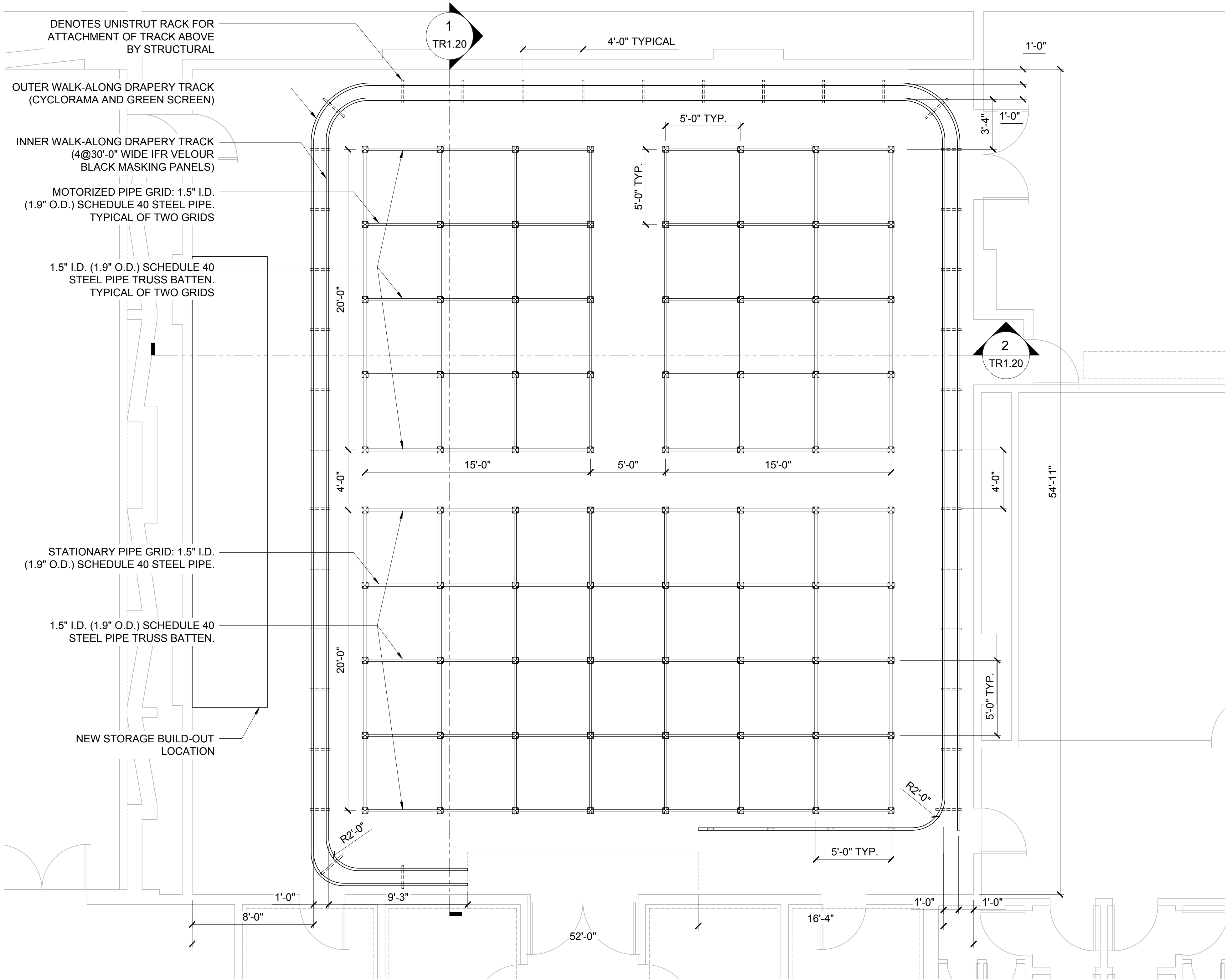




[1] PLAN
1/4"=1'-0"

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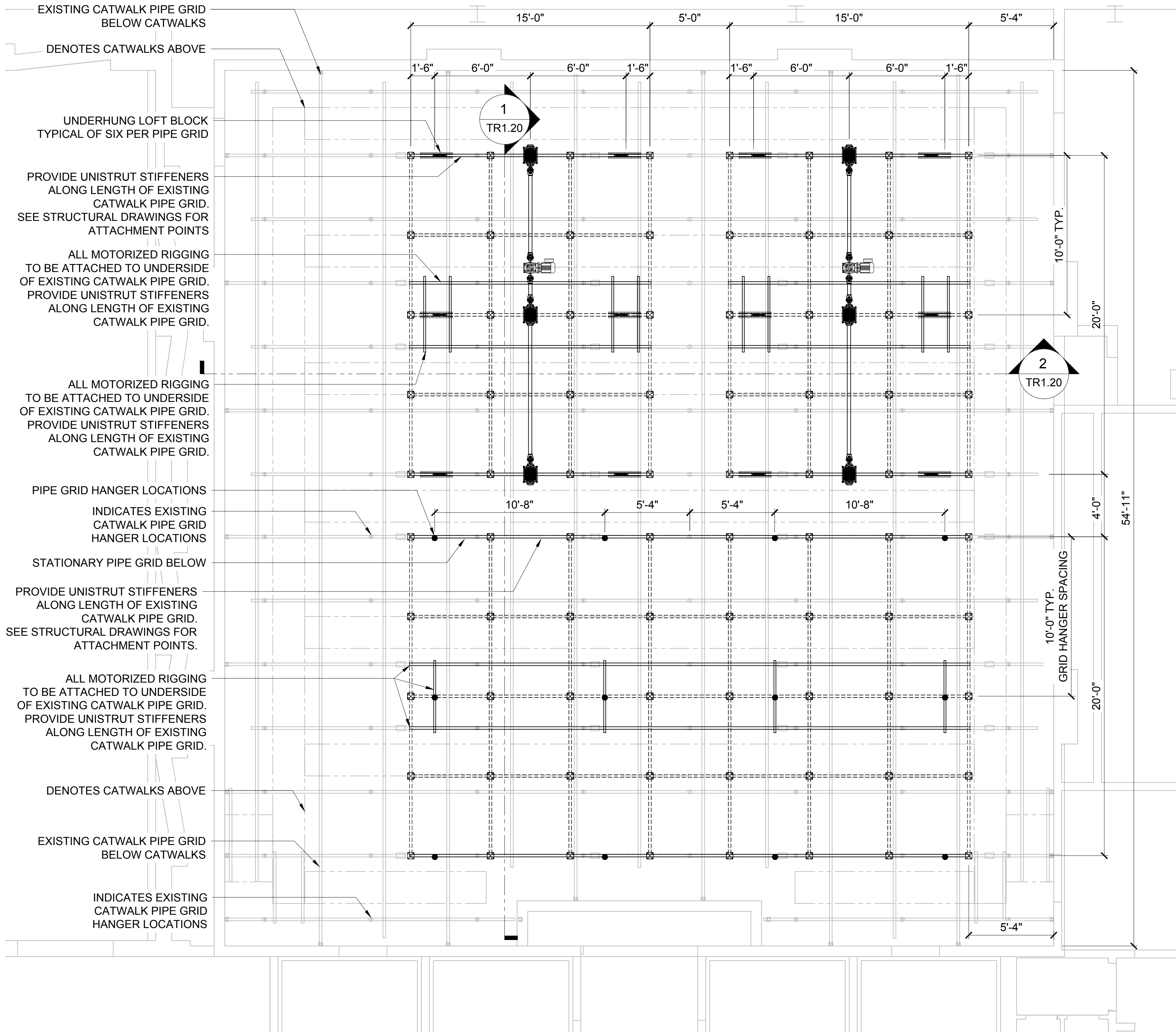
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PROJECT
**INTERIOR RENOVATION
MUSIC SOUND STAGE
RIGGING**

DATE:	06/18/2018
PROJECT NO:	SU-062018
DRAWN BY:	SEM
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DRAWING TITLE
**THEATRE RIGGING
PLAN**

