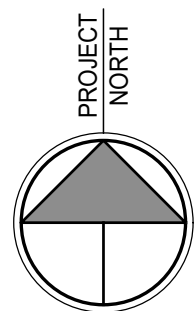
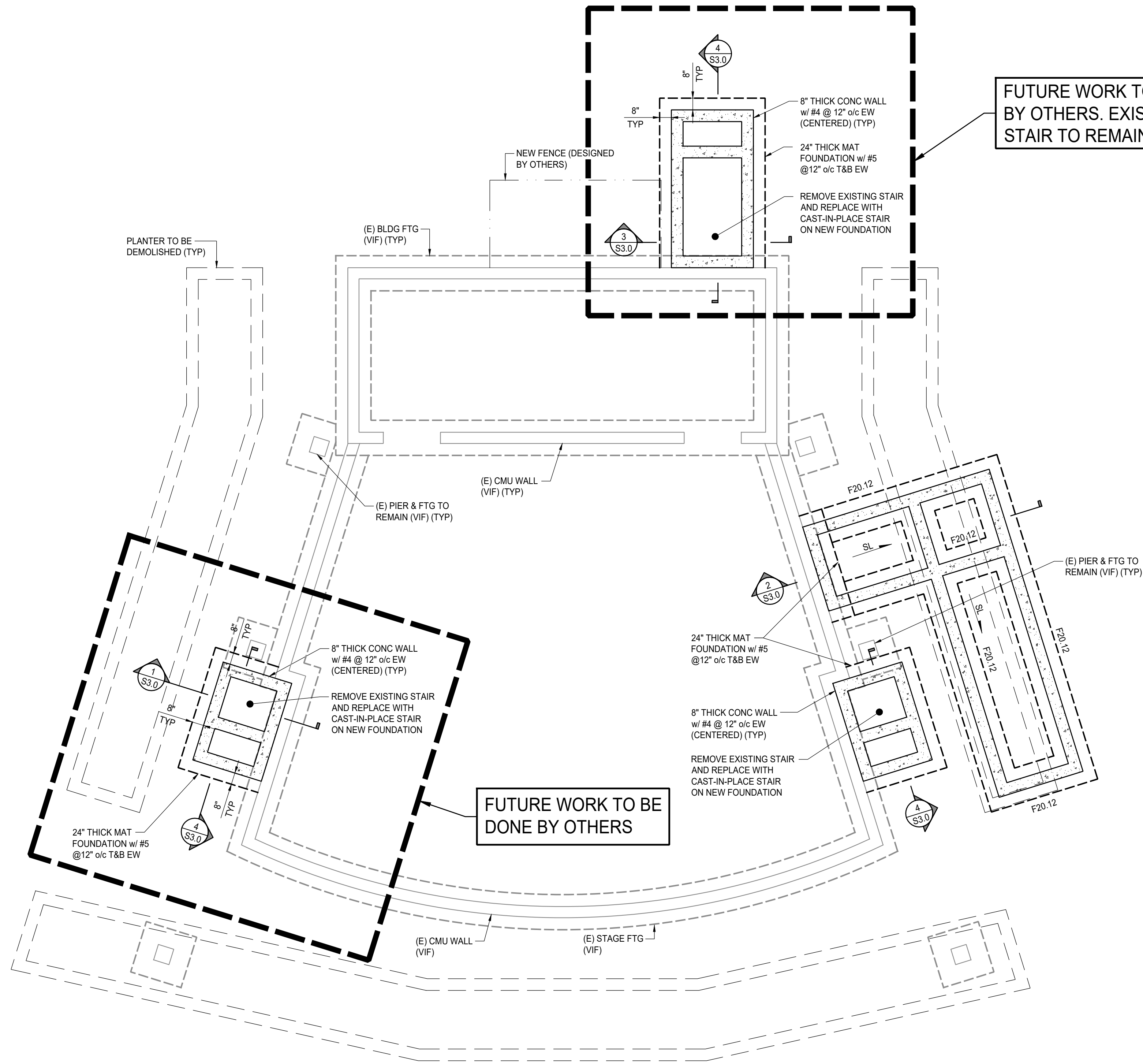
TABLE 3
HOOKED BAR TENSION DEVELOPMENT LENGTHS
LENGTHS (INCHES)

BAR SIZE	3,000 PSI CONCRETE		4,000 PSI CONCRETE		5,000 PSI CONCRETE		6,000 PSI CONCRETE	
	TENSION	TOP	TENSION	TOP	TENSION	TOP	TENSION	TOP
#3	9	8	7	6				
#4	11	10	9	8				
#5	14	12	11	10				
#6	17	15	13	12				
#7	19	17	15	14				
#8	22	19	17	16				
#9	25	22	20	18				
#10	28	24	22	20				

SPECIAL INSPECTION AND TESTING (IBC 2021 - NJ EDITION, CHAPTER 17)

- ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY. THE SPECIAL INSPECTOR FROM THIS TESTING AGENCY SHALL OBSERVE THE WORK FOR CONFORMANCE TO THE DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL BE TRAINED/CERTIFIED TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN DOCUMENTATION OF CERTIFICATIONS FOR RECORD PRIOR TO CONSTRUCTION.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS, SPECIFICATIONS, SOILS REPORT AND APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
- STRUCTURAL OBSERVATIONS BY THE STRUCTURAL ENGINEER SHALL NOT BE CONSIDERED A SPECIAL INSPECTION.
- THE FOLLOWING ITEMS MARKED "X" REQUIRE SPECIAL INSPECTIONS: (REFER TO IBC 2018 - NJ EDITION, CHAPTER 17 FOR ADDITIONAL INFORMATION)

VERIFICATION AND INSPECTION		INSPECTION REQUIRED	
		CONTINUOUS	PERIODIC
1705.3 - CONCRETE CONSTRUCTION			
1.	Inspection of reinforcement including prestressing tendons and verification of placement		X
2.	Inspection of reinforcing bar welding (in accordance with AWS D14)		
a.	Verification of weldability of reinforcing bars other than ASTM A706		X
b.	Inspection of single-pass fillet welds, maximum 5/16"		X
c.	Inspection of all other welds	X	
3.	Inspection of anchors cast in concrete		X
4.	Inspection of anchors post-installed in hardened concrete members:		
a.	Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X	
b.	Mechanical anchors and adhesive anchors not defined in 4.a		X
5.	Verification of required design mix		X
6.	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	
7.	Inspection of concrete and shotcrete placement for proper application techniques	X	
8.	Verification of maintenance of specified curing temperature and techniques		X
9.	Inspection of prestressed concrete for:		
a.	Application of prestressing forces	X	
b.	Grouting of bonded prestressing tendons	X	
10.	Inspection of erection of precast concrete members		X
11.	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		X
12.	Inspection of formwork for shape, location, and dimensions of the concrete member being formed		X
VERIFICATION AND INSPECTION		INSPECTION REQUIRED	
		CONTINUOUS	PERIODIC
1705.6 - SOILS			
1.	Verification of materials below shallow foundations are adequate to achieve the design bearing capacity		X
2.	Verification that excavations are extended to proper depth and have reached proper material		X
3.	Perform classification and testing of compacted fill materials.		X
4.	Verification of use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	X	
5.	Prior to placement of compacted fill, inspection of subgrade and verify that site has been prepared properly		X



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

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F20.12	2'-0"x1'-0" CONT	(3) #4 LONG WAY BOT #4 @ 12" SHORT WAY BOT

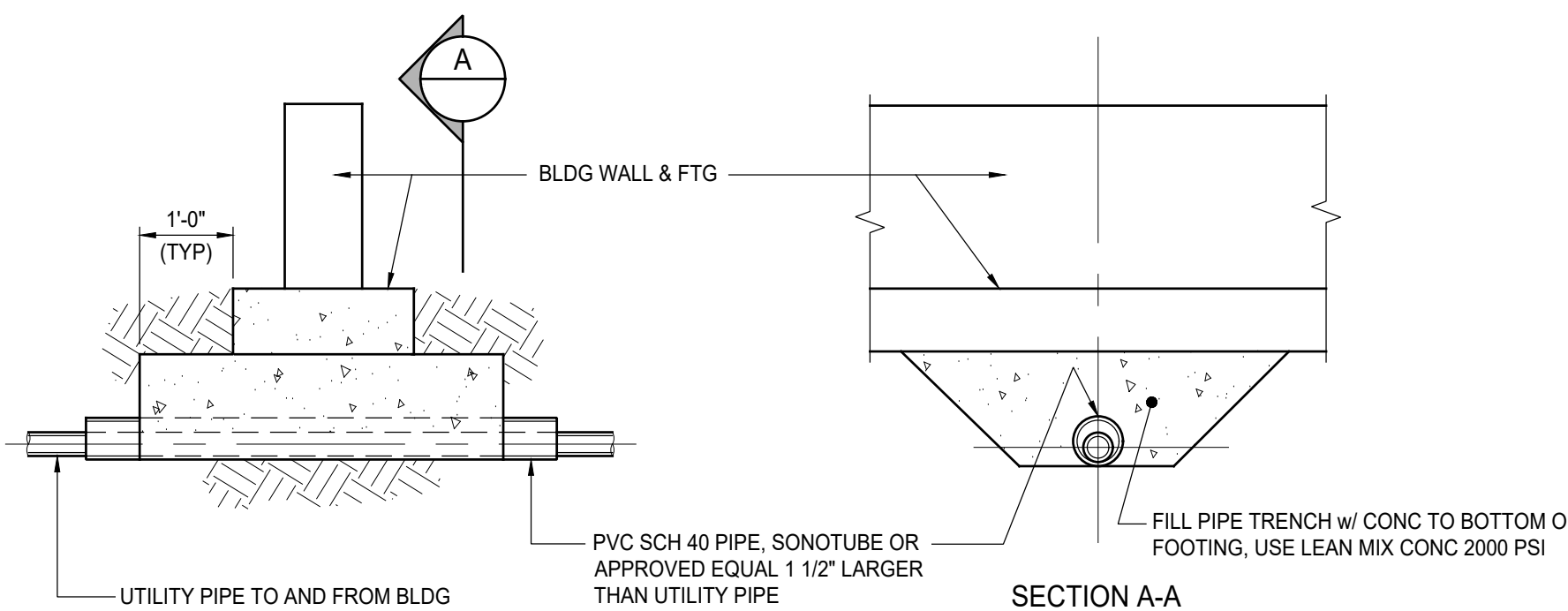
- FOOTING SCHEDULE NOTES:
- ALL FOUNDATIONS HAVE BEEN DESIGNED USING A SAFE ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF.
 - REFER TO THE FOUNDATION INVESTIGATION REPORT LISTED IN THE STRUCTURAL NOTES ON DRAWING S0.0 FOR ADDITIONAL INFORMATION REGARDING THE FOUNDATION CONSTRUCTION.

- FINISH STAGE DATUM ELEVATION = 63.58' = PROJECT ELEVATION = 0'-0".
- BOTTOM OF FOOTING ELEVATION SHALL BE -5'-0" BELOW FINISH STAGE ELEVATION AND 3'-0" MINIMUM BELOW FINISH GRADE ELEVATION, UNLESS NOTED THUS (- #'-#"). ON PLAN, ALL BOTTOM OF NEW FOUNDATIONS NEXT TO EXISTING FOUNDATIONS SHALL MATCH BOTTOM OF EXISTING FOUNDATION.
- DENOTES EXTENT OF REINFORCED CONC WALLS. SEE PLAN FOR THICKNESS AND APPLICABLE SECTIONS FOR REINFORCING.
- SECTIONS SHOWN ON PLAN APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BUILDING.
- SEE DRAWING S0.0 FOR STRUCTURAL NOTES.
- SEE DETAILS A511.0 & B511.0 ON FOR TYPICAL FOUNDATION DETAILS @ UTILITY PIPES.
- SEE ARCHITECTURAL DRAWINGS FOR ALL REQUIRED DEMOLITION PRIOR TO START OF NEW WORK.
- CONCRETE WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET MAXIMUM ON CENTERS UNLESS NOTED OTHERWISE. JOINTS TO BE FILLED WITH AN ARCHITECT APPROVED SEALANT.
- ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BEFORE ANY NEW WORK IS PERFORMED.
- (VIF) DENOTES TO VERIFY IN FIELD.
- (E) DENOTES EXISTING.

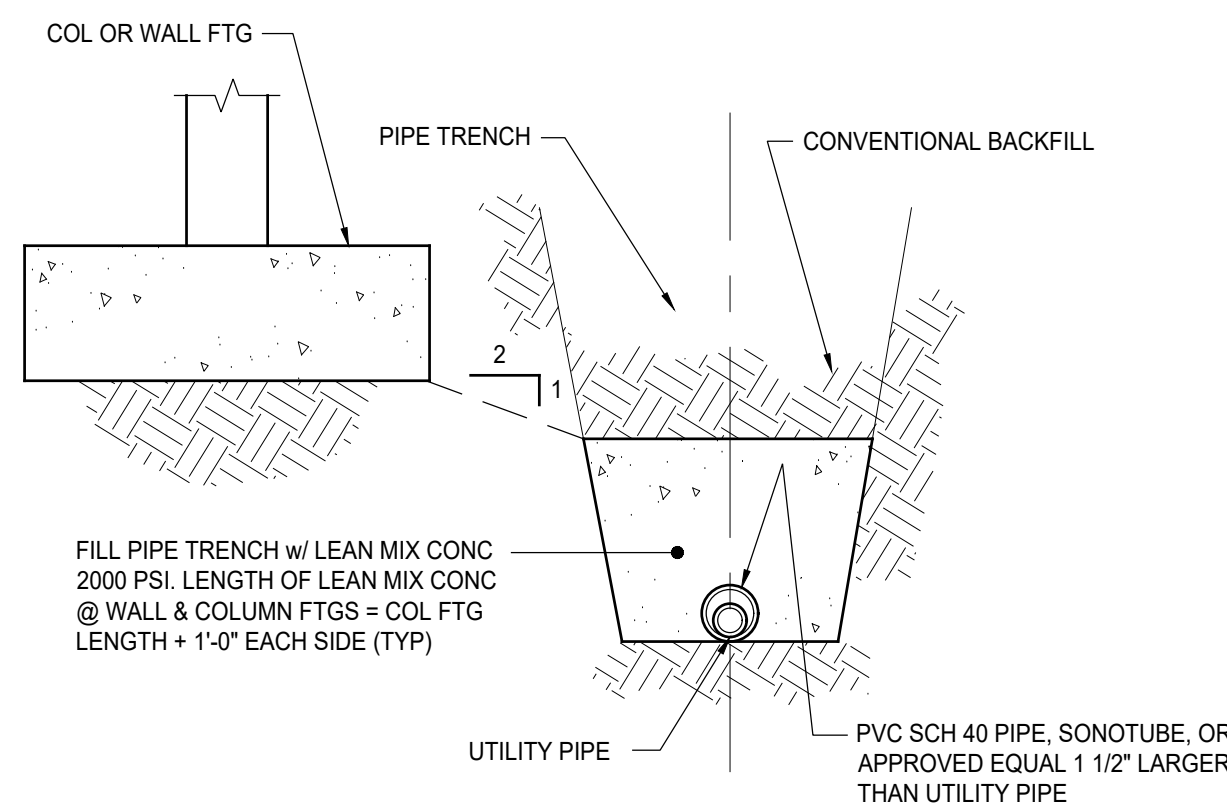
FOUNDATION ELECTRICAL GROUNDING NOTE:
THE BUILDING ELECTRICAL GROUNDING SYSTEM SHALL BE BONDED TO THE FOUNDATION REBAR IN ACCORDANCE WITH THE REQUIREMENTS OF N.J.A.C. 5:23-3.4 AND N.E.C. 2014, SECTION 250-52 (A) (3). CONTRACTOR SHALL COORDINATE WITH PROJECT ELECTRICAL DRAWINGS FOR REQUIREMENTS. ATTACHMENT OF ELECTRICAL GROUNDING SYSTEM TO FOUNDATION REBAR SHALL BE MADE PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.

FUTURE WORK TO BE DONE BY OTHERS. EXISTING STAIR TO REMAIN

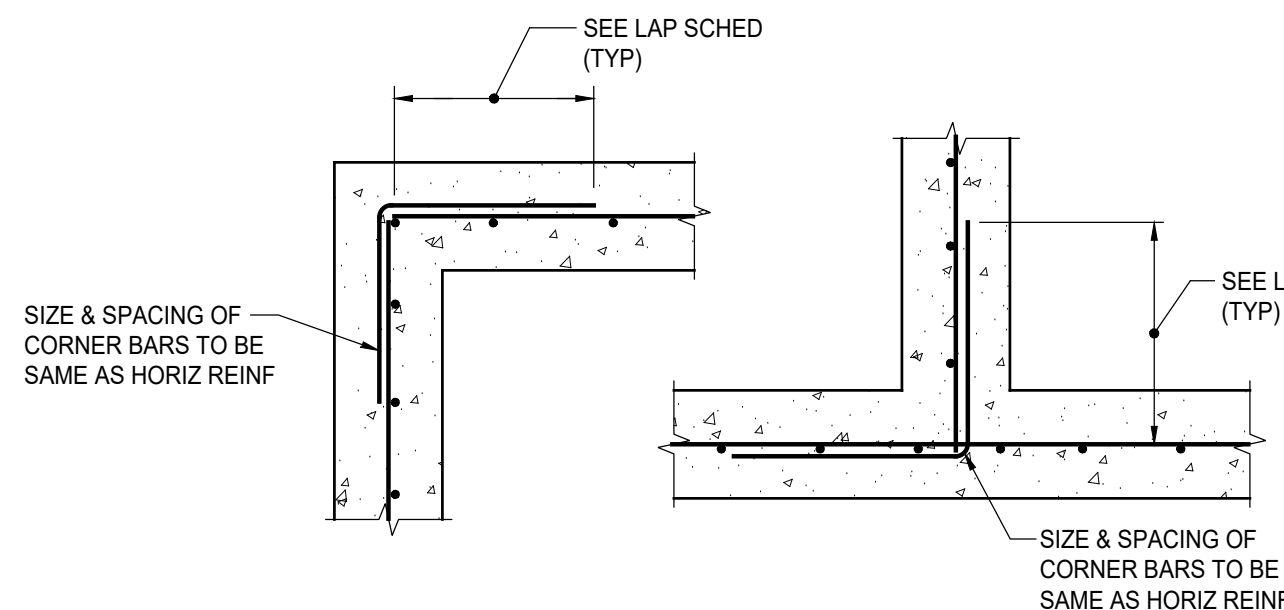
FUTURE WORK TO BE DONE BY OTHERS



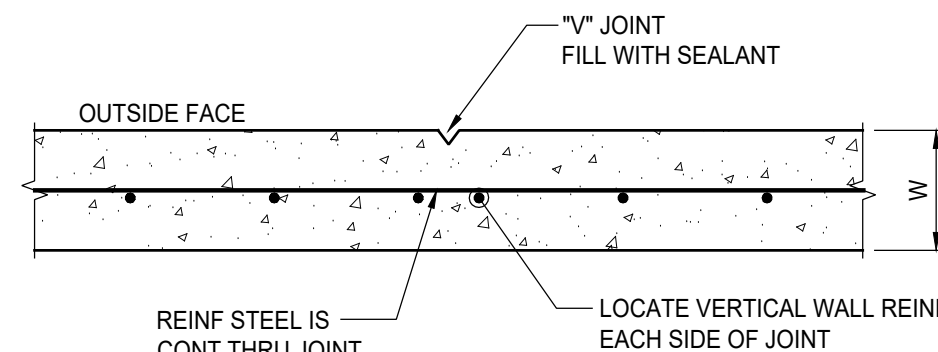
A
S1.0
TYPICAL DETAIL @ UTILITY PIPES UNDER WALL FTGS
NOT TO SCALE



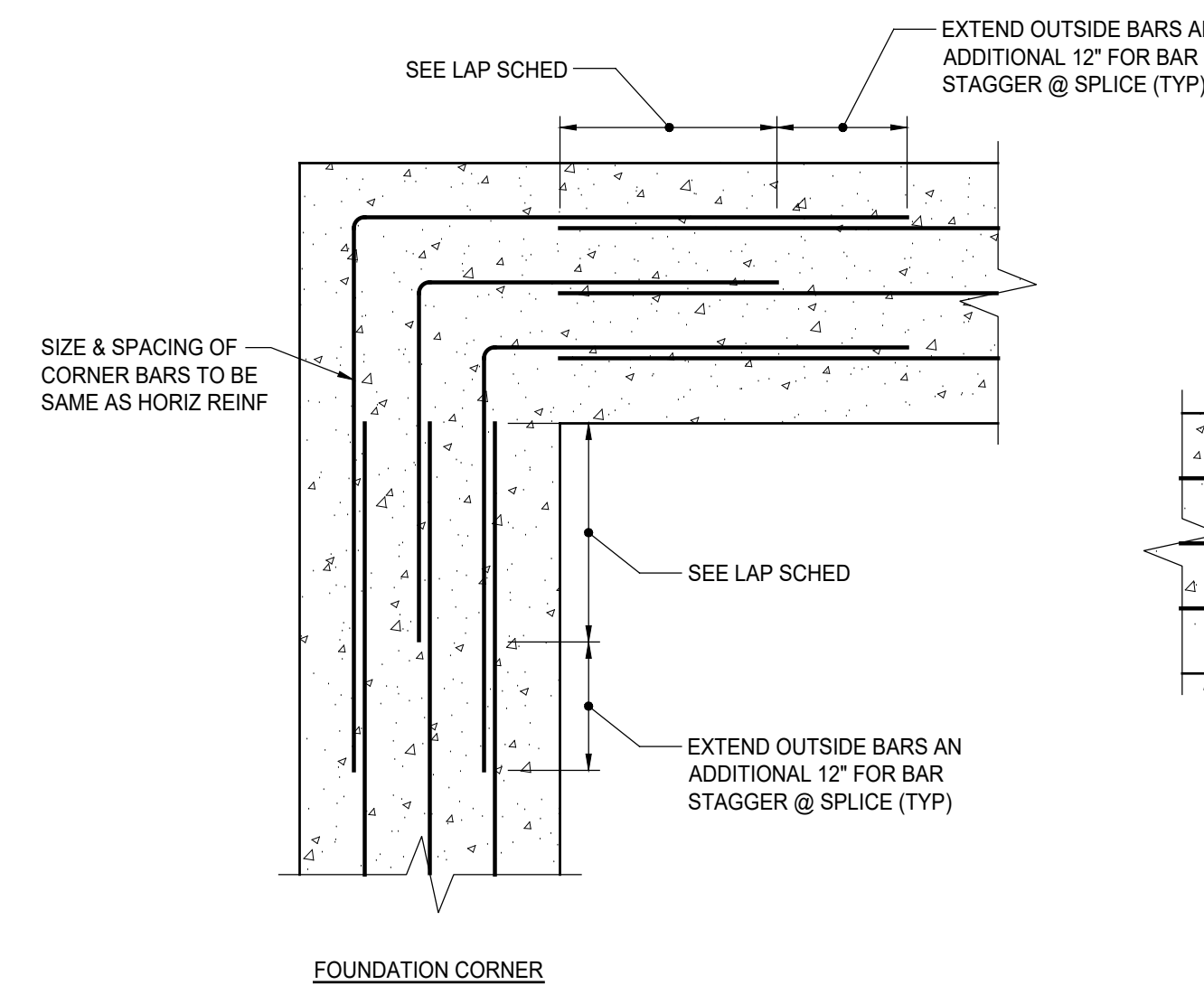
B
S1.0
TYPICAL DETAIL @ UTILITY PIPES ADJACENT TO COLUMN OR WALL FOOTINGS
NOT TO SCALE



