

PLANS FOR THE CONSTRUCTION OF: RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER OROVILLE, CALIFORNIA

GENERAL NOTES

- GENERAL NOTES APPLY TO ALL DRAWINGS.
- ALL DIMENSIONS ARE ACTUAL UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CHASE SEIZES WITH ELECTRICAL SUBCONTRACTOR.
- GENERAL CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF CONCRETE ELECTRICAL EQUIPMENT PADS.
- LOCATE CONTROL JOINTS WHERE SHOWN ON THE DRAWINGS. SEE DETAILS AND CONSTRUCTION DRAWINGS. LOCATE CONTROL JOINTS WHERE CONCRETE ABUTS STRUCTURAL ELEMENTS DISSIMILAR WALL OR OTHER VERTICAL PENETRATION.
- ELECTRICAL PLANS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, CONDUIT, WIRING, EQUIPMENT, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING AND EXISTING CONDITION. LOCATION OF THESE ITEMS MAY BE ADJUSTED CONDITIONAL UPON THE SATISFACTORY COMPLIANCE WITH ALL OTHER REQUIREMENTS.
- ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTORS BID.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL OF ALL DEBRIS GENERATED BY CONSTRUCTION OF THIS PROJECT. THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS SHALL BE IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. THE PREMISES SHALL BE KEPT CLEAN AND FREE FROM ALL WASTE MATERIALS.
- THE GENERAL CONTRACTOR SHALL PROTECT NEW CONSTRUCTION FROM DAMAGE BY ALL TRADES. ALL SUCH DAMAGE CAUSED BY THE CONTRACTOR DURING THE COURSE OF THIS WORK SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND FIELD CONDITION PRIOR TO ORDERING OR INSTALLING MATERIALS OR EQUIPMENT.

PROJECT DESCRIPTION

SCOPE OF WORK:

- NEW 2333 SF FREESTANDING OUTDOOR STEEL BEAM COVERED SHADE STRUCTURE, USED FOR SHADE OR WEATHER PROTECTION, SUPPORTED ENTIRELY BY STEEL COLUMNS OR POSTS AND NOT ATTACHED TO OR SUPPORTED BY A UNIT OR OTHER ACCESSORY STRUCTURE.
- NEW 998 SF CONCRETE STAGE USED FOR PUBLIC EVENTS AND CLASSES
- SITE IMPROVEMENTS OF EXISTING LANDSCAPE AND IRRIGATION ELEMENTS

A.P. NUMBER AND ZONING:
ASSESSORS PARCEL NUMBER 035-280-0154 AND IS ZONED PQ (PUBLIC OR QUASI-PUBLIC FACILITIES)

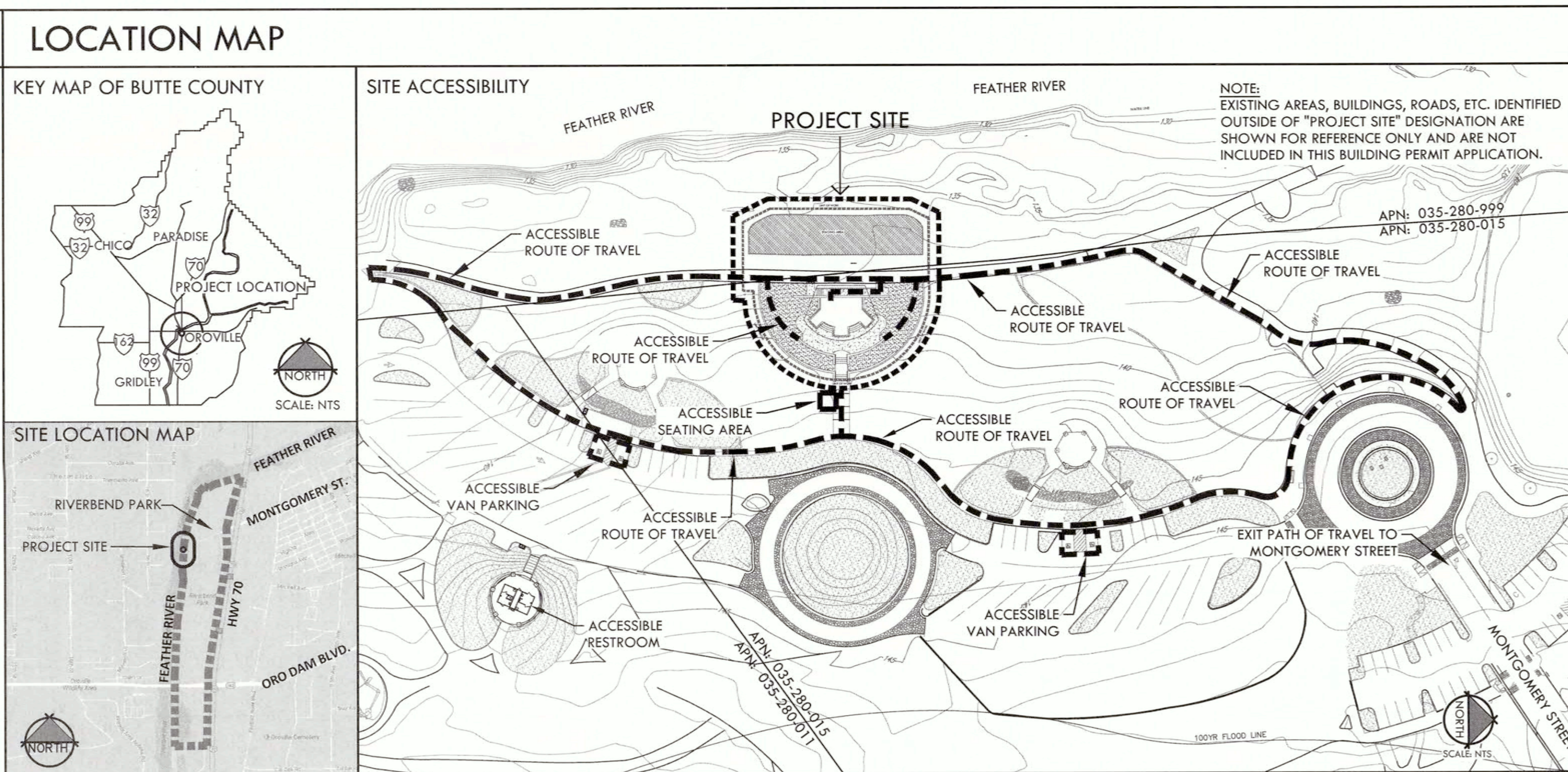
ACCESSIBILITY:
THE PROJECT SITE IS WITHIN AN EXISTING PARK THAT IS CERTIFIED ACCESSIBLE. ALL NEWLY DESIGNED AREAS SHALL BE MADE ACCESSIBLE. NEW CONSTRUCTION TO BE FULLY COMPLIANT.

FLOODWAY:
THE PROJECT SITE IS LOCATED IN A KNOWN FLOODWAY. THE STRUCTURE IS DESIGNED FOR INTERMITTENT USE AND IS NOT INTENDED FOR CONTINUOUS HABITATION.

BUILDING SETBACKS:
THE PROJECT SITE IS LOCATED AT THE SOUTHWEST CORNER OF PARCEL APN 035-280-015. THE ADJACENT PROPERTY TO THE WEST IS OPEN SPACE WITH NO POSSIBILITY OF FUTURE DEVELOPMENT. THE ADJACENT PROPERTIES TO THE NORTH, EAST AND WEST ARE OWNED BY THE FEATHER RIVER RECREATION & PARK DISTRICT AND COMPRISE RIVERBEND PARK.

BUILDING CLASSIFICATIONS AND SITE INFORMATION:

- OCCUPANCY GROUP: A-5
- TYPE OF CONSTRUCTION: TYPE 11A (ISO 4)
- STORIES: 1
- ROOF AREA: 2066 SF
- STAGE AREA: 1033 SF



INSPECTIONS AND TESTING

INSPECTION CHECK BOX	DESCRIPTION	INSPECTOR INITIALS	DATE
<input type="checkbox"/>	CONSTRUCTION MANAGEMENT PLAN		
<input type="checkbox"/>	MATERIAL SUBMITTAL PACKAGE		
<input type="checkbox"/>	PRE-CONSTRUCTION MEETING		
<input type="checkbox"/>	ROUGH GRADE & STAKING		
<input type="checkbox"/>	FOOTINGS AND FOUNDATION FORMS		
<input type="checkbox"/>	CONCRETE FINISH & SCORE LINE SAMPLE		
<input type="checkbox"/>	CONCRETE FINISH & SCORE LINE SAMPLE		
<input type="checkbox"/>	ELECTRICAL ROUGH IN		
<input type="checkbox"/>	CONCRETE SLAB AND UNDER-FLOOR		
<input type="checkbox"/>	STRUCTURAL STEEL FRAME AND BOLTING		
<input type="checkbox"/>	STRUCTURAL CONCRETE		
<input type="checkbox"/>	EXPANSION JOINT & SCORE LINE LAYOUT		
<input type="checkbox"/>	DRAINAGE LAYOUT AND INSTALLATION		
<input type="checkbox"/>	FINE GRADING INSPECTION		
<input type="checkbox"/>	LANDSCAPE BOULDERS & AMENITIES LAYOUT		
<input type="checkbox"/>	PLANT INSPECTION AND LAYOUT		
<input type="checkbox"/>	IRRIGATION INSPECTION		
<input type="checkbox"/>	SUBSTANTIAL COMPLETION INSPECTION		
<input type="checkbox"/>	CLOSE OUT DOCUMENTS/RECORD DRAWINGS		
<input type="checkbox"/>	NOTIFICATION - START OF MAINTENANCE		
<input type="checkbox"/>	FINAL OBSERVATION		
<input type="checkbox"/>	GENERAL CONFORMANCE LETTER		
<input type="checkbox"/>	OTHER:		
<input type="checkbox"/>	OTHER:		

NOTE:
THIS LIST OF REQUIRED SUBMITTALS AND INSPECTIONS IS FOR REFERENCE PURPOSES ONLY. VERIFY ALL INSPECTIONS AND MATERIAL TESTING REQUIREMENTS WITH CITY OF OROVILLE BUILDING DEPARTMENT PER PROJECT PERMITS. CONSTRUCTION OR WORK REQUIRING INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED. NEITHER THE BUILDING OFFICIAL, DESIGNATED PROJECT INSPECTOR NOR OWNER SHALL BE LIABLE FOR EXPENSE ENTAILLED IN THE REMOVAL OR REPLACEMENT OF ANY MATERIAL REQUIRED TO ALLOW INSPECTION. MINIMUM OF TWO WORKING DAYS NOTICE REQUIRED FOR ALL INSPECTIONS.

SIGNATURE BLOCK

REVIEWED BY: GREG MELTON, CALIFORNIA RLA No. 4217
DATE: 2/22/20

APPROVED FOR CONSTRUCTION BY: SHAWN ROHRBACKER, GENERAL MANAGER, FEATHER RIVER RECREATION AND PARK DISTRICT
DATE: 2/4/2020

PROJECT TEAM

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PAIGE GIMBAL, PROJECT MANAGER
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EMAIL: DAVIDD@ICONSHelters.COM

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EMAIL: CABSHIER@PACEENGINEERING.US

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EMAIL: KYLE@PARKPLANET.COM

INDEX OF DRAWINGS

L-0.0	TITLE SHEET
L-0.1	EROSION CONTROL
L-1.0	GRADING & DEMOLITION PLAN
L-1.1	LAYOUT PLAN
L-2.0	CONSTRUCTION PLAN
L-2.1	CONSTRUCTION ELEVATIONS
L-2.2	CONSTRUCTION ELEVATIONS AND DETAILS
L-2.3	CONSTRUCTION DETAILS
L-3.0	PLANTING PLAN AND DETAILS
L-4.0	IRRIGATION PLAN AND DETAILS
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STRUCTURAL - STAGE WALL	
S-1	FOUNDATION PLANS & DETAILS
SHEET TOTAL: 1	
STRUCTURAL - ICON SHELTER SYSTEMS (60X46TS-P2.5)	
1.0	COVER SHEET, ELEVATION, AND ANCHOR BOLT LAYOUT
2.0	FRAME LAYOUT AND FRAME CONNECTIONS
3.0	T&G ROOF LAYOUT AND SS ROOF LAYOUT
4.0	ROOF CONNECTIONS
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ELECTRICAL	
E-0.0	ELECTRICAL SPECIFICATIONS
E-0.1	ELECTRICAL SCHEDULES
E-1.1	ELECTRICAL SITE PLAN
E-2.1	ELECTRICAL PLANS
E-3.1	TITLE 24 OUTDOOR DOCUMENTS
E-3.2	TITLE 24 ELECTRICAL DOCUMENTS
SHEET TOTAL: 6	
TOTAL SHEET COUNT: 21	

CODE SUMMARY

APPLICABLE CODES EFFECTIVE FEBRUARY 2020

Title 19 CCR, Public Safety, State Fire Marshal Regulations
Title 24 CCR, Part 1 - 2019 California Administrative Code
Title 24 CCR, Part 2 - 2019 California Building Code (CBC) (Vol. 1 & 2) (2018 IBC)
Title 24 CCR, Part 2.5 - 2019 California Residential Code
Title 24 CCR, Part 3 - 2019 California Electrical Code (CEC)
Title 24 CCR, Part 4 - 2019 California Mechanical Code (CMC) (2018 UMC)
Title 24 CCR, Part 5 - 2019 California Plumbing Code (CPC) (2018 UPC)
Title 24 CCR, Part 6 - 2019 California Energy Code
Title 24 CCR, Part 9 - 2019 California Fire Code (FC) (2018 IFC)
Title 24 CCR, Part 11 - 2019 California Green Building Standard Code (CGBCS)
Title 24 CCR, Part 12 - 2019 California Referenced Standards

LICENSE

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FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT

RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE

TITLE SHEET

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/21/20
2.	--	--
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6.	--	--
7.	--	--
8.	--	--

PLOT DATE: --

PROJECT NUMBERS

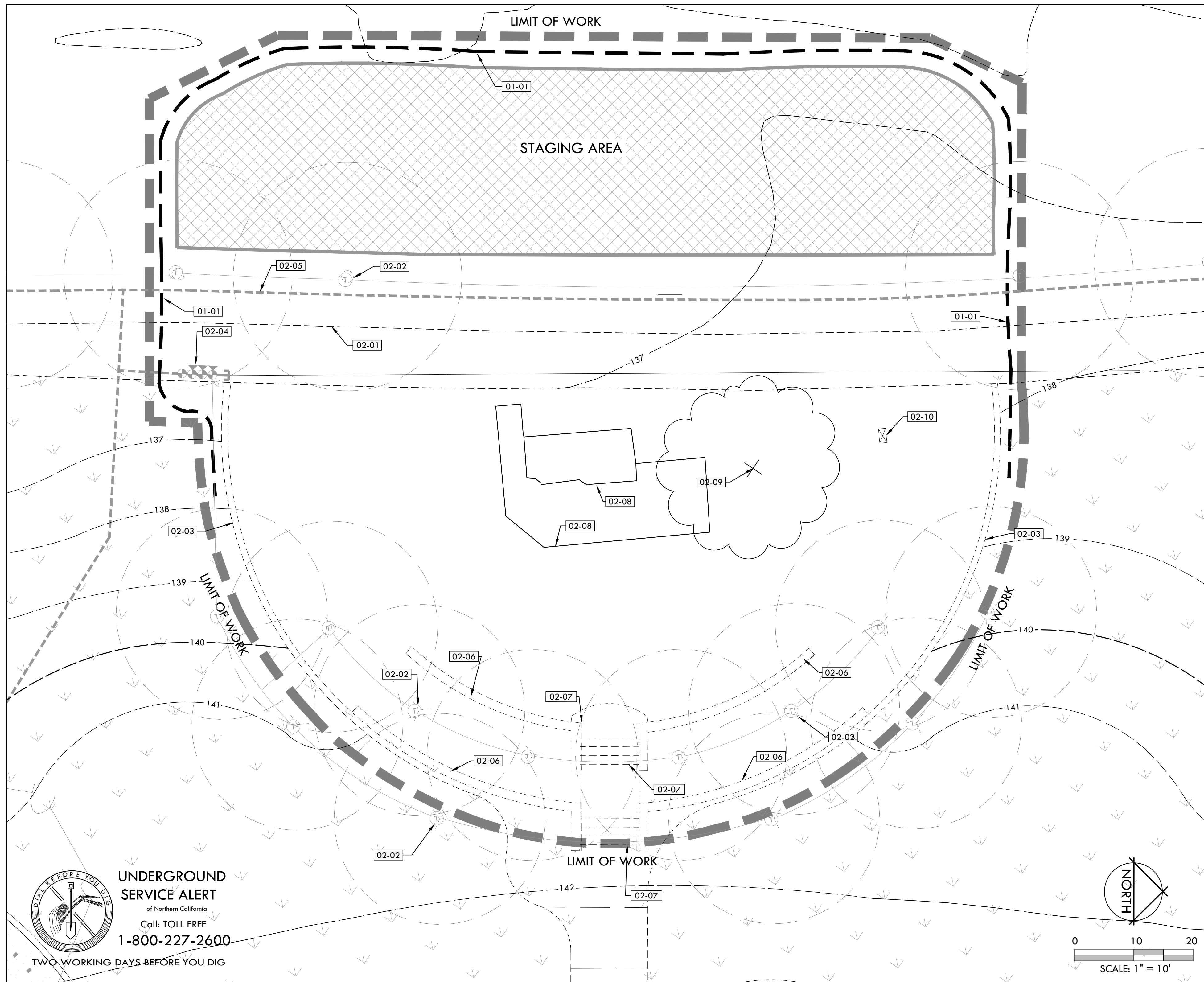
MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER

L-0.0

SHEET 1 OF 21

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UNDERGROUND SERVICE ALERT
of Northern California
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

EROSION CONTROL NOTES:

- CONTRACTOR TO SECURE CONSTRUCTION SITE AND STAGING AREA WITH TEMPORARY 6' TALL CHAIN LINK FENCE AND ACCESS GATES. CONTRACTOR TO PROPOSE FENCE LAYOUT AND HAVE APPROVED BY THE DISTRICT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING EXISTING STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OR SUBMITTING NEW SWPPP ACCORDING TO STATE WATER RESOURCES CONTROL BOARD (SWRCB) REQUIREMENTS IF IT IS REQUIRED.
- CONTRACTOR STORM WATER POLLUTION PREVENTION PLAN SHALL BE AVAILABLE ON-SITE AT ALL TIMES.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SWRCB REQUIREMENTS.
- EROSION CONTROL TO BE IN PLACE BEFORE START OF CONSTRUCTION AND INCLUDE ALL STAGING AREAS.
- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE IN PLACE PRIOR TO CONSTRUCTION. SEE DETAIL 2/L-0.1
- CONTRACTOR SHALL PROVIDE STRAW BALE OR STRAW WATTLE AT ALL INLETS (NEW CONSTRUCTION AND/OR EXISTING) IN AREAS OF WORK.
- CONTRACTOR SHALL PROVIDE STRAW WATTLE/SILT FENCE AT TOE OF SLOPE IN AREAS OF NEW WORK AND IN AREAS REQUIRED BY THE SWPPP.
- WATTLES MAY BE USED IN-LEU OF STRAW BALES. SEE DETAIL 3, THIS SHEET.
- EROSION CONTROL SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT PRODUCTS.
- EACH WATTLE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF THREE INCHES WHERE POSSIBLE.
- WATTLES SHALL BE SECURELY ANCHORED IN PLACE BY STAKE OR RE-BARS DRIVEN THROUGH THE WATTLE.
- INSPECTIONS BY CONTRACTOR SHALL BE FREQUENT. REPAIRS AND/OR REPLACEMENTS SHALL BE MADE PROMPTLY AS REQUIRED AT THE COST OF THE CONTRACTOR.
- EROSION CONTROL SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO IMPEDE FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED, WHEN IT REACHES A DEPTH OF TWO INCHES AT WATTLES.
- PRIOR TO PLACEMENT OF LANDSCAPING AND/OR FINISHED GROUND SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES AND ACCUMULATED SILT.
- CONTRACTOR SHALL MAINTAIN ALL STRAW BALE/SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. SILT BUILDUP IN SILTING BASIN AREA SHALL BE REMOVED AS NECESSARY. REMOVE ALL BALES AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION.