SHEET NO.
TR1.10



1 PLAN - MOTORIZED RIGGING AND GRID HANGERS
1/4"=1'-0"

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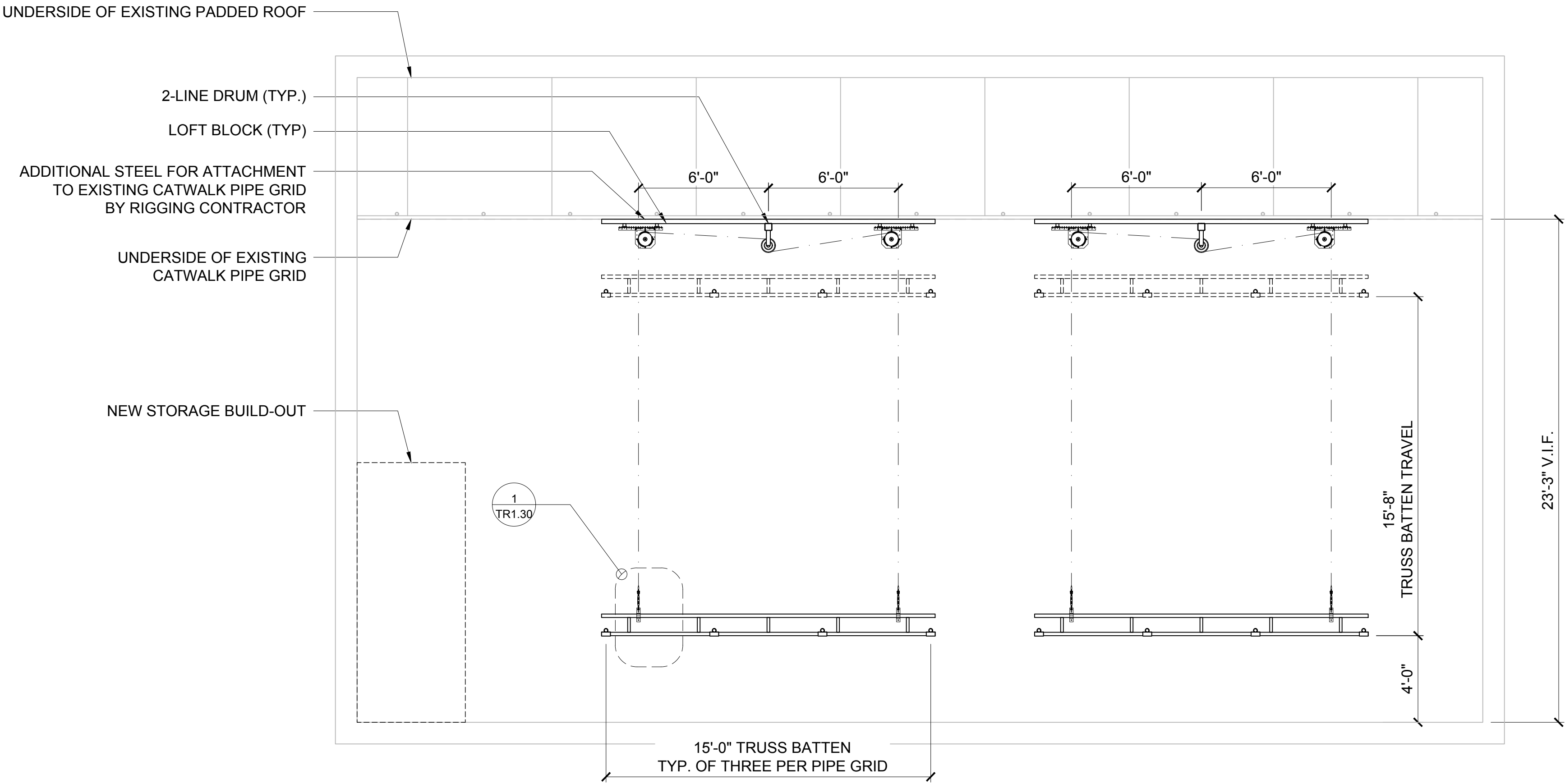
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PLAN**

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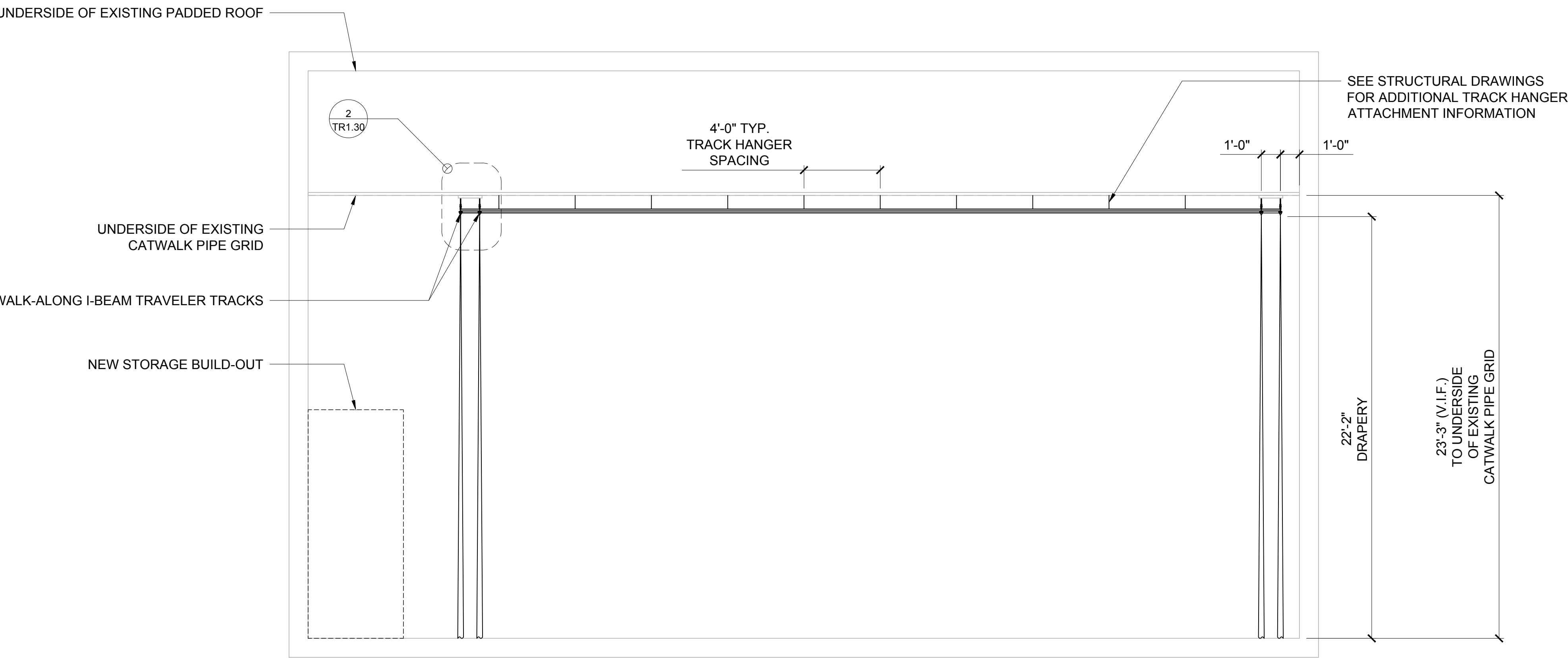
TR1.11



TR1.20



[1] TRANSVERSE SECTION - MOTORIZED PIPE GRID - BASE BID
1/4"=1'-0"



[2] TRANSVERSE SECTION - WALK-ALONG TRAVELER TRACK
1/4"=1'-0"

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200 FENNER DRIVE
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TEL: 860.677.4370
860.677.4370@SZEWCAKASSOCIATES.COM