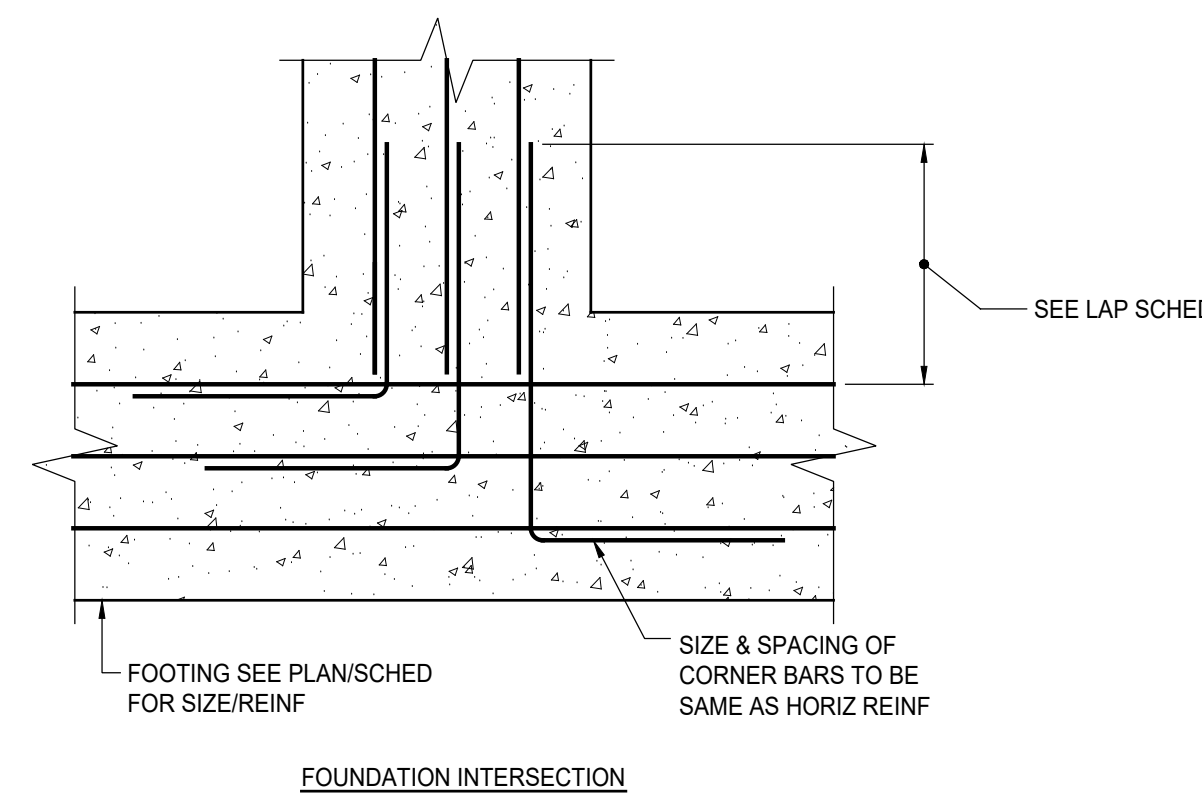
C
S1.0
PLAN-TYPICAL CORNER BAR DETAILS
NOT TO SCALE



D
S1.0
TYPICAL CONTROL JOINT AT CONCRETE WALL
NOT TO SCALE



F
S1.0
PLAN-TYPICAL FOOTING CORNER BAR DETAILS
NOT TO SCALE



E
S1.0
ANCHOR ROD DETAILS
NOT TO SCALE

OMITTED

MICHAEL A. BEACH & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERING

161 GATHER DRIVE, SUITE 102
MOUNT LAUREL, NEW JERSEY 08054
PH: (856) 273-1909 FAX: (856) 273-1480
EMAIL: mail@mabachassoc.com
NJ Certificate of Authorization No. 24GA27962200
Project No: 747.211

1	09-15-2026	ISSUE FOR BIDS	TDJ
NO.	DATE	DESCRIPTION	REV'D BY
REVISIONS			
APPROVAL:		PROJECT:	
		ADA UPGRADES TO THE JAMES G. ATKINSON MEMORIAL PARK AMPHITHEATER	
		138 BETMILL ROAD SEWELL, NJ 08080	
		TITLE: FOUNDATION PLAN	
		SCALE: AS NOTED DRAWING NO: S1.0	
		DATE: 09/15/26	
		REV'D: TDJ	
		DRAWN BY: NDC	
		CHECKED BY: TDJ	

[illegible]

161 GAITHER DRIVE, SUITE 102
MOUNT LAUREL, NEW JERSEY 08054
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EMAIL: mail@mabeachassoc.com
NJ Certificate of Authorization No. 24GA27962200
Project No: 747.211

1	09-15-2026	ISSUE FOR BIDS	DESCRIPTION	REV'D BY
No.	DATE		REVISIONS	
APPROVAL:		PROJECT: JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER UPGRADES & ADA COMPLIANCE 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: ELECTRICAL SITE PLAN		
 13800 Horizon Blvd., Suite 503 Riverside, NJ 07073 O: (201) 932-7711 F: (201) 932-7779 www.holsteinwhite.com		SCALE: AS NOTED PROJNO.: 1155A DATE: 09-15-26 REV'D: RG DRAWN BY: JP CHECKED BY: GH ENGINEER MUST BE ADVISED BY CONTRACTOR. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING. JOSEPH F. MCKERNAN JR., ARCHITECT & ASSOCIATES 300 WEST 10TH STREET, SUITE 200 CHERRY HILL, NJ 08034 TEL: 201-932-7711 WWW.HOLSTEINWHITE.COM		
SEAL:  JEFFREY E. HOLSTEIN NJ PE NO. 246584684-000 JL H017479X.NJ.246584684-000				

DEVICE SCHEDULE									
DEVICE	DESCRIPTION	MANUFACTURER	MODEL	BACKBOX (WxHxD)	MOUNTING HEIGHT	MOUNTING TYPE	FINISH	LOW VOLTAGE CONDUIT REQUIREMENTS	NOTES
TS1.1 DEVICE PLAN									
ER	EQUIPMENT RACK	MIDDLE ATLANTIC	SEE BOM	INTEGRAL	TOP @ 48" AFF	SURFACE	BLACK	-	-
RP	RELAY PANEL	LYNTEC	SEE BOM	-	48" AFF	SURFACE	GREY	3/4" [G3] TO ER	-
TIP-1	TECHNICAL INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	SEE TPC/TS3.1	SURFACE	BLACK	3/4" [G3/G4] TO ER	-
TPC	TOUCH PANEL CONTROL	QSYS	SEE BOM	2-GANG	48" AFF	SURFACE	BLACK	-	-
WDMX	WIRELESS DMX TRANSMITTER	CITY THEATRICAL	SEE BOM	-	SEE B/TS3.1	SURFACE	WHITE	3/4" [G3] TO ER	MOUNTED ON RACK DOOR
WAP-1	WIRELESS ACCESS POINT	NETGEAR	SEE BOM	2-GANG	SEE B/TS3.1	SURFACE	WHITE	3/4" [G3] TO ER	-
WMA-1	WIRELESS MICROPHONE ANTENNA	SHURE	SEE BOM	-	SEE B/TS3.1	SURFACE	-	3/4" [G3] TO ER	-
WMA-2	WIRELESS MICROPHONE ANTENNA	SHURE	SEE BOM	-	SEE B/TS3.1	SURFACE	-	3/4" [G3] TO ER	-
TS1.2 DEVICE RCP									
DMX-1	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO DMX-2	-
DMX-2	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO DMX-3	-
DMX-3	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO ER	-
SPKR-1	STAGE RIGHT LOUDSPEAKER	FULCRUM ACOUSTICS	SEE BOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G1] TO ER	-
SPKR-2	STAGE LEFT LOUDSPEAKER	FULCRUM ACOUSTICS	SEE BOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G1] TO ER	-
*SEE TS0.0 FOR ADDITIONAL INFORMATION (BACK BOXES, MOUNTING HEIGHTS, CONDUIT SEPARATION)									
NOTES:									
1. DEVICE SCHEDULE IS FOR REFERENCE ONLY. SEE TO THEATER CONSULTANT DRAWING TS6.1 FOR FURTHER INFORMATION. DEVICE SCHEDULE REFERENCED IS FROM DRAWINGS DATED '07-24-26.									

DEMOLITION NOTES

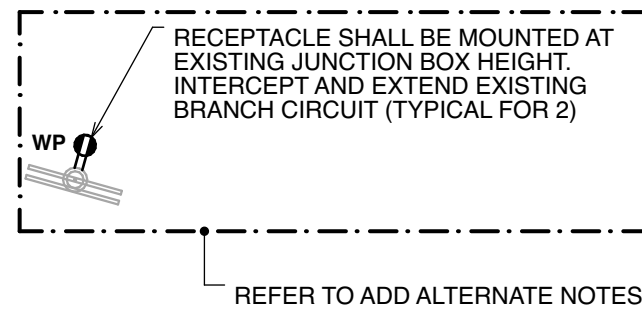
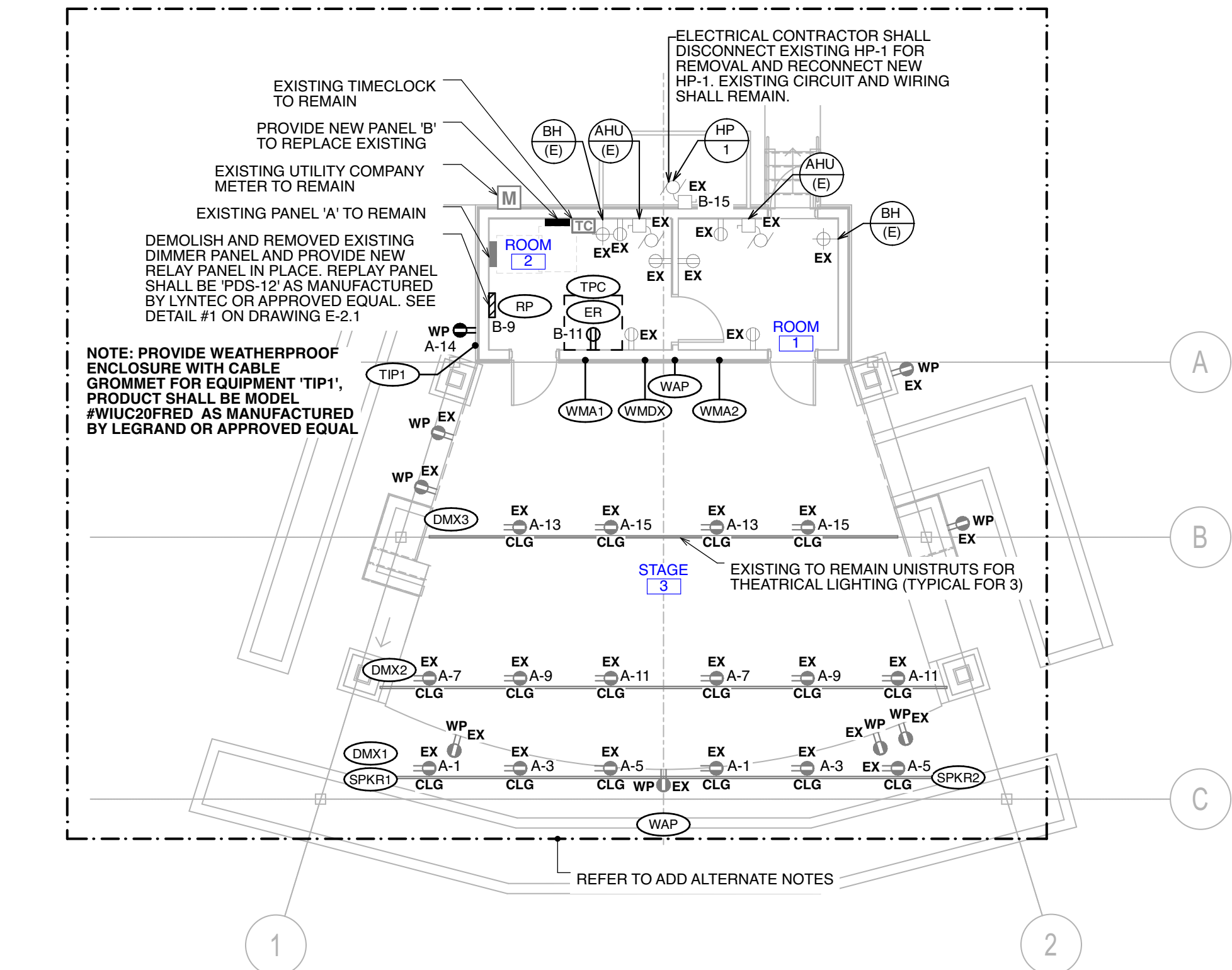
- WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WORK THAT INTERFERES WITH OR IS NECESSARY BECAUSE OF NEW CONSTRUCTION AS SPECIFIED, SHOWN OR REQUIRED.
- PERFORM ALTERATION AND ADDITIONS TO PRESENT ELECTRICAL SYSTEM WITH A MINIMUM INTERRUPTION IN THE OPERATION OF THESE SYSTEMS. OBTAIN WRITTEN CLEARANCE FROM OWNER FOR SUCH INTERRUPTIONS AND SCHEDULE SAME AT WHATEVER TIME SPECIFIED IN WRITING BY OWNER.
- WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMPLETE COORDINATED ELECTRICAL SYSTEM TO SATISFACTION OF OWNER AND ARCHITECT.
- ALL EXISTING WORK TO REMAIN, BUT DISTURBED AND DISCONNECTED BECAUSE OF ALTERATIONS AND NEW CONSTRUCTION SHALL BE REPLACED AND PUT IN OPERATING CONDITION UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ARCHITECT.
- EXISTING BRANCH CIRCUITS NOT SHOWN SHALL REMAIN INTACT TO EXTENT PRACTICABLE, AND SHALL BE EXTENDED AS REQUIRED.
- DISCONNECT AND REMOVE EXISTING WIRING DEVICES, LIGHTING FIXTURES AND ASSOCIATED BRANCH CIRCUIT WIRING NO LONGER REQUIRED BY NEW CONSTRUCTION.
- ALL EXISTING WORK TO REMAIN, BUT DISTURBED OR DISCONNECTED BECAUSE OF ALTERATIONS AND NEW CONSTRUCTION SHALL BE REPLACED AND PUT IN OPERATING CONDITION UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ARCHITECT.
- PERFORM ALL WORK NECESSARY TO PERMIT OPERATION OF ALL EXISTING SYSTEMS DURING THE CONSTRUCTION PERIOD. PROVIDE AND MAINTAIN APPLICABLE APPROVED TEMPORARY WIRING TO MEET THIS REQUIREMENT.
- EXISTING BRANCH CIRCUITS NOT SHOWN SHALL REMAIN INTACT TO EXTENT PRACTICABLE, AND SHALL BE EXTENDED AS REQUIRED.
- DEMOLISH AND REMOVE EXISTING ELECTRICAL EQUIPMENT, FEEDERS AND CONDUIT NO LONGER REQUIRED BY NEW CONSTRUCTION BACK TO ELECTRICAL PANEL.
- ALL CIRCUIT BREAKERS NO LONGER REQUIRED BY NEW CONSTRUCTION SHALL BE MADE SPARE AND SET OPEN POSITION.
- ELECTRICAL CONTRACTOR SHALL UPDATE PANEL DIRECTORIES AT THE COMPLETION OF WORK.

DRAWING NOTES

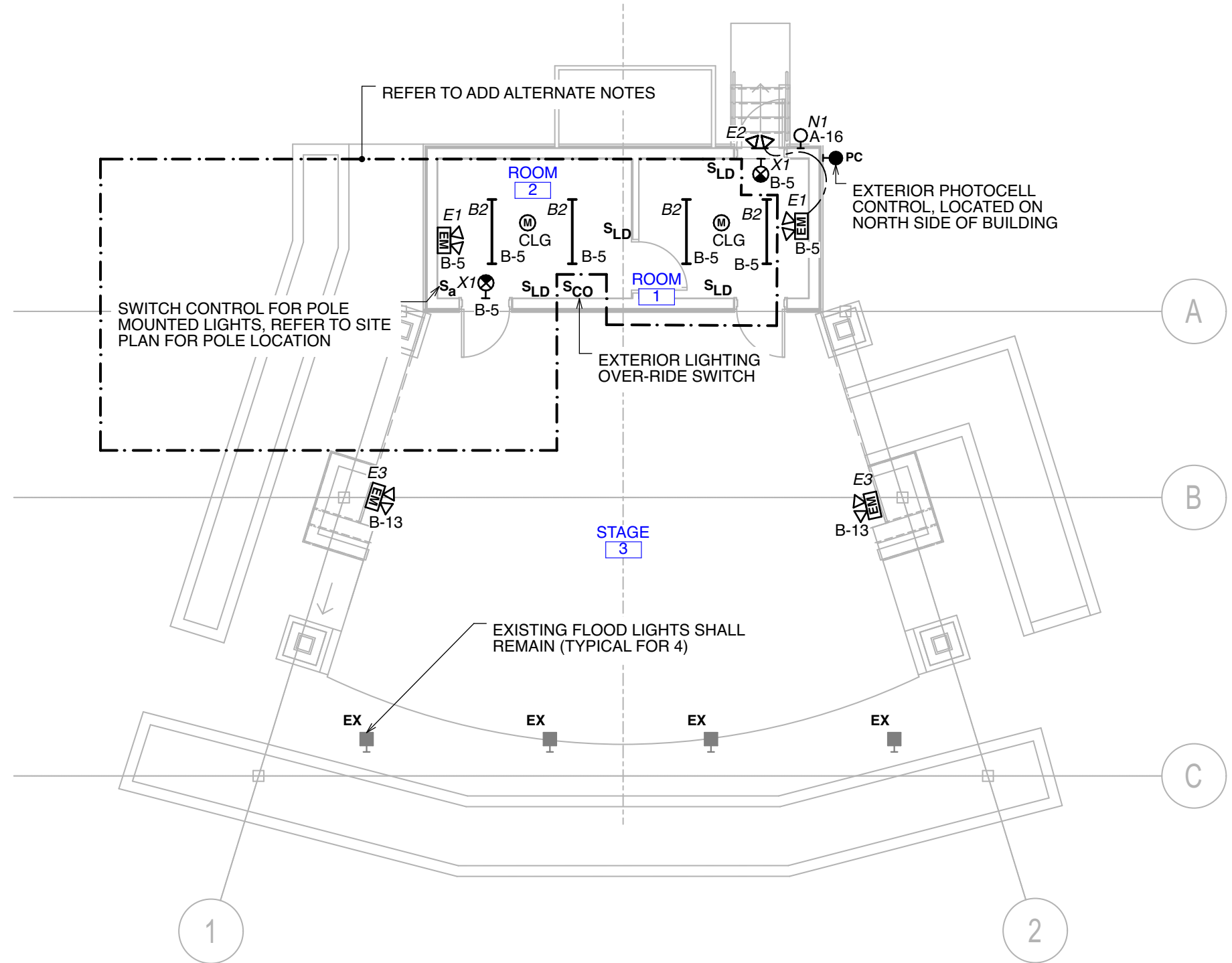
- FIELD VERIFY LOCATION OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- COORDINATE INSTALLATION OF HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. INSTALL AND WIRE DISCONNECT SWITCHES FURNISHED BY MECHANICAL CONTRACTOR.
- FIELD VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- UNLESS OTHERWISE NOTED, ALL POWER SHALL BE CIRCUITED TO PANEL 'A'.
- UNLESS OTHERWISE NOTED ALL LIGHTING SHALL BE CIRCUITED TO PANEL 'A'.
- ALL STAGE AND THEATRICAL LIGHTING SHALL BE BY OTHERS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
- ALL LIGHTING FIXTURES SHALL BE APPROVED BY ARCHITECT AND OWNER PRIOR TO PURCHASE.
- COORDINATE ALL LOW VOLTAGE WORK WITH OWNER AND OWNER'S LOW VOLTAGE VENDOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BACK BOXES WITH CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.
- ALL CIRCUITING SHOWN ON PLANS SHALL BE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT POLE POSITION IN EXISTING PANELS 'A' AND 'B'.
- SEE THEATRICAL CONSULTANT DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL SCOPE. SEE RESPONSIBILITY MATRIX ON TS0.0.
- THEATRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LOW-VOLTAGE WIRING DEVICES, AND EQUIPMENT ASSOCIATED WITH THEATRICAL SYSTEMS. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS WITH PULLSTRING FOR ALL THEATRICAL EQUIPMENT AND POWER FOR ALL THEATRICAL EQUIPMENT.
- EQUIPMENT TAGS SHOWN ON PLAN MAY REQUIRE MULTIPLE CIRCUITS. CONTRACTOR SHALL REFER TO PANEL SCHEDULES AND THEATRICAL CONSULTANT DRAWINGS FOR EXACT POWER REQUIREMENTS AND SPECIFICATIONS FOR EACH PIECE OF EQUIPMENT.

ADD ALTERNATE NOTES

- ELECTRICAL CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICE FOR ALL WORK AND MATERIAL ASSOCIATED WITH THE THEATRE SYSTEMS INCLUDING, BUT NOT LIMITED TO: SOUND SYSTEM, DEVICES, POWER AND LIGHTING FOR THE STAGE. PRICE SHALL INCLUDE ALL LABOR, MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.