EROSION CONTROL LEGEND:

SYMBOL	DESCRIPTION
EXISTING CONDITIONS:	
	EXISTING HARDSCAPES - RETAIN AND PROTECT
	EXISTING TOPOGRAPHICAL CONTOUR - 5' INTERVALS
	EXISTING TOPOGRAPHICAL CONTOUR - 1' INTERVALS
	TREE PROTECTION PER GRADING PLAN
	PROJECT LIMIT OF WORK
	FIBER ROLLS (WATTLES), DETAIL 1/L-0.1

EXISTING CONDITIONS NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND RETAIN EXISTING HARDSCAPE, ASPHALT PATHS, LANDSCAPING, IRRIGATION, ETC. THAT ARE NOT DESIGNATED FOR DEMOLITION OR MODIFICATION.
- CONTRACTOR SHALL COVER EXISTING ASPHALT PATHS, ROADWAYS, CURBS, MOW CURBS AND OTHER ELEMENTS TO PROTECT FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DAMAGED SURFACES, AMENITIES, HARDSCAPES, LANDSCAPE, IRRIGATION, ETC. DUE TO HIS/HER ACTIVITY OR NEGLIGENCE AND UPON APPROVAL BY THE DISTRICT.

REFERENCE NOTES

SYMBOL	01 GENERAL DESCRIPTION	DETAIL
01-01	AMPHITHEATER EROSION CONTROL FIBER WATTLE PLACED AS SHOWN ON PLAN AND PER SWPPP REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SWPPP PLAN AS NEEDED PRIOR TO START OF CONSTRUCTION. SEE SPECIFICATIONS.	L-0.1
SYMBOL	02 EXISTING CONDITIONS DESCRIPTION	DETAIL
02-01	(E) ASPHALT PATH; RETAIN AND PROTECT	--
02-02	(E) TREE AND TREE DRIP IRRIGATION RING; RETAIN AND PROTECT. DO NOT EXCAVATE WITHIN 5'. SEE TREE PROTECTION NOTES SHEET L-1.0	--
02-03	(E) MOW CURB - RETAIN AND PROTECT	--
02-04	(E) IRRIGATION MAIN LINE VALVES - RETAIN AND PROTECT.	--
02-05	(E) IRRIGATION MAINLINE AND CONDUIT - RETAIL AND PROTECT	--
02-06	(E) AMPHITHEATER SEAT WALL - RETAIN AND PROTECT	--
02-07	(E) AMPHITHEATER STAIRS AND HANDRAILS; RETAIN AND PROTECT	--
02-08	(E) AMPHITHEATER CONCRETE STAGE; DEMOLITION STAGE AND ALL ABOVE AND BELOW ELEMENTS AND DISPOSE OF OFFSITE.	--
02-09	(E) 24" TREE; REMOVE AND DISPOSE OF OFFSITE. GRIND STUMP TO 6" BELOW ROUGH GRADE. SEE GRADING SHEET L-2.0	--
02-10	(E) ELECTRIC PEDESTAL AND BOX - DISCONNECT POWER FROM MSB AND DEMO PEDESTAL AND BOX. ABANDON WIRES IN FIELD. MARK LOCATION ON RECORD DRAWINGS.	--

SHEET NOTES:

- SEE CONSTRUCTION PLAN SHEET L-2.0 FOR COMPLETE REFERENCE NOTE SCHEDULE
- SEE LAYOUT SHEET L-1.1 FOR TREE PROTECTION MEASURES



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FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT

RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE

EROSION CONTROL PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/21/20
2.	--	--
3.	--	--
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6.	--	--
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PLOT DATE: --

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

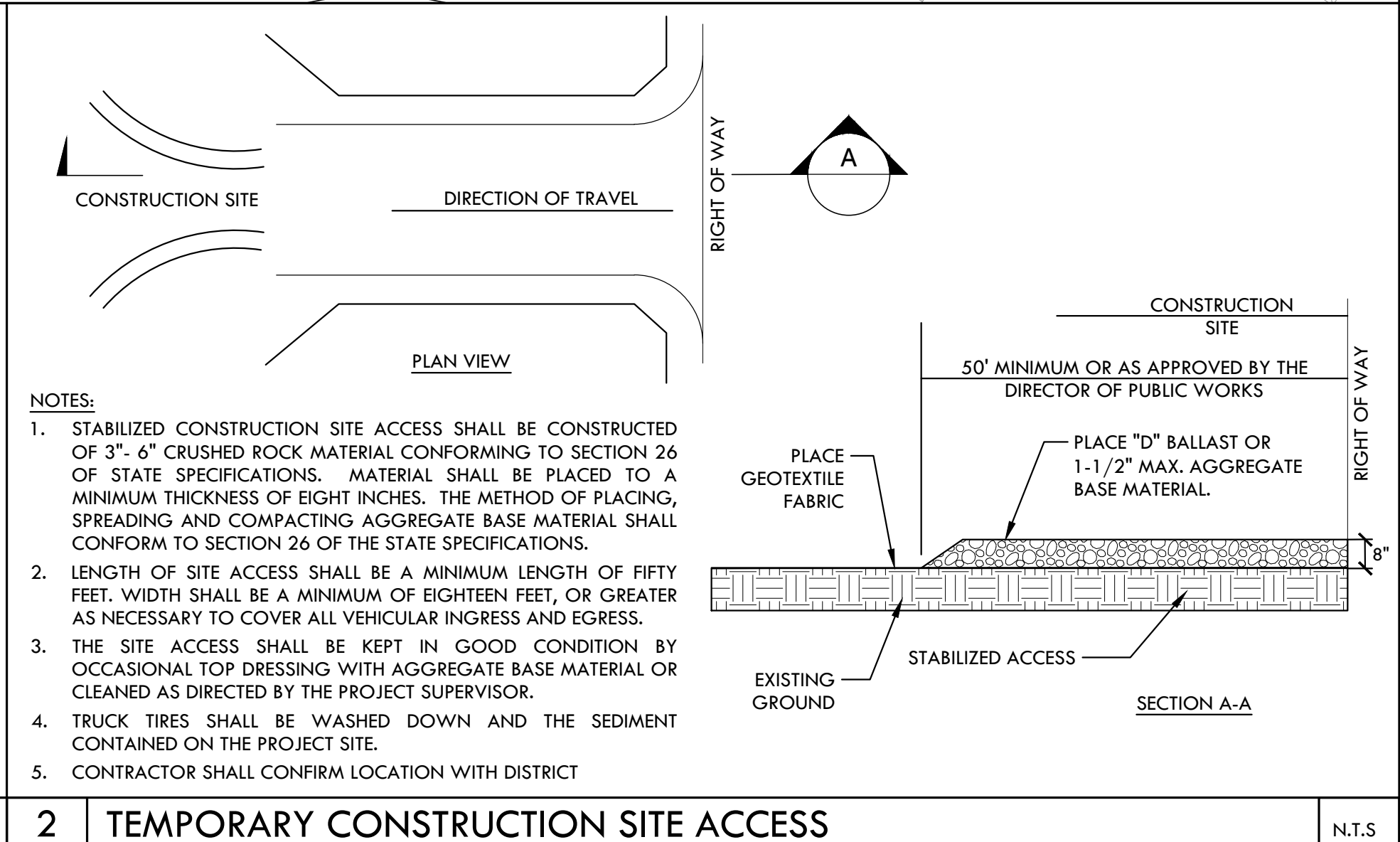
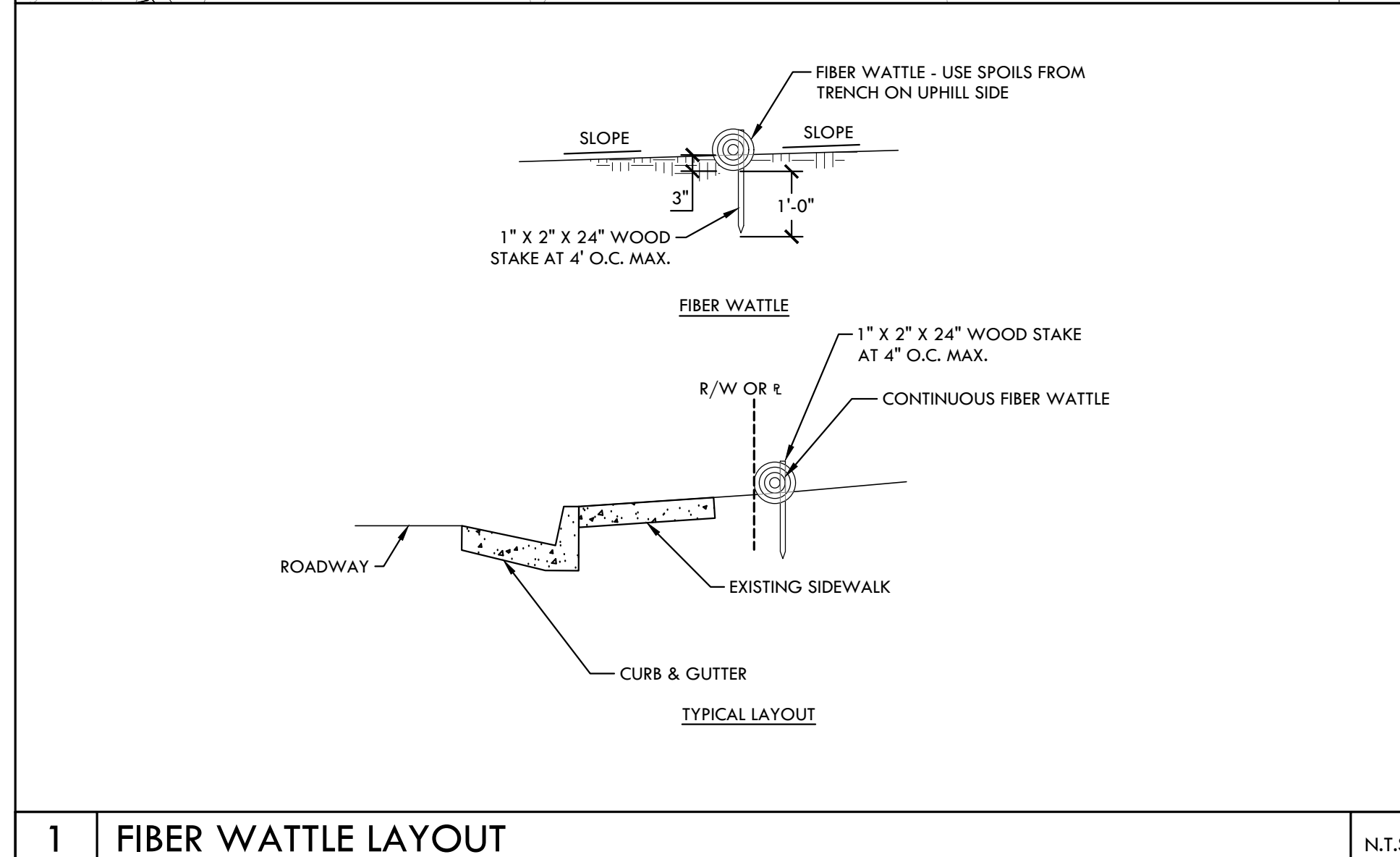
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L-0.1