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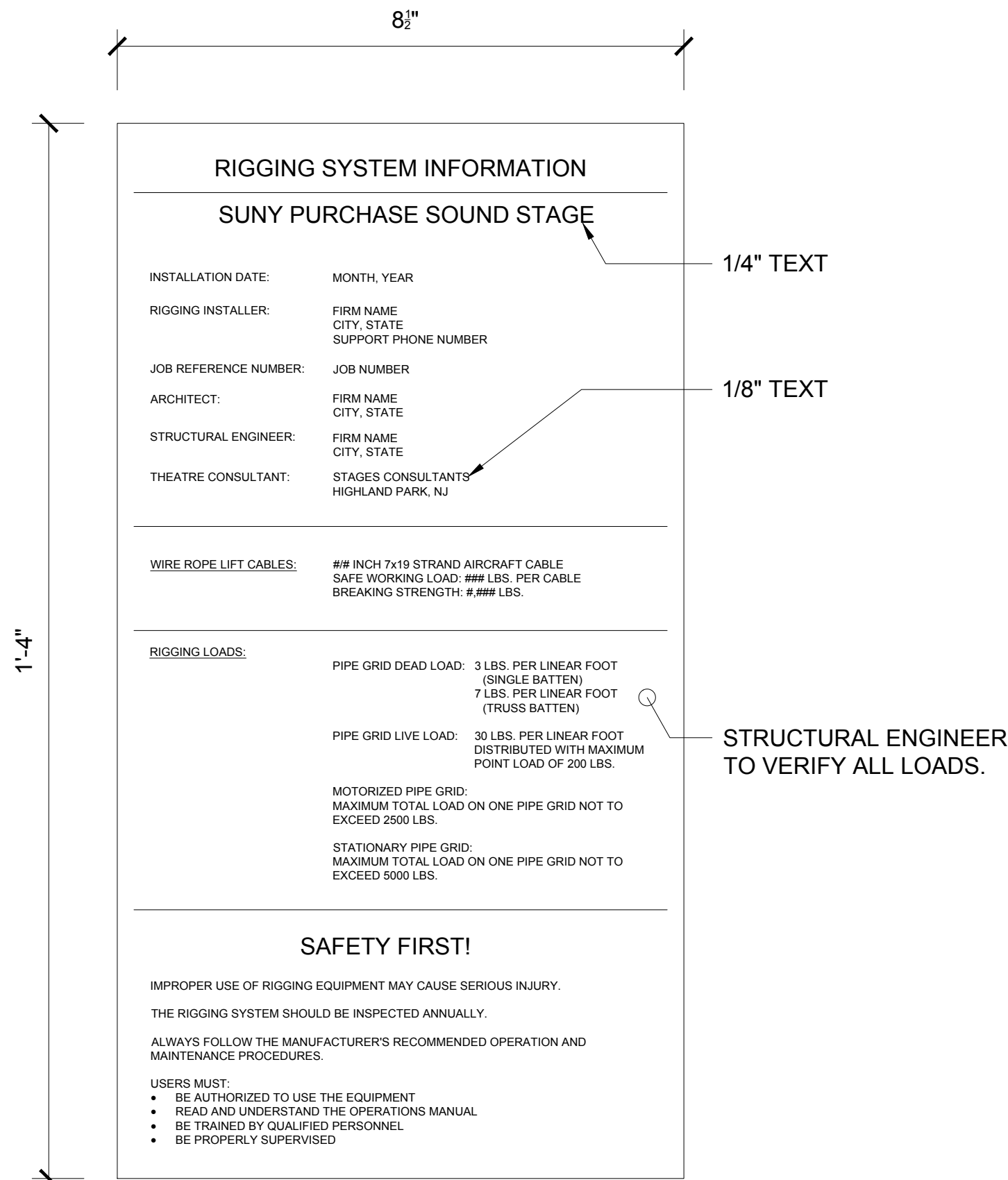
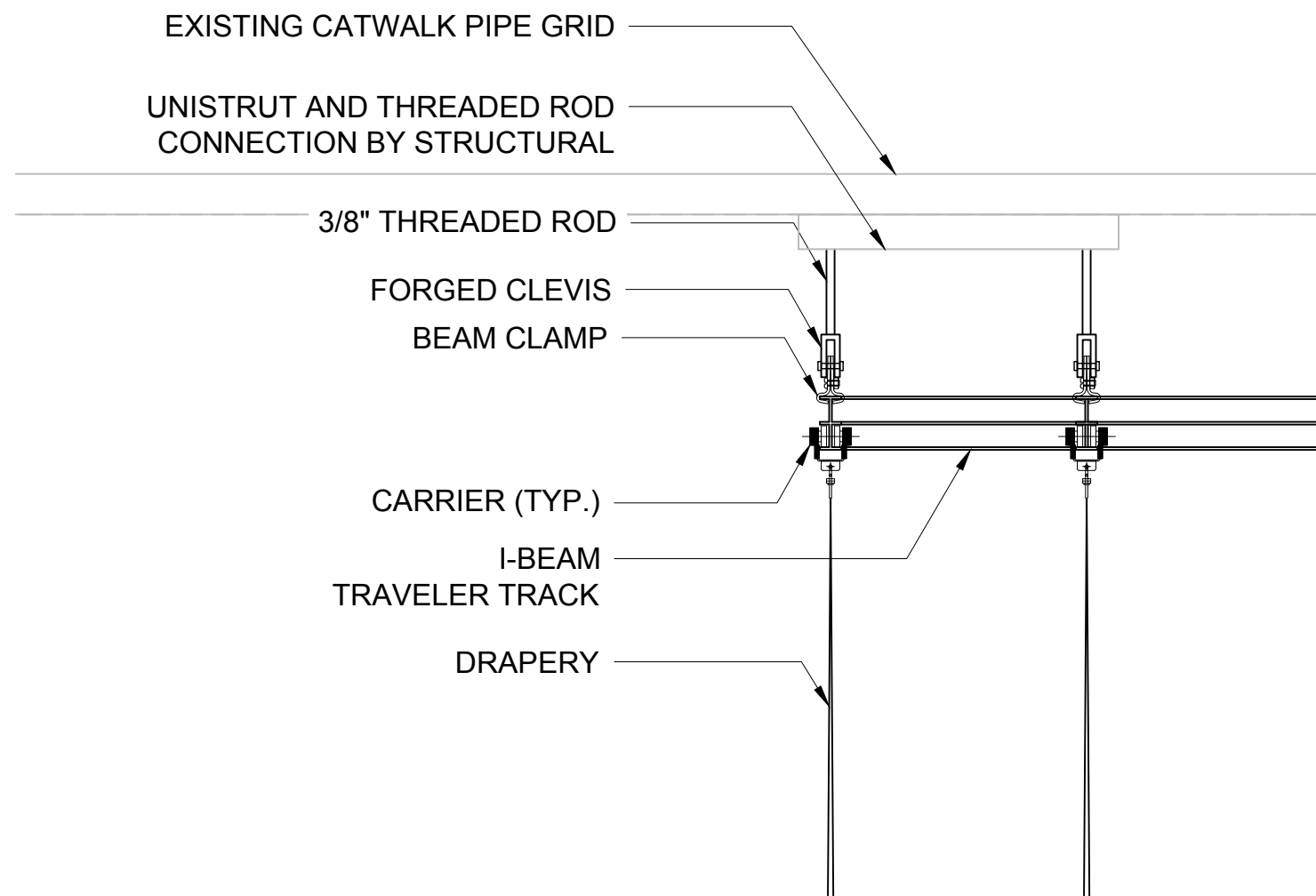
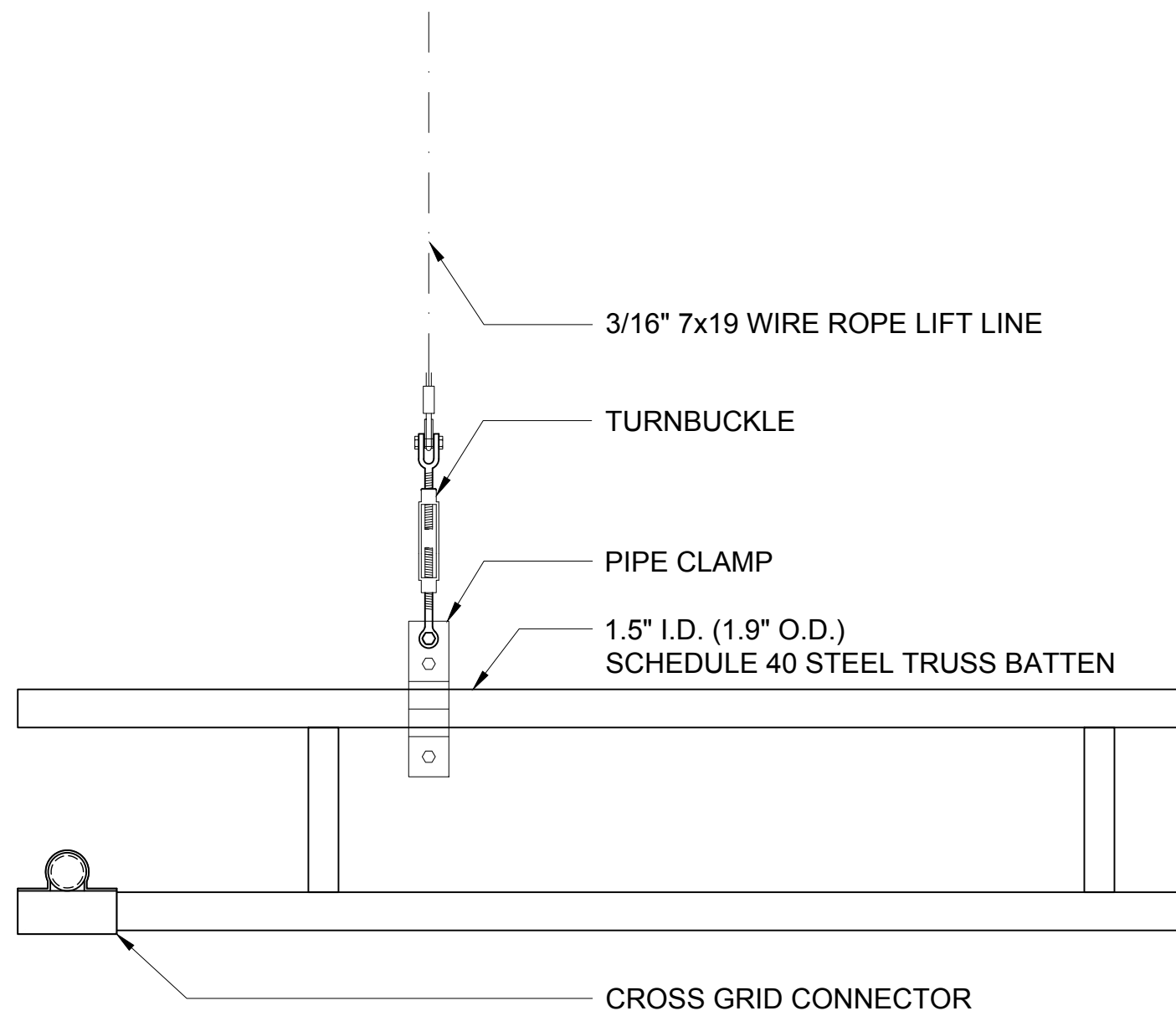
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THEATRE RIGGING SECTIONS

SHEET NO.