1 FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1' - 0"



2 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1' - 0"

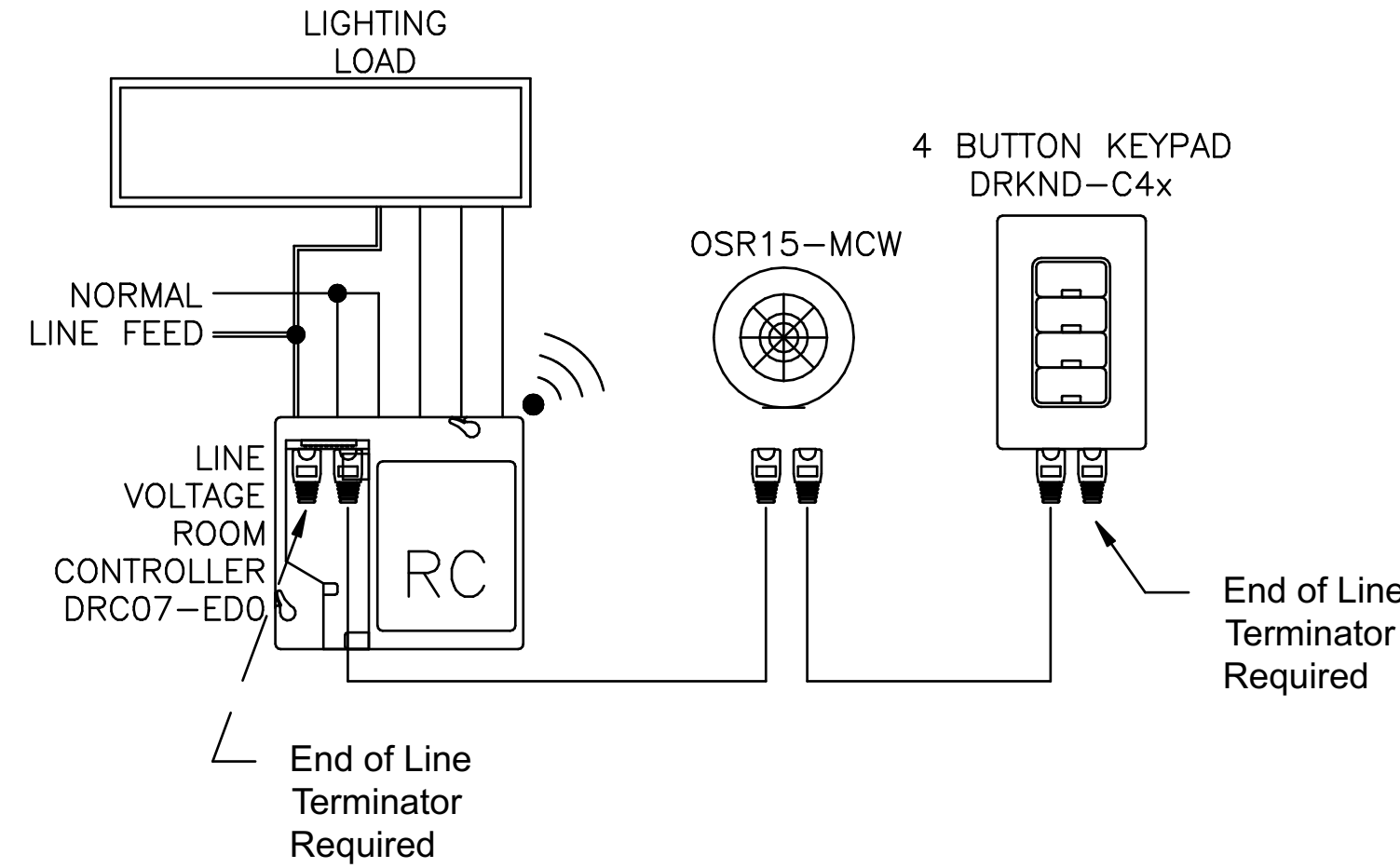
1	09-15-2026	ISSUE FOR BIDS		
No.	DATE	DESCRIPTION		REV'D BY
REVISIONS				
APPROVAL:		PROJECT:		
		JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER UPGRADES & ADA COMPLIANCE 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: FIRST FLOOR ELECTRICAL PLAN		
SEAL:		SCALE: AS NOTED PROJ. NO.: 1558A DATE: 09-15-26 REV'D: RG DRAWN BY: EP CHKD BY: JH		
JEFFREY E. HOLSTEIN NJ PE NO. 24624664000 NJ AUTH NO. 246246142700		DIMENSIONS MUST BE VERIFIED BY CONTRACTOR. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.		

ELECTRICAL SPECIFICATIONS

- Contractor shall provide all labor, materials, tools, apparatus and equipment required to complete his work in accordance with the contract documents, codes, laws and ordinances, and accepted trade procedures.
- The contractor by his acceptance of the contract guarantees that all work installed shall be free from all defects in workmanship and materials and that all apparatus furnished by him shall develop the capacities and characteristics specified. He further guarantees that if, during a period of one (1) year from the date of the certificate of completion and acceptance of the work, any such defects in workmanship, material or performance appear, such defects shall be remedied by him without cost to the owner. If the contractor fails to remedy the defects as outlined within a reasonable length of time, to be specified in a notice from the owner's authorized representative to the contractor, the owner will have such work done, and he will charge the cost to the contractor.
- The contractor shall visit the site before he submits his proposal. He shall examine all existing conditions which affect the work. The submission of the proposal shall be considered evidence that this requirement has been fulfilled. No extra payment will be allowed for additional work made necessary by the failure to visit the site.
- Electrical equipment shall be installed in a neat and workmanlike manner in accordance with latest and best practices of the trade. Only mechanics skilled in this type of Work shall be employed and utilized by Contractor for this Division in the execution of this Work.
- The contract drawings are diagrammatic and indicate the general arrangement of all systems and work included in the contract. The contract drawings are not to be scaled. The architectural contract drawings and details together with the other contract documents shall be examined for all dimensional information.
- The contractor shall, without additional costs to the owner, make reasonable modifications in the layout of his work in order to prevent conflicts with the work of other trades or for the proper execution of his work.
- The contractor shall provide and maintain in good order a complete set of blue line prints of the contract drawings. As the work progresses, the actual location of all work shall be clearly recorded, including all changes to the contract and equipment size and type. These prints shall be available at the site for inspection at all times. At the conclusion of the work, the contractor shall, at his own expense, obtain a set of reproduces of the original contract drawings, and utilizing the symbols on the contract drawings, shall incorporate all "as built" data in a clearly legible and reproducible manner. All schedules shall be corrected to indicate "as built" conditions shall be incorporated on these reproduces including all sketches and written directives. All concealed equipment, manifeeders, pull and junction boxes, etc. shall be dimensionally located from the building structure. As a condition for acceptance of the work, the "as built" reproduces and one (1) set of prints shall be signed, dated and delivered to the owner.
- The contractor shall supply all labor required to perform all work which may be claimed by trade organizations within his jurisdiction. All work shall be performed without any additional cost to the owner regardless of which section of the contract documents the work is described. The contractor shall be responsible to verify with all local organizations the extent of any collective bargaining agreements and/or any jurisdictional decisions rendered regarding disputes between the respective trades, and provide and install his work in accordance with the accepted trade practice in the area.
- The entire installation shall conform with all pertinent codes and regulations of the local, municipal, county, state, and federal authorities. The National Board of Fire Underwriters, the codes of the International Codes Council, the codes of the National Fire Protective Association, the New Jersey Uniform Construction Codes and all other regulatory bodies having jurisdiction. All materials and equipment shall bear the stamps or seals of the NFPA, ASME, NEMA, IEEE, UL and other recognized industry regulatory groups.
- The contractor shall give all necessary notices, obtain all permits, pay all governmental taxes, fees and other costs in connection with his work. He shall file all necessary plans, and prepare all other documents including additional detailed plans that are required for compliance with all applicable laws, ordinances, rules and regulations.
- Before starting any work under this Contract, file for inspection with the Middle Department Inspection Agency or other certified Agency. Upon completion of the work, furnish Electrical Certificates from said Agency for all Electrical equipment and systems installed or furnished and installed as part of the work.
- The contractor shall at all times keep the premises free from the accumulation of waste materials or rubbish caused by his employees or work. At the completion of the work, he shall remove all superfluous materials, equipment and debris resulting from the work.
- All feeder wiring shall be soft drawn copper of 98% conductivity, installed in code conforming metallic raceways or cable assemblies. All wiring shall be copper, thermoplastic covered insulated Type 75° C, THW or 90° C, Type THHN, 600-volt rating, Wire No. 8 AWG and smaller shall be solid. Wire larger than No. 8 shall be stranded.
- All wiring shall be insulated copper conductors installed in code conforming raceways or cable assemblies.
- All wiring shall be run concealed wherever possible. All exposed conduit shall be EMT or rigid steel as required. Flexible conduit shall be smooth liquidtight with appropriate fittings. Conduit drops from above ceiling shall be structurally secured and supported. Cable assemblies used for branch circuits shall not be run exposed. Cable assemblies shall be permitted exposed for final connections to Mechanical and Plumbing equipment and shall be limited to 6 feet total length, routing shall not interfere with equipment workspace.
- Where conductors connect directly to equipment, the insulation temperature rating of the conductor shall meet or exceed the equipment temperature rating.
- Color code conductors to designate neutral conductor and phases. Color coding shall conform with existing building standard.
- Exercise great care in maintaining a uniform and consistent arrangement of phase conductors on all systems. Throughout the entire wiring systems, each phase conductor must always be in the same physical position with respect to the other phase wires at equipment terminals.
- Grounding shall comply with Article 250 of NEC and to approval of local Underwriters inspection authorities.
- Contractor shall provide typed updated panel schedules at completion of project for all panels affected by scope of work.
- Where new circuit breakers are to be installed within existing panelboards, they shall be listed for use with the existing panelboard type, and of sufficient short circuit rating for the application.
- Provide all labor, materials and equipment required to provide electric power to meet the requirements for heating, ventilating, air-conditioning and plumbing systems. Fully coordinate installation of electrical wiring and equipment with installation of electrically operated mechanical equipment provided by the Mechanical and Plumbing Contractors. Install disconnect switches, motor starters, and control transformers furnished by Mechanical and Plumbing Contractors. Provide final equipment electrical terminations. All internal equipment wiring shall be by manufacturer.
- Test equipment, including panelboards and all other equipment and wiring for unintended grounds, short circuits, open circuits, continuity, current leakage, and that equipment will operate as specified. Test feeders for insulation resistance; for load balance of the final installation, and for overall operation of systems. Furnish labor and material required for making such tests and make corrections necessary to balance the load and to obtain proper operation.
- Where existing facilities are being altered, disconnect and remove or relocate all existing electrical work that interferes with or is necessary because of new construction as specified, shown or required.
- Perform alterations and additions to present electrical systems with a minimum interruption in the operation of these systems. Obtain written clearance from Owner for such interruptions and schedule same at whatever time specified in writing by Owner.
- Perform alteration of utilities and services in accordance with the rules, regulations and requirements of the involved utility companies and regulatory agencies having jurisdiction.
- Arrange and pay for the relocation, disconnection or removal of existing utilities and services where shown and where such utilities or services interfere with new construction, whether shown or not. Provide all excavation, backfilling and paving, manholes, and cables required by such work.
- Verify locations of existing underground services in the area of construction. Verify existing locations of underground electrical services, natural gas piping, water services and sanitary piping, which may affect work.
- Lay out all work from approved building and property lines and benchmarks. Verify and be responsible for the correctness of all measurements in connection with work. Any change made in major overall dimensions as shown which affect the physical size, shape, or location of any part of the Work, whether due to field check or changes due to the use of equipment of a manufacturer other than that used as the basis of design shall not cause any interference with other work.
- Electrical equipment shall not interfere in any way with other material or equipment and shall provide adequate working space; see Requirements for Electrical Installations, Article 110 and other related articles of the National Electrical Code.
- Provide materials, equipment, supplies and labor necessary as required to adequately support, brace and strengthen all equipment and materials furnished as part of this work.
- Locations are subject to changes that may be necessary to avoid obstacles in building construction. Verify all dimensions and conditions at site. Check layout for sizes and clearances, and provide so that the apparatus and material may be installed and operated satisfactorily in space provided. Install equipment and raceways to preserve headroom and to keep openings and passageways clear.
- Protect all conduit, fittings, panelboards, switchgear, transformers and other equipment before and during installation and keep clean.
- Identify each switchboard, panel, panelboard, and other electrical equipment as to nature, service and purpose, by means of permanently attached, approved size, laminated phenolic nameplates.
- Where sleeves containing a single conduit penetrate FIRE RATED walls, floors, partitions or slabs, fill and seal conduit to the sleeve with a 1-part intumescent caulk/poxy sealant creating a fire stop equal to or exceeding fire rating of construction material being penetrated. Fire sealant shall prevent spread of flame, smoke, air and water through the sleeve and shall pass 3-hour test per ASTM E814 and UL 1479. Fire sealant shall be installed in accordance with manufacturer's written instructions. Where sleeves containing multiple conduits or multiple cables penetrate FIRE RATED walls, floors, partitions, or slabs, fill and seal spaces between the conduits or cables and the sleeve with 2-part intumescent foam sealant creating a fire stop equal to or exceeding fire rating of construction material being penetrated. Fire sealant shall prevent spread of flame, smoke, air and water through the sleeve and shall pass 3-hour test per ASTM E814 and UL 1479. Fire sealant shall be installed in accordance with manufacturer's written instructions. Where sleeves penetrate exterior walls, fill and seal ends around conduits and/or cables with duct sealant compound equal to Solotite KN-1146, or Link Seal. Install seals in accordance with the manufacturer's recommendations to provide air tightness above ground and hydrostatic sealing below grade. Caulking or other type mastic is not acceptable. Where wiring devices are placed in fire rated construction, fire rating of installed assembly shall meet or exceed the rating of the construction.
- Provide for each voice and data outlet a 4x4 outlet box with pullstring to accessible ceiling space. In non-fishable construction, provide 3/4" conduit with pullstring between outlet box and accessible ceiling space.
- Contractor shall perform all system commissioning with an approved agency per Chapter 9.9 of 2019 ASHRAE 90.1.
- Coordinate all lighting fixture locations and quantities with Architectural plans, and provide all fixtures indicated.
- 120 Volt Switches shall be quiet toggle type with totally enclosed case, rated 20 ampere, specification grade, color as selected by Architect.
- Provide occupancy sensors where indicated on plan. Occupancy sensors shall be as manufactured by Watt Stopper. Wall type shall be dual technology, combination passive infrared and ultrasonic with toggle switch. Refer to detail for exact model number. Provide as built list of settings to owner in operations manuals.
- Furnish and install all lighting fixtures as specified OR by other consultants. Provide all interior and exterior lighting fixtures complete with sockets, reflectors, diffusers, shades, holders, lamps, ballasts, protective devices and all other required accessories. Prior to ordering lighting fixtures, verify exact type of ceiling to be used for each space. Coordinate with Division 15 to avoid conflicts between lighting fixtures and Mechanical and Plumbing piping, ductwork, supports, fittings and equipment. Furnish to other trades, plaster frames, trim rings, etc., where required.
- Receptacles shall be permanently labeled to identify panelboard and circuit number from which served. Use hot, stamped or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.
- Standard duplex receptacles shall be polarized, duplex, parallel blade, U-grounding slot, specification grade, rated 20 amperes, 125 volts, style and color as selected by Architect.
- GFI receptacles shall be 125V, 20 amp rated, as manufactured by Leviton or equal, style and color as selected by Architect. Trip threshold and time shall be as required for the application in accordance with the NEC.
- Plates for Flush Devices shall be type and color as selected by Architect.
- No product shall be installed without prior approval from Owner.
- Contactors shall be permanent magnetic latched, electrically operated, mechanically-held type with number of poles and current rating as shown. Operating coils shall be 120 volts as required. Contactors shall be housed in NEMA Type 1 enclosures with knockouts and provisions for padlocking or incorporated in branch circuit or distribution panelboards as indicated. Provide hand-off-automatic switch in cover to facilitate safe maintenance. Contactors shall be UL listed for switching 208-volt ballast inductive loads. Install, completely wire and connect all systems in accordance with details on Drawings and manufacturer's instructions.
- Motor and circuit disconnect means shall be a horsepower rated safety switch or a circuit breaker, each sized for the applied load and system voltage having an interrupting capacity not less than maximum available short-circuit current of circuit on which applied. Disconnects shall be sized in accordance with NEC and NEMA requirements. Safety switches shall be cartridge fuse type or unused, as required. Manual toggle type motor switches with overload protection may be used as motor disconnects for fractional horsepower motors provided they meet NEC requirements including padlock provision. Safety switches shall be quick-make, quick-break and NEMA Heavy Duty, Type HD. Disconnect enclosures: NEMA 1, NEMA 3R, NEMA 4 to suit application.
- Contractor shall include in bid Unit Prices for each of the following:
A. Each type of receptacle, including coverplate connected to area circuit.
B. Voice outlet box with conduit and pullstring.
C. Each type of switch, including coverplate connected to area circuit.
D. 20/1 Homerun to Local Branch Circuit Panel.
- Unless otherwise noted all electrical equipment is a basis of design of Square D. Equipment shall be as manufactured by Square D or approved equal.
- All electrical equipment shall be labeled to warn qualified persons of potential Arc Flash hazards in accordance with NEC Article 110.16 and all local codes. Electrical contractor shall provide all required labels.
- The engineer is not responsible for the contractor's failure to maintain safe working conditions on the project or for the contractor's failure to install his work in a safe manner. The engineer has not been retained to provide ongoing supervision or direction of the contractor's work. Any visitations to the job site by the engineer, either periodic or random, should not be construed to relieve the contractor of his sole obligation to maintain safe and proper conditions for workmen or the general public. Each contractor agrees to indemnify and hold the engineer harmless from any claim made by any party arising out of any alleged unsafe working condition.
- The contractor shall visit site prior to submitting his proposal to verify actual site conditions and any discovered discrepancies between drawings and site conditions shall be brought to the owner's attention prior to submitting their bid. the contractor shall include all demolition work exposed and concealed, whether or not shown on drawings, necessary for the effective installation and performance of new system, the owner shall not accept (nor the contractor paid) extra costs associated with the demolition and/or temporary removal/reinstallation work from the contractor.

ELECTRICAL SYMBOLS

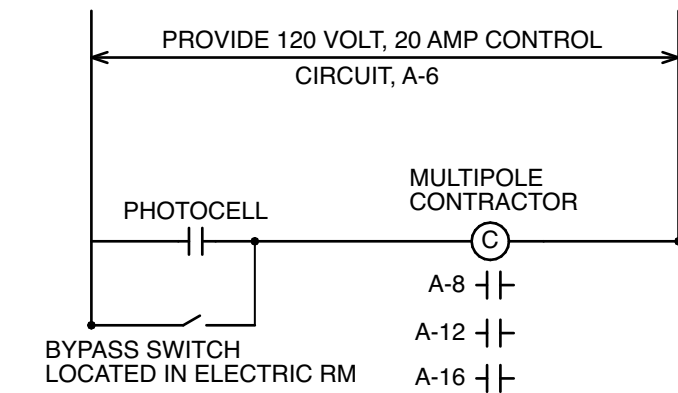
- LED Lighting Fixture
- Controlling Switch Designation
- Circuit Number
Fixture Type
- Low Voltage Switch
- Low Voltage Dimming Switch
- Single Pole Switch
- Contact Override Switch
- Disconnect Switch
- Electrical Panel
- Motor
- Exit Sign - Ceiling or Wall Mounted
- Ceiling Mounted Occupancy Sensor
- Photocell Control Switch
- Ceiling Mounted Occupancy Sensor
- Duplex Receptacle - 125V, 2P, 3W
- GFI Duplex Receptacle - 125V, 2P, 3W
- Utility Company Meter
- Solid Connection to Equipment
- Junction Box
- Underground Conduit or Ductbank
[Indicates Type of Service]
UE - Underground Electric
- Emergency Battery Pack
- Dual Remote Lighting Heads
- Existing to Remain
- Weatherproof



NOTES:

- SENSORS SHALL BE AS MANUFACTURED BY LEVITON OR EQUAL.
- REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR WIRING AND ADJUSTMENT OF SENSORS.
- SENSORS SHALL BE ADJUSTED TO SATISFACTION OF OWNER AND ARCHITECT.
- OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY, MODELS AS INDICATED ABOVE.
- PROVIDE AND FIELD VERIFY EXACT LOCATIONS OF ROOM CONTROLLERS.
- PROVIDE ALL POWER PACKS, MODULES, SWITCHES, CONTROLLERS, DIMMERS, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- PROVIDE VOLTAGE BARRIER IN SHARED BOXES TO SEPARATE LOW VOLTAGE FROM LINE VOLTAGE

4 TYPICAL VACANCY SENSOR WIRING DETAIL NOT TO SCALE



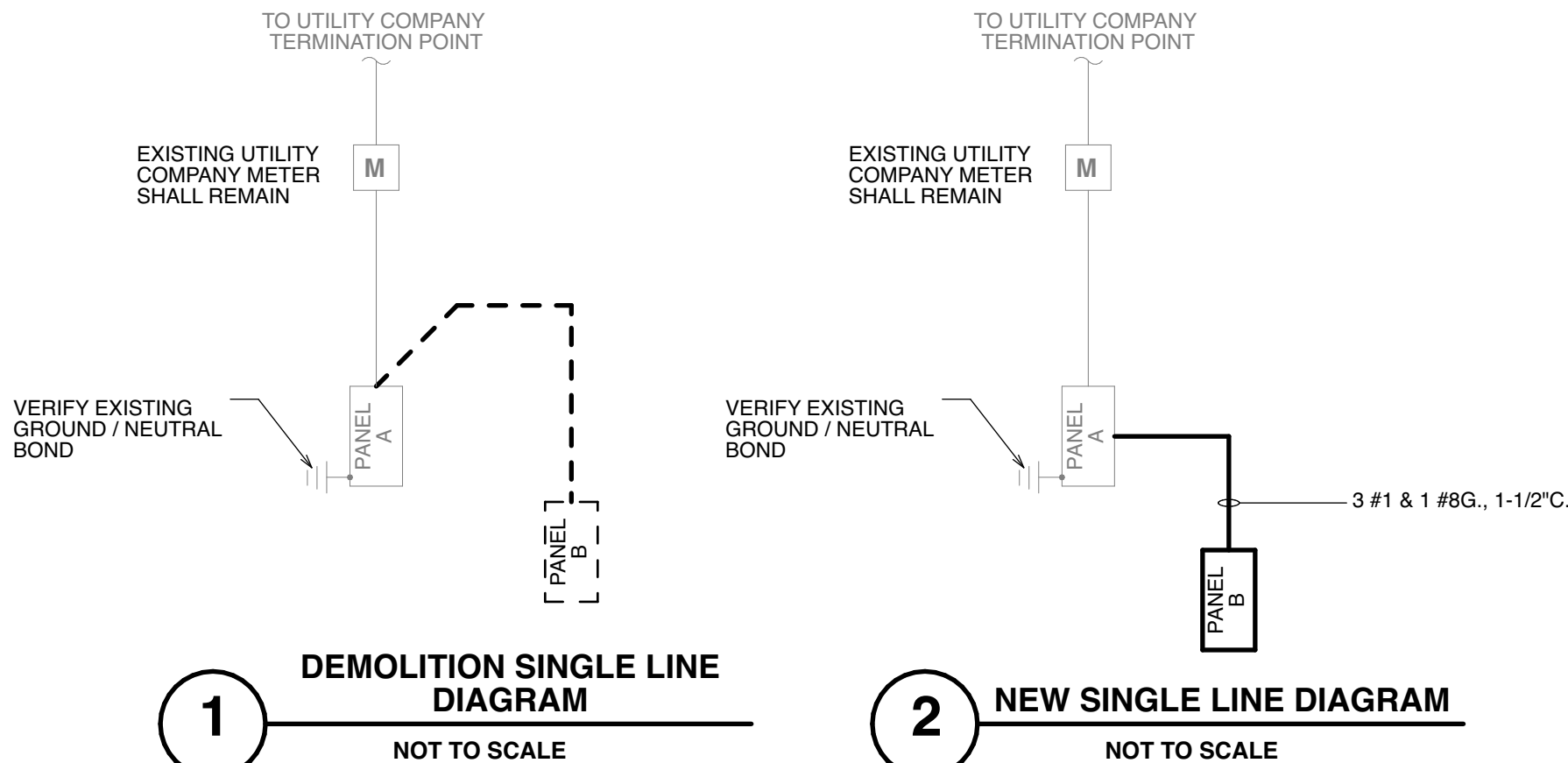
NOTES:

- BYPASS SWITCH COVER PLATE SHALL BE ENGRAVED "PHOTOCELL OVERRIDE".
- EMERGENCY LIGHTS AND EXIT SIGNS SHALL NOT BE CONTROLLED BY PHOTOCELL. CONNECT TO LINE SIDE OF PHOTOCELL.
- PHOTOCELL SHALL BE MODEL #K4121M AS MANUFACTURED BY INTERMATIC OR APPROVED EQUAL.