SHEET 2 OF 21

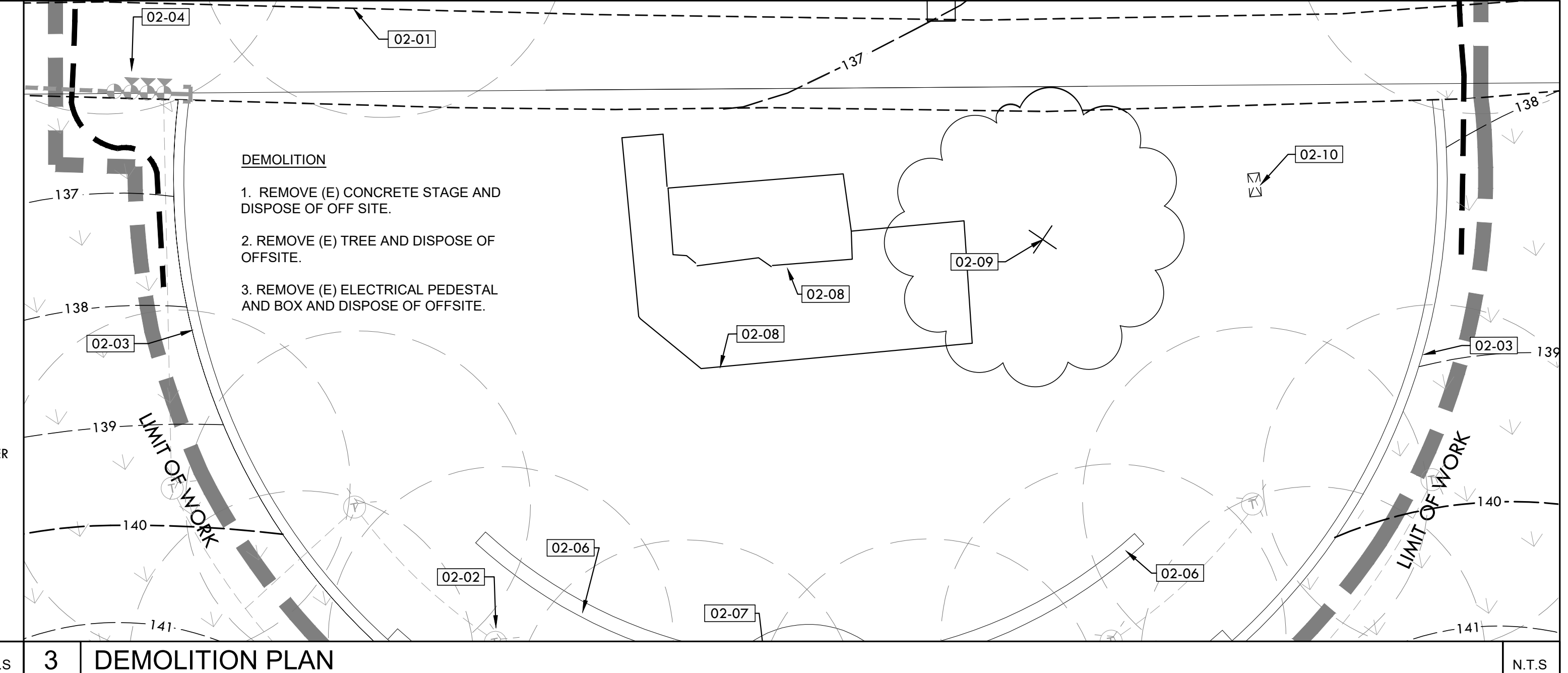
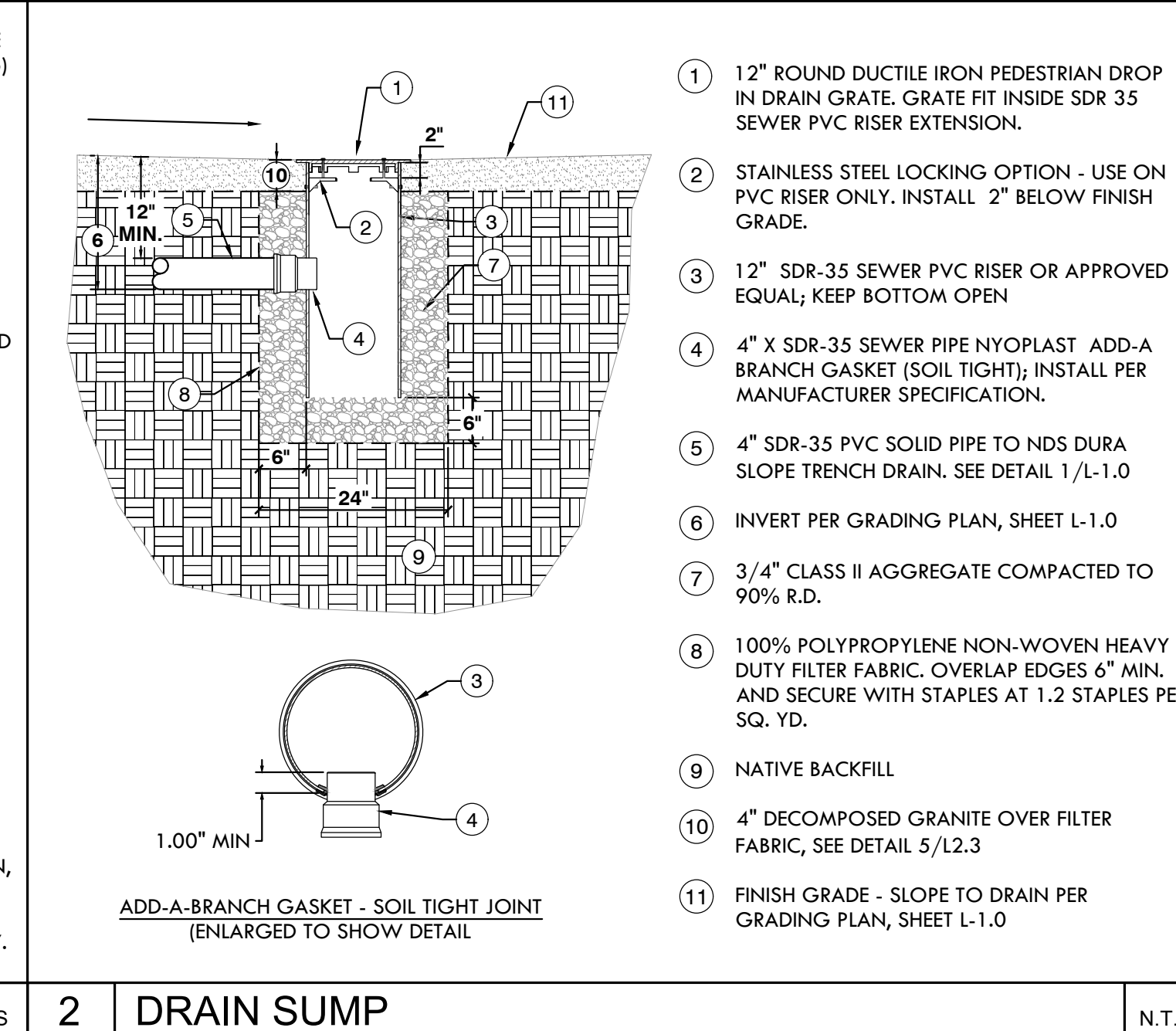
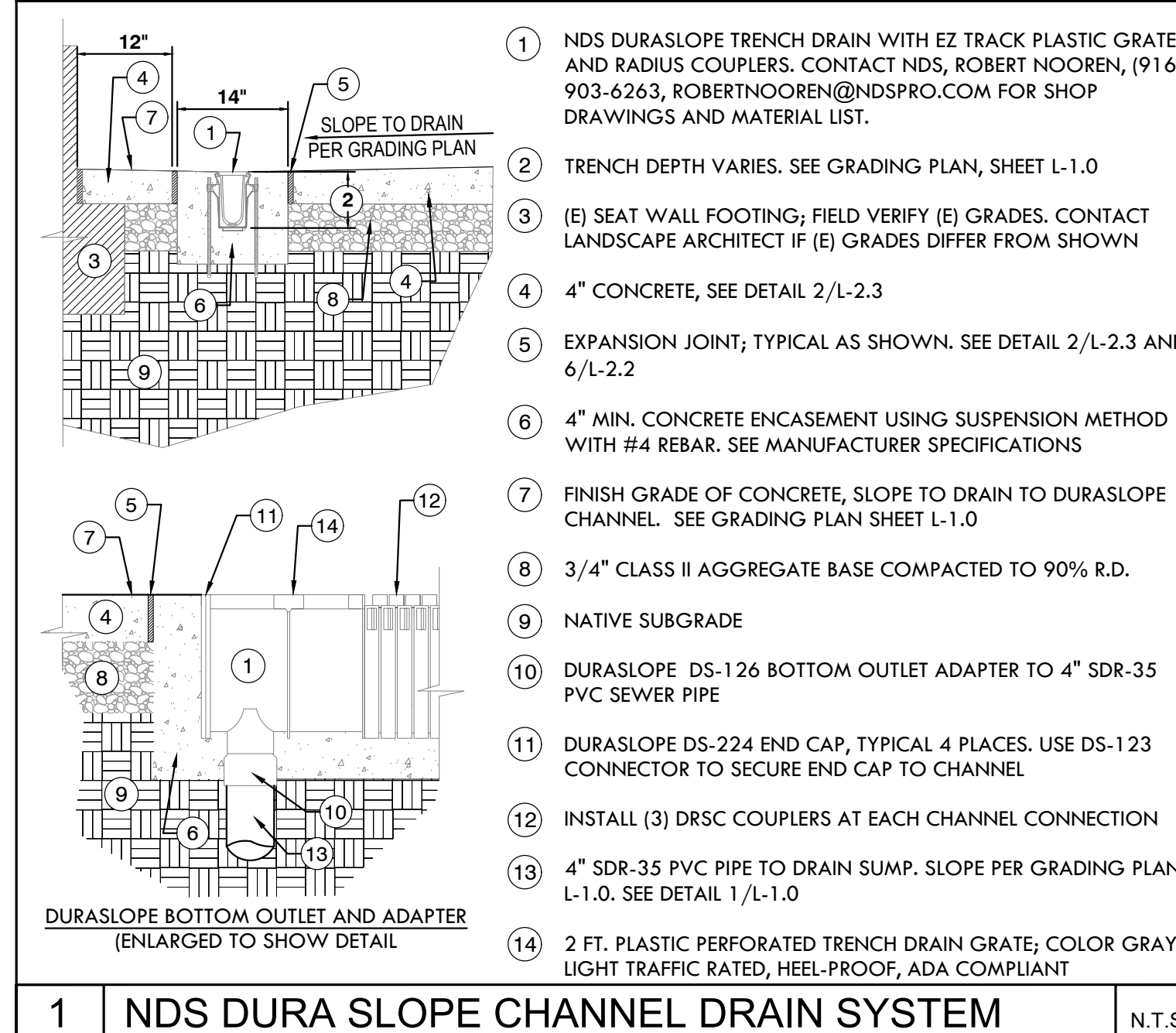
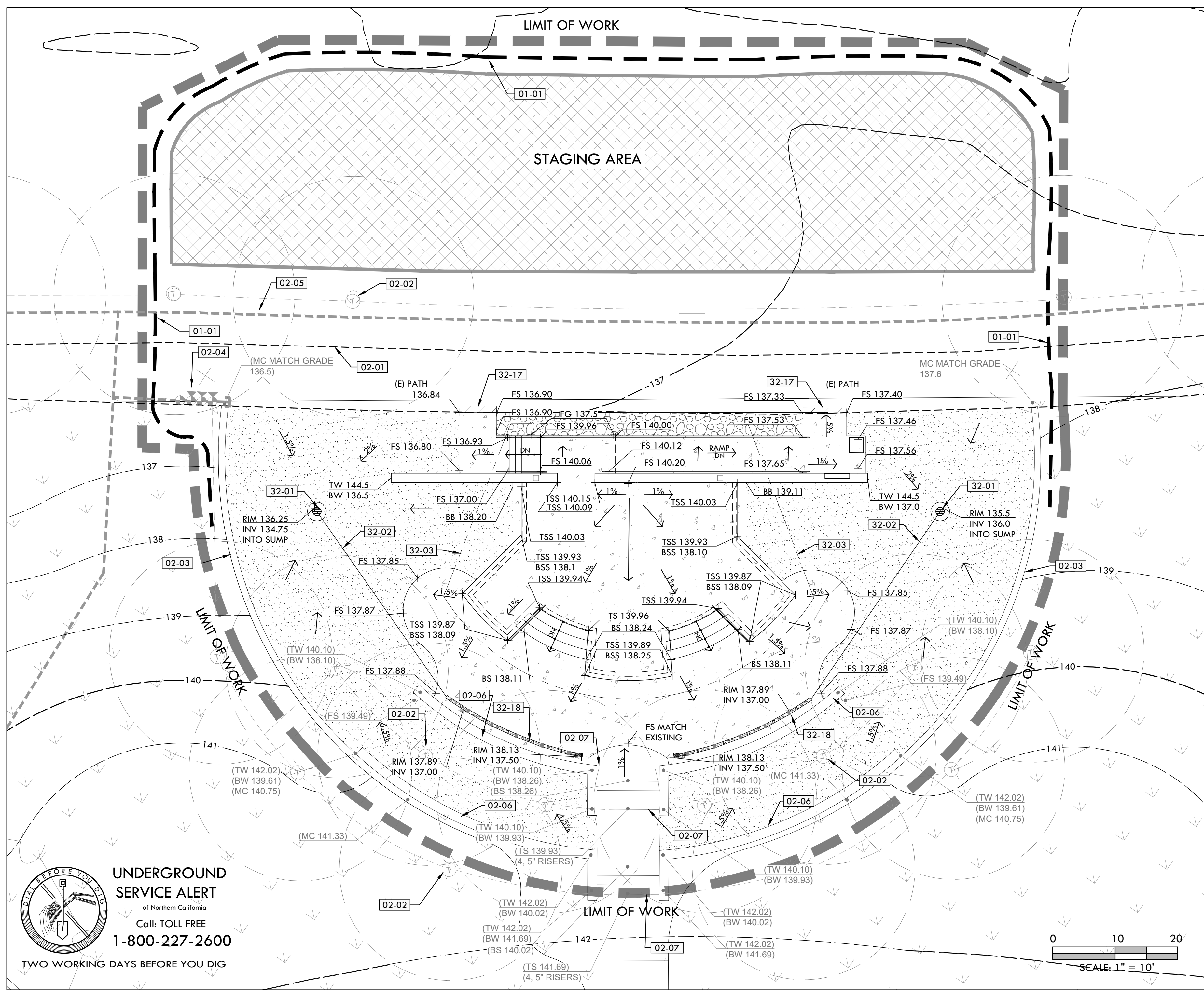
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PLOT DATE: MARCH 3, 2020 - 5:00 PM



1 FIBER WATTLE LAYOUT N.T.S.

2 TEMPORARY CONSTRUCTION SITE ACCESS N.T.S.



TREE PROTECTION MEASURES

- THE NATURAL GRADE AROUND THE DRIPLINE OF EXISTING TREES SHALL REMAIN UNDISTURBED DURING AND AFTER CONSTRUCTION. PREFERABLY, THE UNDISTURBED AREA SHALL BE AT DRIPLINE, BUT IN NO CASE CLOSER THAN 20 FEET FROM THE TREE TRUNK. THE DRIPLINE OF A TREE IS A PROJECTED RADIUS ON THE GROUND FORMED BY THE OUTERMOST EDGE OF THE TREE CANOPY.
- WHERE GRADE CHANGES MUST OCCUR WITHIN THE DRIPLINE, A SUITABLE MITIGATION PLAN SHALL BE DEVELOPED BY EITHER A CERTIFIED ARBORIST. THE PLAN SHALL PROTECT THE TREE FROM EXCESS FILL AND/OR THE REMOVAL OF EXCESS SOIL FROM THE ROOT ZONE.
- PRIOR TO THE BEGINNING OF CONSTRUCTION, EXISTING TREES SHALL BE PRUNED TO REMOVE LIMBS WHICH MAY BE DEAD OR MAY BECOME DAMAGED DURING CONSTRUCTION. PRUNING SHALL BE PERFORMED CONSISTENT WITH ANSI A300 PRUNING STANDARDS, PRUNE TO THIN 1 IN.
- A TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND ALL TREE TRUNKS WITHIN CONSTRUCTION ZONE. WRAP TRUNK 4 TIMES AND SECURE FENCING TO TRUNK FOR DURATION OF PROJECT. CONFIRM WITH LANDSCAPE ARCHITECT ON BOUNDARY. THE FENCE SHALL BE SUBSTANTIAL ENOUGH TO RESTRICT ACTIVITY TO OUTSIDE THE AREA AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR OTHER CONSTRUCTION ACTIVITY. DURING CONSTRUCTION, MAINTENANCE SHALL BE PERFORMED SO THAT THE FENCE REMAINS IN GOOD REPAIR. REMOVAL OF THE FENCE SHALL ONLY OCCUR TO ALLOW REQUIRED CONSTRUCTION WITHIN THE AREA OR TO COMPLETE SITE LANDSCAPING. THE LANDSCAPE ARCHITECT SHALL BE CONTACTED, PRIOR TO COMMENCEMENT OF CONSTRUCTION, TO INSPECT FENCING AND TO APPROVE ANY CONSTRUCTION WITHIN THE DRIPLINE.
- UNDERGROUND FACILITIES AND TRENCHES, (e.g., UTILITY SERVICES, SANITARY SEWER, OR STORM DRAINAGE LINES) SHALL BE CONSOLIDATED, TO THE EXTENT FEASIBLE, AND LOCATED TO MINIMIZE IMPACTS UPON TREE ROOT SYSTEMS. ANY TRENCHING OR UNDERGROUND WORK SHOULD BE LOCATED OUTSIDE OF THE TREE DRIPLINE. ANY TRENCHING REQUIRED WITHIN THE TREE DRIPLINE SHALL BE AS FAR FROM THE TREE TRUNK AS POSSIBLE AND SHALL BE EXCAVATED BY HAND TO MINIMIZE IMPACT ON ROOTS. ALL TRENCHING WITHIN THE DRIPLINE SHALL BE SUPERVISED BY A CERTIFIED ARBORIST.
- ROOTS 3/4 IN. OR GREATER IN SIZE ENCOUNTERED DURING TRENCHING SHALL BE CLEANLY CUT AND TREATED WITH A SEALING AGENT TO REDUCE LOSS OF MOISTURE TO THE TREE. ROOTS GREATER THAN 1-1/2 IN. SHALL BE PRESERVED AND PROTECTED AT THE DIRECTION OF A CERTIFIED ARBORIST.
- CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS SHALL NOT BE PARKED OR STORED WITHIN THE FENCED AREA. NO STAGING OR STORAGE AREA FOR CONSTRUCTION SHALL BE LOCATED CLOSER THAN 50 FEET TO THE DRIPLINE OF ANY TREE TO BE PROTECTED.
- ALL CONSTRUCTION WASTES, INCLUDING BUT NOT LIMITED TO BUILDING MATERIAL, DEBRIS, ROOFING MATERIALS, CLEANING OF CEMENT TRUCKS, CHEMICALS/ADHESIVES/SOLVENTS, ETC., SHALL BE STORED OR DISPOSED OF NO CLOSER THAN 50 FEET FROM ANY TREE DRIPLINE.

GENERAL GRADING NOTES

- CONTACT LANDSCAPE ARCHITECT PRIOR TO GRADING IN THE EVENT THAT EXISTING GRADES FOR CONDITIONS ARE NOT AS SHOWN ON PLANS.
- SLOPE DECOMPOSED GRANITE TO DRAIN TO DRAIN SUMP. ELIMINATE ALL LOCALIZED DEPRESSIONS OR "BIRD BATHS".
- PROVIDE SMOOTH CONTINUOUS CURVE AT TOPS AND BOTTOM OF SLOPES AND OVER FIELD GRADE.
- SMOOTH OUT TRANSITIONS TO ALL DRAIN INLETS. VERIFY RIM ELEVATIONS IN FIELD AT TIME OF STAKING WITH LANDSCAPE ARCHITECT PRIOR TO SETTING.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND BUILDINGS.
- BRING GRADE IN PLANTERS TO BE 2.5" BELOW SIDEWALK TO ALLOW FOR DECOMPOSED GRANITE.
- GRADE TURF AREA TO BE 2" BELOW SIDEWALK PRIOR TO SOD APPLICATION. BLEND SLOPE A MINIMUM OF 5' AWAY FROM SIDEWALK.
- DIGITAL COPY OF TOPOGRAPHIC PLAN IS AVAILABLE ON REQUEST.
- SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GRADING REFERENCE NOTES

SYMBOL	01 GENERAL DESCRIPTION	DETAIL
01-01	AMPHITHEATER EROSION CONTROL FIBER WATTLE PLACED AS SHOWN ON PLAN AND PER SWPPP REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SWPPP PLAN AS NEEDED PRIOR TO START OF CONSTRUCTION. SEE SPECIFICATIONS.	L-0.1
SYMBOL	02 EXISTING CONDITIONS DESCRIPTION	DETAIL
02-01	(E) ASPHALT PATH; RETAIN AND PROTECT	--
02-02	(E) TREE AND TREE DRIP IRRIGATION RING; RETAIN AND PROTECT. DO NOT EXCAVATE WITHIN 5'. SEE TREE PROTECTION NOTES SHEET L-1.0	--
02-03	(E) MOW CURB - RETAIN AND PROTECT	--
02-04	(E) IRRIGATION MAIN LINE VALVES - RETAIN AND PROTECT.	--
02-05	(E) IRRIGATION MAINLINE AND CONDUIT - RETAIN AND PROTECT	--
02-06	(E) AMPHITHEATER SEAT WALL - RETAIN AND PROTECT	--
02-07	(E) AMPHITHEATER STAIRS AND HANDRAILS; RETAIN AND PROTECT	--
02-08	(E) AMPHITHEATER CONCRETE STAGE; DEMOLITION STAGE AND ALL ABOVE AND BELOW ELEMENTS AND DISPOSE OFFSITE.	--
02-09	(E) 24" TREE, REMOVE AND DISPOSE OF OFFSITE. GRIND STUMP TO 6" BELOW ROUGH GRADE. SEE GRADING SHEET L-2.0	--
02-10	(E) ELECTRIC PEDESTAL AND BOX - DISCONNECT POWER FROM MSB AND DEMO PEDESTAL AND BOX. ABANDON WIRES IN FIELD. MARK LOCATION ON RECORD DRAWINGS.	--
SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	DETAIL
32-01	AMPHITHEATER DRAINAGE SUMP - SEE GRADING SHEET L-1.0. SEE DETAILS.	2/L-1.0
32-02	AMPHITHEATER 4" SDR-35 PVC DRAIN PIPE, SOLID. SEE DETAILS	2/L-1.0
32-17	AMPHITHEATER CONCRETE TO (E) ASPHALT PATH TRANSITION - SAW CUT ASPHALT TO CREATE CLEAN EDGE TO POUR CONCRETE AGAINST. SEE GRADING SHEET L-1.0. MATCH (E) GRADES.	--
32-18	AMPHITHEATER CHANNEL DRAIN - NDS DURA SLOPE TRENCH DRAIN WITH EX-TRACK RADIUS COUPLINGS AND PLASTIC GRATES (GRAY). CONTACT: NDS, ROBERT NOOREN (916) 879-1801 FOR SHOP DRAWINGS AND MATERIAL LISTS. SEE DETAILS.	2/L-1.0

GRADING LEGEND

SYMBOL	DESCRIPTION	ABBREVIATIONS
	EXISTING HARDSCAPE (RETAIN AND PROTECT)	FS FINISH CONCRETE SURFACE
	MINOR CONTOUR - 1' INTERVAL	FG FINISH GRADE
	MAJOR CONTOUR - 5' INTERVAL	TC TOP OF CURB
	DRAIN INLET	BC BOTTOM OF CURB
	EXISTING SPOT ELEVATION	TS TOP OF STAIR
	NEW SPOT ELEVATION	BS TOP OF STAIR
	NEW DRAIN RIM ELEVATION	TW TOP OF WALL ELEVATION
	DIRECTION AND PERCENT OF SLOPE - SLOPE TO DRAIN	BSW BOTTOM OF WALL ELEVATION
		RIM DRAIN SUMP RIM ELEVATION
		HP HIGH POINT
		TSS TOP SURFACE STAGE
		BSS BOTTOM SURFACE STAGE
		BB BOTTOM OF BENCH
		INV DRAIN PIPE INLET ELEVATION

EXISTING CONDITIONS NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND RETAIN EXISTING HARDSCAPE, ASPHALT PATHS, LANDSCAPING, IRRIGATION, ETC. THAT ARE NOT DESIGNATED FOR DEMOLITION OR MODIFICATION.
- CONTRACTOR SHALL COVER EXISTING ASPHALT PATHS, ROADWAYS, CURBS, MOW CURBS AND OTHER ELEMENTS TO PROTECT FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DAMAGED SURFACES, AMENITIES, HARDSCAPES, LANDSCAPE, IRRIGATION, ETC. DUE TO HIS/HER ACTIVITY OR NEGLIGENCE AND UPON APPROVAL BY THE DISTRICT.