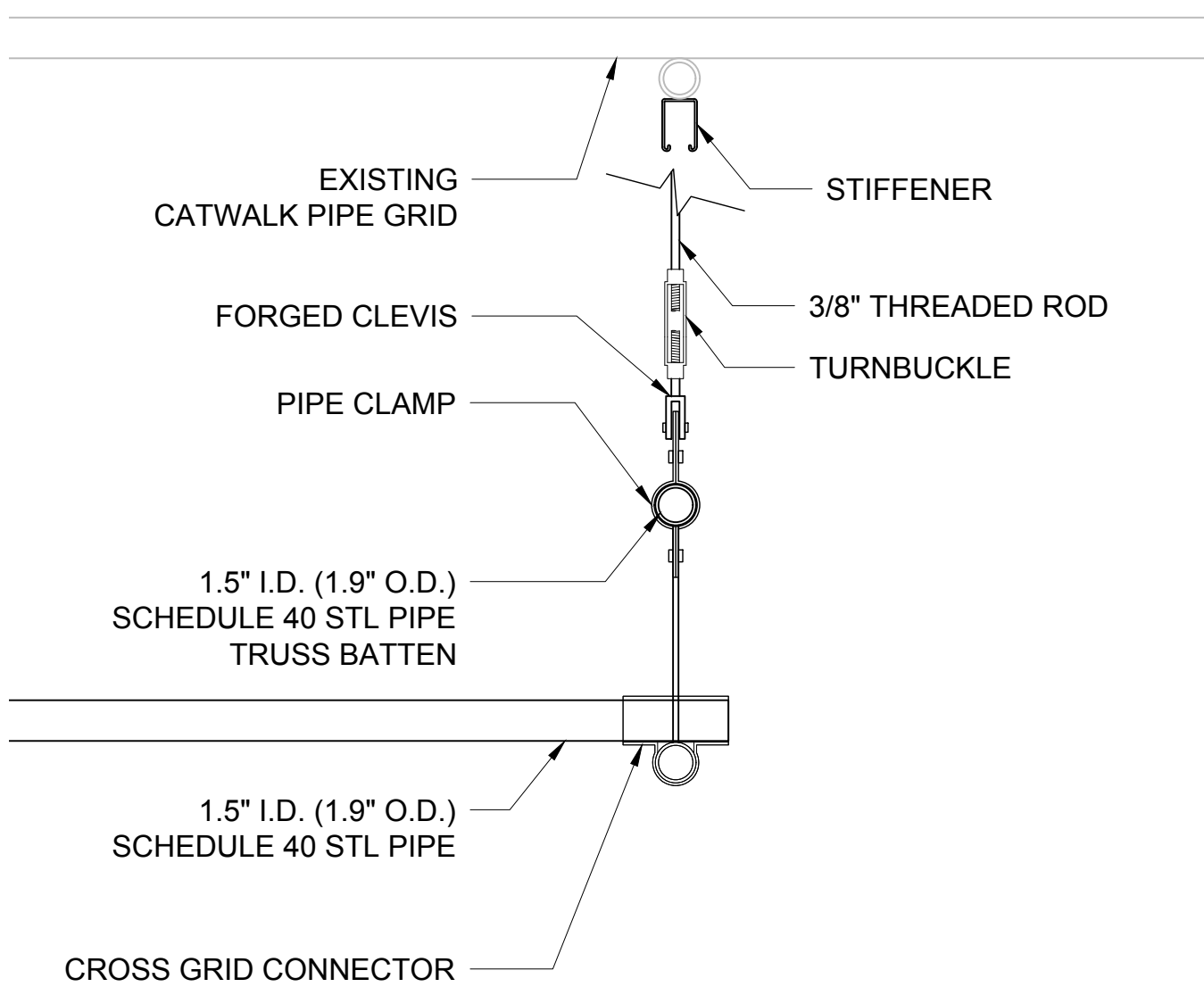
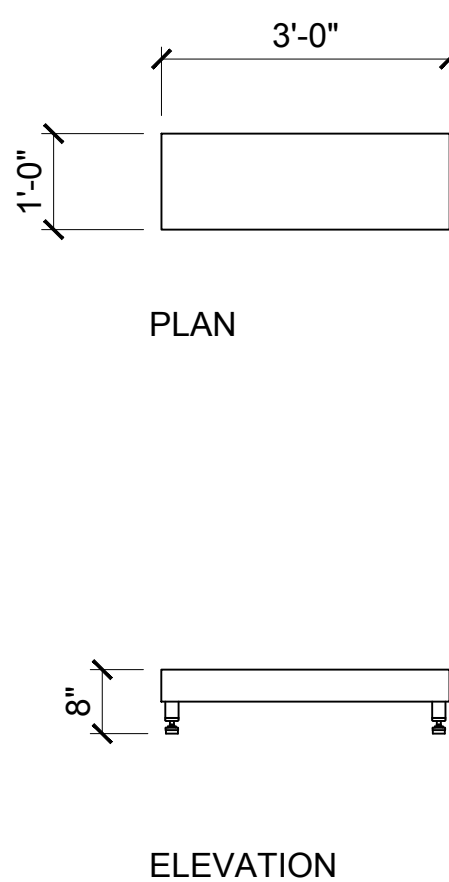
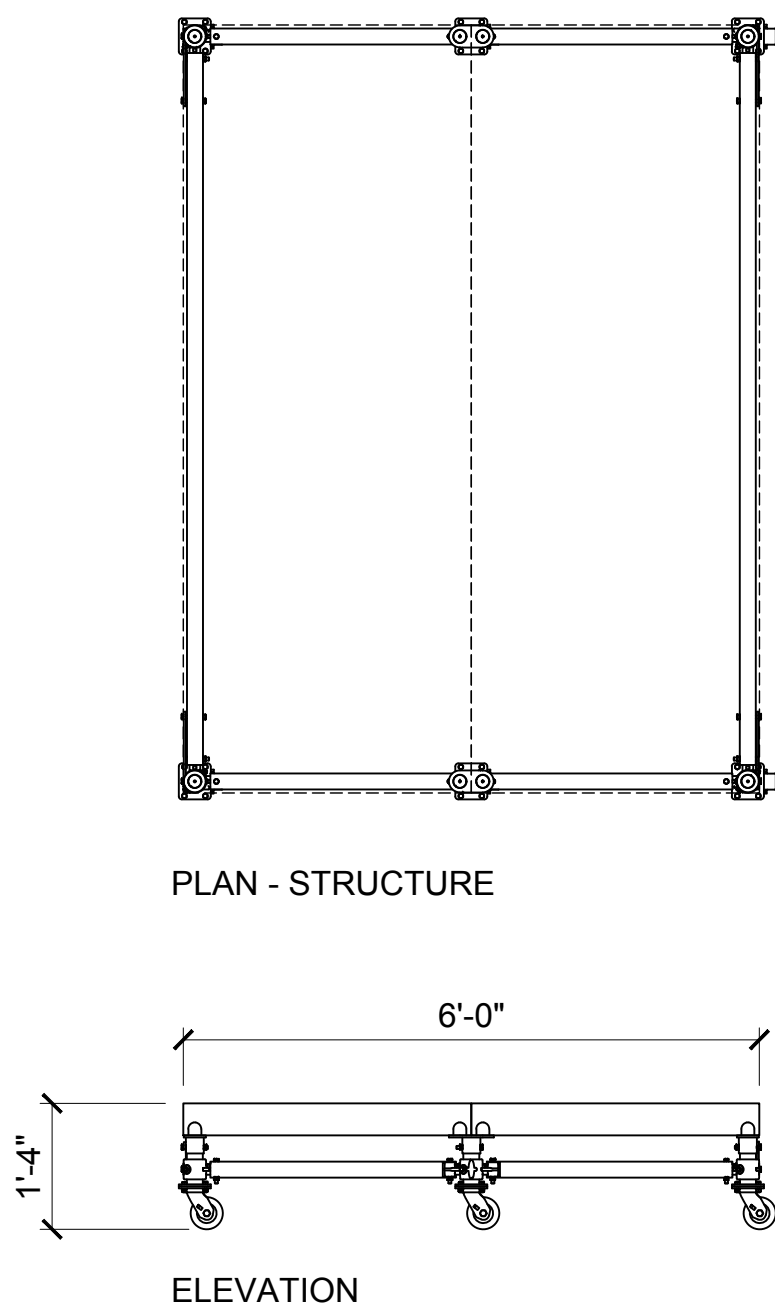
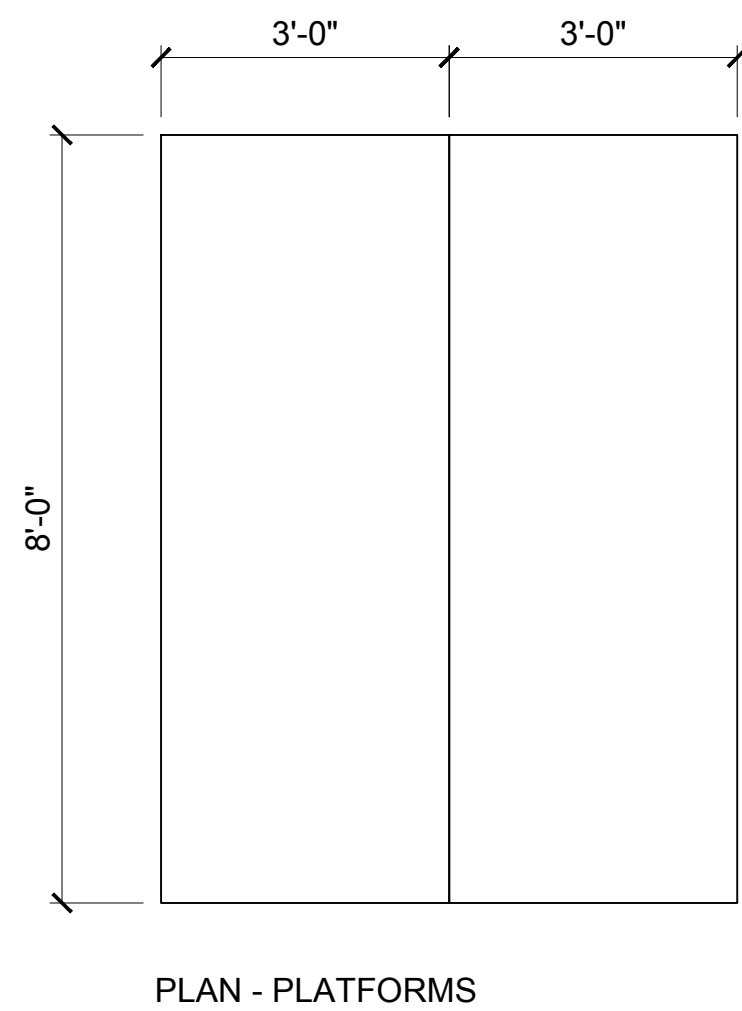
TR1.21