3 LIGHTING CONTROL DIAGRAM NOT TO SCALE

SINGLE LINE DIAGRAM NOTES

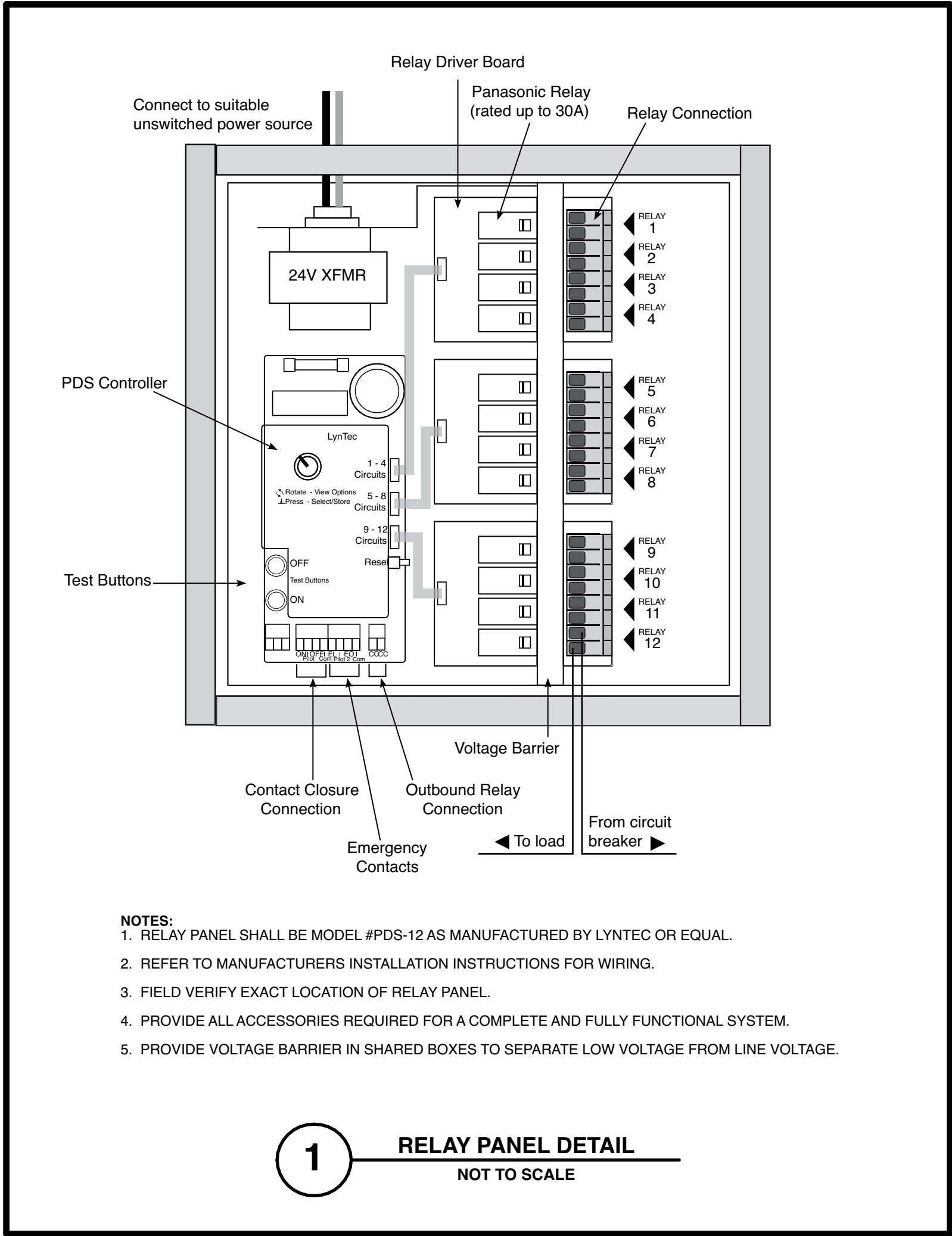
- UNLESS OTHERWISE NOTED, ALL DEVICES AND SPACES ARE 2 POLE.
- UNLESS OTHERWISE NOTED, ALL ABOVE GRADE CONDUCTORS SHALL BE COPPER, TYPE THW, RATED 75°C.
- UNLESS OTHERWISE NOTED ALL BELOW GRADE CONDUCTORS SHALL BE COPPER, TYPE XHHW-2, RATED 75°C.
- UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUITS SHALL BE EMT.
- UNLESS OTHERWISE NOTED ALL UNDERGROUND AND EXTERIOR CONDUITS SHALL BE SCHEDULE 40 PVC.
- LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT.
- HEAVY LINEWEIGHT INDICATES NEW EQUIPMENT.
- DASHED LINEWEIGHT INDICATES DEMOLISH AND REMOVE.
- ALL EQUIPMENT SHALL BE SERIES RATED TO WITHSTAND THE AVAILABLE SHORT CIRCUIT CURRENT.
- CONTRACTOR SHALL PROVIDE PERMANENT LABELS ON ALL ELECTRICAL AND HVAC EQUIPMENT INDICATING THE MAXIMUM AVAILABLE FAULT CURRENT.



1	09-15-2026	ISSUE FOR BIDS		
No.	DATE	DESCRIPTION	REVISIONS	REV'D BY
APPROVAL:		PROJECT:		
		JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER UPGRADES & ADA COMPLIANCE 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: ELECTRICAL SCHEDULES & DETAILS		
HOLSTEIN WHITE ARCHITECTS 1000 Horizon Blvd., Suite 202 Cherry Hill, NJ 08034 P: (856) 322-7711 F: (856) 322-7799 www.holsteinwhite.com		SCALE: AS NOTED PROJ. NO.: 1558A DATE: 09-15-26 REV'D: RG DRAWN BY: EP CHKD BY: JH	E-2.0	

LIGHTING CONTROL MATRIX													
COMMON SPACE TYPES		CONTROL FUNCTIONS AND REQUIREMENTS											
		CONTROL TYPE	SENSOR(S)	LOCAL CONTROL	RESTRICTED TO MANUAL ON	RESTRICTED TO PARTIAL AUTOMATIC ON	BILEVEL LIGHTING CONTROL	AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR SIDELIGHTING	AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR TOPLIGHTING	AUTOMATIC PARTIAL OFF	AUTOMATIC FULL OFF	SCHEDULE SHUTOFF	NOTES
	DESCRIPTION												
	STORAGE ROOM (>50 SQFT AND <1000 SQFT)	ON/OFF	VACANCY	X	X			N/A	N/A		X		1, 2, 3, 4, 5
NOTES:													
1.) SENSOR FAILURE SHALL RESULT IN 100% ILLUMINATION.													
2.) AUTO/SCHEDULED OFF.													
3.) ALL LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH ASHRAE 90.1 2019, AND LOCAL ORDINANCES													
4.) PROVIDE ALL POWER PACKS, MODULES, SWITCHES, CONTROLLERS, DIMMERS, RELAYS, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.													
5.) INCLUDE PROGRAMMING AND START-UP FOR A COMPLETE AND OPERATIONAL SYSTEM TO THE SATISFACTION OF THE OWNER.													

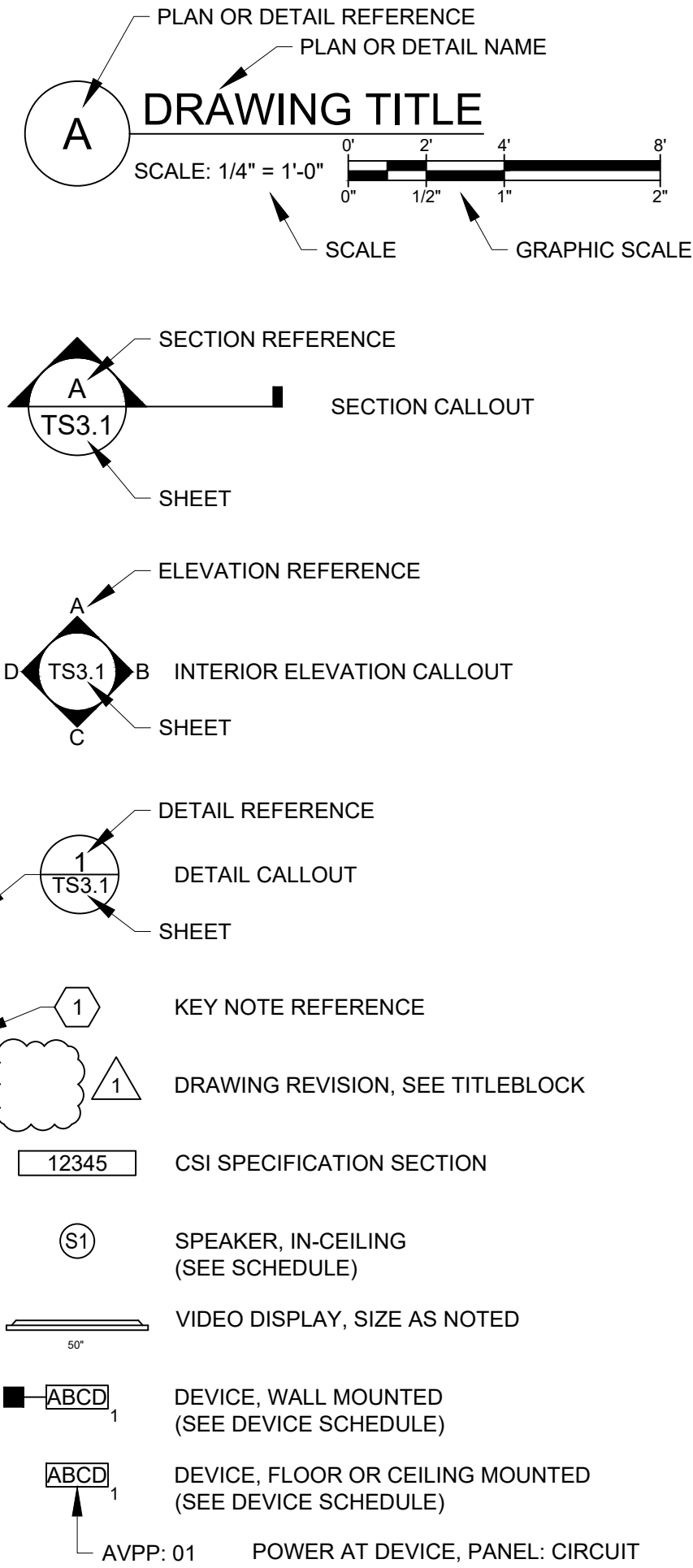
LIGHTING FIXTURE SCHEDULE						Lamps		Volts	Mounting	Remarks
Type	Manufacturer	Catalog No.	No.	Watts	Type					
B1	Day-Brite	FSX440L835-UNV-DIM		50	LED 3500K			120	Surface	4' wet location listed LED strip fixture located in stroage areas. Coordinate exact locations, quantities, and finish with architect and owner prior to rough-in.
B2	Day-Brite	FSS440L835-UNV-DIM		30	LED 3500K			120	Surface	4' LED industrial strip fixture with 0-10V dimming. Located on in back of house areas.
E1	Evenlite	TEBL5W	2	3	LED			120 VAC / 9.6 VDC	Surface	Indoor battery pack w/ dual 9.6V/3W LED lighting heads, lithium iron phosphate battery, white housing. Provide remote capability to interconnection to fixture type E2.
E2	Evenlite	PRWLED2-MV	2	1	LED			9.6 VDC	Exterior	Outdoor dual remote heads 9.6V/2W LED lighting head.
E3	Evenlite	WWEMXX-CT		2	LED			120 VAC / 9.6 VDC	Surface	Exterior battery pack LED lighting heads, lithium iron phosphate battery. Photocell option shall be bypassed for normally off stand-by emergency lighting.
N1	Stonco	LPW32-70-NW-G3-3-120-PCB		70	LED 4000K			120	Surface	Weatherproof LED wall mounted light mounted above egress doors. Coordinate exact fixture and finish with owner and architect prior to purchase. Provide fixture with intgral photo cell.
X1	Chloride	44RLU			LED			120	As Indicated	Thermoplastic LED exit sign, number of faces and directional chevrons as indicated on plans or required by mounting location, universal mounting hardware.
Specified by Civil Engineer. Refer to Civil Engineers site lighting plan.										
A	Holophane	PSDLED-P1-40K-MVOLT-66-KM-20KV-BKSDP-0623-PR7-WL-PCLL	2	37	LED 4000K			120	Pole	Refer to Civil Engineers plans for specifications of site lighting fixture.
B	Holophane	HLBOLED-CA-P10-40K-MVOLT-GL5-ACS-BK-ABG		12	LED 4000K			120	Bollard	Refer to Civil Engineers plans for specifications of site lighting fixture.
C	Holophane	HLBOLED-CA-P10-40K-MVOLT-GL3-ACS-BK-ABG		12	LED 4000K			120	Bollard	Refer to Civil Engineers plans for specifications of site lighting fixture.
Notes:										
1. In addition to those indicated above, refer to Architectural drawings and provide all fixtures specified.										
2. All fixtures shall be provided with lamping.										
3. Confirm final fixture options and color selection with Architect prior to purchase.										
4. Refer to specifications for detailed requirements for construction, handling, ballasts, lamps, etc.										
5. Coordinate fixture location and mounting requirements with Architectural drawings and details.										
6. Refer to Architectural reflected ceiling plans for ceiling types and conditions affecting mounting and installation of lighting fixtures.										
7. Coordinate exact fixture color temperature with owner and architect prior to purchase.										



EXISTING PANEL A			150 A MCB		30 POLE		240/120V - 1Ø - 3W				
Cir. No.	Cir. Bkr.	Wire Size	Description	Load - KVA		Load - KVA		Description	Wire Size	Cir. Bkr.	Cir. No.
				A	B	A	B				
1	20/1	#12	Stage Receptacles 'A'	0.4		0.5		Lawn Lights	-	20/1	2
3	20/1	#12	Stage Receptacles 'B'		0.4	0.5		Lawn Lights	-	20/1	4
5	20/1	#12	Stage Receptacles 'C'	0.4	0.4	0.2		Photo Cell	#12	20/1	6
7	20/1	#12	Stage Receptacles 'D'		0.4		1.0	Site Lighting	#12	20/1	8
9	20/1	#12	Stage Receptacles 'E'	0.4		0.4	0.5	Pole Receptacles (Hard Lighting)	#12	20/1	10
11	20/1	#12	Stage Receptacles 'F'		0.4			New Bollard Lighting	#10	20/1	12
13	20/1	#12	Stage Receptacles 'G'	0.4		0.2		New Exterior Receptacles (11P1)	#12	20/1	14
15	20/1	#12	Stage Receptacles 'H'		0.4		0.1	Exterior Lighting	#12	20/1	16
17	00/2	-	Temp Power	-	-	1.0		Existing Load	-	20/2	18
19	-	-		-	-		1.0		-	-	20
21	30/2	-	Wall Heater	0.8	-	0.8		Wall Heater	-	30/2	22
23	-	-		-	0.8		0.8		-	-	24
25	-	-	Space	-	-			Space	-	-	26
27	100/2	#1	Panel 'B'	4.2	4.9			Space	-	-	28
-	-	-						Space	-	-	30
Total				6.5	7.1	3.0	3.9				Total
Phase (KVA)			Load Summary by Type		Load - KVA		Options and Accessories - (X) Indicates Selection				
A	9.5		Connected Receptacles		KVA			☐ Feed Through Lugs		☐ Recessed	
B	11.0		Connected Lighting		KVA			☐ Subfeed Main Lugs		☒ Surface	
			Connected Motor		KVA			☐ Split Bus		☒ Double Panel	
Total	20.5		Connected Heating		KVA			☐ Contactor Controlled		☐ Ground Bus	
			Connected Air Conditioning		KVA			☐ Top		☐ Insulated	
			Connected Kitchen		KVA			☐ Bottom		☐ Ground Bus	
			Connected Miscellaneous		KVA						
			Total		20.5 KVA						
			Gray Italic = Existing		Black Bold = New						

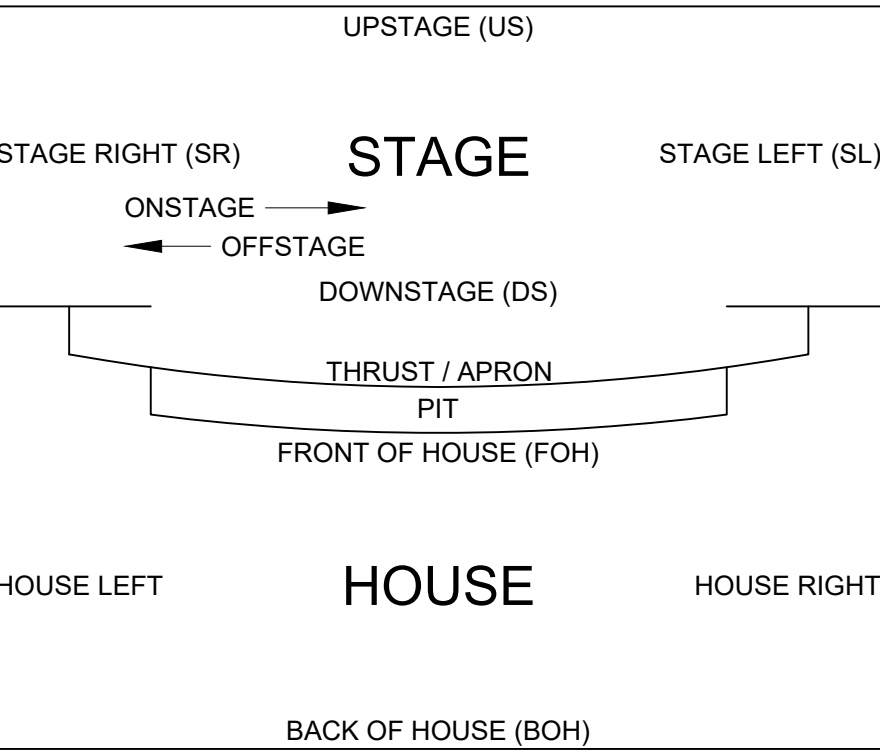
ABBREVIATIONS	
(EX)	EXISTING
(F)	FUTURE
(N)	NEW
[G#]	SEPARATION GROUP DESIGNATION
A	AMPERE, ARCHITECTURAL
AC	ALTERNATING CURRENT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AV	AUDIO VISUAL
AVC	AUDIO VISUAL CONTRACTOR
B	BOTTOM
B/T	BETWEEN
C	CONDUIT
CANT	CANTILEVER
CB	CIRCUIT BREAKER
CFMF	COLD FORMED METAL FRAMING
CKT	CIRCUIT
CL, C/L	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CTR	CENTER
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
DS	DISCONNECT SWITCH
DWG	DRAWING
E	ELECTRICAL
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMBED	EMBEDMENT
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
ETR	EXISTING TO REMAIN
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
G	GROUND
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
ID	INTERIOR DIAMETER
IFR	INHERENTLY FLAME RETARDANT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH
JB	JUNCTION BOX
L	ANGLE
LBS	POUNDS
LTG	LIGHTING
L/V	LOW-VOLTAGE (I.E. TELEDATA)
MAX	MAXIMUM
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NC	NOISE CRITERION
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCl	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
PH	PHASE
PL	PLATE
QTY	QUANTITY
REF	REFERENCE
REV	REVISION
RMC	RIGID METAL CONDUIT
S	STRUCTURAL
SIM	SIMILAR
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION(S)
STC	SOUND TRANSMISSION CLASS
T	TOP
TBD	TO BE DETERMINED
THRU	THROUGH
TS	THEATRICAL SYSTEM(S)
TSC	THEATRICAL SYSTEM(S) CONTRACTOR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	STEEL MEMBER (I.E. W24X32), WATTS
W/	WITH
XFMR	TRANSFORMER

SYMBOL LEGEND



DEVICE SYMBOLS ARE USED TO SPECIFY GENERIC LOCATIONS (I.E. WALL, FLOOR, CEILING), EXCEPT WHERE DIMENSIONS ARE PROVIDED. THE DEVICE MAY BE AN INTERFACE PLATE, JUNCTION BOX, RACK, PANEL, OR EQUIPMENT. SEE DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.