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FEATHER RIVER
RECREATION AND
PARK DISTRICT

PROJECT

RIVERBEND PARK
RENOVATION PH 2
AMPHITHEATER

SHEET TITLE

GRADING AND
DEMOLITION
PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/21/20
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PLOT DATE: --

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

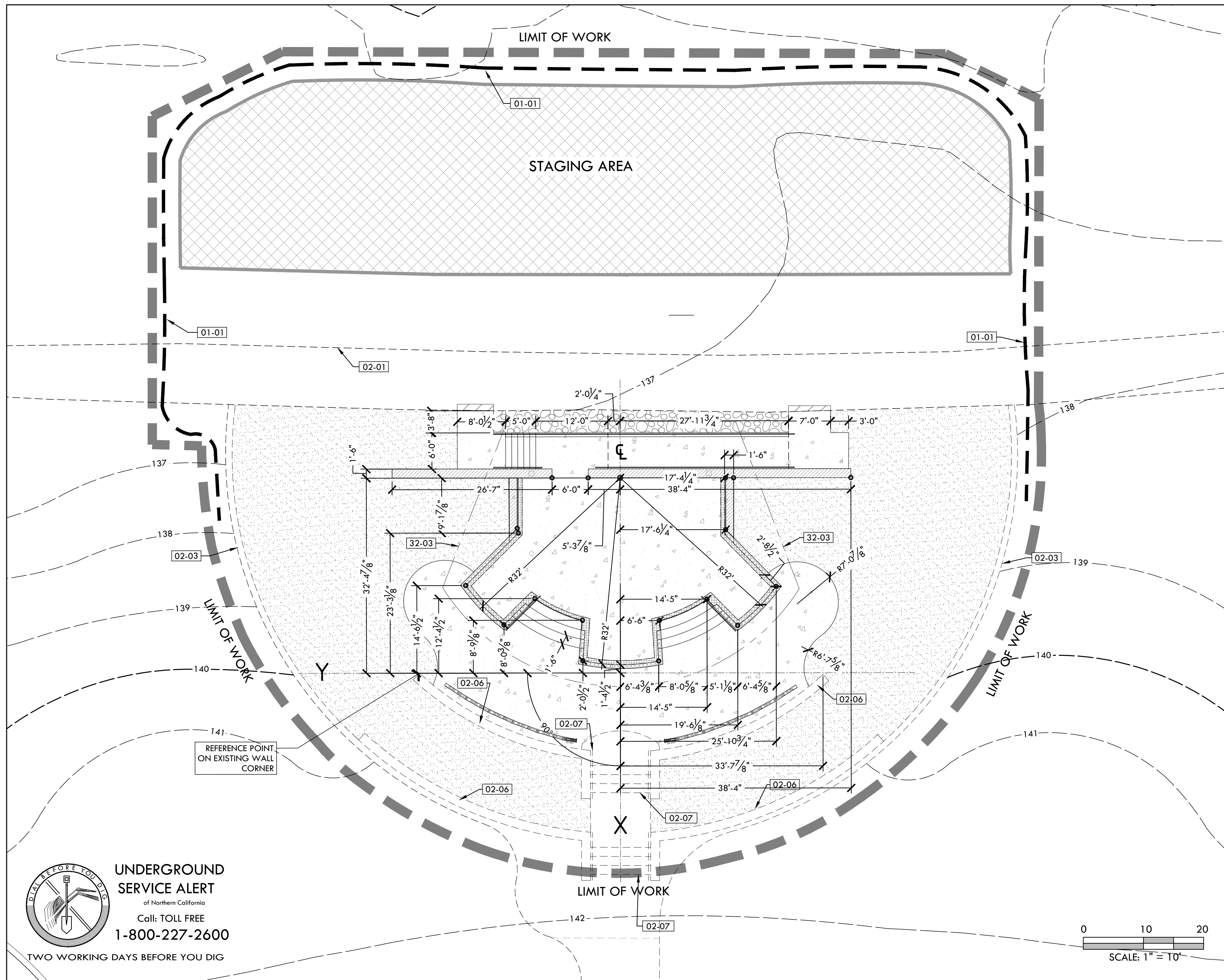
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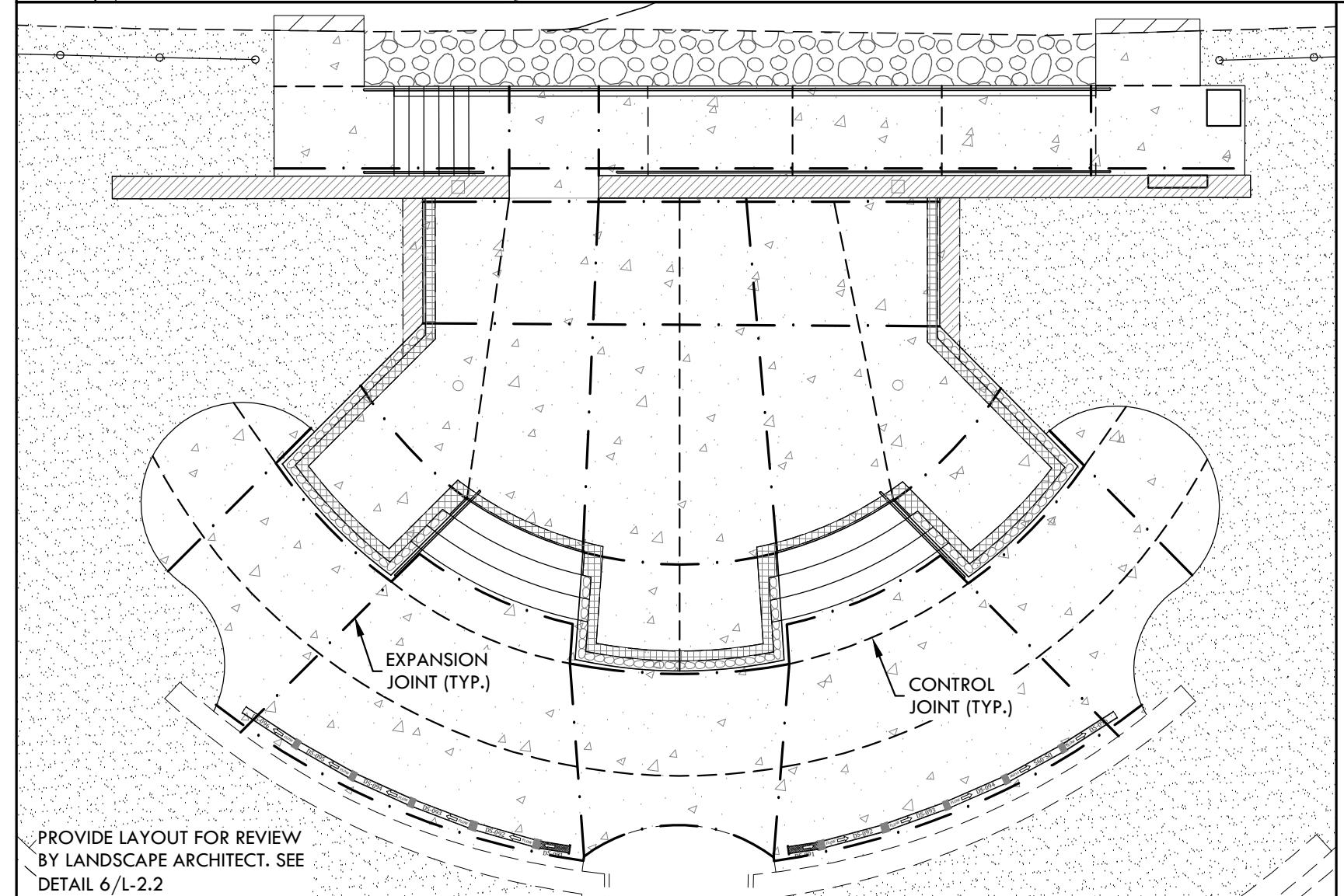
SHEET 3 OF 21

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PLOT DATE: MARCH 3, 2020 - 5:00 PM



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1 CONCRETE CONTROL JOINT & EXPANSION JOINT LAYOUT
SCALE: 1"=10'

TREE PROTECTION MEASURES

1. THE NATURAL GRADE AROUND THE DRIPLINE OF EXISTING TREES SHALL REMAIN UNDISTURBED DURING AND AFTER CONSTRUCTION. PREFERABLY, THE UNDISTURBED AREA SHALL BE AT DRIPLINE, BUT IN NO CASE CLOSER THAN 20 FEET FROM THE TREE TRUNK. THE DRIPLINE OF A TREE IS A PROJECTED RADIUS ON THE GROUND FORMED BY THE OUTERMOST EDGE OF THE TREE CANOPY.
2. WHERE GRADE CHANGES MUST OCCUR WITHIN THE DRIPLINE, A SUITABLE MITIGATION PLAN SHALL BE DEVELOPED BY EITHER A CERTIFIED ARBORIST. THE PLAN SHALL PROTECT THE TREE FROM EXCESS FILL AND/OR THE REMOVAL OF EXCESS SOIL FROM THE ROOT ZONE.
3. PRIOR TO THE BEGINNING OF CONSTRUCTION, EXISTING TREES SHALL BE PRUNED TO REMOVE LIMBS WHICH MAY BE DEAD OR MAY BECOME DAMAGED DURING CONSTRUCTION. PRUNING SHALL BE PERFORMED CONSISTENT WITH ANSI A300 PRUNING STANDARDS, PRUNE TO THIN 1 IN.
4. A TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND ALL TREE TRUNKS WITHIN CONSTRUCTION ZONE. WRAP TRUNK 4 TIMES AND SECURE FENCING TO TRUNK FOR DURATION OF PROJECT. CONFIRM WITH LANDSCAPE ARCHITECT ON BOUNDARY. THE FENCE SHALL BE SUBSTANTIAL ENOUGH TO RESTRICT ACTIVITY TO OUTSIDE THE AREA AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR OTHER CONSTRUCTION ACTIVITY. DURING CONSTRUCTION, MAINTENANCE SHALL BE PERFORMED SO THAT THE FENCE REMAINS IN GOOD REPAIR. REMOVAL OF THE FENCE SHALL ONLY OCCUR TO ALLOW REQUIRED CONSTRUCTION WITHIN THE AREA OR TO COMPLETE SITE LANDSCAPING. THE LANDSCAPE ARCHITECT SHALL BE CONTACTED, PRIOR TO COMMENCEMENT OF CONSTRUCTION, TO INSPECT FENCING AND TO APPROVE ANY CONSTRUCTION WITHIN THE DRIPLINE.
5. UNDERGROUND FACILITIES AND TRENCHES, (e.g., UTILITY SERVICES, SANITARY SEWER, OR STORM DRAINAGE LINES) SHALL BE CONSOLIDATED, TO THE EXTENT FEASIBLE, AND LOCATED TO MINIMIZE IMPACTS UPON TREE ROOT SYSTEMS. ANY TRENCHING OR UNDERGROUND WORK SHOULD BE LOCATED OUTSIDE OF THE TREE DRIPLINE. ANY TRENCHING REQUIRED WITHIN THE TREE DRIPLINE SHALL BE AS FAR FROM THE TREE TRUNK AS POSSIBLE AND SHALL BE EXCAVATED BY HAND TO MINIMIZE IMPACT ON ROOTS. ALL TRENCHING WITHIN THE DRIPLINE SHALL BE SUPERVISED BY A CERTIFIED ARBORIST.
6. ROOTS 3/4 IN. OR GREATER IN SIZE ENCOUNTERED DURING TRENCHING SHALL BE CLEANLY CUT AND TREATED WITH A SEALING AGENT TO REDUCE LOSS OF MOISTURE TO THE TREE. ROOTS GREATER THAN 1-1/2 IN. SHALL BE PRESERVED AND PROTECTED AT THE DIRECTION OF A CERTIFIED ARBORIST.
7. CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS SHALL NOT BE PARKED OR STORED WITHIN THE FENCED AREA. NO STAGING OR STORAGE AREA FOR CONSTRUCTION SHALL BE LOCATED CLOSER THAN 50 FEET TO THE DRIPLINE OF ANY TREE TO BE PROTECTED.
8. ALL CONSTRUCTION WASTES, INCLUDING BUT NOT LIMITED TO BUILDING MATERIAL DEBRIS, ROOFING MATERIALS, CLEANING OF CEMENT TRUCKS, CHEMICALS/ADHESIVES/SOLVENTS, ECT., SHALL BE STORED OR DISPOSED OF NO CLOSER THAN 50 FEET FROM ANY TREE DRIPLINE.

GENERAL LAYOUT NOTES

1. THE DIMENSIONS ON THIS PLAN SERVE AS A GUIDE AND ARE FOR CONVENIENCE ONLY. ACTUAL LAYOUT IN THE FIELD MAY VARY.
2. ALL FORMS FOR CONCRETE MUST BE CHECKED BY LANDSCAPE ARCHITECT PRIOR TO POUR.
3. CONTRACTOR SHALL WORK WITH LANDSCAPE ARCHITECT THROUGHOUT THE LAYOUT PROCESS.
4. USE AUTO CAD FILE TO CREATE POINTS AND STAKE PROJECT. AUTO CAD FILE IS AVAILABLE FROM MELTON DESIGN GROUP, ATTN: PAIGE GIMBAL (530) 899-1616
5. DIMENSIONS ARE BASED ON X AND Y CENTER LINES DETERMINED FROM AUTO CAD FILE AND STAKING.
6. WALL DIMENSIONS ARE BASED ON EDGE OF WALL.
7. IF LAYOUT CONFLICTS IN THE FIELD, NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. SEE CONSTRUCTION PLAN FOR MORE INFORMATION

GENERAL CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES AND HARDSCAPES.
3. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
5. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
6. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
7. ALL VEGETATION, TOP SOIL AND OTHER UNSUITABLE MATERIAL IN AREAS OF FOUNDATIONS AND CONCRETE SLABS SHALL BE REMOVED FROM CONSTRUCTION AREA.
8. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. AUTO CAD FILE AVAILABLE FROM LANDSCAPE ARCHITECT FOR CONSTRUCTION STAKING PURPOSES. (530) 899-1616

LAYOUT REFERENCE NOTES

SYMBOL	01 GENERAL DESCRIPTION	DETAIL
01-01	AMPHITHEATER EROSION CONTROL FIBER WATTLE PLACED AS SHOWN ON PLAN AND PER SWPPP REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SWPPP PLAN AS NEEDED PRIOR TO START OF CONSTRUCTION. SEE SPECIFICATIONS.	L-0.1
SYMBOL	02 EXISTING DESCRIPTION	DETAIL
02-01	(E) ASPHALT PATH; RETAIN AND PROTECT	--
02-03	(E) MOW CURB - RETAIN AND PROTECT	--
02-06	(E) AMPHITHEATER SEAT WALL - RETAIN AND PROTECT	--
02-07	(E) AMPHITHEATER STAIRS AND HANDRAILS; RETAIN AND PROTECT	--
SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	DETAIL
32-03	AMPHITHEATER ROOF FRAME (PROVIDED BY OWNER) - CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR DELIVERY OF SHELTER COMPONENTS PRE-PURCHASED BY OWNER. SEE ICON SHEETS 1.0 - R-1.5.	1.0-R-1.5
32-06	AMPHITHEATER ADA CONCRETE ACCESS RAMP (1:1.2) AND LANDING TO STAGE. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAILS	1/L-2.1
32-07	AMPHITHEATER RADIAL STAIRS - FRONT OF STAGE; LENGTH PER PLAN. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAIL	3,4,8/L-2.3
32-08	AMPHITHEATER BENCH; LENGTH PER PLAN. CONCRETE COLOR: DAVIS COLOR, DARK GRAY (CARBON) #8084. SEE DETAIL	6/L-2.3
32-09	AMPHITHEATER STAIRS - BACK OF STAGE; LENGTH PER PLAN. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAIL	1/L-2.1 4/L-2.2
32-11	AMPHITHEATER STAGE STEM WALL - CONCRETE FINISH AT SEAT WALL AND STAIRS; BOARD FORM. ALL OTHER LOCATIONS: COBBLE FASCIA. CONCRETE COLOR: DAVIS COLOR LIGHT GRAY (CARBON) #8084. SEE DETAILS	2/L-2.1 8/L-2.3
32-17	AMPHITHEATER CONCRETE TO (E) ASPHALT PATH TRANSITION - SAW CUT ASPHALT TO CREATE CLEAN EDGE TO POUR CONCRETE AGAINST. SEE GRADING SHEET L-1.0. MATCH (E) GRADES.	--
32-18	AMPHITHEATER CHANNEL DRAIN - NDS DURA SLOPE TRENCH DRAIN WITH EX-TRACK RADIUS COUPLINGS AND PLASTIC GRATES (GRAY). CONTACT: NDS, ROBERT NOOREN (916) 879-1801 FOR SHOP DRAWINGS AND MATERIAL LISTS. SEE DETAILS.	2/L-1.0

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(530) 899-1616
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FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT
RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE
LAYOUT PLAN