[1] **MOTORIZED PIPE GRID TRUSS BATTEN TERMINATION**
1 1/2"=1'-0"

[2] **WALK ALONG TRAVELER TRACK HANGER DETAIL**
1 1/2"=1'-0"

[3] **RIGGING SIGNAGE**
N.T.S.



[4] **MOBILE CONTROL BOOTH**
1/2"=1'-0"

[5] **STEP UNIT**
1/2"=1'-0"

[6] **STATIONARY PIPE GRID HANGER**
1 1/2"=1'-0"

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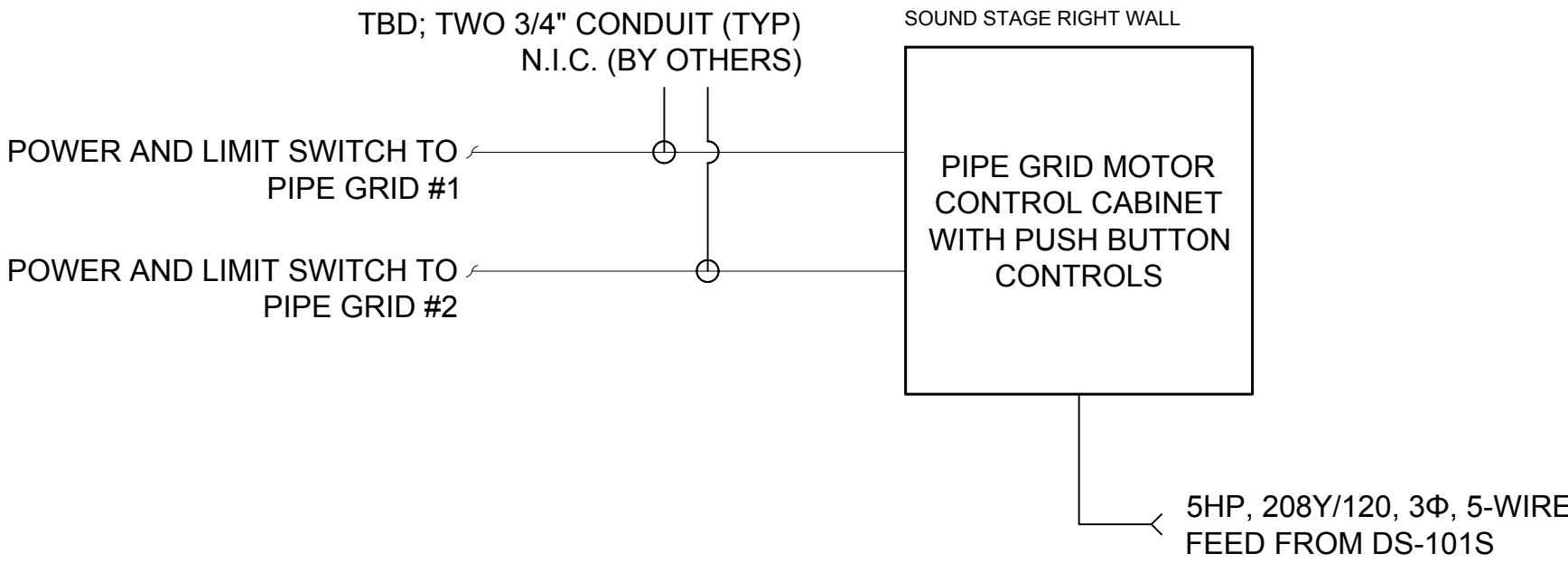
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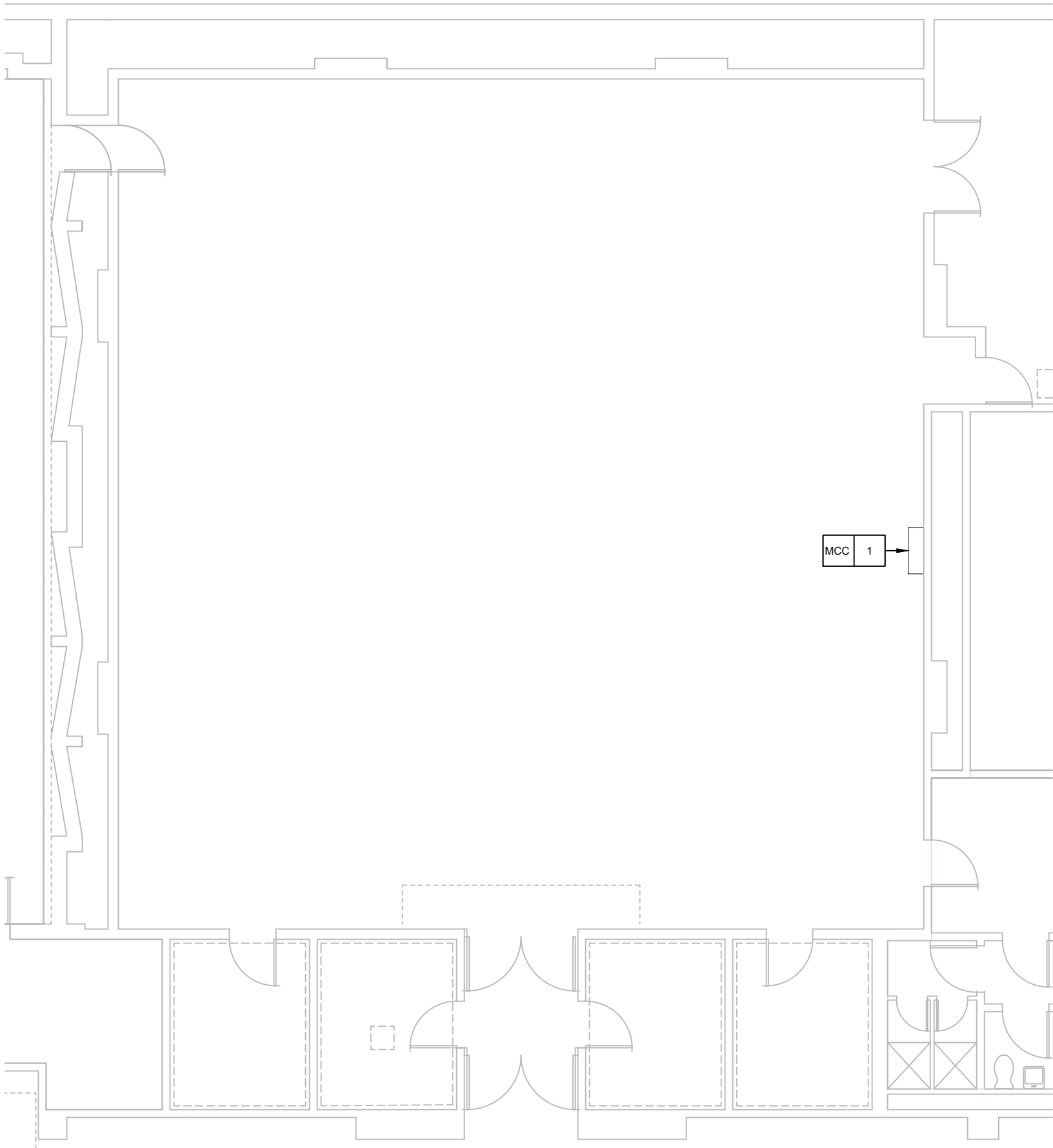
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THEATRE RIGGING DETAILS

SHEET NO.
TR1.30



[1] LINE SHAFT HOIST FUNCTIONAL DIAGRAM
N.T.S.