THEATRE TERMINOLOGY



UNISTRUT

- ALL STRUT CHANNEL AND FITTINGS ARE SPECIFIED WITH UNISTRUT BRAND MODELS AND PART NUMBERS.
- OTHER MANUFACTURERS MAY BE PERMITTED, ONLY AFTER APPROVAL, PROVIDED THAT THE GAUGE, MATERIAL, FINISH, LOADING CAPACITY, WORKING LOAD LIMITS, LENGTHS, AND TRACEABILITY ARE EQUAL TO UNISTRUT.
- ALL STRUT CHANNEL SHALL BE 1-5/8" WIDE, 12 GAUGE, AND PREGALVANIZED, UNO.
- ALL STRUT FITTINGS SHALL BE ZINC PLATED, UNO.
- ALL CALCULATIONS MUST FACTOR THE FOLLOWING:
 - APPLICABLE PIERCED HOLE FACTOR
 - UNBRACED LENGTH FACTOR
 - CHANNEL SELF WEIGHT
 - MIDSPAN LOADING REDUCTION
- LOADS ATTACHED TO CANTILEVERED CHANNELS ARE PROHIBITED!

RECEPTACLES

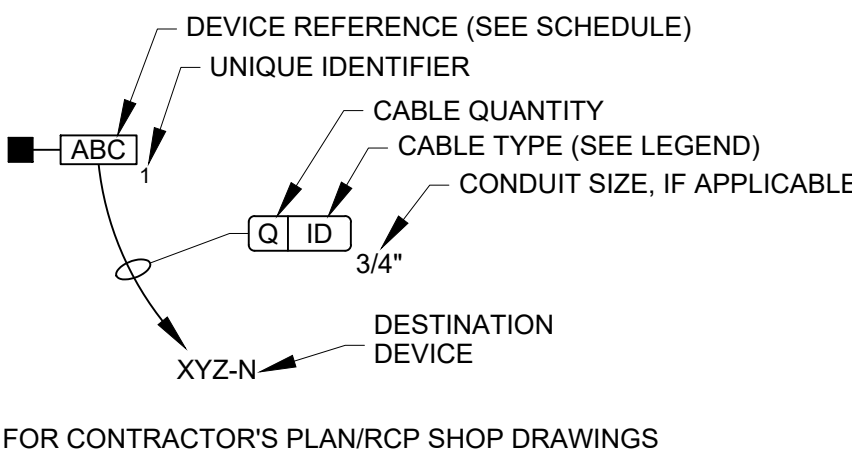
- NEMA 5-20R DUPLEX RECEPTACLE SPECIFICATION GRADE
 - NEMA 5-20R DOUBLE DUPLEX RECEPTACLE SPECIFICATION GRADE
 - NEMA 5-20R SIMPLEX RECEPTACLE SPECIFICATION GRADE
 - SPECIALTY RECEPTACLE SPECIFICATION GRADE
- QUANTITY INDICATED IF MORE THAN 1, TYP.
- NETWORK RECEPTACLE RJ-45, CAT6 TYP.

- SECONDARY IDENTIFIER (E.G. TYPE, IG, GFCI)
- PANEL: CIRCUIT

MOUNTING HEIGHTS

1. UNLESS NOTED OTHERWISE, TYPICAL MOUNTING HEIGHTS ARE AS FOLLOWS:
- | DEVICE: | HEIGHT: | REFERENCE: |
|---------------------|---------|------------|
| POWER RECEPTACLE | 18" AFF | CENTER |
| DATA RECEPTACLE | 18" AFF | CENTER |
| LIGHT SWITCH/KEYPAD | 48" AFF | TOP |
| TOUCH PANEL | 48" AFF | TOP |
| INTERCOM STATION | 48" AFF | TOP |
| PANELBOARD | 78" AFF | TOP |

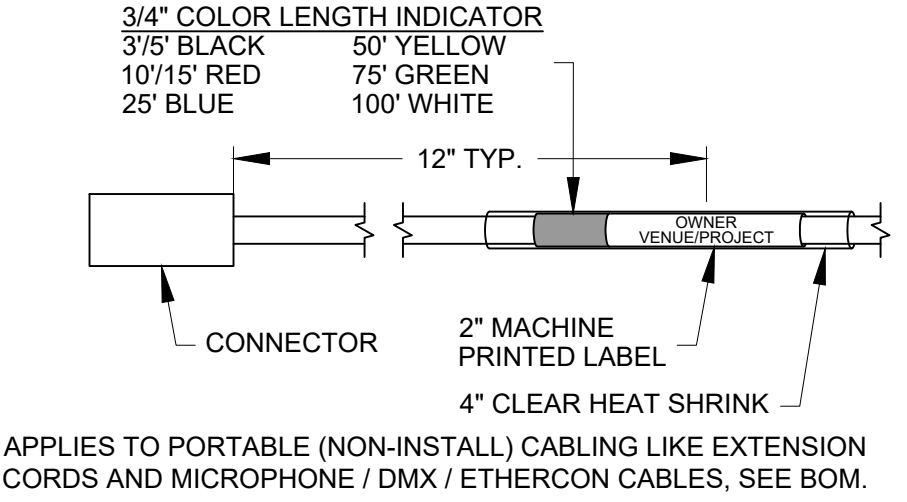
CABLE PULL SYMBOLOGY



BACK BOXES

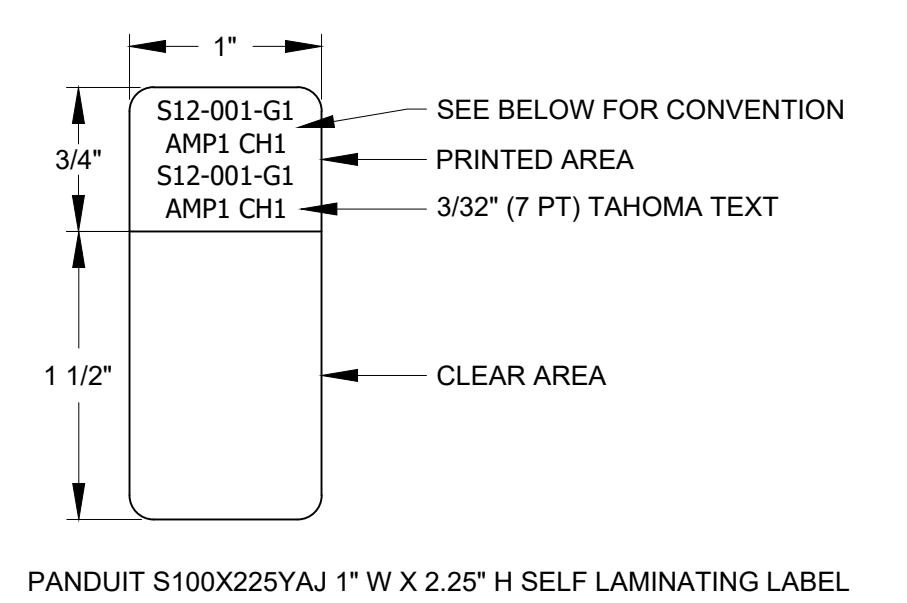
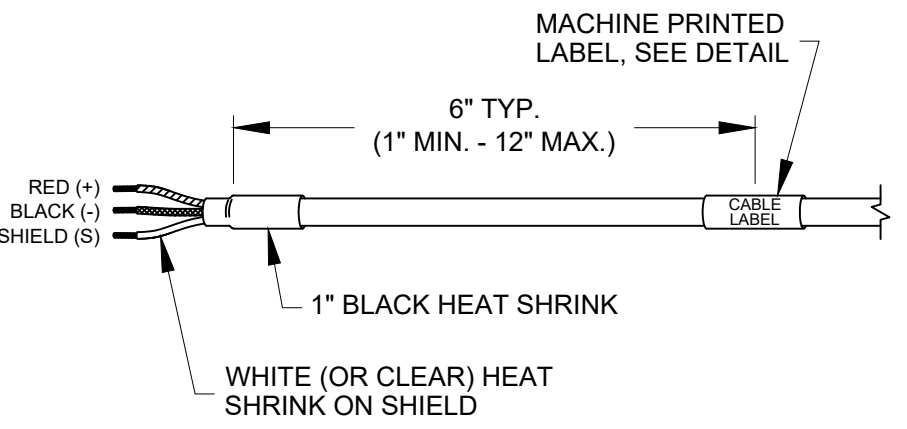
- 4-11/16" BOXES, 3-1/4" DEEP, KNOCKOUTS
 - RACO 260 (66.7 CU. IN.)
 - RACO 263 (113.3 CU. IN.)
 - LOW VOLTAGE PARTITION, RACO 981
 - 4-11/16" MUD RINGS & COVER PLATES (AS NEEDED)
- MASONRY BOXES, 3-1/2" DEEP, KNOCKOUTS
 - GANGABLE
 - 1-GANG, RACO 689
 - LOW VOLTAGE PARTITION, RACO 676
 - BOX SUPPORT BRACKET, RACO 990
 - NONGANGABLE
 - 1-GANG, RACO 695
 - 2-GANG, RACO 696
 - 3-GANG, RACO 697
 - 4-GANG, RACO 698
 - 5-GANG, RACO 699
 - 6-GANG, RACO 965
 - LOW VOLTAGE PARTITION, RACO 971
 - BOX SUPPORT BRACKET, RACO 990
- LARGE SCREW COVER BOXES, PAINTED, NO KNOCKOUTS
 - 6"x6"x4", HOFFMAN ASE6X6X4NK
 - 12"x12"x4", HOFFMAN ASE12X12X4NK
 - 12"x6"x4", HOFFMAN ASE12X6X4NK
 - 4"x4"x24", HOFFMAN A4424T1T
- SPECIALTY MASONRY CMU BOX
 - 16"x8"x5", FSR PWB-CMU8-B (W/ CONSTRUCTION COVER)
 - 16"x8"x5", FSR PWB-CMU8-ZPLT-B (BACK BOX ONLY)
- DISPLAY BACK BOX
 - 30"x18"x18", CHIEF FPIWMS (MAY REQUIRE ADD'L 1-GANG BACK BOXES, SEE DWGS AND/OR SCHEDULES)
 - 14-1/4"x17"x4", FSR PWB-FR-450-*** (PRE-INSTALL ONLY)
 - 14-1/4"x9"x3-7/8", CHIEF PAC525FC (MAY REQUIRE ADD'L 1-GANG BACK BOXES, SEE DWGS AND/OR SCHEDULES)

PORTABLE CABLE LABELING



APPLIES TO PORTABLE (NON-INSTALL) CABLING LIKE EXTENSION CORDS AND MICROPHONE / DMX / ETHERCON CABLES, SEE BOM.

CABLE PREP. & LABELING



PANDUIT S100X225YAJ 1" W X 2.25" H SELF LAMINATING LABEL

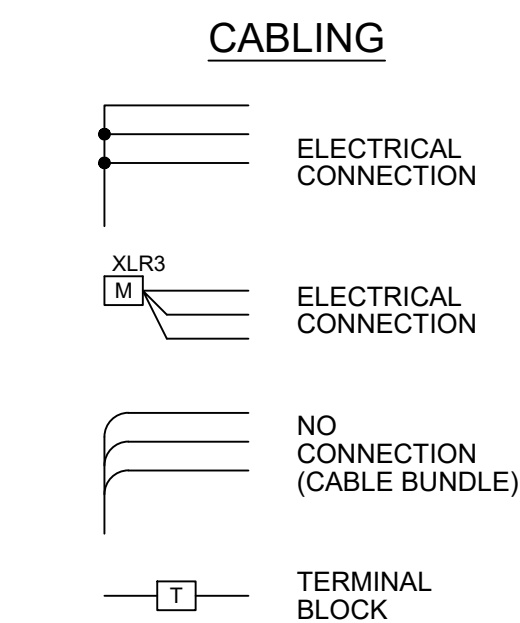
[CABLE ID][UNIQUE NUMBER][GROUP]
[DEVICE ID][CONNECTOR REF.]
[CABLE ID][UNIQUE NUMBER][GROUP]
[DEVICE ID][CONNECTOR REF.]

**SEE CABLE LEGEND FOR IDENTIFICATION (LETTER & NUMBER)*
***PREMADE CABLES TO HAVE LETTER PREFIXES ONLY.*
(E.G. HDMI = V-, CAT6 PATCH CABLE = N-)
****ALL CABLES TO HAVE PRINTED LABELS*

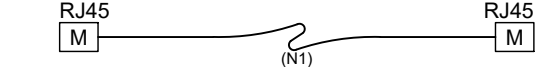
STANDARDS

- AVIXA F501.01:2015 CABLE LABELING FOR AUDIOVISUAL SYSTEMS
- AVIXA F502.01:2018 RACK BUILDING FOR AUDIOVISUAL SYSTEMS
- ANSI F502.02:201X RACK DESIGN FOR AV SYSTEMS
- ANSI 10:2013 AUDIOVISUAL SYSTEMS PERFORMANCE VERIFICATION
- ANSI A102.01:2017 AUDIO COVERAGE UNIFORMITY
- ANSI E1.4-2 - 2021 ENTERTAINMENT TECHNOLOGY - STATICALLY SUSPENDED RIGGING SYSTEMS
- ANSI E1.11 - 2008 (R2018) ENTERTAINMENT TECHNOLOGY - USITT DMX512-A, ASYNCHRONOUS SERIAL DIGITAL DATA TRANSMISSION STANDARD FOR CONTROLLING LIGHTING EQUIPMENT AND ACCESSORIES
- ANSI E1.20 - 2010 ENTERTAINMENT TECHNOLOGY - RDM REMOTE DEVICE MANAGEMENT OVER USITT DMX512 NETWORKS
- ANSI E1.27-1 - 2006 (R2021) ENTERTAINMENT TECHNOLOGY - STANDARD FOR PORTABLE CONTROL CABLES FOR USE WITH ANSI E1.11 (DMX512-A) AND USITT DMX512/1990 PRODUCTS
- ANSI E1.31 - 2018 ENTERTAINMENT TECHNOLOGY - LIGHTWEIGHT STREAMING PROTOCOL FOR TRANSPORT OF DMX512 USING ACN
- ANSI E1.47 - 2020 ENTERTAINMENT TECHNOLOGY - RECOMMENDED GUIDELINES FOR ENTERTAINMENT RIGGING SYSTEM INSPECTIONS
- ANSI E1.53 - 2019 OVERHEAD MOUNTING OF LUMINARIES, LIGHTING ACCESSORIES, AND OTHER PORTABLE DEVICES: SPECIFICATION AND PRACTICE

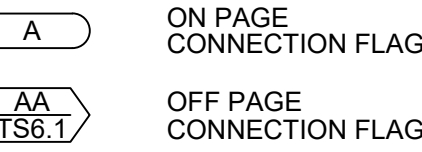
FUNCTIONAL SYMBOLOGY



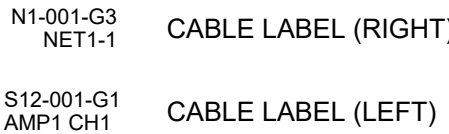
PORTABLE CABLING



CONNECTIONS



CABLE LABELING

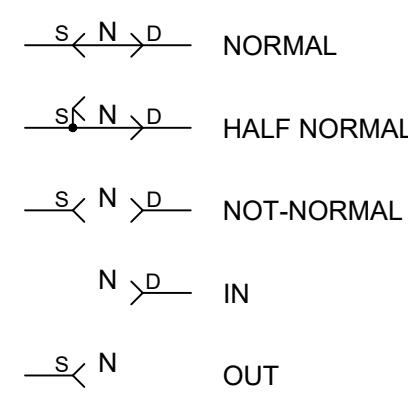


[TYPE]-[NUMBER]-[GROUP]
[DEVICE ID][CONNECTOR REF.]

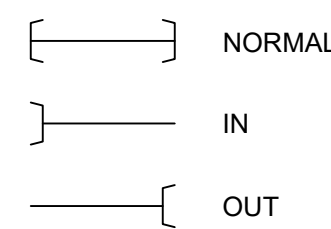
**SEE CABLE LEGEND FOR INSTALL CABLE TYPES (LETTER & NUMBER)*
***PREMADE CABLES TO HAVE LETTER PREFIXES ONLY. (E.G. HDMI = V-, CAT6 PATCH CABLE = N-)*

FOR CONTRACTOR'S SHOP DRAWINGS

AUDIO PATCH POINTS



VIDEO PATCH POINTS



DEVICE SYMBOL KEY

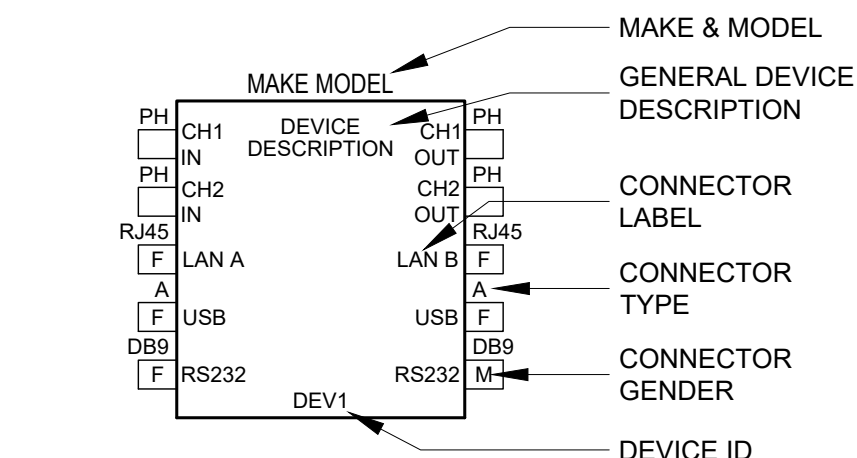
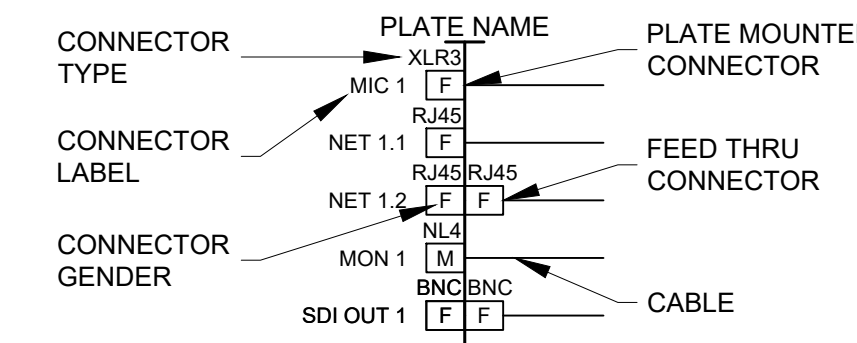


PLATE SYMBOL KEY



CONNECTOR TYPE KEY

SEE PLATE DRAWING(S) FOR MAKE/MODEL OF PLATE CONNECTORS.

- 1/4" = 1/4" PHONE JACK (FEMALE) (E.G. TR,TRS,TRSS)
1/8" = 1/8" / 3.5MM PHONE JACK (FEMALE) (E.G. TR,TRS,TRSS)
BNC = BAYONET NEILL-CONCELMAN, 50/750
DB9 = 9-PIN D-SUB SERIAL, MALE/FEMALE (I.E. DE-9)
DVI = DIGITAL VISUAL INTERFACE, MALE/FEMALE (E.G. A,D,I)
DP = DISPLAYPORT, FEMALE
HDMI = HIGH-DEF. MULTIMEDIA INTERFACE, FEMALE (E.G. A,B,C,D)
NL* = SPEAKON, FEMALE, * = 2,4,8
PH* = PHOENIX (SCREW TERMINAL (ST), TERMINAL BLOCK (TB))
RCA (LEFT = WHITE, RIGHT = RED, VIDEO = YELLOW)
RJ45 = 8 POSITION 8 CONTACT (8P8C), MODULAR, FEMALE
SFP = SMALL FORM-FACTOR PLUGGABLE, 1GB
SFP+ = 10GB, SFP28 = 25GB, QSFP28 = 100GB
USB = UNIVERSAL SERIAL BUS, FEMALE (E.G. A,B,C)
VGA = VIDEO GRAPHICS ARRAY, MALE/FEMALE
XLR* = XLR, MALE/FEMALE

* INDICATES QTY OF CONTACTS

RESPONSIBILITY MATRIX SECTION 26 55 61										OWNER	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	THEATRICAL CONTRACTOR	
F = FURNISH, I = INSTALL										F	I	F	I	NOTES
ELECTRICAL:														
LIGHT BAR ON FRONT POLES												X	X	
LOW-VOLTAGE PATHWAYS (INCLUDING PULL STRINGS & BUSHINGS)												X	X	
BACK BOXES, JUNCTION BOXES, PULL BOXES, BLANK PLATES												X	X	
CUSTOM INPUT/OUTPUT LOW-VOLTAGE PANELS (E.G. DMX-1, 2, 3, WDMX, TIP-1, SPKR-1,2													X	X
LOW-VOLTAGE CABLE, U.N.O.													X	X
TC TO TERMINATE L/V CABLE													X	X
THEATRICAL EQUIPMENT:														
PORTABLE THEATRICAL LIGHTING FIXTURES													X	X
LOUDSPEAKERS													X	X
RIGGING SYSTEM													X	X
EQUIPMENT RACK, AMPLIFIER, DSP, NETWORK SWITCH, WIRELESS MICROPHONES													X	X
CONTROL SYSTEM FOR THEATRICAL LIGHTING AND SOUND SYSTEM													X	X
PORTABLE EXTENSION CABLE AND ACCESSORY PACKAGE													X	X
PROGRAMMING, TUNING, FOCUSING, TRAINING													X	X
ITEMS RELATING TO, BUT NOT PART OF, SECTION 26 55 61:														
≥120V POWER WIRING, RECEPTACLES, RELAY PANEL, BRANCH CIRCUITS														

DRAWING INDEX		ISSUE FOR BIDS 07/24/2026
DWG#	TITLE	
TS0.0	COVER SHEET	
TS1.1	DEVICE PLAN	
TS1.2	DEVICE RCP	
TS3.1	ELEVATIONS	
TS6.1	SCHEDULES	
TS7.1	FUNCTIONALS	