DATES

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PROJECT NUMBERS

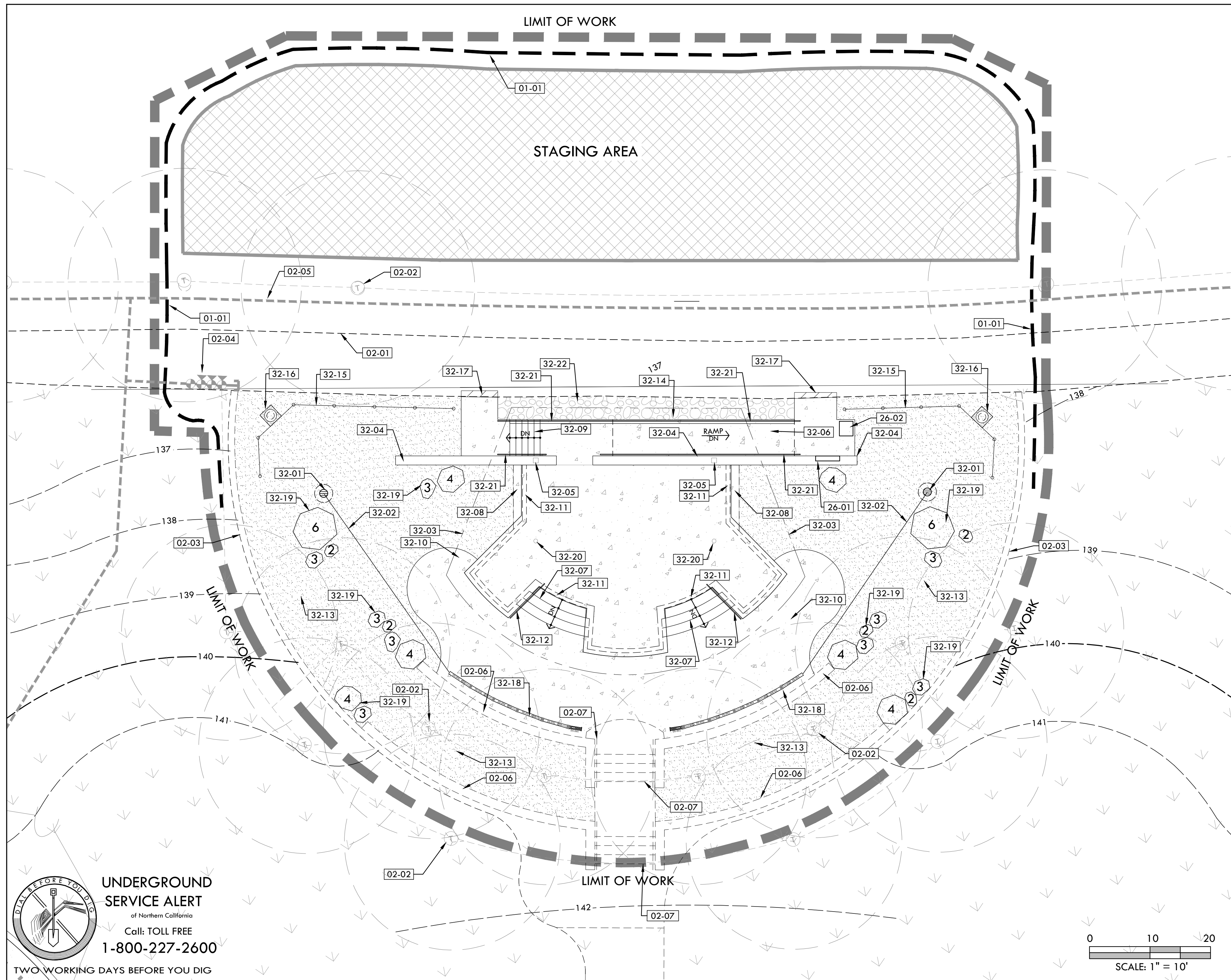
MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER

L-1.1

SHEET 4 OF 21

PLOT DATE: MARCH 3, 2020 - 5:00 PM



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TREE PROTECTION MEASURES

1. THE NATURAL GRADE AROUND THE DRIPLINE OF EXISTING TREES SHALL REMAIN UNDISTURBED DURING AND AFTER CONSTRUCTION. PREFERABLY, THE UNDISTURBED AREA SHALL BE AT DRIPLINE, BUT IN NO CASE CLOSER THAN 20 FEET FROM THE TREE TRUNK. THE DRIPLINE OF A TREE IS A PROJECTED RADIUS ON THE GROUND FORMED BY THE OUTERMOST EDGE OF THE TREE CANOPY.
2. WHERE GRADE CHANGES MUST OCCUR WITHIN THE DRIPLINE, A SUITABLE MITIGATION PLAN SHALL BE DEVELOPED BY EITHER A CERTIFIED ARBORIST. THE PLAN SHALL PROTECT THE TREE FROM EXCESS FILL AND/OR THE REMOVAL OF EXCESS SOIL FROM THE ROOT ZONE.
3. PRIOR TO THE BEGINNING OF CONSTRUCTION, EXISTING TREES SHALL BE PRUNED TO REMOVE LIMBS WHICH MAY BE DEAD OR MAY BECOME DAMAGED DURING CONSTRUCTION. PRUNING SHALL BE PERFORMED CONSISTENT WITH ANSI A300 PRUNING STANDARDS, PRUNE TO THIN 1 IN.
4. A TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND ALL TREE TRUNKS WITHIN CONSTRUCTION ZONE. WRAP TRUNK 4 TIMES AND SECURE FENCING TO TRUNK FOR DURATION OF PROJECT. CONFIRM WITH LANDSCAPE ARCHITECT ON BOUNDARY. THE FENCE SHALL BE SUBSTANTIAL ENOUGH TO RESTRICT ACTIVITY TO OUTSIDE THE AREA AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR OTHER CONSTRUCTION ACTIVITY. DURING CONSTRUCTION, MAINTENANCE SHALL BE PERFORMED SO THAT THE FENCE REMAINS IN GOOD REPAIR. REMOVAL OF THE FENCE SHALL ONLY OCCUR TO ALLOW REQUIRED CONSTRUCTION WITHIN THE AREA OR TO COMPLETE SITE LANDSCAPING. THE LANDSCAPE ARCHITECT SHALL BE CONTACTED, PRIOR TO COMMENCEMENT OF CONSTRUCTION, TO INSPECT FENCING AND TO APPROVE ANY CONSTRUCTION WITHIN THE DRIPLINE.
5. UNDERGROUND FACILITIES AND TRENCHES, (e.g., UTILITY SERVICES, SANITARY SEWER, OR STORM DRAINAGE LINES) SHALL BE CONSOLIDATED, TO THE EXTENT FEASIBLE, AND LOCATED TO MINIMIZE IMPACTS UPON TREE ROOT SYSTEMS. ANY TRENCHING OR UNDERGROUND WORK SHOULD BE LOCATED OUTSIDE OF THE TREE DRIPLINE. ANY TRENCHING REQUIRED WITHIN THE TREE DRIPLINE SHALL BE AS FAR FROM THE TREE TRUNK AS POSSIBLE AND SHALL BE EXCAVATED BY HAND TO MINIMIZE IMPACT ON ROOTS. ALL TRENCHING WITHIN THE DRIPLINE SHALL BE SUPERVISED BY A CERTIFIED ARBORIST.
6. ROOTS 3/4 IN. OR GREATER IN SIZE ENCOUNTERED DURING TRENCHING SHALL BE CLEANLY CUT AND TREATED WITH A SEALING AGENT TO REDUCE LOSS OF MOISTURE TO THE TREE. ROOTS GREATER THAN 1-1/2 IN. SHALL BE PRESERVED AND PROTECTED AT THE DIRECTION OF A CERTIFIED ARBORIST.
7. CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS SHALL NOT BE PARKED OR STORED WITHIN THE FENCED AREA. NO STAGING OR STORAGE AREA FOR CONSTRUCTION SHALL BE LOCATED CLOSER THAN 50 FEET TO THE DRIPLINE OF ANY TREE TO BE PROTECTED.
8. ALL CONSTRUCTION WASTES, INCLUDING BUT NOT LIMITED TO BUILDING MATERIAL DEBRIS, ROOFING MATERIALS, CLEANING OF CEMENT TRUCKS, CHEMICALS/ADHESIVES/SOLVENTS, ETC., SHALL BE STORED OR DISPOSED OF NO CLOSER THAN 50 FEET FROM ANY TREE DRIPLINE.

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THIS INFORMATION AND PROVISION OF TENTATIVE UTILITY LOCATION DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CONTACT USA AND APPLICABLE AGENCIES FOR VERIFICATION.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
4. CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODES AND SPECIFICATIONS.
5. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
6. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

EXISTING CONDITIONS NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND RETAIN EXISTING HARDSCAPE, ASPHALT PATHS, LANDSCAPING, IRRIGATION, ETC. THAT ARE NOT DESIGNATED FOR DEMOLITION OR MODIFICATION.
2. CONTRACTOR SHALL COVER EXISTING ASPHALT PATHS, ROADWAYS, CURBS, MOW CURBS AND OTHER ELEMENTS TO PROTECT FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DAMAGED SURFACES, AMENITIES, HARDSCAPES, LANDSCAPE, IRRIGATION, ETC. DUE TO HIS/HER ACTIVITY OR NEGLIGENCE AND UPON APPROVAL BY THE DISTRICT.

SHEET NOTES:

1. SEE CONSTRUCTION PLAN SHEET L-2.0 FOR COMPLETE REFERENCE NOTE SCHEDULE
2. SEE LAYOUT SHEET L-1.1 FOR TREE PROTECTION MEASURES

CONSTRUCTION REFERENCE NOTES

SYMBOL	01 GENERAL DESCRIPTION	DETAIL
01-01	AMPHITHEATER EROSION CONTROL FIBER WATTLE PLACED AS SHOWN ON PLAN AND PER SWPPP REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SWPPP PLAN AS NEEDED PRIOR TO START OF CONSTRUCTION. SEE SPECIFICATIONS.	L-0.1
SYMBOL	02 EXISTING CONDITIONS DESCRIPTION	DETAIL
02-01	(E) ASPHALT PATH; RETAIN AND PROTECT.	--
02-02	(E) TREE AND TREE DRIP IRRIGATION RING; RETAIN AND PROTECT. DO NOT EXCAVATE WITHIN 5'. SEE TREE PROTECTION NOTES SHEET L-1.0.	--
02-03	(E) MOW CURB - RETAIN AND PROTECT.	--
02-04	(E) IRRIGATION MAIN LINE VALVES - RETAIN AND PROTECT.	--
02-05	(E) IRRIGATION MAINLINE AND CONDUIT - RETAIN AND PROTECT.	--
02-06	(E) AMPHITHEATER SEAT WALL - RETAIN AND PROTECT.	--
02-07	(E) AMPHITHEATER STAIRS AND HANDRAILS; RETAIN AND PROTECT.	--
02-08	(E) AMPHITHEATER CONCRETE STAGE; DEMOLISH STAGE AND ALL INCLUDED ELEMENTS AND DISPOSE OF OFFSITE.	--
02-09	(E) 24" TREE; REMOVE AND DISPOSE OF OFFSITE. GRIND STUMP TO 6" BELOW ROUGH GRADE. SEE GRADING SHEET L-1.0.	--
02-10	(E) ELECTRIC PEDESTAL AND BOX - DISCONNECT POWER FROM MSB AND DEMO PEDESTAL AND BOX. ABANDON WIRES IN FIELD. MARK LOCATION ON RECORD DRAWINGS.	--
SYMBOL	26 ELECTRICAL DESCRIPTION	DETAIL
26-01	ELECTRICAL ENCLOSURE - 48" X 48" RECESSED ELECTRICAL ENCLOSURE WITH HIGH SECURITY ACCESS DOOR. SEE ELECTRICAL SHEETS E-0.1 - E-3.2. SEE DETAILS.	E-0.1-E-3.2 3/L-2.2
26-02	ELECTRICAL TRANSFORMER - 37.5KVA, 480/240V, 1PHASE. SEE ELECTRICAL SHEETS E-0.1 - E-3.2.	E-0.1-E-3.2
SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	DETAIL
32-01	AMPHITHEATER DRAIN SUMP - SEE GRADING SHEET L-1.0. SEE DETAILS.	2/L-1.0
32-02	AMPHITHEATER 4" SDR-35 PVC DRAIN PIPE, SOLID. SEE DETAILS.	2/L-1.0
32-03	AMPHITHEATER SHADE STRUCTURE (PROVIDED BY OWNER) - CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR DELIVERY OF SHELTER COMPONENTS PRE-PURCHASED BY OWNER. SEE ICON SHEETS 1.0 - R-1.5.	1.0-R-1.5
32-04	AMPHITHEATER CONCRETE STAGE WALL - BOARD FORM FINISH, CONCRETE COLOR: DAVIS LIGHT GRAY (CARBON) #8084; SEE STRUCTURAL SHEET S-1 AND ICON SHEETS 1.0-R1.5. SEE DETAILS.	1/2/L-2.1 1/2/L-2.2 9/L-2.3
32-05	AMPHITHEATER BACK POST (PROVIDED BY OWNER) - CONTRACTOR SHALL COORDINATE WITH ICON FOR THE DELIVERY OF SHELTER COMPONENTS PRE-PURCHASED BY OWNER. SEE STRUCTURAL SHEET S-1 AND ICON SHEETS 1.0 - R1.5	1/2/L-2.1 1/2/L-2.2
32-06	AMPHITHEATER ADA CONCRETE ACCESS RAMP (1:12) AND LANDING TO STAGE. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAILS.	1/L-2.1
32-07	AMPHITHEATER RADIAL STAIRS - FRONT OF STAGE; LENGTH PER PLAN. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAIL.	3,4/L-2.3
32-08	AMPHITHEATER BENCH; LENGTH PER PLAN. CONCRETE COLOR: DAVIS COLOR, DARK GRAY (CARBON) #8084. SEE DETAIL.	6/L-2.3
32-09	AMPHITHEATER STAIRS - BACK OF STAGE; LENGTH PER PLAN. CONCRETE COLOR: DAVIS DARK GRAY (CARBON) #8084. SEE DETAIL.	1/L-2.1 4/L-2.2
32-10	AMPHITHEATER CONCRETE DANCE FLOOR - 4" CONCRETE SLAB. CONCRETE COLOR: DAVIS COLOR DARK GRAY (CARBON) #8084. SEE DETAILS.	2/L-2.3
32-11	AMPHITHEATER STAGE STEM WALL - CONCRETE FINISH AT SEAT WALL AND STAIRS; BOARD FORM. ALL OTHER LOCATIONS: COBBLE FASCIA. CONCRETE COLOR: DAVIS COLOR LIGHT GRAY (CARBON) #8084. SEE DETAILS.	2/L-2.1 8/L-2.3
32-12	AMPHITHEATER HAND RAIL - FRONT OF STAGE MFR: KING ARCHITECTURAL METAL 800-542-2379 OR APPROVED EQUAL. NO WELDING ONSITE; ALL METAL TO BE POWDERED COATED BLACK.	3/L-2.3
32-13	AMPHITHEATER DECOMPOSED GRANITE - 4" COMPACTED OVER WEED BARRIER FABRIC. COLOR: GOLD. SEE GRADING SHEET L-1.0. SEE DETAILS.	5/L-2.3
32-14	AMPHITHEATER BACKSTAGE STEM WALL - BOARD FORM FINISH, CONCRETE COLOR: DAVIS COLOR DARK GRAY (CARBON) #8084. SEE GRADING SHEET L-1.0. SEE DETAILS.	1/2/L-2.1 4/L-2.2 9/L-2.3
32-15	AMPHITHEATER SPLIT RAIL FENCE - 6"x6" SPLIT CEDAR FENCE POST WITH 3"x5" SPLIT CEDAR RAILS (2 RAILS). SEE DETAIL.	7/L-2.3
32-16	AMPHITHEATER TRASH RECEPTACLE - MANUFACTURER: BELSON OUTDOORS. MODEL: C8TR-FTR-BK WITH SINGLE 40 GAL LINER, FLARED TOP WITH RAIN BONNET LID OR APPROVED EQUAL. SEE DETAIL.	5/L-2.2
32-17	AMPHITHEATER CONCRETE TO (E) ASPHALT PATH TRANSITION - SAW CUT ASPHALT TO CREATE CLEAN EDGE TO POUR CONCRETE AGAINST. SEE GRADING SHEET L-1.0. MATCH (E) GRADES.	--
32-18	AMPHITHEATER CHANNEL DRAIN - NDS DURA SLOPE TRENCH DRAIN WITH EX-TRACK RADIUS COUPLINGS AND PLASTIC GRATES (GRAY). CONTACT: NDS, ROBERT NOOREN (916) 879-1801 FOR SHOP DRAWINGS AND MATERIAL LISTS. SEE DETAILS.	1/L-1.0
32-19	AMPHITHEATER WASHED GRANITE BOULDERS; 2'-6" W X 24"-48" H, SIZE PER PLAN. BOULDER PLACEMENT SHALL BE APPROVED BY LANDSCAPE ARCHITECT. CONTACT: SIERRA BOULDER, ROBERT WRIGHT (916) 955-0649. SEE DETAIL.	1/L-2.3
32-20	AMPHITHEATER FRONT POST (PROVIDED BY OWNER) - CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR DELIVERY OF SHELTER COMPONENTS PRE-PURCHASED BY OWNER. SEE ICON SHEETS 1.0 - R-1.5.	2/L-2.2
32-21	AMPHITHEATER HAND RAIL - BACK OF STAGE; 1-1/2" FABRICATED STEEL, SCHEDULE 40, ASTM A53, GRADE B PIPE. INSTALL WITH FLUSH-TYPE RAIL FITTINGS. GROUND WELD JOINTS SMOOTH AND POWDER COAT BLACK. SEE DETAIL.	1/L-2.1 4/L-2.2
32-22	COBBLE GROUND COVER; COBBLE SLOPE; 4"-10" CLEAN COBBLE. INSTALL 2 LAYERS OF COBBLE WITH WEED BARRIER FABRIC. MATCH EXISTING GRADE AT WALK. USE EXCESS COBBLE FROM ONSITE SUPPLIES. CLEAN TO REMOVE DIRT AND DEBRIS. SEE DETAIL.	1/L-2.2 3/L-3.0