[2] STAGE LEVEL DEVICE PLAN
1/8"=1'-0"

NOTES:

1. THIS DIAGRAM SHOWS THE LAYOUT AND INTERCONNECTION OF THE COMPONENTS IN THE RIGGING ELECTRICAL SYSTEMS TO CONVEY DESIGN INTENT ONLY. FINAL WIRE QUANTITIES, TYPES, AND TOPOLOGY SHALL BE DETERMINED BY THE RIGGING MANUFACTURER.

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**THEATRE RIGGING
ELECTRICAL DETAILS**

SHEET NO.

TR1.40

2.13 FABRICS			3.4 PROTECTION OF EQUIPMENT			1.3 PRACTICES AND PROCEDURES			PART 2 – PRODUCTS		
A. BLACKOUT DRAPES: 24 OUNCE, 100% TREVIRA CS POLYESTER, INHERENTLY FLAME RETARDANT VELOUR, KM FABRICS' "CHARISMA", OR APPROVED EQUAL. COLOR: BLACK.			A. PROTECT THE EQUIPMENT IN THIS SECTION FROM DAMAGE AND DETERIORATION, INCLUDING RUST, DURING ALL PHASES OF THE WORK, FROM THE TIME OF MANUFACTURE TO INSTALLATION.			A. PRACTICES AND PROCEDURES FOR THE WORK IN THIS SECTION SHALL CONFORM TO APPLICABLE SECTIONS IN THIS DIVISION.			2.1 ACCEPTABLE MANUFACTURERS AND PRODUCTS		
B. MUSLIN CYCLORAMA: 100 PERCENT COTTON, .7 OUNCE PER SQUARE FOOT, SEAMLESS FABRIC. COLOR: BLEACHED WHITE.			B. NOTIFY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER IN WRITING OF JOBSITE CONDITIONS THAT WOULD ADVERSELY AFFECT THE EQUIPMENT AFTER INSTALLATION. DO NOT INSTALL THE EQUIPMENT IF JOBSITE CONDITIONS BEYOND THE CONTROL OF THE RIGGING CONTRACTOR WILL RESULT IN DAMAGE OR DETERIORATION, INCLUDING RUST.			END OF SECTION			A. THE FOLLOWING ARE ACCEPTABLE PRODUCTS AND MANUFACTURERS:		
C. GREEN SCREEN: 62" WIDE, INHERENTLY FLAME RETARDANT, ROSE BRAND POLY PRO, OR APPROVED EQUAL. COLOR: CHROMA KEY GREEN.			C. RUST RESULTING FROM FLAWS IN MANUFACTURING AND FINISHING SHALL BE COVERED UNDER THE WARRANTY.			SECTION 116123 DEMOUNTABLE PLATFORMS			1. "SC90" SINGLE SIDED DECK STAGING CONCEPTS 8400 WYOMING AVENUE NORTH, SUITE 100 MINNEAPOLIS, MN 55445 (763)533-2094		
D. FABRICS SHALL BE FLAME TREATED IN A MANNER APPROVED BY THE APPROPRIATE LOCAL AGENCY, WHERE APPLICABLE. A NOTARIZED AFFIDAVIT SHALL ACCOMPANY THE DRAPERIES ATTESTING THAT ALL FABRICS HAVE BEEN FLAME TREATED IN THE APPROVED MANNER.			3.5 CLEANING AND REPAIR			PART 1 – GENERAL			2. "ALL PURPOSE STAGE DECK" DECK STAGERIGHT CORPORATION 495 PIONEER PARKWAY CLARE, MICHIGAN 48617 (800) 438-4499		
E. NO PIECED HORIZONTAL OR SPLIT WIDTHS OF FABRIC SHALL BE INCORPORATED IN ANY PART OF ANY DRAPERY.			A. WHEN CONSTRUCTION IS COMPLETE, RESTORE ALL SYSTEM COMPONENTS TO THEIR DELIVERED CONDITION. THIS INCLUDES DUSTING, CLEANING, AND REMOVAL OF CONSTRUCTION MATERIALS SUCH AS FIREPROOFING.			1.1 RELATED DOCUMENTS			B. TYPICAL PLATFORM DETAILS		
F. FABRICS OF 1 COLOR SHALL BE FROM 1 DYE LOT.			B. REPAIR ANY WORK OR FINISHES THAT ARE DAMAGED DURING INSTALLATION BY THE CONTRACTOR FOR THE WORK IN THIS SECTION. THIS INCLUDES THE WORK IN THIS SECTION AND THE WORK OF OTHERS. WHERE THE WORK OF OTHERS IS DAMAGED, REIMBURSE THE APPROPRIATE CONTRACTOR FOR THE REPAIR.			A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.			C. PLATFORMS SHALL SUPPORT A MINIMUM LIVE LOAD OF 150 POUNDS PER SQUARE FOOT.		
G. VELOUR NAP SHALL RUN IN A CONSISTENT DIRECTION. NAP SHALL RUN UP FOR BLACK VELOUR MASKING PIECES.			3.6 OPERATION OF EQUIPMENT			1.2 WORK INCLUDED			D. PLATFORMS SHALL HAVE INTEGRAL LOCKS FOR ATTACHING ADJACENT SECTIONS.		
2.14 DRAPERY FABRICATION			A. PRIOR TO COMPLETION OF THE INSTALLATION AND TURNOVER TO THE OWNER, THE EQUIPMENT IN THIS SECTION SHALL BE OPERATED BY EMPLOYEES OF THE CONTRACTOR, THOSE AUTHORIZED BY THE CONTRACTOR, OR THOSE UNDER THE CONTRACTOR'S SUPERVISION.			A. THE WORK IN THIS SECTION IS PART OF THE BASE BID AND INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO FURNISH AND INSTALL THE FOLLOWING:			E. PLATFORM EDGING SHALL BE EXTRUDED ALUMINUM WITH A MILLED FINISHED DESIGNED TO ACCEPT ACCESSORY COMPONENTS.		
A. ALL DRAPERIES ARE SEWN FLAT AND ARE UNLINED.			B. THE CONTRACTOR SHALL ADVISE THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER IN WRITING OF ANY UNAUTHORIZED OPERATION OF THE EQUIPMENT.			1. MOBILE CONTROL BOOTH			F. SUPPORT LEGS SHALL PERMIT 2 INCH FINE-LEVELING ADJUSTMENT WITH A NON-MARRING SCREW FOOT.		
B. REINFORCE THE TOP OF EACH PIECE WITH POLYESTER WEBBING WEIGHING A MINIMUM OF 2.8 OUNCES PER YARD, AND DOUBLE STITCHED AT THE TOP. PROVIDE MACHINE-SET BLACK ANODIZED NO. 3 GROMMETS ON 1-FOOT CENTERS.			3.7 DRAPERY INSTALLATION			1.3 RELATED WORK			G. BRIDGE SUPPORTS ARE ACCEPTABLE, IF APPLICABLE TO A MANUFACTURERS' SYSTEM.		
C. PROVIDE EACH TRACKED PIECE WITH OBLONG SPRING, CARABINER TYPE SNAPS.			A. HANG ALL DRAPERIES FOR INSPECTION AND ACCEPTANCE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR SOILING AND DAMAGE AFTER ACCEPTANCE.			A. RELATED WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:			H. FLOOR SURFACE SHALL BE TEMPERED BOARD PAINTED BLACK TO MATCH THE STAGE FLOOR, (IF PAINTED HARDBOARD FLOOR FINISH).		
D. HEM THE BOTTOMS WITH A 6-INCH-DEEP DOUBLE TURNED HEM WITH A SEPARATE CANVAS CHAIN POCKET APPROXIMATELY 3 INCHES ABOVE THE BOTTOM OF THE FACE FABRIC. PROVIDE NO. 8 ZINC COATED CHAIN.			B. DO NOT HANG THE DRAPERIES IF ENVIRONMENTAL CONDITIONS IN THE BUILDING WILL BE DETRIMENTAL TO THE GOODS. NOTIFY THE ARCHITECT AND THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER IN WRITING OF ANY ADVERSE ENVIRONMENTAL CONDITIONS.			1. FINISHED SOUND STAGE FLOOR.			I. PROVIDE CHAIR STOPS FOR ALL SIDES OF MOBILE UNIT.		
E. SEW BACK THE FACE FABRIC OF EACH PIECE 4 INCHES ON BOTH SIDES. THE SIDES OF EACH DRAPERY PIECE SHALL HANG PLUMB WITHIN 2 INCHES.			3.8 COMMISSIONING AND PUNCHLISTING			1.4 POST-BID SUBMITTALS			PART 3 – EXECUTION		