26 55 61



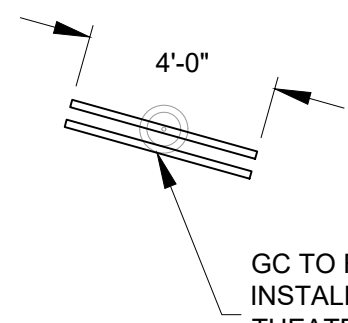
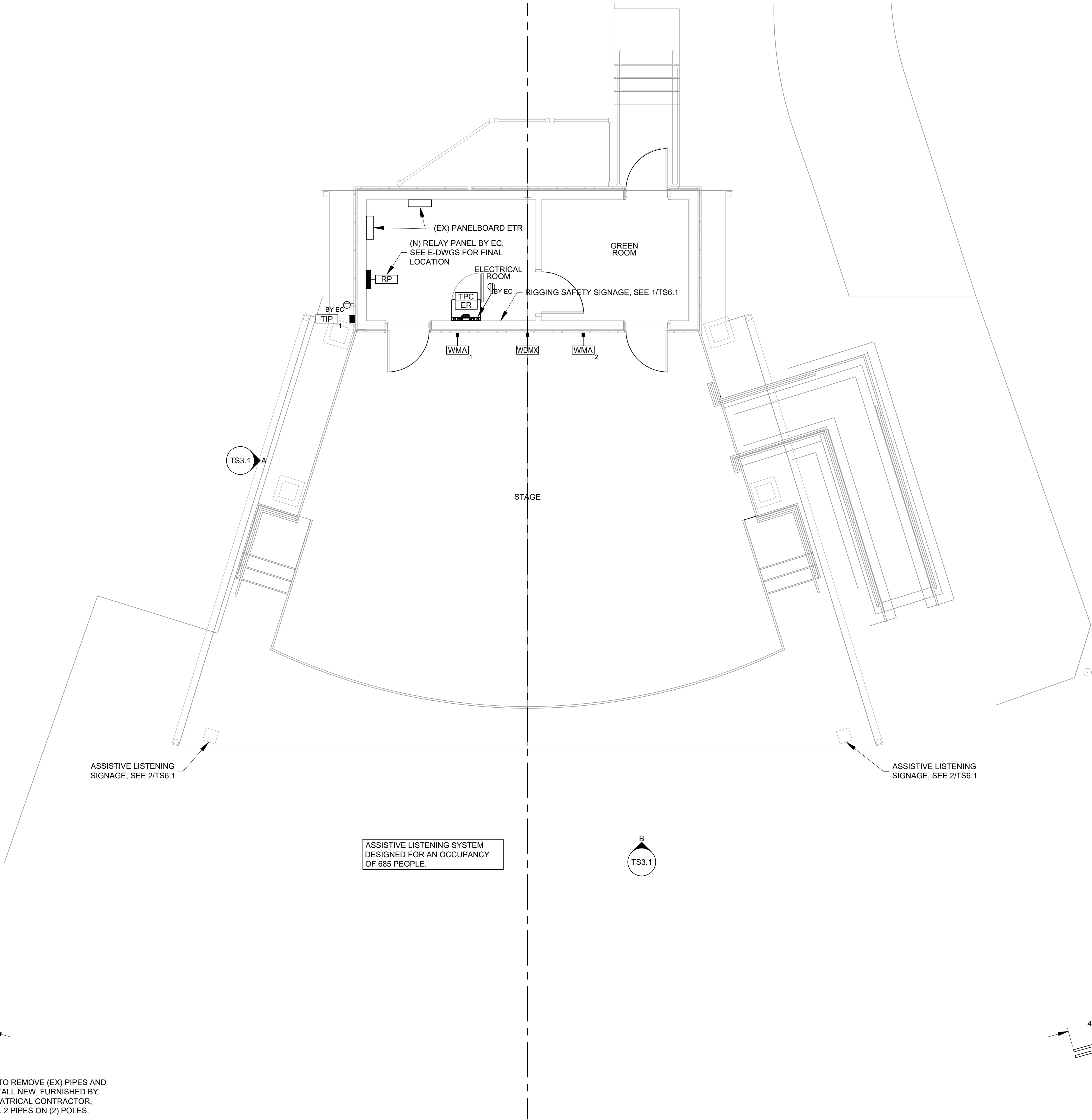
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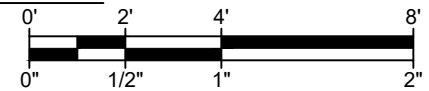
07-24-26		ISSUE FOR BIDS			
No.	DATE	DESCRIPTION		REVO BY	
		REVISIONS			
APPROVAL:		PROJECT:			
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER			
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
		Joseph F. McKernan Jr., Architects & Associates		TITLE:	
		100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		COVER SHEET	
JOSEPH F. MCKERNAN JR., R.A.		SEAL:		SCALE: AS NOTED	
NJ ARCH # 10884 - PA ARCH #A-014023-01 - CT ARCH 7024				DRAWING NO:	
		UNLESS OTHERWISE NOTED BY ARCHITECT, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES: DO NOT SCALE DRAWING		PROJNO: 1156A	
		MCKERNAN ARCHITECTS & ASSOC COPYRIGHT 2016		DATE: 07/24/26	
				REV'D:	
				DRAWN BY: MG	
				CHKD BY: BC	
				TS0.0	



GC TO REMOVE (EX) PIPES AND
INSTALL NEW, FURNISHED BY
THEATRICAL CONTRACTOR.
TYP. 2 PIPES ON (2) POLES.

A DEVICE RCP

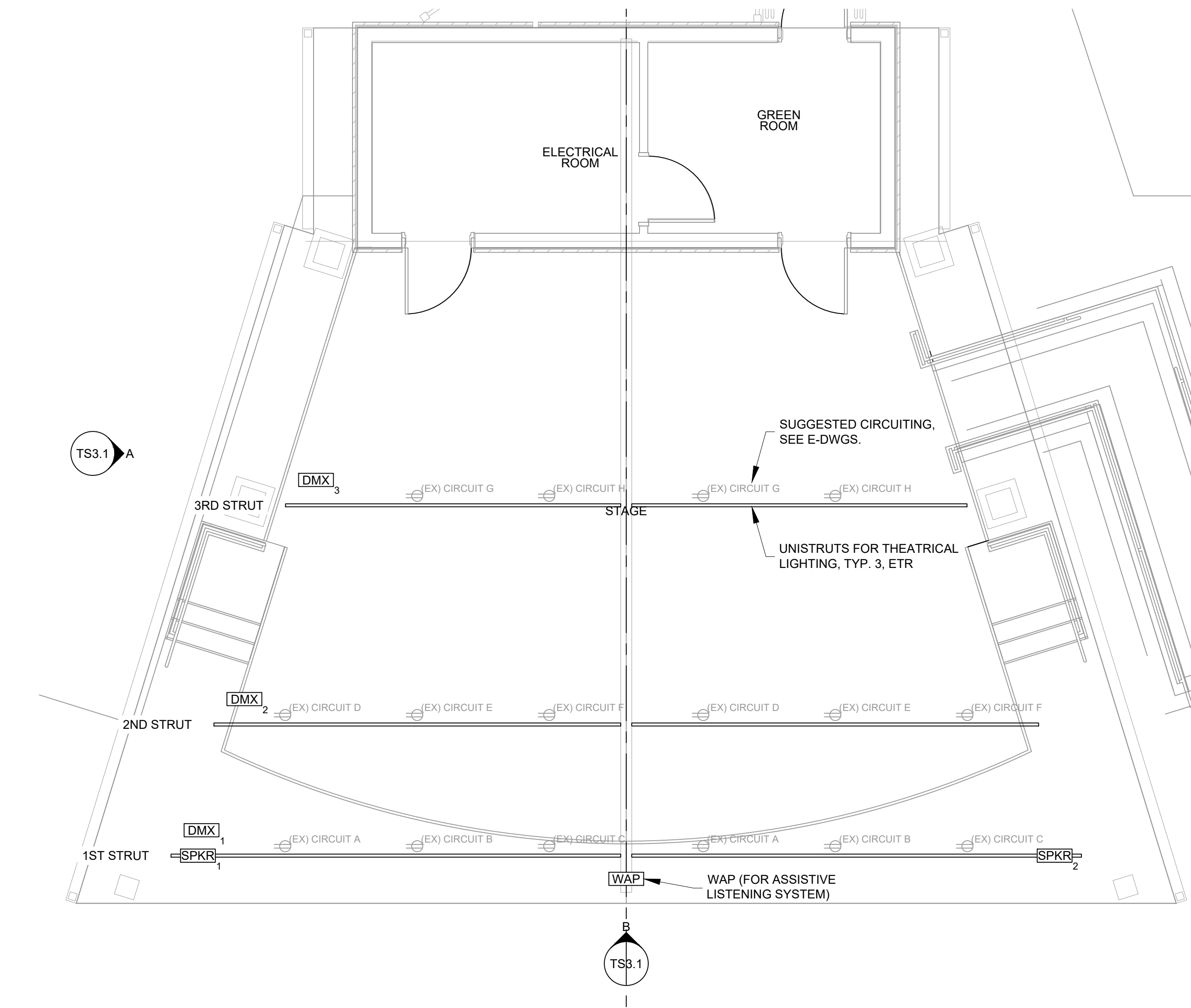
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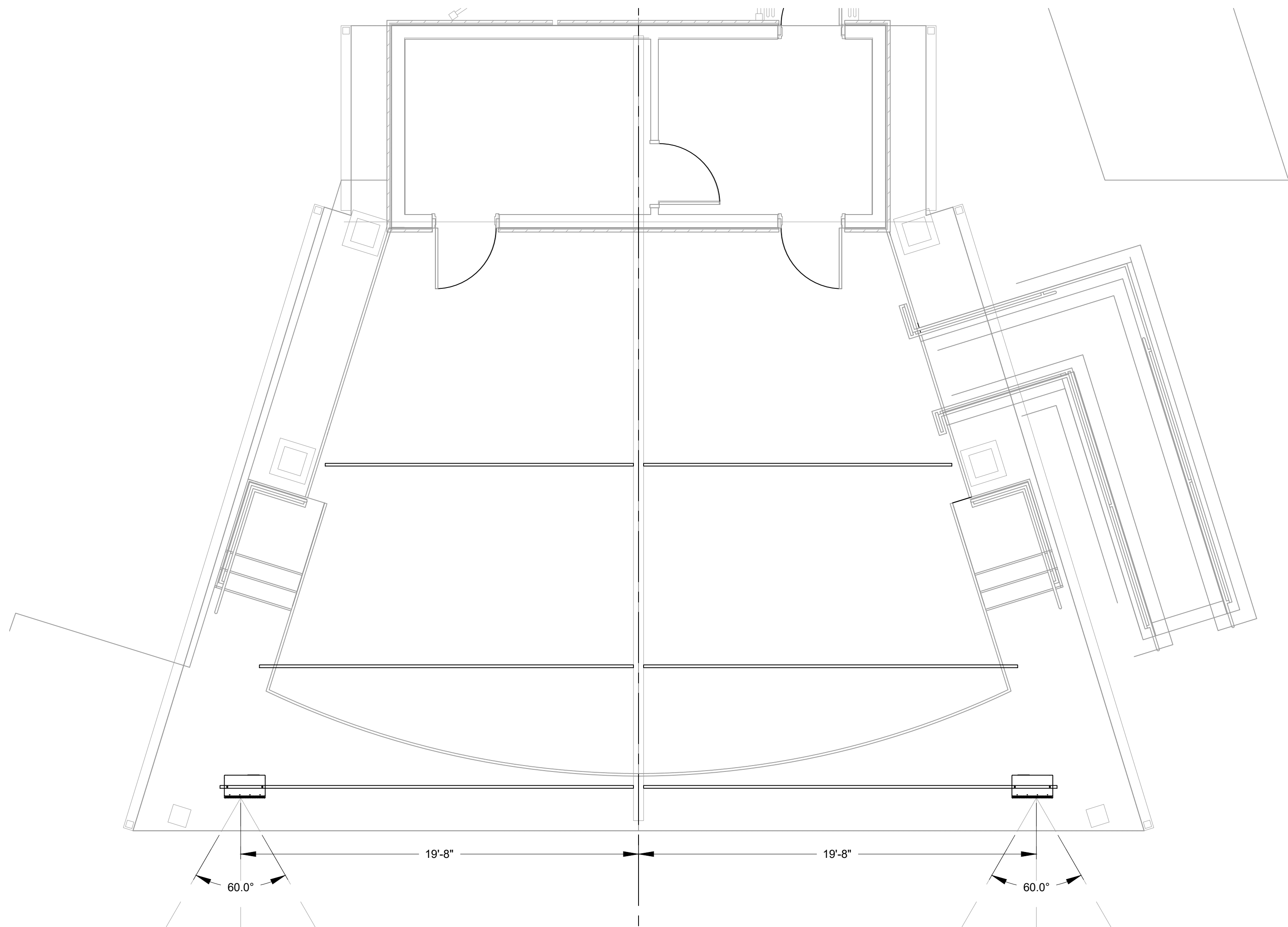
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No.	07-24-26	DATE	ISSUE FOR BIDS	REVISIONS	REV'D BY
APPROVAL:					
PROJECT:					
ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER					
138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080					
Joseph F. McKernan Jr., Architects & Associates					
100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034					
TITLE: DEVICE PLAN					
SEAL:					
JOSEPH F. MCKERNAN JR., R.A.					
NJ ARCH. # 10864 PA ARCH. # A-014423-1, CT ARCH. 7024					
DIMENSIONS MUST BE VERIFIED BY CONTRACTOR. VERIFY THE EXISTING. IF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.					
SCALE: AS NOTED					
PROJ. NO.: 1156A					
DATE: 07/24/26					
REV'D:					
DRAWN BY: MG					
CHKD. BY: BC					
DRAWING NO.: TS1.1					



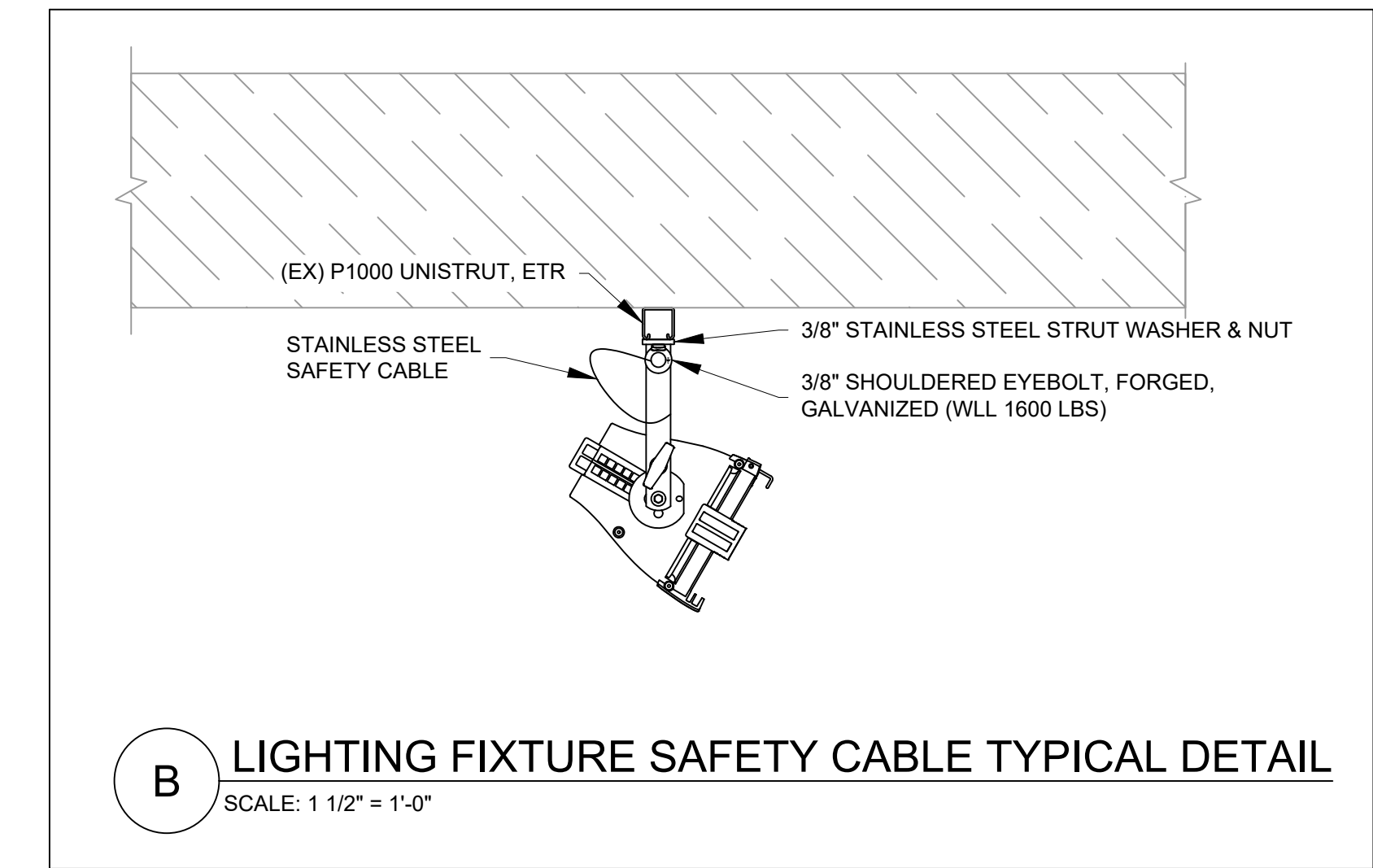
A DEVICE RCP
SCALE: 1/4" = 1'-0"

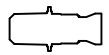
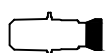


B SPEAKER RCP
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

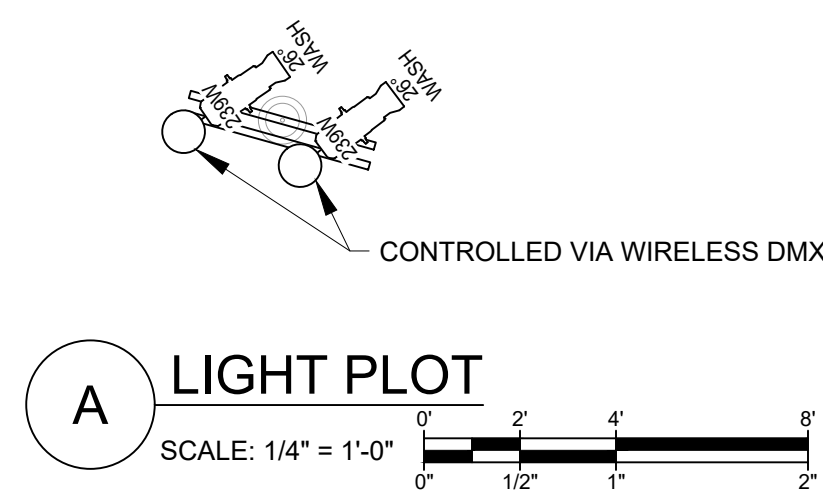
07-24-26		ISSUE FOR BIDS			
No.	DATE	DESCRIPTION		REV'D BY	
REVISIONS					
APPROVAL:		PROJECT:			
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER			
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
		Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: DEVICE RCP	
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH # 13584 PA ARCH #A-014423-1, CT ARCH 7324		SEAL:		SCALE: AS NOTED PROJNO: 1156A DATE: 07/24/26 REV'D:	
		DIMENSIONS MUST BE VERIFIED BY CONTRACTOR WITHIN 30 DAYS OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. NO DO NOT SCALE DRAWING.		DRAWING NO: TS1.2	
		DRAWN BY: MG CHKD BY: BC			
REVISIONS					



THEATRICAL FIXTURE SCHEDULE		
LEGEND	FIXTURE	NOTES
	(N) CHAUVET OVATION R3 P-3 IP	-
	(N) ETC COLORSOURCE SPOT VXT DEGREE AS NOTED	ADJUST SHUTTERS AS REQUIRED TO CONTROL LIGHT DO NOT LEAVE FULLY SHUT
	(EX) CHAUVET OVATION R3 P-3 IP	RE-INSTALL IN NEW LOCATION
	(EX) CHAUVET OVATION E-260WVW IP	RE-INSTALL IN NEW LOCATION
ADDRESS  WATTAGE UNIT LENS FOCUS	ADDRESS  WATTAGE UNIT LENS FOCUS	
INSTALLATION NOTES: 1. REMOVE ALL FIXTURES AND ACCESSORIES FROM PACKAGING 2. USE MINIMUM REQUIRED LENGTH OF POWER/DATA CABLE TO REACH DESIGNATED POWER/DATA RECEPTACLE. TIE UP ALL CABLE TO GRID WITH 1/8" TIE LINE OR HOOK & LOOP 3. ALLOW ENOUGH CABLE SLACK TO FULLY FOCUS FIXTURE IN ANY DIRECTION 4. INSTALL ALL LENSES AS PER PLOT 5. FOCUS ALL FIXTURES AS PER PLOT 6. ADDRESS EACH FIXTURE SEPARATELY AS PER PLOT 7. ASSEMBLE, SETUP, AND PATCH LIGHTING CONTROLLER 8. INSTALL SAFETY CABLES ON ALL FIXTURES PER THE MANUFACTURER'S INSTRUCTIONS		

ALT BID #1 - ADDITIONAL FIXTURES:

- PROVIDE (4) ADDITIONAL COLORSOURCE SPOTVXT, 26° LENS TUBES, POWER CABLES, STAINLESS STEEL SAFETY CABLES, SLIM CLAW W/ STAINLESS STEEL HARDWARE. INSTALL FIXTURE ON LOWER FRONT OF HOUSE PIPES.



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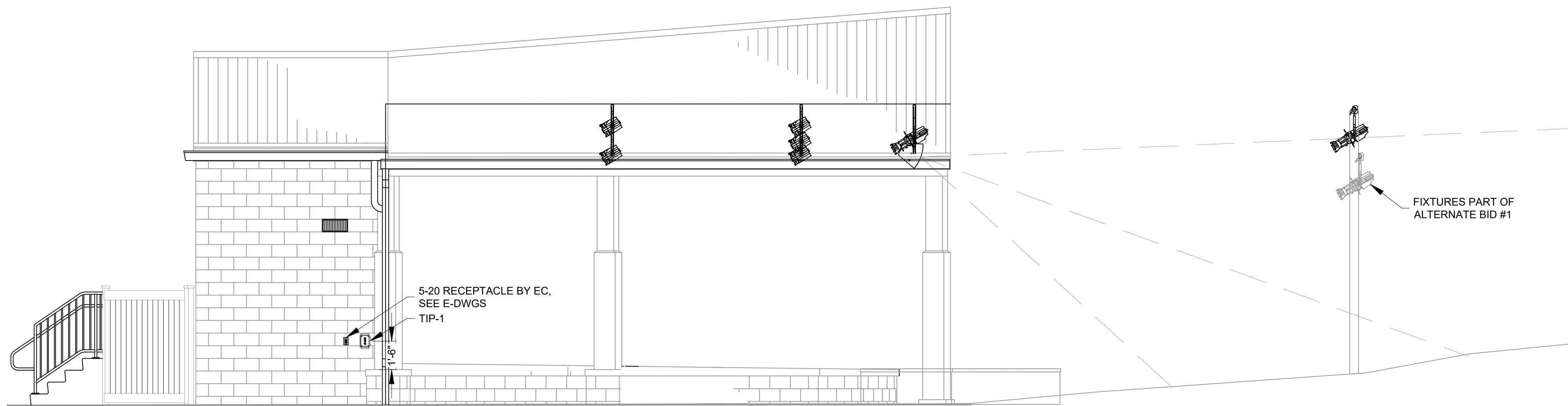
17-24--26		ISSUE FOR BIDS			
No.	DATE	DESCRIPTION		REV'D BY	
		REVISIONS			
APPROVAL:		PROJECT:			
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER 138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
 Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE LIGHTPTLOT			
JOSEPH F. MCKERNAN, JR., R.A. N.J. ARCH. & CONSR. / P.A. 6024-84-01142-0 / C1 4023 1024		SCALE:		SCALE: AS NOTED	
		AMENDING MUST BE FORNED BY CONTRACTOR. NOTIFY THE ARCHITECT BY MAIL 48 HOURS BEFORE PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWING.		DRAWING NO:	
		DATE: 07/24/76		PROJ.NO.: 1156A	
		CHKD BY: MG		REV'D:	
		CHKD BY: BC		TS1.3	
		MCKERNAN ARCHITECTS & ASSOC. CONSR.			