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FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT
RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE
CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
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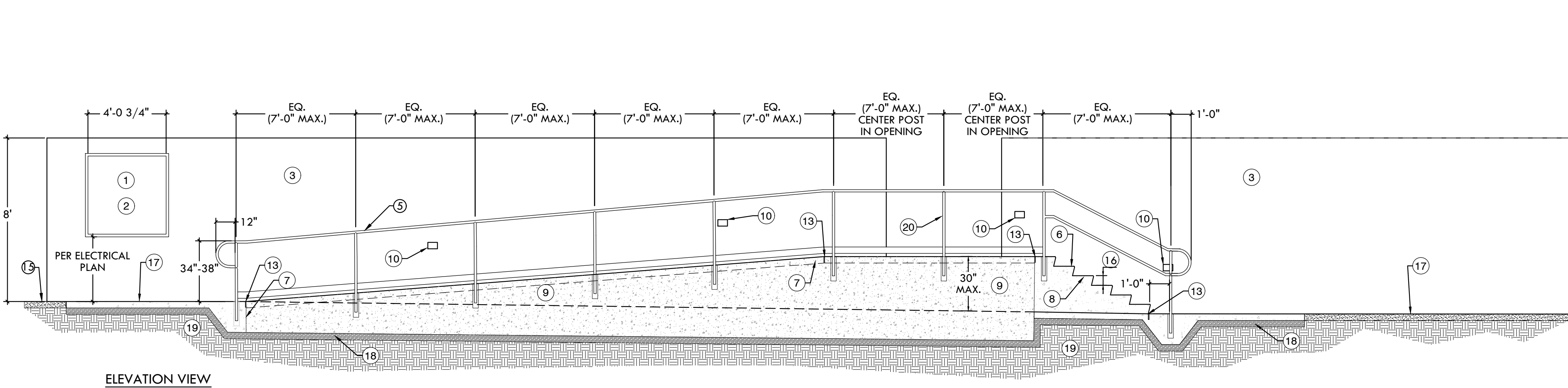
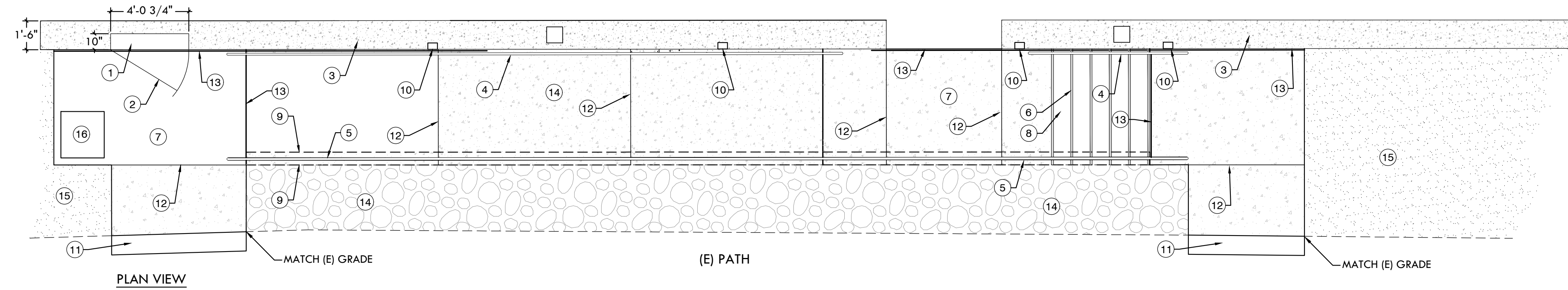
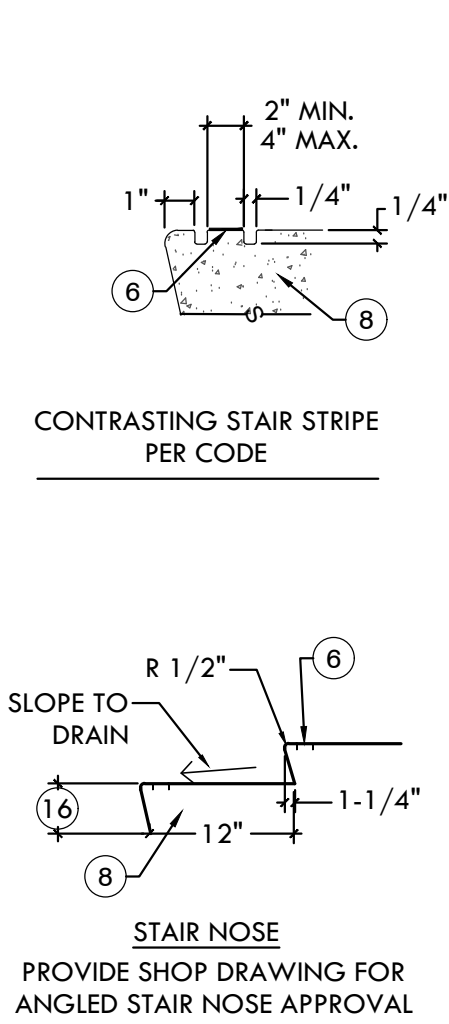
MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER

L-2.0

SHEET 5 OF 21

- 1 ELECTRICAL PANEL ENCLOSURE; NYSTROM 48"x48" HS SERIES HIGH SECURITY ACCESS PANEL WITH CONCEALED PIANO HINGE. ROUGH OPENING 48.75" X 48.75". CENTER ON WALL BETWEEN TOE OF RAMP AND EDGE OF CONCRETE. POWDER COAT PANEL FLANGE AND DOOR TO MATCH WALL COLOR; DAVIS COLOR LIGHT GRAY (CARBON) #8084. SEE STRUCTURAL PLAN SHEET S-1.0, ELECTRICAL PLANS, DETAIL 3/L-2.2 AND MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- 2 NYSTROM STEEL ACCESS DOOR WITH CONCEALED PIANO HINGE, POWDER COAT TO MATCH WALL COLOR, DAVIS COLOR LIGHT GRAY (CARBON) #8084. DOOR SIZE: 48" X 48" WEIGHT: 223LBS. SEE DETAIL 3/L-2.2
- 3 AMPHITHEATER STAGE WALL; 8' H X 18" W X LENGTH PER PLAN. SEE CONSTRUCTION SHEET L-2.0, STRUCTURAL PLAN SHEET S-1.0, ELECTRICAL PLANS SHEETS E-0.0 TO E-3.2, DETAILS 1/L-2.1, 9/L-2.3
- 4 HANDRAIL AT WALL; 1-1/2" STEEL TUBE WITH WALL BRACKETS EVENLY SPACED, MAX. 7' O.C. AND PER CODE. COLOR: POWDER COAT BLACK TO MATCH AMPHITHEATER STRUCTURE. INSTALL AT 34"-36" H FROM GRADE OF ADJACENT CONCRETE. BOTH RAILS SHALL BE AT EQUAL HEIGHTS. SEE DETAILS 4/L-2.2 AND 9/L-2.3
- 5 HANDRAIL AT STEM WALL; 1-1/2" STEEL TUBE WITH POSTS EVENLY SPACE IN CONCRETE STEM WALL WITH EXTENDED FOOTING AS REQUIRED, POST MAX EQ 7' O.C. AND PER CODE. COLOR: POWDER COAT DULL BLACK TO MATCH AMPHITHEATER STRUCTURE. INSTALL TOP RAIL AT 34"-36" H AND 4" GUIDE RAIL CENTERED AT 3" +/- 1" FROM GRADE OF ADJACENT CONCRETE. RAILS AT STEM WALL AND ATTACHED TO OPPOSITE WALL SHALL BE AT EQUAL HEIGHTS. SEE DETAIL 9/L-2.3.
- 6 CONTRASTING STAIR STRIPE, NON SLIP SCORE LINE PATTERN, SAW CUT RADIAL SCORE LINE 1/4" DEEP TO MATCH CONTOUR OF STAIR. FIRST SCORE LINE 1" MAX. FROM EDGE OF TREAD. SECOND SCORE LINE 3" MAX. FROM EDGE OF TREAD. EXTEND SCORE LINES FULL LENGTH OF STAIR TREAD INCLUDING TOP STEP @ STAGE. PAINT CONCRETE BETWEEN SCORE LINES WITH CONTRASTING PAINT; COLOR TO BE 75% CONTRASTING FROM CONCRETE. COLOR TO BE APPROVED BY LANDSCAPE ARCHITECT. TYPICAL ALL STAIR LOCATIONS.
- 7 CONCRETE RAMP; LIGHT BROOM, NON-SLIP FINISH. RAMP RUN SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12, 2% MAX CROSS SLOPE. COLOR: DAVIS COLOR DARK GRAY (CARBON) #8084. SEE DETAIL 2/L-2.3.
- 8 CONCRETE STAIRS; LIGHT BROOM, NON-SLIP FINISH. SLOPE TREAD. SEE DETAIL 4,5/L-2.2 AND STAIR NOSING DETAIL, THIS SHEET. #4 REBAR AT 10" O.C. BOTH WAYS UNLESS OTHERWISE NOTED, 1-1/2" CLEAR AT NOSE OF STAIR. TYPICAL
- 9 CONCRETE STEM WALL AT BACK OF STAGE; 12" W X HEIGHT PER GRADING PLAN, 24" FOOTING BELOW GRADE. SEE GRADING SHEET L-1.0. SEE DETAIL 4/L-2.2 AND 9/L-2.3.
- 10 WALL LIGHT; INSTALL 2' H ABOVE FINISH GRADE OF CONCRETE STAIR OR RAMP. SEE ELECTRICAL SHEETS E-0.1 AND E-2.1
- 11 CONCRETE APRON; SAW CUT (E) ASPHALT PATH 1' TO CREATE CLEAN EDGE. FINISH GRADE OF NEW CONCRETE TO MATCH (E) ASPHALT PATH GRADE
- 12 SAW CUT AND BEVEL CONTROL JOINTS AS SHOWN ON SCORING PLAN - CONTRACTOR TO LAYOUT SCORE LINES AND EXPANSION JOINTS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO POURING CONCRETE. CUT SCORE LINE TO BE 1" MIN. DEPTH. SEE DETAILS 1/L-1.2 AND 6/L-2.2
- 13 EXPANSION JOINT AT TOP AND BOTTOM OF RAMP, AND STAIRS AND ALONG STAGE WALL. SEE DETAIL 5/L-2.2
- 14 PLANTER WITH COBBLE GROUND COVER. EXCAVATE PLANTER 24" DOWN AND REPLACE WITH TOP SOIL. SUBGRADE OF PLANTER TO BE 8" BELOW ADJACENT (E) ASPHALT PATH TO RECEIVE 2 LAYERS OF COBBLE OVER FABRIC. SEE CONSTRUCTION SHEET L-2.0 AND PLANTING SHEET L-3.0.
- 15 TRANSFORMER 480: 120/208Y, 112.5KVA. SEE ELECTRICAL PLAN SHEETS E0.0-E3.2
- 16 STAIR RISER; APPROXIMATELY 5.5"-6". RISERS SHALL BE OF EQUAL DISTANCE. SEE GRADING SHEET L-1.0
- 17 FINISH GRADE; SEE GRADING SHEET L-1.0
- 18 3/4" CLASS II AGGREGATE BASE IN 6" LIFTS, COMPACTED TO 90% RELATIVE DENSITY
- 19 UNDISTURBED NATIVE SUBGRADE
- 20 CENTER HANDRAIL POST IN WALL OPENING

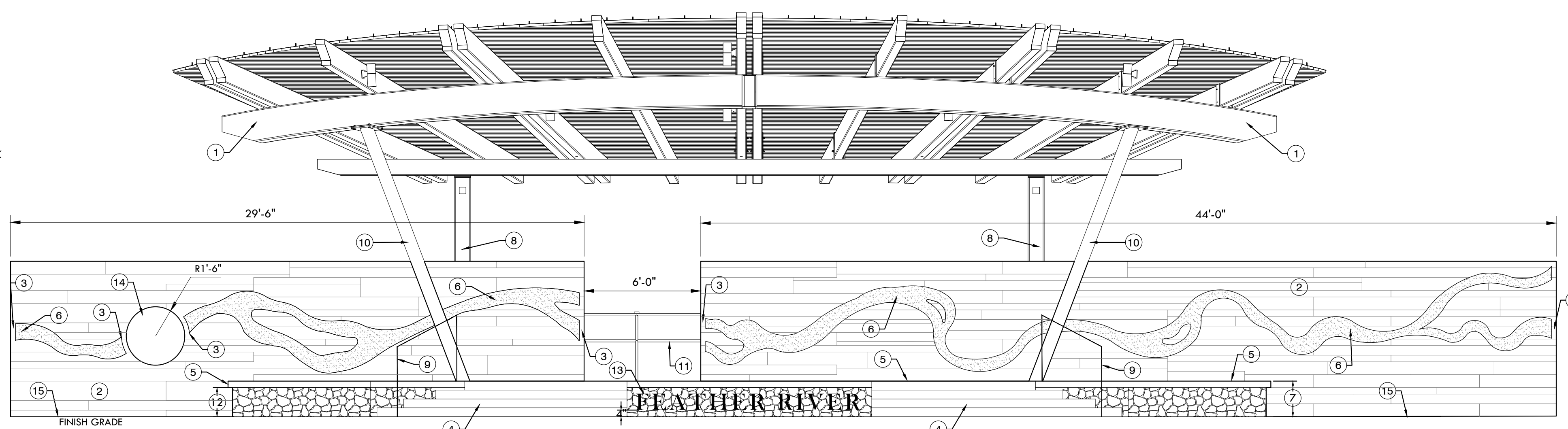


NOTES:
1. SEAL ALL POURED-IN-PLACE CONCRETE WALLS, FACES, TREADS, CAP WITH CLEAR ANTI-GRAFFITI COATING AG#2; AVAILABLE FROM: HY-TECH (866) 649-8324, OR APPROVED EQUAL.

1 AMPHITHEATER BACK STAGE PLAN AND ELEVATION

L2.1 N.T.S.

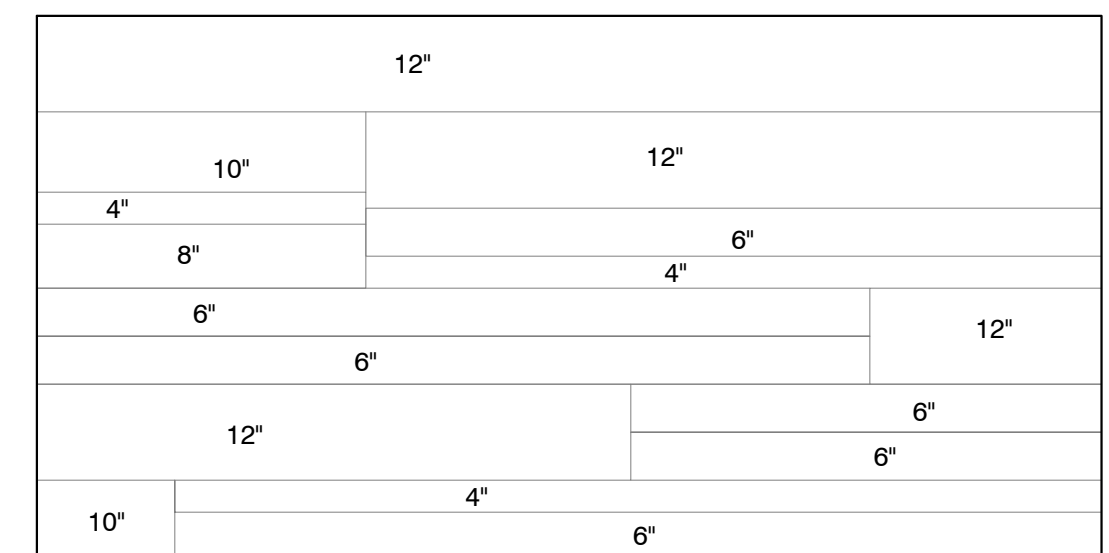
- 1 AMPHITHEATER STEEL STRUCTURE; DULL BLACK. SEE ICON SHELTER SYSTEM SHEETS 1-R1.5
- 2 8'-0" H X 18" W CONCRETE WALL WITH ROUGH BOARD FORMED FINISH ON ALL SIDES, FRONT AND BACK, WALL LENGTH PER PLAN. RECESSED RIVER AND LOGO INLAYS IN WALL AT STAGE FRONT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR SAMPLE PATTERN OF BOARD PATTERN TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FORMING. SEE STRUCTURAL SHEET S-1.0. AND DETAIL 1A/L-2.1
- 3 TERMINATE RECESSED RIVER INLAY 3" FROM EDGE OF LOGO CIRCLE AND FROM EDGE OF WALL
- 4 AMPHITHEATER FRONT STAGE STAIRS WITH RADIUS; 16" TREAD AND 5-1/2"-6" EQ RISE (TYPICAL). FOUR (4) STAIRS, INCLUDING TOP STAGE STEP AT LEFT AND RIGHT OF CENTER STAGE. ADJUST RISER HEIGHT AS NEEDED TO BE EQUAL PER GRADING SHEET L-1.0. SEE DETAIL 3,4/L2.3
- 5 AMPHITHEATER STAGE; 4" THICK CAST-IN-PLACE CONCRETE STAGE WITH 1/2" RADIUS EDGES. LIGHT BROOM NON-SLIP FINISH. COLOR: DAVIS COLOR DARK GRAY (CARBON) #8404. SEE DETAIL 2/L-2.3 AND 6/L-2.2
- 6 RIVER INLAY; 1-1/4" DEEP WITH 60° BEVEL EDGE. POWER WASH GREEN TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLE OF RIVER INLAY LAYOUT AND SAMPLE OF EXPOSED AGGREGATE FOR TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FORMING WALL
- 7 STAGE HEIGHT PER GRADING SHEET L-1.0
- 8 AMPHITHEATER POST AT BACK OF STAGE; 10" STEEL PIPE INSTALLED IN BACK WALL, TYPICAL 2 PLACES. SEE STRUCTURAL SHEET S-1.0 AND ICON SHEETS 1.0-R-1.5
- 9 STEEL HAND RAIL FRONT STAGE; INSTALL ON OUTER EDGE OF FRONT STAIRS, TYPICAL TWO PLACES. SEE DETAIL 3/L-2.3.
- 10 AMPHITHEATER POST AT FRONT OF STAGE; 10" STEEL PIPE INSTALLED THROUGH CONCRETE STAGE. SEE ICON SHEETS 1.0-R-1.5 AND DETAIL 2/L-2.2
- 11 STEEL HAND RAIL BACK STAGE; SEE DETAIL 1/L-2.1, 4/L-2.2, 9/L-2.3
- 12 AMPHITHEATER STEM WALL WITH COBBLE FASCIA; HEIGHT PER GRADING PLAN SHEET L-1.0. SEE DETAIL 8/L-2.3
- 13 AMPHITHEATER SIGN; 10" H X 1 1/4" THICK STEEL LETTERS WITH WELDED MOUNTING BRACKET ON BACK AND TAMPER PROOF LOCK NUT SET SCREWS. LETTERS TO READ: "FEATHER RIVER" IN BASKERVILLE BOLD FONT. FINISH: PRE-WEATHERED CORTEN STEEL WITH 4 COATS CLEAR SEALANT. INSTALL SIGN ON FRONT STEM WALL, 1" INSET FROM STAGE OVERHANG. EPOXY THREADED NUT AND BOLT INTO CONCRETE STEM WALL TO MOUNT LETTERS. CONTRACTOR TO SUBMIT SHOP DRAWING OF SIGN, INCLUDING TYPEFACE, LETTER SPACING AND MOUNTING METHOD TO LANDSCAPE ARCHITECT FOR APPROVAL. SEE DETAIL 2B/L-2.1
- 14 RECESSED LOGO INLAY; 18" RADIUS, 2.5" DEEP INSET WITH 60° BEVELED EDGE AND SMOOTH TROWEL FINISH. CONTRACTOR SHALL COORDINATE WITH DISTRICT FOR LOGO ART. MOUNT LOGO WITH TAMPER PROOF ANCHOR BOLTS.
- 15 FINISH GRADE; SEE GRADING SHEET L-1.0



NOTES:
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2 AMPHITHEATER FRONT STAGE ELEVATION

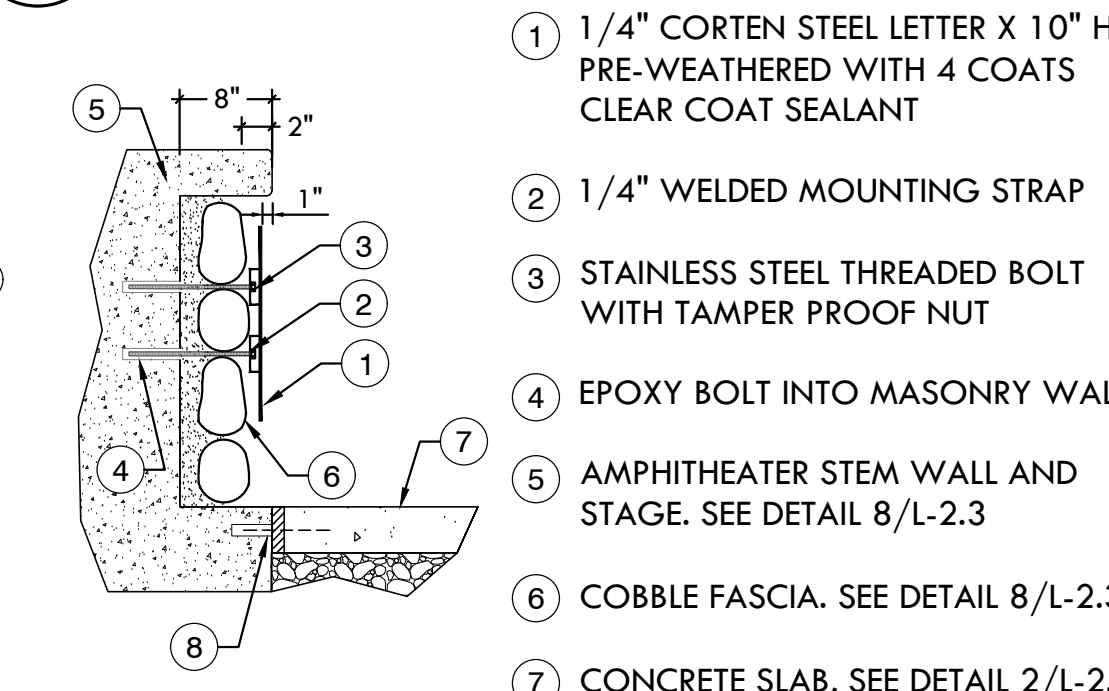
L2.1 N.T.S.