F. LABEL EACH PIECE AT BOTH BOTTOM CORNERS WITH THE DIMENSIONS OF THE PIECE, THE MANUFACTURER, AND THE DATE OF MANUFACTURE.			A. THE CONTRACTOR SHALL WORK WITH THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER TO ARRANGE FOR A PUNCHLISTING PERIOD FOR THE WORK IN THIS SECTION. THE PUNCHLISTING PERIOD SHALL TAKE PLACE AT LEAST 2 MONTHS BEFORE THE FIRST SCHEDULED REHEARSAL ON STAGE. PUNCHLISTING SHALL CONSIST OF A MINIMUM OF AN 8-HOUR DAY. THE BUILDING SCHEDULE SHALL BE SUCH THAT NO OTHER CONFLICTING OR OBSTRUCTING ACTIVITY IS TAKING PLACE. PUNCHLISTING SHALL INCLUDE THE OPERATION OF EVERY COMPONENT OF EACH SYSTEM SPECIFIED HERE.			A. SUBMITTAL PROCEDURES SHALL BE AS DICTATED BY THE ARCHITECT.			3.1 COORDINATION		
2.15 TRAVELER TRACK			B. PRIOR TO PUNCHLISTING, THE RIGGING CONTRACTOR SHALL COMMISSION THE SYSTEM AND CERTIFY THAT THE INSTALLATION IS COMPLETE AND READY FOR PUNCHLISTING BY THE THEATRE CONSULTANT. IF SUBSTANTIAL PORTIONS OF THE INSTALLATION ARE NOT COMPLETE, REQUIRING THE CONSULTANT TO MAKE ANOTHER PUNCHLIST TRIP, THE RIGGING CONTRACTOR SHALL COMPENSATE THE CONSULTANT FOR TIME SPENT AND TRAVEL EXPENSES. COMPENSATION SHALL BE AT THE CONSULTANT'S PREVAILING HOURLY AND PER DIEM RATES.			B. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION. INCLUDE PLANS, DETAIL SECTIONS, AND RELATED CONDITIONS. INDICATE MATERIALS, METHODS, FINISHES, ATTACHMENTS, AND ACCESSORY ITEMS.			A. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS WHICH AFFECT THE WORK IN THIS CONTRACT. NOTIFY THE OWNER WHENEVER FIELD MEASUREMENTS, ANALYSIS OF THE DRAWINGS AND SPECIFICATIONS, OR PROGRESS OF OTHER TRADES INDICATES THAT THE WORK IN THIS CONTRACT CANNOT BE COMPLETED AS SPECIFIED OR AS SCHEDULED.		
A. VARIABLE ACOUSTIC TRACK IS MANUAL, "WALK-ALONG" STYLE AND SHALL BE H&H SPECIALTIES MODEL 501WB TRACK, OR APPROVED EQUAL. COLOR: BLACK			3.9 TRAINING			C. SHOP DRAWINGS SHALL REFLECT FIELD SURVEY INFORMATION.			3.2 JOB CONDITIONS		
B. PROVIDE CARRIERS ON 1-FOOT CENTERS, TRACK, SPLICE CLAMPS, AND END STOPS AS REQUIRED.			A. ASSIST THE OWNER IN BECOMING FAMILIAR WITH THE COMPLETED INSTALLATION AND PERSONALLY INSTRUCT REPRESENTATIVES OF THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT PROVIDED.			D. SUBMIT LOAD DATA FOR THE PLATFORM SYSTEM, INCLUDING SAFE WORKING LOADS, PROOF LOADS, AND ANY SPECIAL CONDITIONS RELATING TO THE USE OF THE PLATFORM SYSTEM.			A. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. THE CONTRACTOR SHALL ALSO BE FAMILIAR WITH THE WORK OF ADJOINING TRADES AND COORDINATE WITH THEIR WORK.		
C. MASTER AND SINGLE CARRIERS SHALL HAVE URETHANE-TIRED, BALL BEARING WHEELS. CARRIERS SHALL HAVE SWIVEL EYES AND TRIM CHAINS, AND RUBBER BUMPERS.			3.10 OWNER'S ACCEPTANCE			E. UPON COMPLETION OF THE INSTALLATION, PROVIDE 1 REDUCED SET OF THE SHOP DRAWINGS IN A 3-RING BINDER FOR THE OWNER. IN ADDITION, PROVIDE ELECTRONIC COPIES OF THE SHOP DRAWINGS FOR THE OWNER, THE ARCHITECT AND THE THEATRE CONSULTANT. ELECTRONIC COPIES SHALL BE IN PDF FORMAT.			B. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE EQUIPMENT FITTING THE INTENDED SPACES WITHOUT INTERFERENCE.		
D. PROVIDE MEANS OF ATTACHING THE TRACK TO THE UNISTRUT SUPPORT STRUCTURE.			A. THE OWNER WILL ACCEPT THE WORK IN THIS SECTION UPON THE SATISFACTORY COMPLETION OF ALL PUNCH LIST ITEMS.			F. PROVIDE 1 HARD COPY OF AN INSTRUCTION AND MAINTENANCE MANUAL FOR THE OWNER. IN ADDITION, PROVIDE ELECTRONIC COPIES OF THE MANUAL FOR THE OWNER, THE ARCHITECT AND THE THEATRE CONSULTANT. ELECTRONIC COPIES SHALL BE IN PDF FORMAT. THE MANUAL SHALL INCLUDE:			3.3 PROTECTION OF EQUIPMENT		
PART 3 – EXECUTION			B. PRIOR TO FINAL ACCEPTANCE, THE OWNER RESERVES THE RIGHT TO USE ANY COMPLETED PORTION OF THE WORK IN THIS SECTION AT NO ADDITIONAL COST, UNLESS SAID USE POSES A POTENTIAL HAZARD TO PERSONNEL OR RISKS DAMAGE TO THE WORK IN THIS SECTION OR THE WORK OF OTHERS.			G. SYSTEM DESCRIPTION.			A. PROTECT THE EQUIPMENT IN THIS SECTION FROM DAMAGE AND DETERIORATION, INCLUDING RUST, DURING ALL PHASES OF THE WORK, FROM THE TIME OF MANUFACTURE TO INSTALLATION.		
3.1 COORDINATION			3. END OF SECTION			1. OPERATION INSTRUCTIONS, INCLUDING SAFETY MEASURES.			3.4 CLEANING AND REPAIR		
A. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS WHICH AFFECT THE WORK IN THIS SECTION. NOTIFY THE ARCHITECT WHENEVER FIELD MEASUREMENTS, ANALYSIS OF THE DRAWINGS AND SPECIFICATIONS, OR PROGRESS OF OTHER TRADES INDICATES THAT THE WORK IN THIS SECTION CANNOT BE COMPLETED AS SPECIFIED OR AS SCHEDULED.			SECTION 266010 RIGGING SYSTEMS ELECTRICAL WORK			2. MAINTENANCE INSTRUCTIONS, INCLUDING RECOMMENDED PROCEDURES AND SCHEDULES FOR INSPECTING SYSTEM COMPONENTS.			A. REPAIR ANY WORK OR FINISHES THAT ARE DAMAGED DURING INSTALLATION BY THE CONTRACTOR FOR THE WORK IN THIS SECTION. THIS INCLUDES THE WORK IN THIS CONTRACT AND THE WORK OF OTHERS. WHERE THE WORK OF OTHERS IS DAMAGED, REIMBURSE THE APPROPRIATE CON TRACTOR FOR THE REPAIR.		
B. WITHIN 6 WEEKS OF THE AWARD OF CONTRACT, AND PRIOR TO THE PREPARATION OF SHOP DRAWINGS, THE STAGE RIGGING CONTRACTOR SHALL SUBMIT A WRITTEN REVIEW OF RELATED WORK AS IT APPEARS ON THE CONTRACT DOCUMENTS. THE REVIEW SHALL IDENTIFY ERRORS, OMISSIONS OR OBSTRUCTIONS RELATED TO THE INSTALLATION AND OPERATION OF THE EQUIPMENT IN THIS SECTION. THE SOLE INTENT OF THIS WRITTEN REVIEW IS TO IDENTIFY POTENTIAL PROBLEMS AS SOON AS POSSIBLE. IT IS UNDERSTOOD THAT SOME ERRORS, OMISSIONS OR OBSTRUCTIONS MAY NOT BE EVIDENT UNTIL THE RIGGING CONTRACTOR PREPARES SHOP DRAWINGS.			PART 1 – GENERAL			3. CATALOG CUTS FOR ALL PURCHASED EQUIPMENT			3.5 COMMISSIONING AND PUNCHLISTING		
3.2 JOB CONDITIONS			1.1 RELATED DOCUMENTS			H. INSTRUCTION AND MAINTENANCE MANUALS SHALL BE PROVIDED AT THE TIME OF OWNER TRAINING.			A. THE CONTRACTOR SHALL WORK WITH THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER TO ARRANGE FOR A PUNCHLISTING PERIOD FOR THE WORK IN THIS SECTION. PUNCHLISTING SHALL CONSIST OF A MINIMUM OF ONE 4-HOUR DAY. THE BUILDING SCHEDULE SHALL BE SUCH THAT NO OTHER CONFLICTING OR OBSTRUCTING ACTIVITY IS TAKING PLACE.		
A. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. THE CONTRACTOR SHALL ALSO BE FAMILIAR WITH THE WORK OF ADJOINING TRADES AND COORDINATE WITH THEIR WORK.			A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.			1.5 WARRANTY			B. DURING THE PUNCHLISTING PERIOD, THE MOBILE CONTROL UNIT SHALL BE DEPLOYED IN EACH OF ITS INTENDED POSITIONS. THE CONTRACTOR SHALL PROVIDE LABOR AS REQUIRED FOR THE SPECIFIED PUNCHLISTING.		
B. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE EQUIPMENT FITTING THE INTENDED SPACES WITHOUT INTERFERENCE.			1.2 SUMMARY			A. WARRANT THE EQUIPMENT IN THIS CONTRACT TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 2 YEARS AFTER ACCEPTANCE OF THE COMPLETED INSTALLATION BY THE OWNER. DEFECTIVE WORK SHALL BE REPAIRED AND REPLACED AT NO COST TO THE OWNER. THE WARRANTY SHALL NOT COVER THE RESULTS OF NORMAL USE, NOR SHALL IT COVER DAMAGE DUE TO NEGLECT OR IMPROPER USE OF THE EQUIPMENT.			C. PRIOR TO PUNCHLISTING, THE CONTRACTOR SHALL COMMISSION THE SYSTEM AND CERTIFY THAT THE INSTALLATION IS COMPLETE AND READY FOR PUNCHLISTING BY THE THEATRE CONSULTANT. IF SUBSTANTIAL PORTIONS OF THE INSTALLATION ARE NOT COMPLETE, REQUIRING THE CONSULTANT TO MAKE ANOTHER PUNCHLIST TRIP, THE CONTRACTOR SHALL COMPENSATE THE CONSULTANT FOR TIME SPENT AND TRAVEL EXPENSES. COMPENSATION SHALL BE AT THE CONSULTANT'S PREVAILING HOURLY AND PER DIEM RATES.		
3.3 INSTALLATION			A. THE WORK OF THIS SECTION INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE STAGE RIGGING AND DRAPERIES INSTALLATION, AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:			1.6 APPLICABLE STANDARDS			3.6 TRAINING		
A. ONLY TRAINED PERSONNEL SHALL INSTALL THE EQUIPMENT IN THIS SECTION.			1. MOTORIZED PIPE GRIDS			A. ALUMINUM ASSOCIATION:			A. DEPLOYMENT OF THE MOBILE CONTROL UNIT DESCRIBED ABOVE FOR PUNCHLISTING SHALL ALSO SERVE AS THE OWNER TRAINING SESSION.		
B. PROVIDE SCAFFOLDING AND PLATFORMS AS REQUIRED FOR INSTALLATION.			B. THE CONTRACTORS FOR THE ABOVE WORK WILL FURNISH THE CONTROL SYSTEM COMPONENTS. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE SYSTEM COMPONENTS, PROVIDE CONDUIT AND WIRE RUNS BETWEEN COMPONENTS, AND PERFORM ALL TERMINATIONS.			1. AA STANDARD AA-M12C22A41.			END OF SECTION		
C. WIRE ROPES SHALL BE ALIGNED AND MULED SO AS NOT TO TOUCH ANYTHING EXCEPT THEIR SHEAVE GROOVES AND TERMINATIONS.			C. ELECTRICAL SERVICE FOR THE ABOVE WORK IS SHOWN ON THE E-SERIES DRAWINGS.			2. AA STANDARD AA-M12C22A42/44.					
D. TURNBUCKLES SHALL BE MOUSED WITH PLASTIC TIE WRAP AFTER ADJUSTMENT. WIRE MOUSING IS NOT ACCEPTABLE.			D. THE TR-SERIES CONTRACT DRAWINGS PROVIDE BLOCK DIAGRAMS AND EQUIPMENT LOCATIONS. THE FINAL DESIGN OF THE CONTROL SYSTEMS IS THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTORS, WHO WILL SUPERVISE THE ELECTRICAL CONTRACTOR'S WORK.			B. AMERICAN INSTITUTE OF STEEL CONSTRUCTION: AISC MANUAL OF STEEL CONSTRUCTION					
E. SHACKLE SCREW PINS SHALL BE MOUSED WITH PLASTIC TIE WRAP. WIRE MOUSING IS NOT ACCEPTABLE.						C. AMERICAN PLYWOOD ASSOCIATION: US. PRODUCT STANDARD PS 1-83					
F. WIRE ROPE CLIPS SHALL BE SPACED AND BOLTS SHALL BE TIGHTENED TO THE MANUFACTURER'S RECOMMENDED TORQUE.						D. AMERICAN SOCIETY FOR TESTING AND MATERIALS					
G. ATTACH NICOPRESS SLEEVES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. CHECK THE CRIMPS WITH THE MANUFACTURER'S GO/NO-GO GAUGE. CHECK THE ADJUSTMENT OF THE NICOPRESS TOOL AFTER EVERY 50 CRIMPS. MAXIMIZE THE NUMBER OF IN-SHOP NICOPRESS ATTACHMENTS.						1. ASTM A36: STANDARD SPECIFICATION FOR STRUCTURAL STEEL.					
H. USE LOCK WASHERS WITH ALL PIPE CLAMPS.						2. ASTM A283: STANDARD SPECIFICATION FOR LOW AND INTERMEDIATE TENSILE STRENGTH CARBON STEEL PLATES.					
I. SECURE ALL LOOSE EQUIPMENT, TOOLS AND DEBRIS FROM FALLING FROM THE GRIDIRON AND GALLERIES DURING ALL PHASES OF THE INSTALLATION.						3. ASTM A307: STANDARD SPECIFICATION FOR CARBON STEEL BOLTS AND STUDS, 60,000 PSI TENSILE STRENGTH.					
J. AT THE END OF EACH DAY DURING THE INSTALLATION PERIOD, REMOVE ALL REFUSE AND SCRAP MATERIALS TO COLLECTION POINTS SPECIFIED BY THE OWNER UPON COMPLETION OF THE INSTALLATION. LEAVE ALL AREAS BROOM CLEAN.						4. ASTM A325: STANDARD SPECIFICATION FOR HIGH-STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS.					
K. LOCATE ALL LOOSE SYSTEM PARTS AS DIRECTED BY THE OWNER.						5. ASTM A500: STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES.					
						6. ASTM A501: STANDARD SPECIFICATIONS FOR HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING.					
						7. ASTM A570: STANDARD SPECIFICATION FOR STEEL, SHEET AND STRIP, CARBON, HOT-ROLLED, STRUCTURAL QUALITY.					
						8. ASTM B209: STANDARD SPECIFICATION FOR ALUMINUM-ALLOY SHEET AND PLATE.					
						E. AMERICAN WELDING SOCIETY (AWS):					
						1. AWS D1.1 STRUCTURAL WELDING CODE-STEEL.					
						2. AWS D1.3 STRUCTURAL WELDING CODE-SHEET STEEL, SECOND EDITION.					
						F. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): NFPA 102: STANDARD FOR ASSEMBLY SEATING, TENTS, AND MEMBRANE STRUCTURES.					

PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

735 ANDERSON HILL RD
PURCHASE, NY 10577-1400

STRUCTURAL ENGINEER



STAGE CONSULTANT



300 Raritan Ave, 2nd Flr
Highland Park, NJ 08904
732.333.8003
stagesconsultants.com

2.	ISSUE FOR BID	06/18/2018
1.	ISSUE FOR BUDGETING	06/04/2018
NO.	REVISION/ISSUE	DATE

SEAL

PROJECT
**INTERIOR RENOVATION
MUSIC SOUND STAGE RIGGING**

DATE:	06/18/2018
PROJECT NO:	SU-062018
DRAWN BY:	SEM
CHECKED BY:	AS
SCALE:	AS NOTED

DRAWING TITLE

**THEATRE RIGGING
SPECIFICATIONS**

SHEET NO.

TR2.02