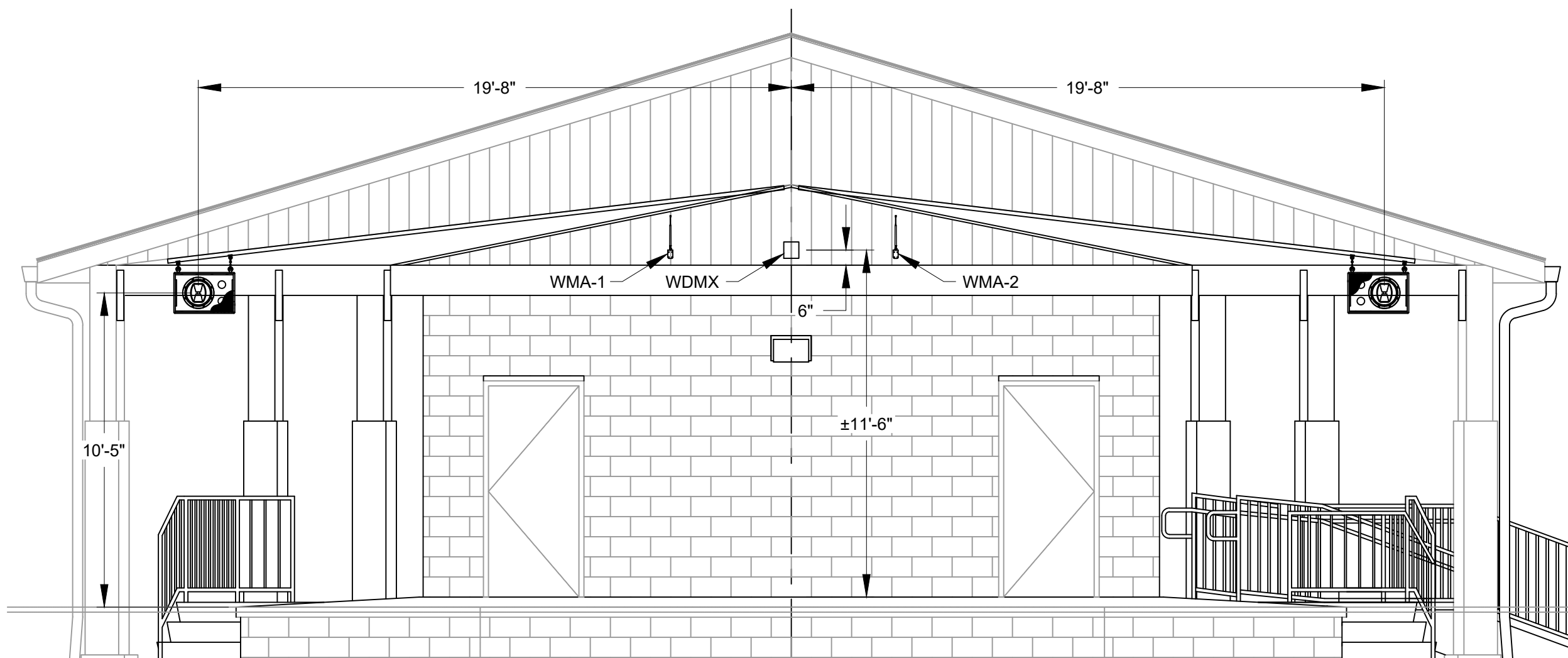
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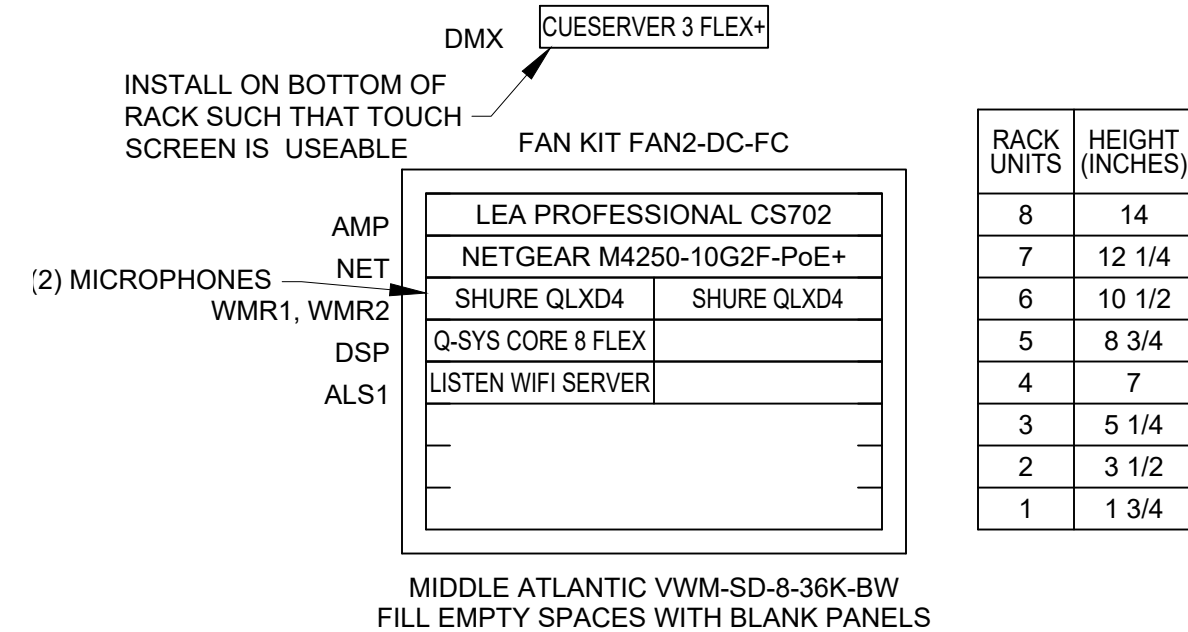
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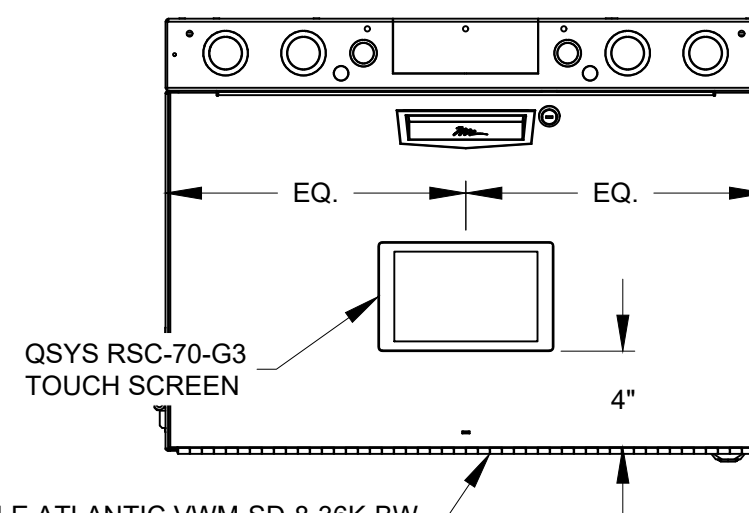
A CENTERLINE SECTION
SCALE: 1/4" = 1'-0"



B FRONT ELEVATION
SCALE: 1/4" = 1'-0"

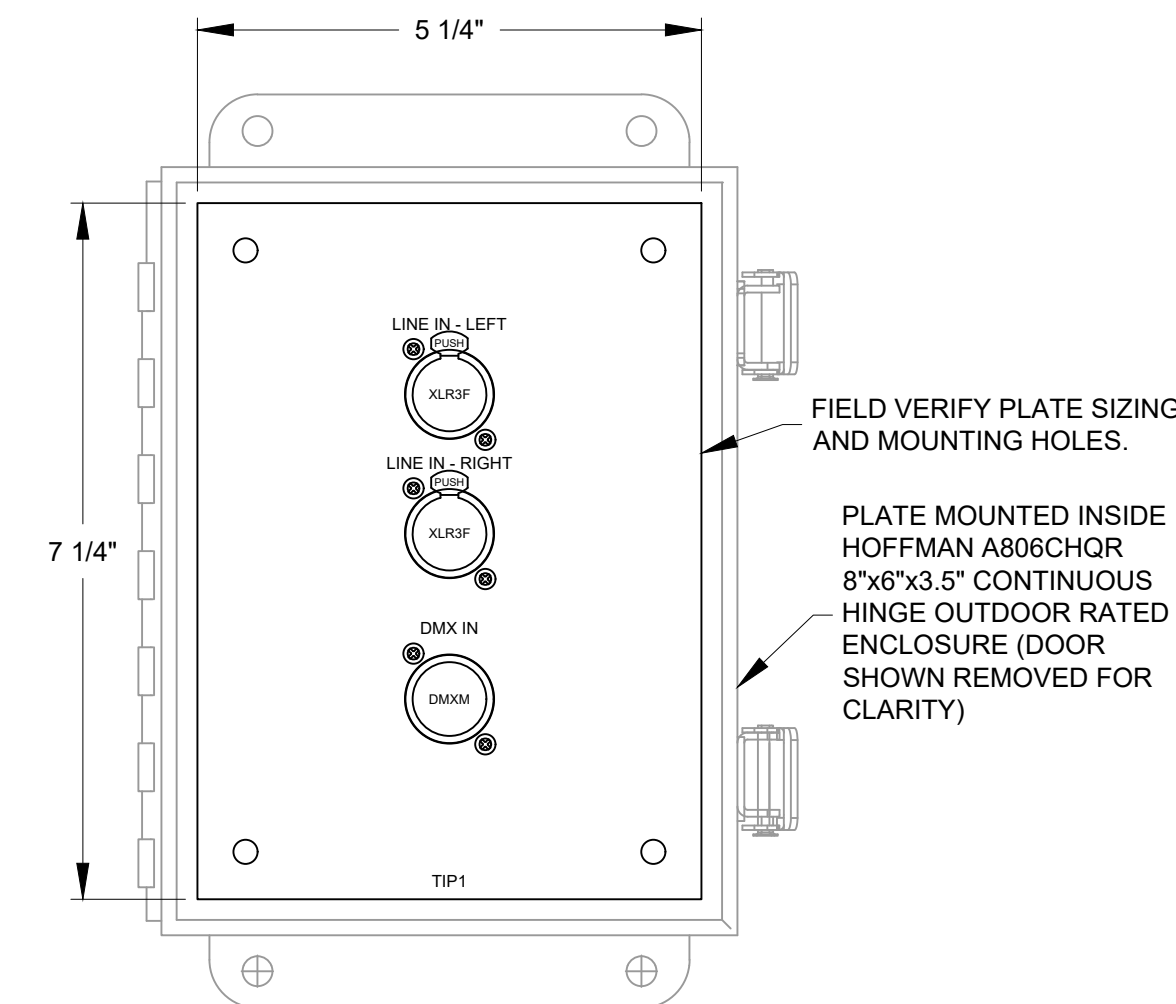


ER EQUIPMENT RACK ELEVATION
SCALE: 1-1/2" = 1'-0"

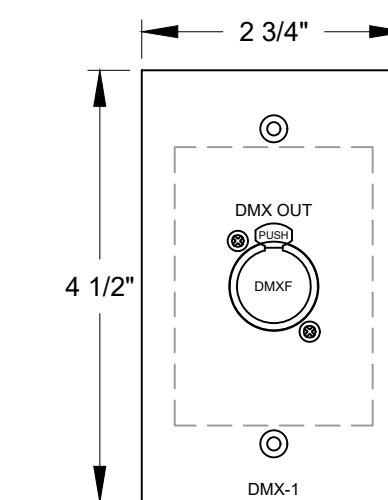


TPC TOUCH PANEL CONTROL ELEVATION
SCALE: 1-1/2" = 1'-0"

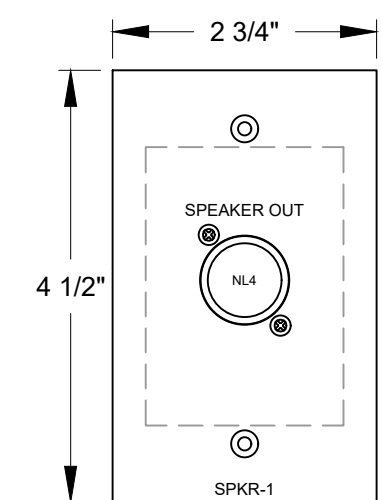
CONNECTORS		
LABEL	CONNECTOR	DESCRIPTION
DMXF	PATHWAY PWCON XLR5DF IDC5	"D" SERIES, FEMALE, IDC
DMXM	PATHWAY PWCON XLR5DM IDC5	"D" SERIES, MALE, IDC
NL4	NEUTRIK NL4MPXX	"D" SERIES, MALE, SOLDER
XLR3F	NEUTRIK NC3FD-L-BAG-1	"D" SERIES, FEMALE, SOLDER



TIP-1 TECHNICAL INTERFACE PLATE
SCALE: 6" = 1'-0"

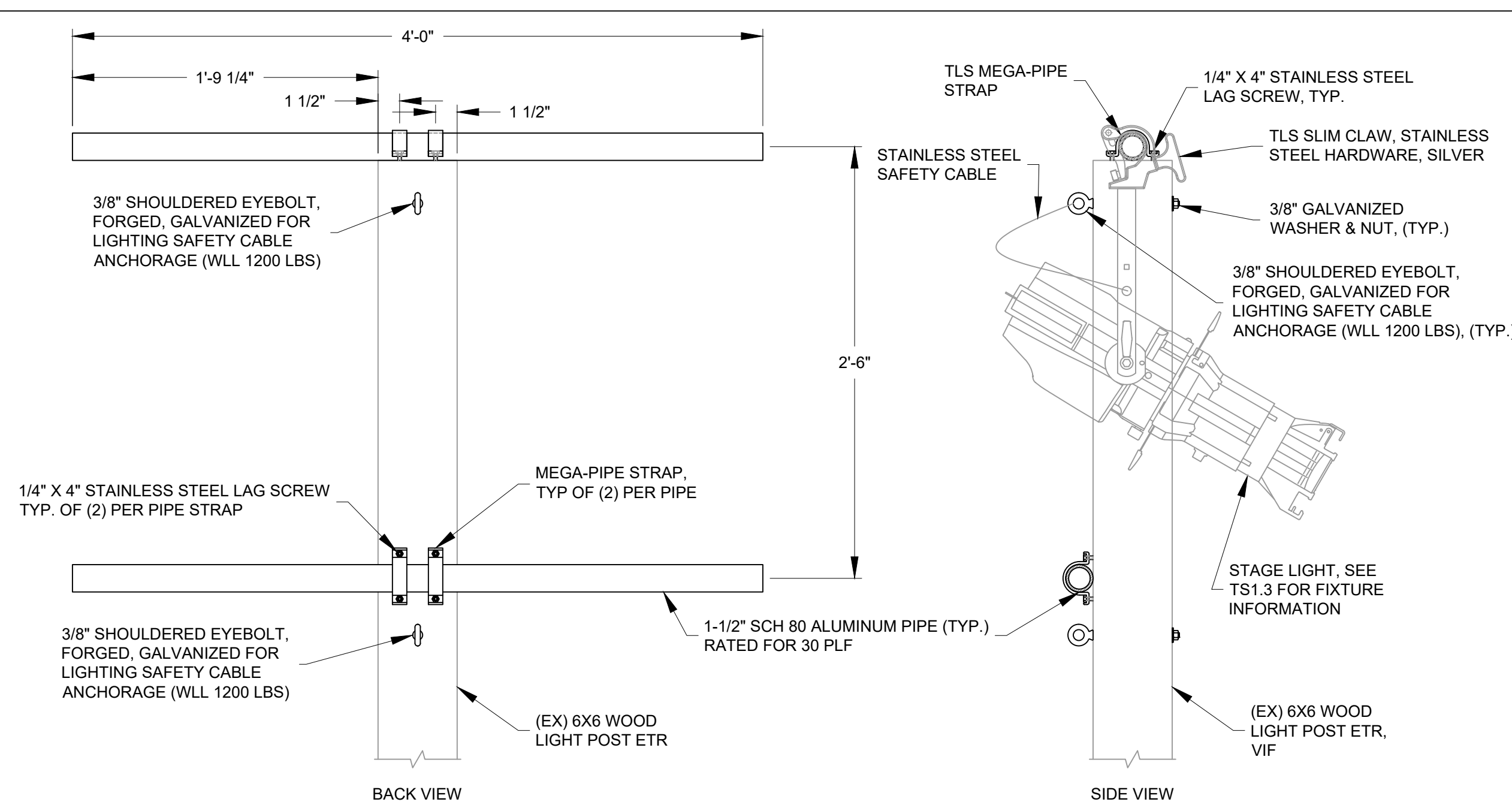


DMX-1 LIGHTING INTERFACE PLATE
SCALE: 6" = 1'-0"
NOTE: DMX-1, DMX-2 & DMX-3 ARE SIMILAR, DMX-1 SHOWN.

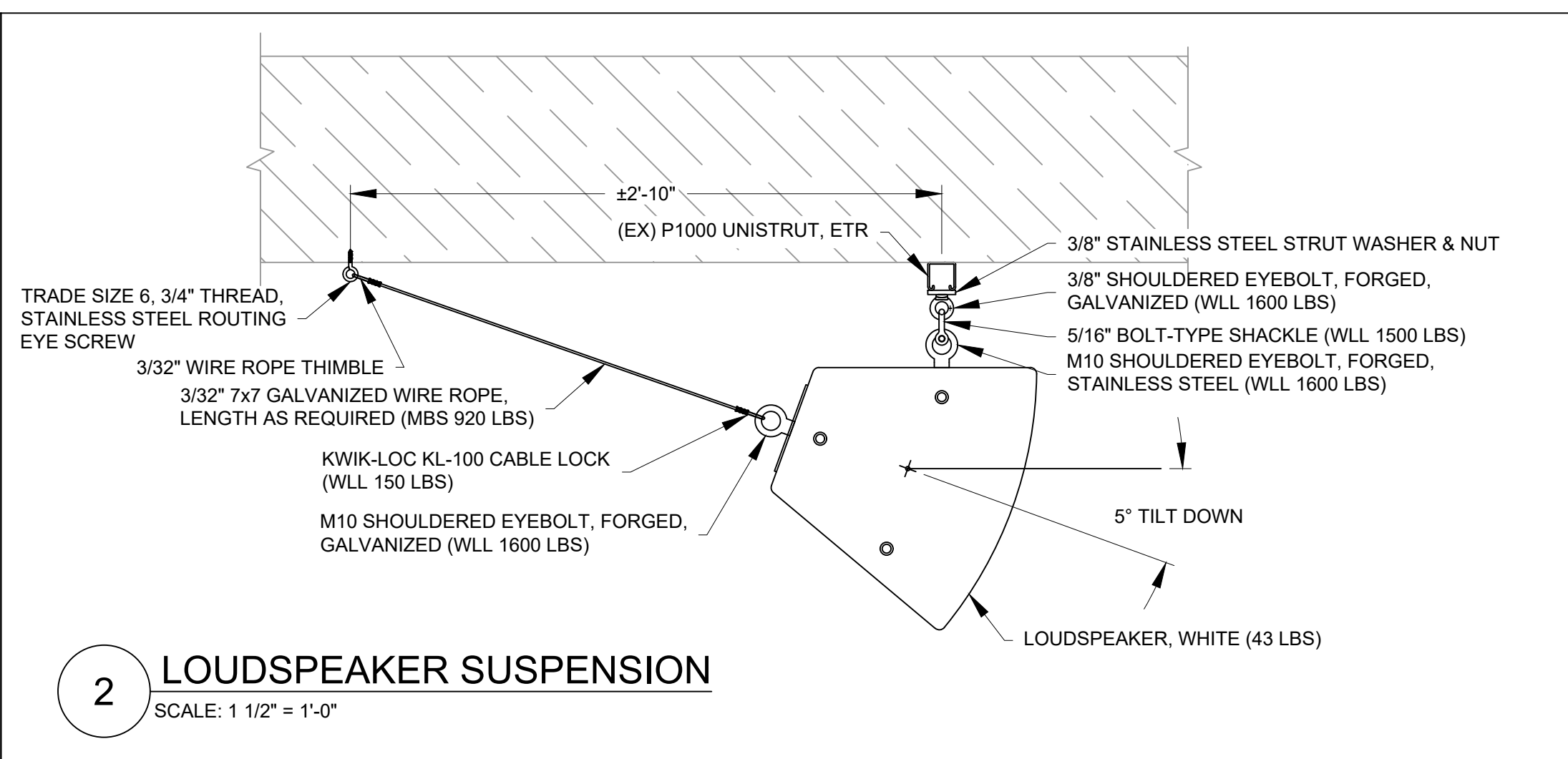


SPKR-1 SPEAKER INTERFACE PLATE
SCALE: 6" = 1'-0"
NOTE: SPKR-1 & SPKR-2 ARE SIMILAR, SPKR-1 SHOWN.

- NOTES:
- ALL PLATES ARE AS FOLLOWS UNLESS NOTED OTHERWISE.
 - PLATES BY RAPCO HORIZON, CONNECTORS BY NEUTRIK.
 - WALL PLATES TO BE 1/16" ALUMINUM WITH POWDER COAT FINISH.
 - RACK PANELS TO BE 1/16" FLANGED ALUMINUM WITH BLACK POWDER COAT FINISH.
 - LASER ENGRAVING AS PER DRAWING. TYPICAL LABEL TEXT IS 1/8" AND HEADING TEXT IS 5/32".
 - CONNECTORS TO BE REAR MOUNTED.
 - CABLING TO TERMINATE DIRECTLY TO THE REAR OF THE CONNECTORS. NO LEADS, WHIPS, OR SPLICES ARE PERMITTED.