- NOTES:
1. USE ROUGH BOARD (SAWN TIMBER) FORM FINISH
 2. USE 12", 10", 8", 6" AND 4" WIDTHS IN RANDOM LAYOUT
 3. MINIMIZE VERTICAL LINES (MAX. 3 BOARD WIDTHS)
 4. SUBMIT SHOP DRAWINGS OR SAMPLE PATTERN TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FORMING WALLS WITH BOARD FORM FINISH.

2A BOARD FORM LAYOUT EXAMPLE

L2.1 N.T.S.



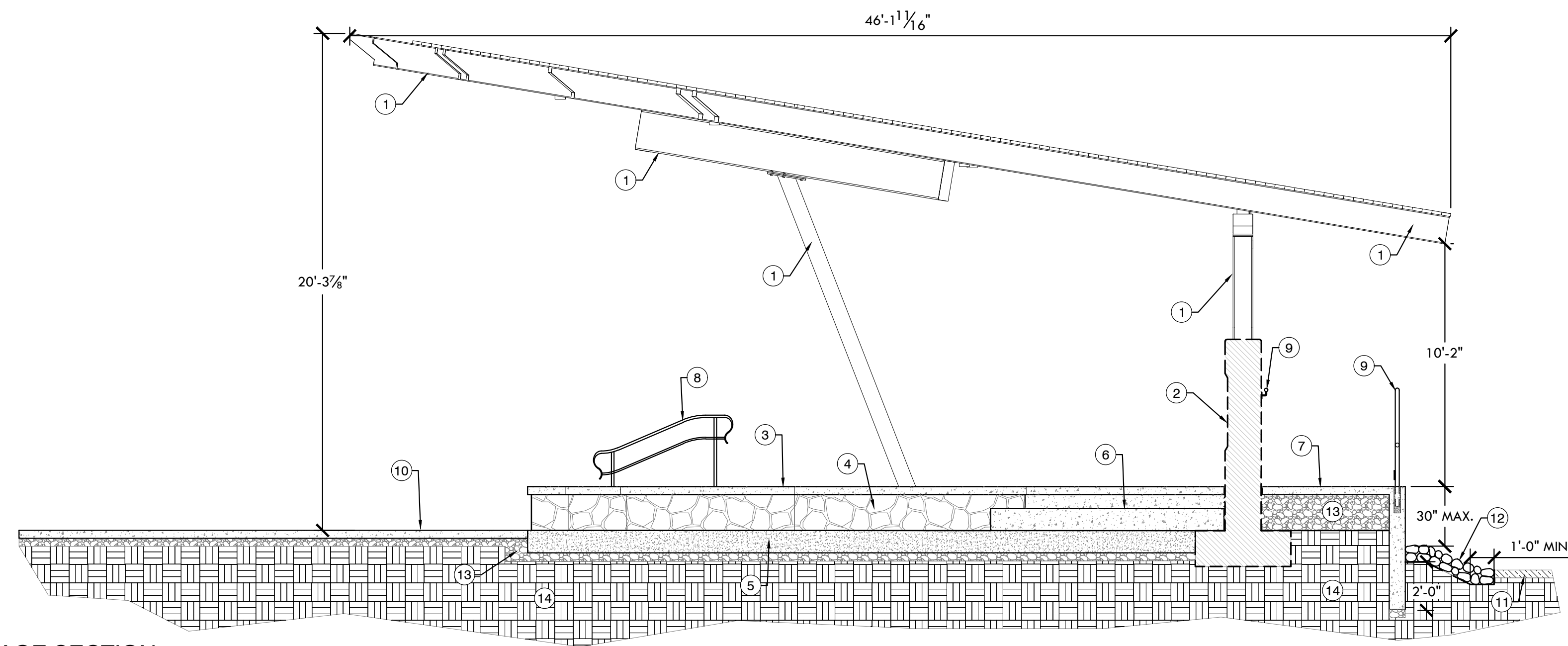
2B CORTEN STEEL LETTER INSTALLATION

L2.1 N.T.S.

DATES

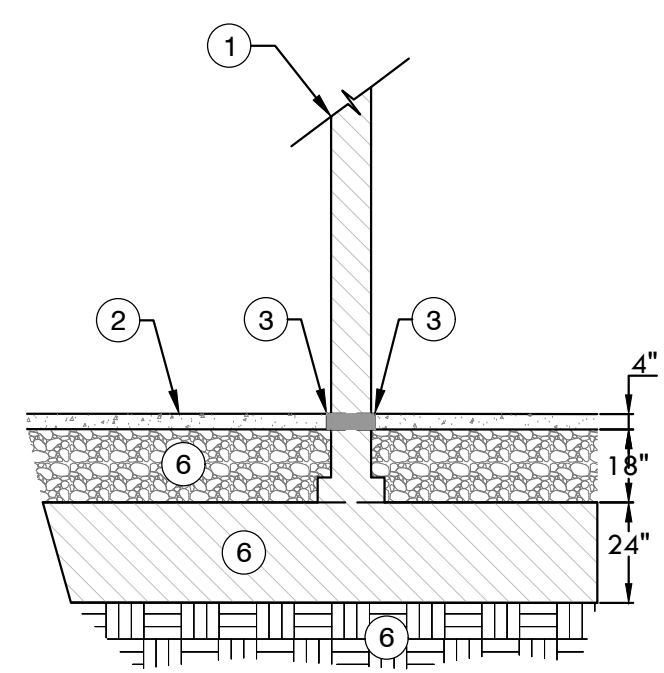
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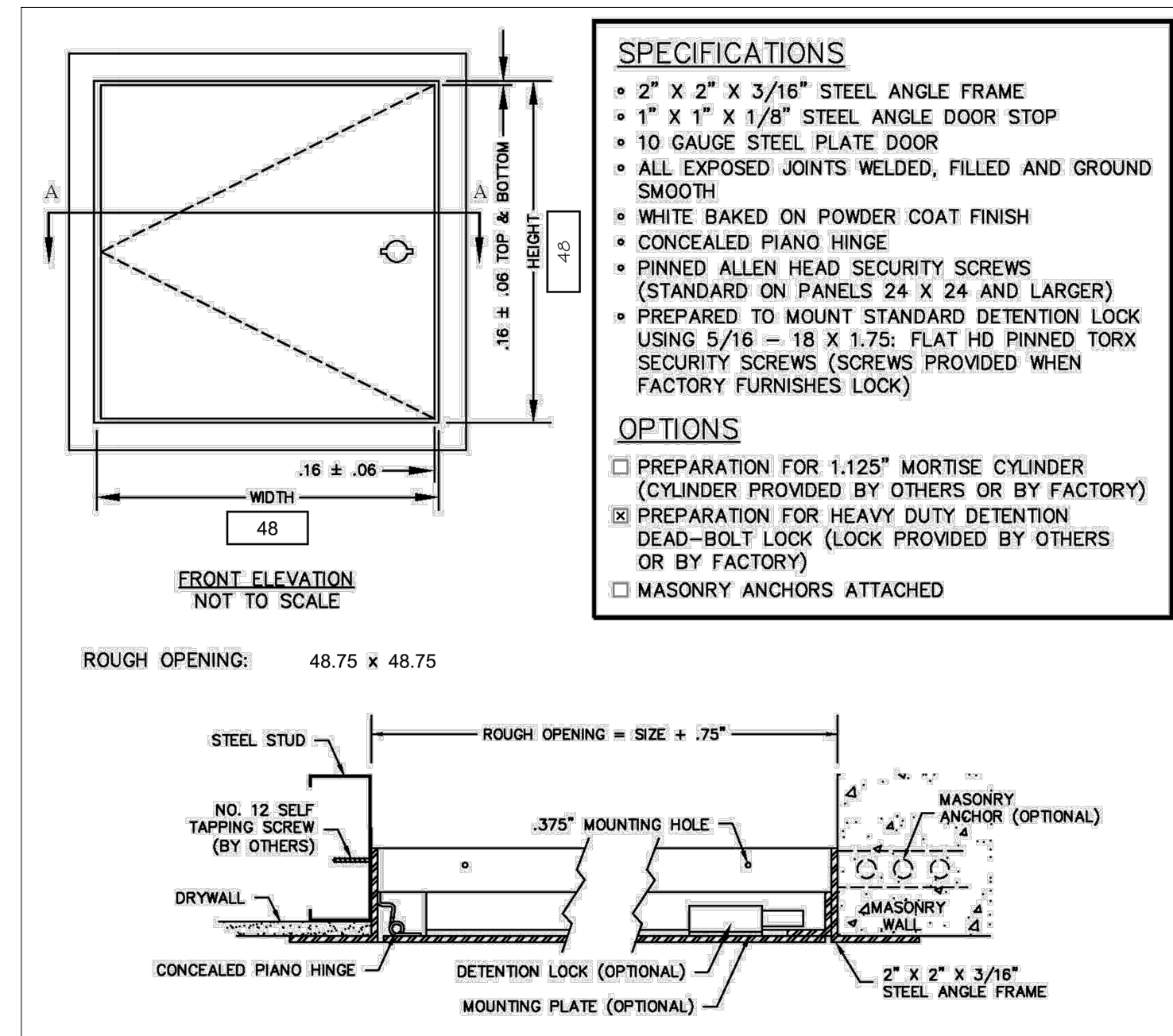


- 1 AMPHITHEATER STRUCTURE; SEE ICON SHEETS 1-R1.5
- 2 AMPHITHEATER CONCRETE STAGE WALL WITH ROUGH BOARD FORM FINISH. SEE STRUCTURAL SHEET S-1.0, DETAILS 1,2,1A/L-2.1 AND 9/L-2.3
- 3 FINISH GRADE AMPHITHEATER STAGE; SEE GRADING PLAN L-1.0, DETAILS 1,2/L-2.1 AND 2,8/L-2.3
- 4 AMPHITHEATER CONCRETE STEM WALL WITH COBBLE FASCIA. SEE DETAIL 8/L-2.3
- 5 AMPHITHEATER CONCRETE STEM WALL FOOTING; SEE DETAIL 8/L-2.3
- 6 AMPHITHEATER SEAT BENCH; SEE DETAIL 6/L-2.3
- 7 FINISH GRADE AT HIGH POINT BACK STAGE CONCRETE RAMP; SEE GRADING SHEET L-1.0, DETAILS 1/L-2.1 AND 9/L-2.3
- 8 STEEL HAND RAIL FRONT STAGE; SEE DETAIL 3/L-2.3
- 9 STEEL HAND RAIL BACK STAGE; SEE DETAILS 1/L-2.1 AND 9/L-2.3
- 10 FINISH GRADE OF CONCRETE; SEE GRADING PLAN L-1.0 AND DETAILS 5/L-2.2 AND 2/L-2.3
- 11 (E) ASPHALT PATH; RETAIN AND PROTECT
- 12 COBBLE GROUND COVER; 4"-10" CLEAN COBBLE. INSTALL 2 LAYERS OF COBBLE OVER WEED BARRIER FABRIC. MATCH EXISTING GRADE AT ASPHALT PATH. SEE PLANTING SHEET L-3.0 AND DETAIL 3/L-3.0
- 13 3/4" CLASS II AGGREGATE BASE IN 6" LIFTS, COMPACTED TO 90% RELATIVE DENSITY
- 14 NATIVE UNDISTURBED SUBGRADE

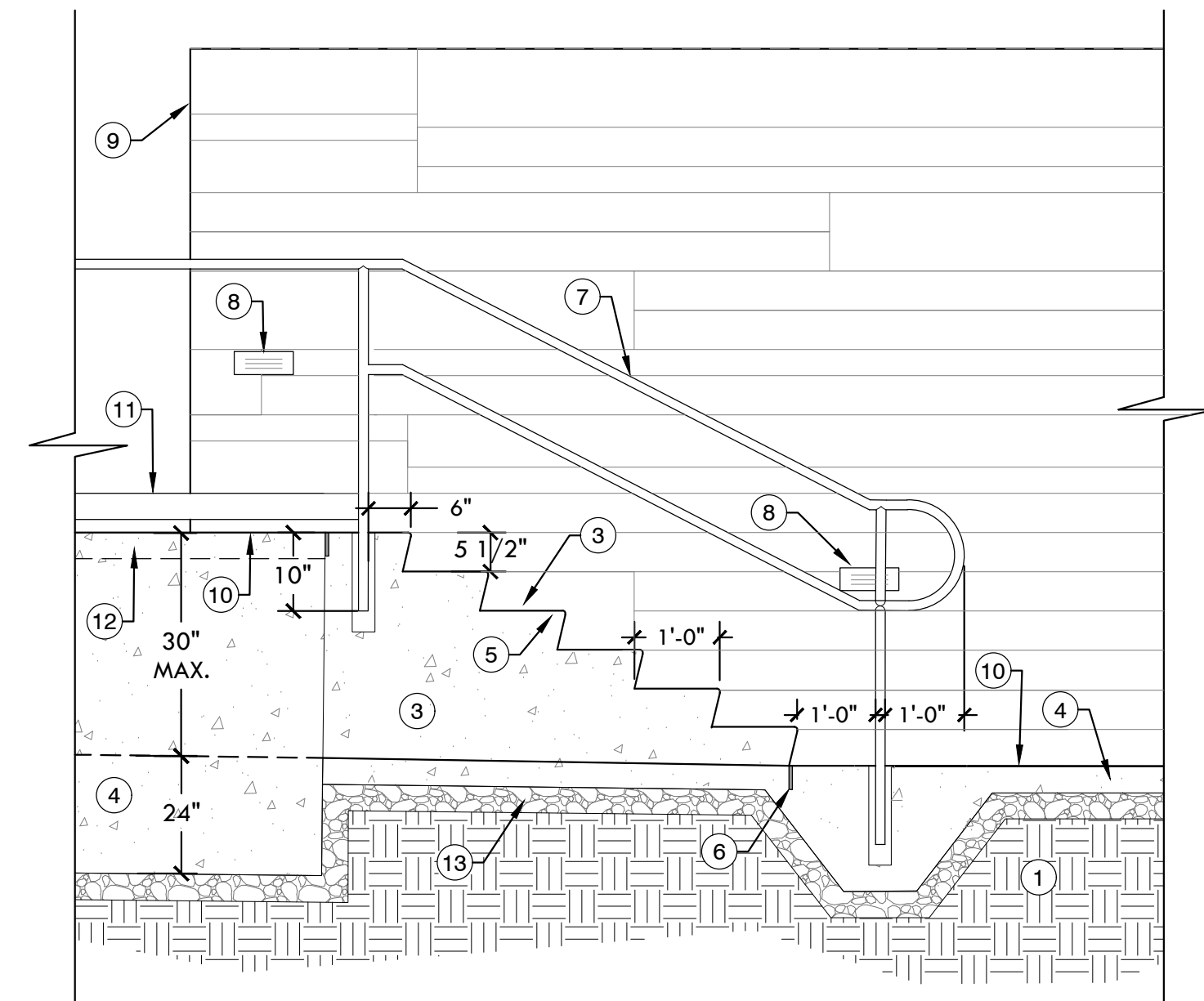
1 AMPHITHEATER STAGE SECTION
L2.2 N.T.S.



- 1 AMPHITHEATER STEEL POST (STAGE FRONT); POST TO EXTEND THROUGH STAGE FLOOR. SEE ICON SHEETS 1.0-R1.5
- 2 AMPHITHEATER STAGE FINISH GRADE; SEE GRADING PLAN L-1.0 AND DETAIL 2/L-2.3
- 3 COLUMN EXPANSION JOINT; WRAP WITH 1/2" RIGID FOAM BETWEEN STEEL POST AND CONCRETE ALL AROUND, FILL WITH NON-SHRINKING ELASTOMERIC SEALANT ON TOP 1/2" TO MATCH ADJACENT CONCRETE. SURROUND POST THROUGH CONCRETE SLAB. SEE DETAIL 6/L-2.2
- 4 AMPHITHEATER STEEL POST FOOTING; SEE ICON SHEETS 1.0-R1.5
- 5 3/4" CLASS II AGGREGATE BASE; SEE DETAIL 2,8/L-2.3
- 6 NATIVE UNDISTURBED SUBGRADE



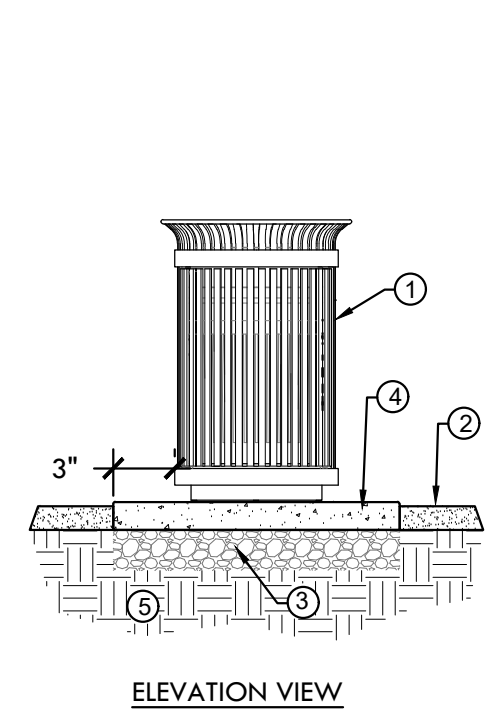
3 ELECTRICAL PANEL ACCESS DOOR
L2.2 N.T.S.