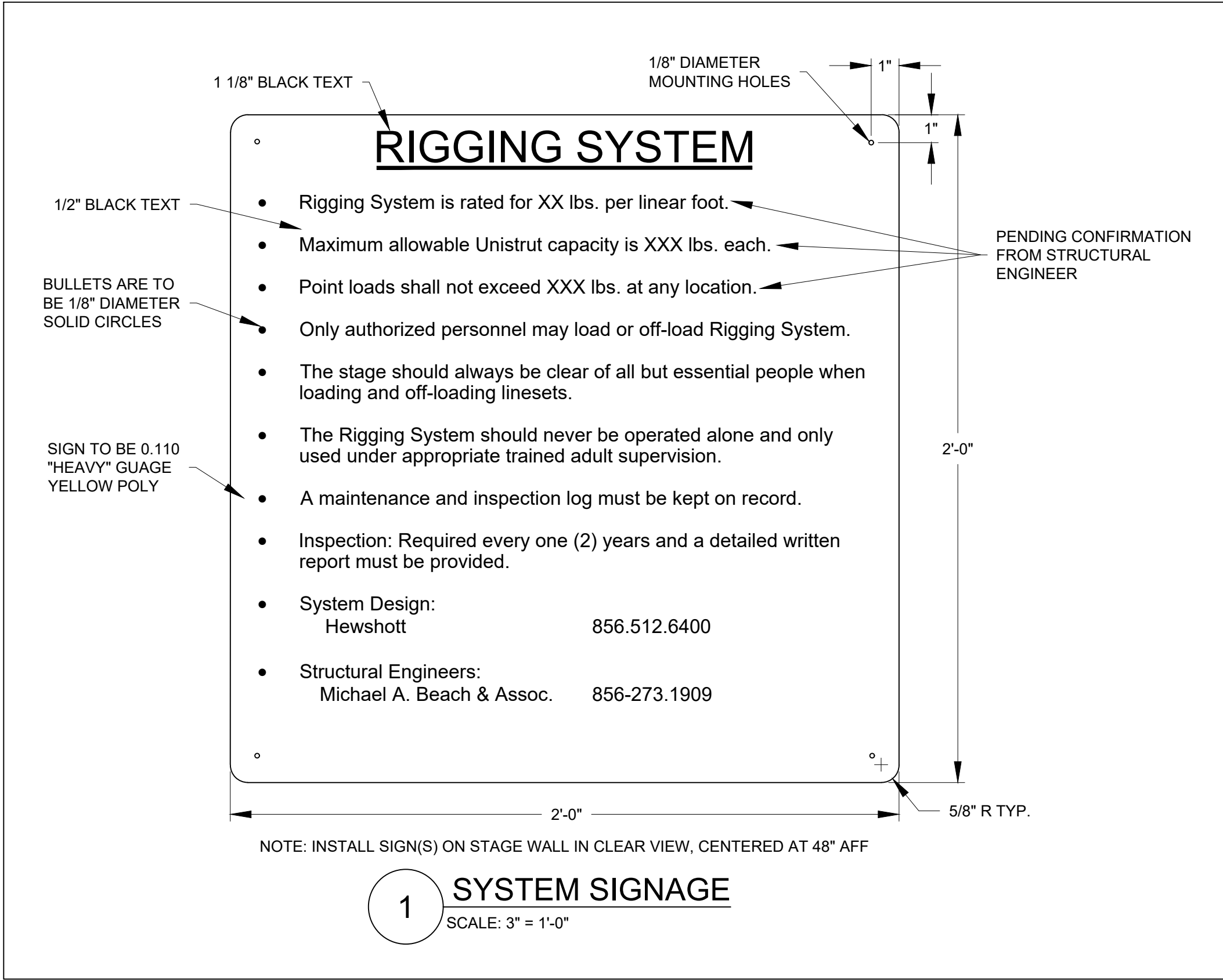
1 FOH LIGHT POST DETAIL
SCALE: 1 1/2" = 1'-0"



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

NOT FOR CONSTRUCTION

No.	07-24-26	DATE	ISSUE FOR BIDS	DESCRIPTION	REV'D BY
REVISIONS					
APPROVAL:			PROJECT:		
			ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER		
			138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
			Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		
			TITLE: ELEVATIONS		
			SCALE: AS NOTED DATE: 07/24/26 REV'D: MG DRAWN BY: MG CHECKED BY: BC		
			DRAWING NO: TS3.1		



INSTALL B.O. SIGNS AT 48" AFF

2

ASSISTIVE LISTENING SIGNAGE

SCALE: NTS

BILL OF MATERIALS						
Line:	Item:	Manufacturer:	Model:	Qty:	Notes:	ID:
AUDIO						
A.1	12" Coaxial Loudspeakers	Fulcrum	GX1265-WR	2	-	-
A.2	2-Channel Amplifier	Lea Professional	CS702	1	-	-
A.3	Speaker Mounting Hardware			1	-	-
A.4	Digital Signal Processor	Q-SYS	Core 8 Flex	1	-	DSP
A.5	Digital Wireless Handheld Microphone System	Shure	QLXD4	2	-	WMR1,2
A.6	Wireless Handheld Microphone	Shure	QLXD2/SM58	2	-	-
A.7	Wireless Mic Dual-Docking Charger	Shure	SBC200	1	-	-
A.8	Rechargeable Microphone Battery	Shure	S8900A	2	-	-
A.9	Passive Antenna Splitter	Shure	UA221	2	-	WMS1,2
A.10	Remote Antenna Wall Mount Bracket	Shure	UA505-RSMA	2	-	-
A.11	Assistive Listening Wi-Fi Receiver	Listen Technologies	LWR-1050	26	-	-
A.12	Assistive Listening Charging Station Dock (For 16)	Listen Technologies	LA-480	2	-	-
A.13	Assistive Advanced Neck Loop	Listen Technologies	LA-438	7	-	-
A.14	Assistive Listening Breakaway Lanyard	Listen Technologies	LA-445	26	-	-
A.15	Assistive Listening Ear Speaker	Listen Technologies	LA-164	26	-	-
A.16	Assistive Listening Wi-Fi 2 CH. Audio Server	Listen Technologies	LW-120-02-09	1	-	ALS
A.17	Assistive Listening Signage	Listen Technologies	LW-307	2	-	-
A.18	Custom Plates	Rapco	Custom	4	See Dwg's	-
A.19	Installation Wiring	-	-	1	-	-
TECHNICAL FURNITURE & RACKS						
F.1	8 RU Low Profile Wall Equipment Rack	Middle Atlantic	VWM-SD-8-36K-BW	1	-	ER
F.2	4 1/2 Inch DC Fan Kit with Thermo Controller	Middle Atlantic	FAN2-DC-FC	1	-	-
F.3	20A Low Profile Vertical Power Strip, 6 Outlet	Middle Atlantic	PDT-620C-NS	1	-	-
F.4	Rack Screws	Middle Atlantic	HP	1	-	-
NETWORK/CONTROL						
NC.1	7" Q-SYS Wall Mount Touch Panel	Q-SYS	TSC-70-G3	1	-	TPC
NC.2	12-Port PoE+ Managed AV Switch	Netgear	M4250-10G2F-PoE+	1	(8) PoE+ ports w/ 30W per port	NET
NC.3	SFPs to RJ45 Transceiver	Netgear	AXM765	1	-	INSTALL IN NET
NC.4	Outdoor Wireless Access Point	Netgear	WAX610Y	1	-	WAP
THEATRICAL LIGHTING						
TL.01	ETC ColorSource Spot VXT	ETC	CSSPOTVXTMVS	4	-	-
TL.02	LED Wash Fixture	Chauvet	OVATIONREVEP3IP	6	-	-
TL.03	Lens Tubes, 26 Deg	ETC	426EDLT	4	-	-
TL.04	Uni-Bolt for Strut Channels	The Light Source	UB28	12	Install on both (N) & (EX) fixtures	-
TL.05	Slim Claw, Stainless Steel Hardware, Silver	The Light Source	SLCM-SS	4	Install on ETC ColorSource Spot VXT fixtures	-
TL.06	5' DMX Extension Cables	LEX	DMX-5P-03	3	w/ XLR TOP Connectors, Custom Labeling, See Spec	-
TL.07	10' DMX Extension Cables	LEX	DMX-5P-10	10	w/ XLR TOP Connectors, Custom Labeling, See Spec	-
TL.08	25' DMX Extension Cables	LEX	DMX-5P-25	2	w/ XLR TOP Connectors, Custom Labeling, See Spec	-
TL.09	1/8" X 30" Stainless Steel Safety Cable	FEHR	39312-305	20	-	-
TL.10	Multiverse Vero Transceiver	City Theatrical	7400-5902	1	-	WDMX
TL.11	Multiverse SHoW Baby	City Theatrical	5900	1	-	-
TL.12	Lighting Control Processor	Interactive Technologies	CueServer 3 Flex +	1	-	DMX
TL.13	Installation Wiring	-	-	1	-	-
STAGE RIGGING						
SR.1	Rigging Safety Signage	Voss Signs	Custom, see dwgs	1	-	-
SR.2	Mega-Pipe Strap	The Light Source	MPSM	8	Silver	-
SR.3	Aluminum Lighting Pipes. 1- 1/2" SCH 80, 4' long	-	-	4	-	-
ALTERNATE BID #1						
ALT1.1	ETC ColorSource Spot VXT	ETC	CSSPOTVXTMVS	4	-	-
ALT1.2	Lens Tubes, 26 Deg	ETC	426EDLT	4	-	-
ALT1.3	Slim Claw, Stainless Steel Hardware, Silver	The Light Source	SLCM-SS	4	Install on ETC ColorSource Spot VXT fixtures	-
ALT1.4	1/8" X 30" Stainless Steel Safety Cable	FEHR	39312-305	20	-	-

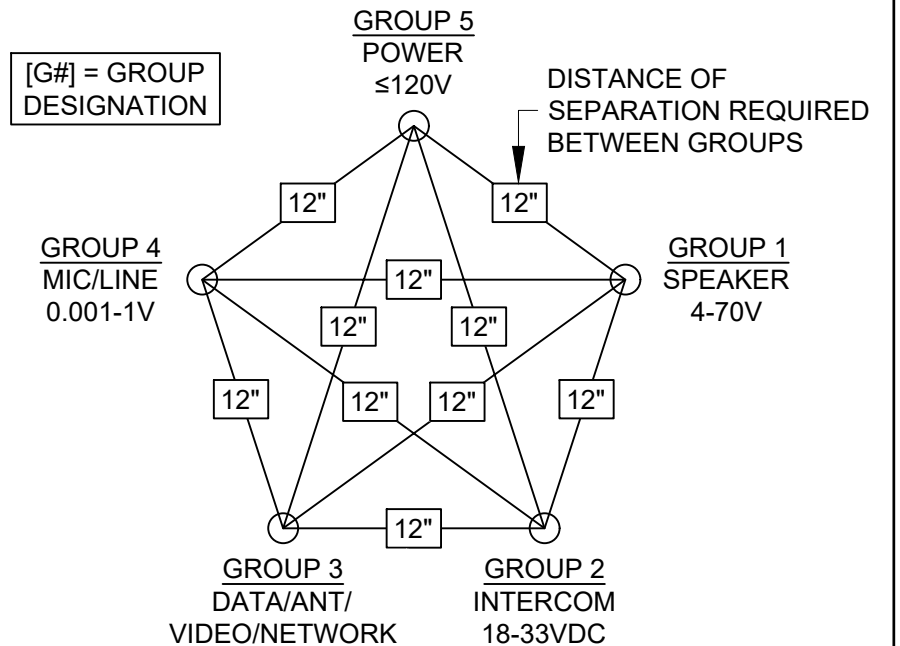
CABLE LEGEND			
ID	STANDARD	PLENUM	TYPE
ML1	WEST PENN WIRE 454	WEST PENN WIRE D25454	MIC/LINE
N1	WEST PENN WIRE 4246	WEST PENN WIRE 254246	NETWORK/DATA
RF1	WEST PENN WIRE 813	WEST PENN WIRE 25812	RG/58, 50 OHM, 20 AWG, SOLID, TINNED
S12	WEST PENN WIRE 227	WEST PENN WIRE 25227B	SPEAKER
X2	WEST PENN WIRE 4246	WEST PENN WIRE 254246	DMX

DEVICE SCHEDULE									
DEVICE	DESCRIPTION	MANUFACTURER	MODEL	BACKBOX (WxHxD)	MOUNTING HEIGHT	MOUNTING TYPE	FINISH	LOW VOLTAGE CONDUIT REQUIREMENTS	NOTES
TS1.1 DEVICE PLAN									
ER	EQUIPMENT RACK	MIDDLE ATLANTIC	SEE BOM	INTEGRAL	TOP @ 48" AFF	SURFACE	BLACK	-	-
RP	RELAY PANEL	LYNTEC	SEE BOM	-	48" AFF	SURFACE	GREY	3/4" [G3] TO ER	-
TIP-1	TECHNICAL INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	SEE TPC/TS3.1	SURFACE	BLACK	3/4" [G3/G4] TO ER	-
TPC	TOUCH PANEL CONTROL	QSYS	SEE BOM	2-GANG	48" AFF	SURFACE	BLACK	-	-
WDMX	WIRELESS DMX TRANSCIVER	CITY THEATRICAL	SEE BOM	-	SEE B/TS3.1	SURFACE	WHITE	3/4" [G3] TO ER	MOUNTED ON RACK DOOR
WAP-1	WIRELESS ACCESS POINT	NETGEAR	SEE BOM	2-GANG	SEE B/TS3.1	SURFACE	WHITE	3/4" [G3] TO ER	-
WMA-1	WIRELESS MICROPHONE ANTENNA	SHURE	SEE BOM	-	SEE B/TS3.1	SURFACE	-	3/4" [G3] TO ER	-
WMA-2	WIRELESS MICROPHONE ANTENNA	SHURE	SEE BOM	-	SEE B/TS3.1	SURFACE	-	3/4" [G3] TO ER	-
TS1.2 DEVICE RCP									
DMX-1	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO DMX-2	-
DMX-2	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO DMX-3	-
DMX-3	DMX INTERFACE PLATE	RAPCO	CUSTOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G3] TO ER	-
SPKR-1	STAGE RIGHT LOUDSPEAKER	FULCRUM ACOUSTICS	SEE BOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G1] TO ER	-
SPKR-2	STAGE LEFT LOUDSPEAKER	FULCRUM ACOUSTICS	SEE BOM	1-GANG	CEILING	SURFACE	WHITE	3/4" [G1] TO ER	-

*SEE TS0.0 FOR ADDITIONAL INFORMATION (BACK BOXES, MOUNTING HEIGHTS, CONDUIT SEPARATION).

LOW-VOLTAGE RACEWAYS

- ALL RACEWAYS SHALL BE METALLIC, STEEL, CONTINUOUS, EMT (UNO), LABELED, CONTAIN A PULL STRING, AND ALL ENDS/FITTINGS TO HAVE PLASTIC BUSHINGS.
- RACEWAYS IN SLAB, BELOW SLAB, OR BELOW GRADE SHALL BE GALVANIZED STEEL IMC. BELOW SLAB IS TYPICAL UNO.
- PROVIDE PULL BOXES EVERY 270 DEGREES OF BENDS AND AFTER EVERY 100 LINEAR FEET.
- NO RACEWAY TO BE FILLED GREATER THAN 40%.
- ALL RACEWAYS TO HAVE A PULL STRING INSTALLED AFTER PULLING ALL CABLING.
- CLOSE PROXIMITY CROSSING OF RACEWAYS MUST BE PERPENDICULARLY AT 90°.
- RACEWAYS SHALL COMPLY WITH THE DISTANCE SEPARATION REQUIREMENTS, PER GROUP TYPE, BELOW.



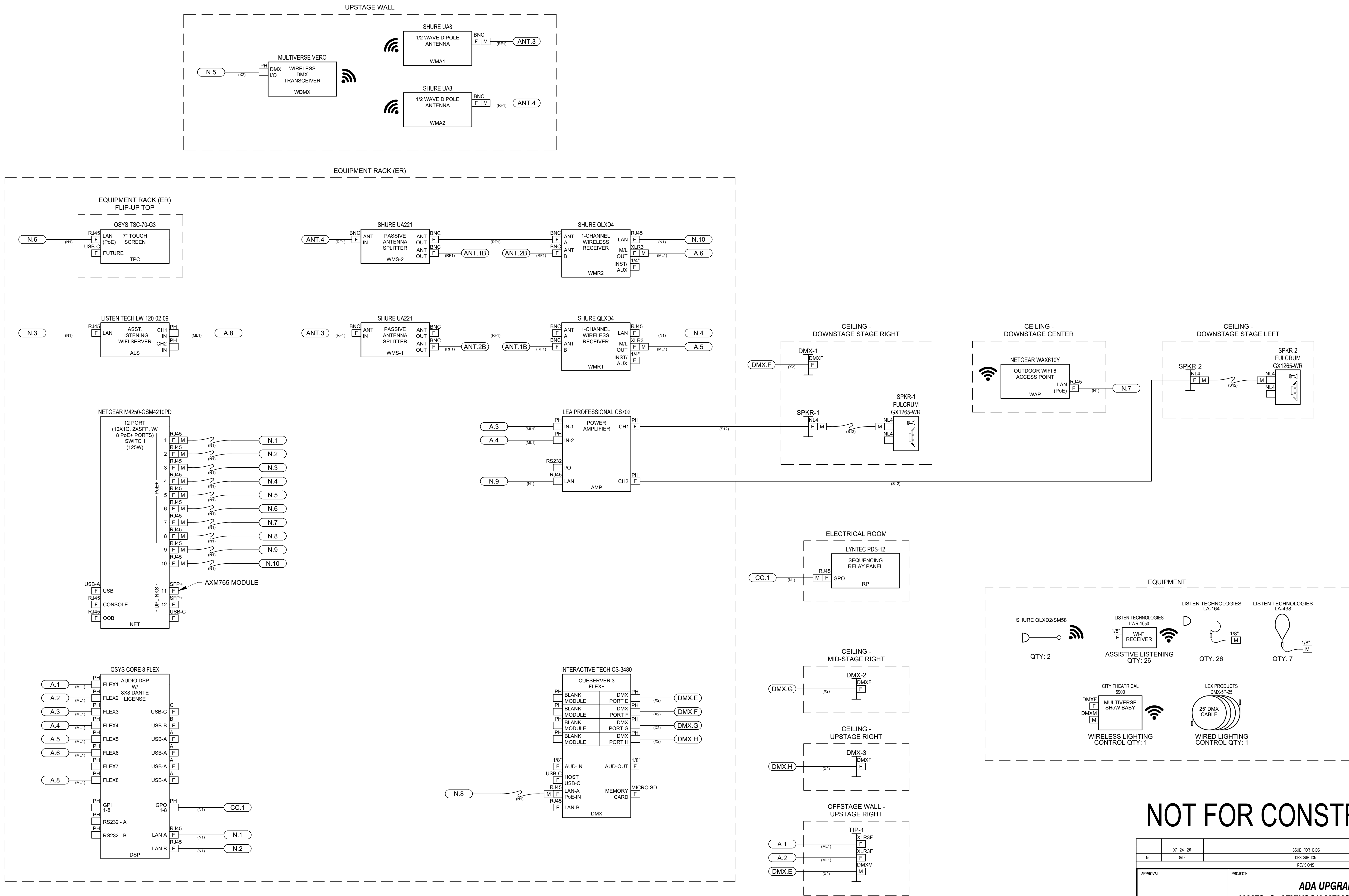
PROVIDE ADDITIONAL SEPARATION AS FOLLOWS:

- A. 120/208V BRANCH CKT: 24" G. PANELBOARDS: 72"
B. 277/480V BRANCH CKT: 36" H. LIGHTING BALLASTS: 24"
E. ≤100A FEEDER CKT: 48" I. ≥15kVA TRANSFORMERS: 96"
F. >100A FEEDER CKT: 72" J. POWER IN PVC CONDUIT: +12"

*SEPARATION REQUIREMENTS ALSO APPLIES TO RACKS.
**MAINTAIN SEPARATION WHEREVER PHYSICALLY POSSIBLE.
***SEE DETAILS FOR TYPICAL INSTALLATION METHODS.
****IN THE EVENT SEPARATION CAN NOT BE ACHIEVED, CONTACT CONSULTANT TO REVIEW & DISCUSS FIELD CONDITIONS.

NOT FOR CONSTRUCTION

No.	07-24-26	DATE	ISSUE FOR BIDS	DESCRIPTION	REV'D BY
REVISIONS					
APPROVAL:		PROJECT:			
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER			
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080			
Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		TITLE: SCHEDULES			
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. # 10864 PA. ARCH. # A-114243-1, CT. ARCH. 7024		SEAL:		SCALE: AS NOTED DATE: 07/24/26 REV'D BY: MG DRAWN BY: BC	
DIMENSIONS MUST BE VERIFIED BY CONSTRUCTION NOTE TO ARCHITECTURE. IF ANY DISCREPANCIES DETECTED, NOTIFY ARCHITECT IMMEDIATELY. DO NOT SCALE DRAWING.		DRAWING NO:		TS6.1	
SCHEDULES & ASSOC. REVISIONS					



NOT FOR CONSTRUCTION



1406 Longfellow Drive, Cherry Hill, NJ 08003
O +1 (856) 512 6400 | E usa@hewshott.com | hewshott.com
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07-24-26		ISSUE FOR BIDS		
No.	DATE	DESCRIPTION	REV'D BY	
REVISIONS				
APPROVAL:		PROJECT:		
		ADA UPGRADES TO THE JAMES. G. ATKINSON MEMORIAL PARK AMPHITHEATER		
		138 BETHEL MILL ROAD SEWELL, NEW JERSEY 08080		
		TITLE: FUNCTIONALS		
		Joseph F. McKernan Jr., Architects & Associates 100 Dobbs Lane Suite 204 Cherry Hill, New Jersey 08034		
JOSEPH F. MCKERNAN JR., R.A. NJ ARCH. # 10984 - PA ARCH. #A-014421-2, CT ARCH. 7024		SCALE: AS NOTED	DRAWING NO: TS7.1	
SEAL:		PROJECT NO: 1156A	DATE: 07/24/26	
DIMENSIONS MUST BE VERIFIED BY CONTRACTOR WITHIN 14 DAYS OF CONSTRUCTION. IF NOT DISCOVERED WITHIN 14 DAYS, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES DO NOT SCALE DRAWING.		REVISIONS:	REVISIONS:	
DRAWN BY: MG		CHECKED BY: BC	DATE: 07/24/26	
REVISIONS & MODS: REVISIONS				