- 1 NATIVE UNDISTURBED SUBGRADE
- 2 4" CONCRETE FLATWORK. SEE DETAIL 1/L-2.1 AND 2,9/L-2.3
- 3 CONCRETE STAIRS AND FOOTING; COLOR: DAVIS COLOR DARK GRAY (CARBON) #8084. SEE DETAIL 9/L-2.3
- 4 AMPHITHEATER BACK STAGE STEM WALL; SEE DETAIL 1/L-2.1 AND 9/L-2.3
- 5 CONTRASTING STAIR STRIPE, NON SLIP SCORE LINE PATTERN; SEE DETAIL 1/L-2.1
- 6 1/2" X DEPTH OF CONCRETE EXPANSION JOINT ; SEE DETAIL 6/L-2.2
- 7 STEEL HANDRAIL AND POST, POWDER COAT DULL BLACK. INSTALL TOP RAIL AT 34"-36" FROM FINISH GRADE OF STAIR. SEE DETAIL 1/L-2.1 AND 9/L-2.3
- 8 WALL LIGHT; INSTALL 2'-0" ABOVE FINISH GRADE OF CONCRETE - SEE ELECTRICAL SHEET E-0.1 AND E-2.1.
- 9 AMPHITHEATER BACK STAGE WALL; ROUGH BOARD FORM FINISH. SEE STRUCTURAL SHEET S-1.0 AND DETAIL 1,2/L-2.1
- 10 FINISH GRADE OF CONCRETE
- 11 4" X 1/4" STEEL WHEEL STOP; SEE DETAIL 1/L-2.1 AND 9/L-2.3
- 12 4" CONCRETE RAMP ON STEM WALL; SEE DETAILS 1/L-2.1, 5/L-2.2 AND 2/L-2.3
- 13 3/4" CLASS II AGGREGATE BASE, COMPACT TO 90% RELATIVE DENSITY. SEE DETAIL 2,8/L-2.3

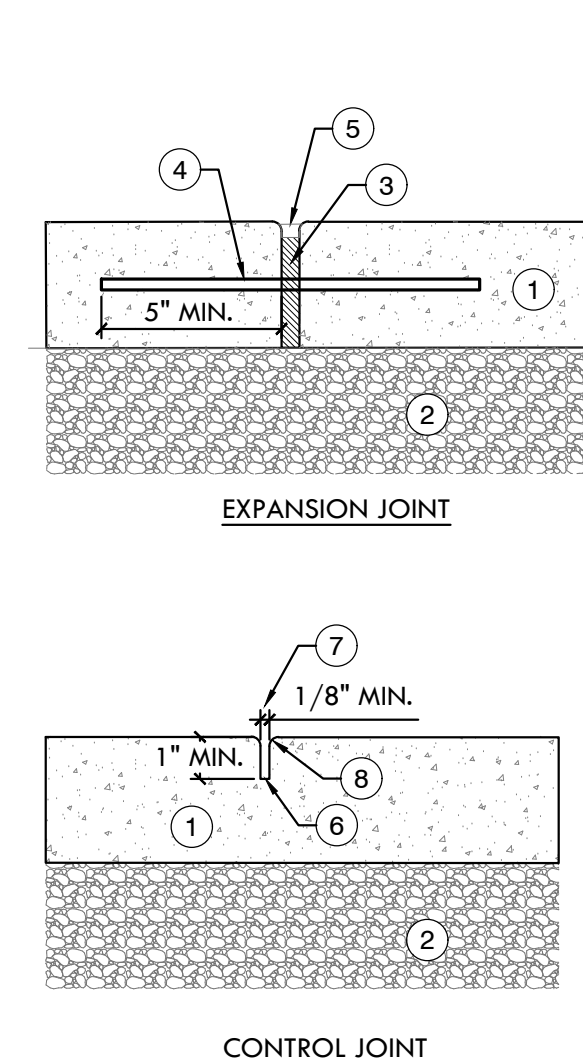
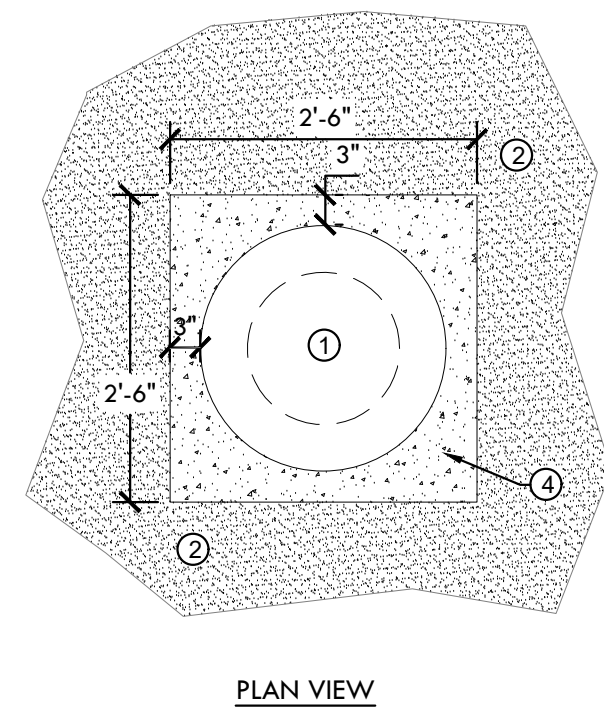
NOTES:
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4 AMPHITHEATER STAIRS - STAGE BACK
L2.2 N.T.S.



- 1 BELSON OUTDOOR SINGLE TRASH RECEPTACLE, MODEL #CBTR-FTRB-BK WITH FLARE TOP AND RAIN BONNET LID. BLACK. TYPICAL 3 PLACES. INSTALL PER MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- 2 FINISH GRADE OF DECOMPOSED GRANITE 1/4" BELOW CONCRETE AFTER COMPACTION. SEE DETAIL 5/L-2.3
- 3 3/4" AGGREGATE BASE, 4" DEEP COMPACTED TO 90% RELATIVE DENSITY
- 4 CONCRETE PAD: 2'-6" X 2'-6" X 4" WITH LIGHT BROOM FINISH AND 1/2" TOOLED RADIUS EDGE. TOP OF CONCRETE PAD TO BE 1/4" BELOW GRADE OF DECOMPOSED GRANITE AFTER COMPACTION
- 5 NATIVE UNDISTURBED SUBGRADE

5 TRASH RECEPTACLE
L2.2 N.T.S.



- 1 CONCRETE SLAB PER PLAN AND SPECIFICATION
 - 2 3/4" CLASS II AGGREGATE BASE, COMPACTED IN 6" LIFTS TO 90% RELATIVE DENSITY.
 - 3 EXPANSION JOINT AND FILLER; INITIAL GAP 1/2" X DEPTH OF CONCRETE TO 1/2" BELOW TOP SURFACE. CAP TOP 1/2" WITH RESILIENT ELASTOMERIC SEALANT
 - 4 EXPANSION JOINT 1/2" X 12" STAINLESS STEEL DOWEL PENCIL ROD AT 12" O.C. COAT TO PREVENT BONDING ON ONE END
 - 5 EXPANSION JOINT RESILIENT ELASTOMERIC SEALANT; INSTALL AT TOP 1/2" OF JOINT FILLER. COLOR TO MATCH CONCRETE AND MAKE LEVEL WITH CONCRETE FINISH GRADE
 - 6 CONTROL JOINT; 1/4 DEPTH OF CONCRETE SLAB WITH MIN. DEPTH OF 1". SPACING AT 8FT- 12FT MAX.
 - 7 CONTROL JOINTS SHALL BE SAW CUT AND BEVELED WITH A MIN. WIDTH OF 1/8" MIN.
 - 8 CONTROL JOINT; 1/8" RADIUS EDGE (TYPICAL)
- NOTE:
EXPANSION JOINTS SHALL BE FORMED AS SHOWN ON PLANS, AT ALL RADIUS POINTS, AT THE END OF THE DAYS WORK AND AT ALL COLD JOINTS.
- CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON PLANS, AT EVERY 8FT-12FT MAX. WITH A MIN. DEPTH OF 1/4 THE SLAB THICKNESS AND NEVER LESS THAN 1". LOCATED TO COINCIDE WITH THE LINE OF FORM WORK WHEREVER POSSIBLE.

6 CONCRETE EXPANSION AND CONTROL JOINTS
L2.2 N.T.S.



LICENSE
CONSULTANT

CLIENT
FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT
RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE
CONSTRUCTION ELEVATIONS & DETAILS

DATES

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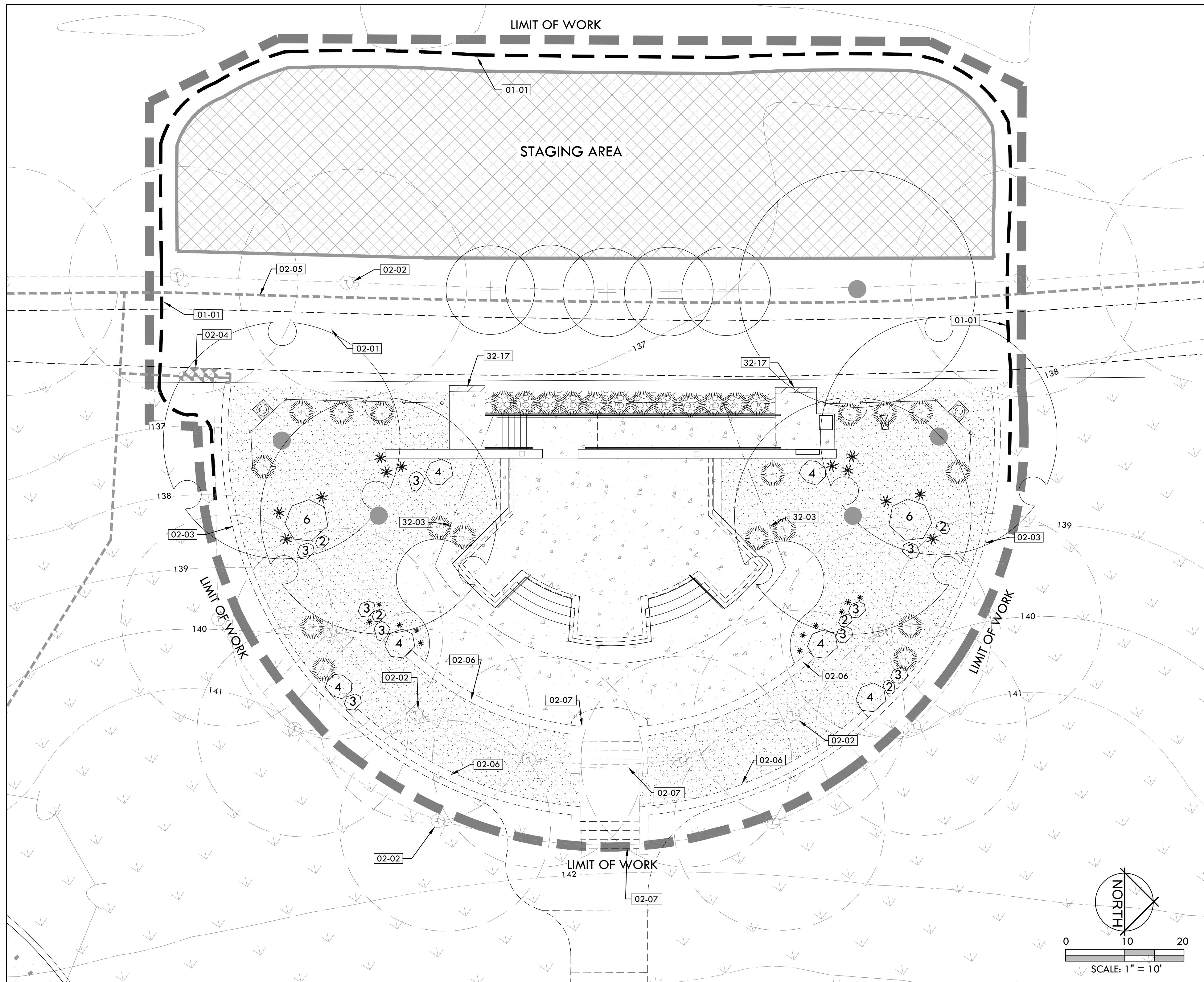
PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER

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PLOT DATE: MARCH 3, 2020 - 5:00 PM

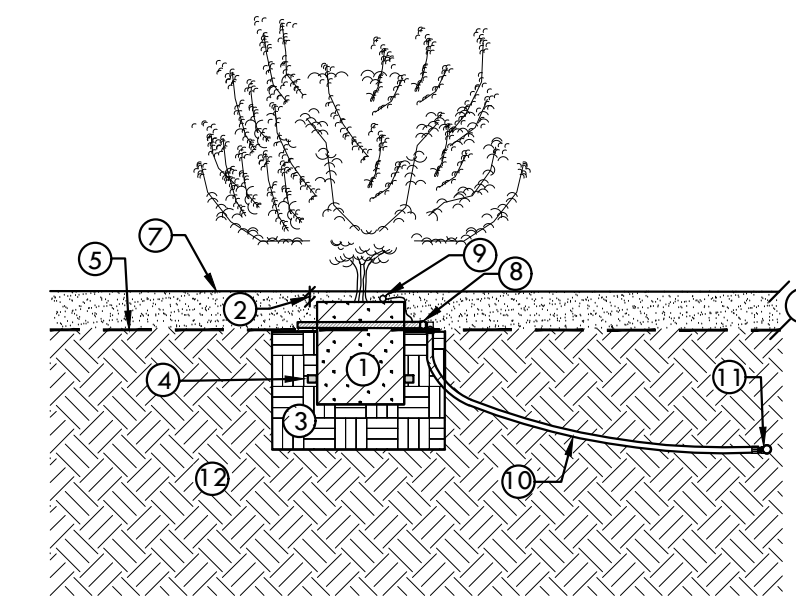


PLANT SCHEDULE - AMPHITHEATER

TREES	CODE	COMMON NAME	BOTANICAL NAME	SIZE	WATER USE	HxW	QTY	DETAIL
	AA	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'JEFFSRED' TM	15 GAL	MEDIUM	50'X40'	4	2/L3.0
	PR	CALIFORNIA SYCAMORE	PLATANUS RACEMOSA	15 GAL	MEDIUM	60'X40'	1	2/L3.0
	PN	LOMBARDY POPLAR	POPULUS NIGRA 'ITALICA'	15 GAL	MEDIUM	40'X15'	5	2/L3.0
SHRUBS	CODE	COMMON NAME	BOTANICAL NAME	SIZE	WATER USE	HxW	QTY	DETAIL
	CK	FEATHER REED GRASS	CALAMAGROSIS X ACUTIFLORA 'KARL FOERSTER'	15 GAL	LOW	2'X6'	12	1/L3.0
	MR	DEER GRASS	MUHLENBERGIA RIGENS	5 GAL	LOW	4'X4'	25	1/L3.0
	PH	HAMELN FOUNTAIN GRASS 'LITTLE BUNNY'	PENNISETUM ALOPECUROIDES 'HAMELN'	5 GAL	LOW	1' X 1'	14	1/L3.0

PLANT NOTES

- VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- ALL PLANT MATERIAL TO BE SET UP FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. NO SUBSTITUTIONS FOR PLANT MATERIAL WILL BE ALLOWED UNLESS PRIOR ARRANGEMENTS HAVE BEEN APPROVED BY LANDSCAPE ARCHITECT. IN THE EVENT OF PLANT MATERIAL UNAVAILABILITY, CONTACT LANDSCAPE ARCHITECT FOR ALTERNATIVE SOURCES OR APPROVED SPECIES SUBSTITUTION.
- PLANT QUANTITIES ARE FOR CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO CONFIRM EXACT NUMBER.
- TREE STAKES ARE TO BE PLACED PERPENDICULAR TO PREVAILING WINDS. REMOVE NURSERY STAKES, REPLACE WITH STAKES PER DETAIL. TREE TIES SHALL BE CINCH-TIE OR EQUAL.
- ALL TREE AND SHRUB PLANTINGS TO HAVE DECOMPOSED GRANITE PLACED AROUND PLANT BASE PER PLANTING DETAILS. SEE CONSTRUCTION PLAN.
- REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

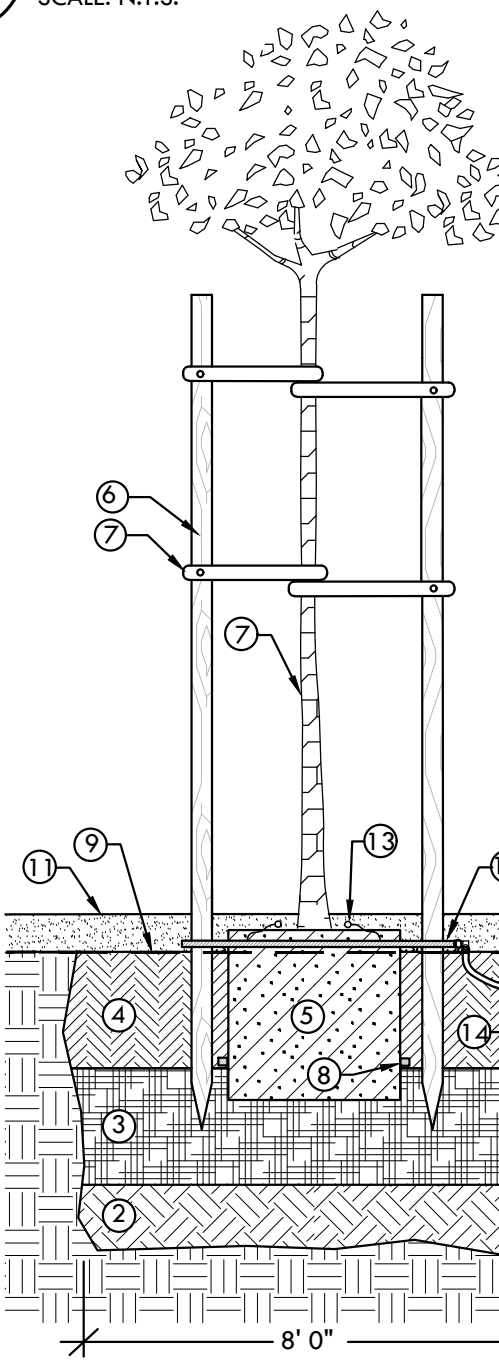


SECTION VIEW

- SHRUB AND ROOT BALL PER PLANTING PLAN
- SET ROOT CROWN 1" BELOW FINISH GRADE OF DECOMPOSED GRANITE.
- PLANTING HOLE AND MIX BACKFILL PER SPECIFICATIONS. PLANTING PIT TO BE TWICE DIAMETER OF ROOT BALL
- FERTILIZER TABLETS; TYPE AND QUANTITY PER PLANTING SPECIFICATIONS
- FILTER FABRIC PER PLANTING PLAN; INSTALL BENEATH 4" DECOMPOSED GRANITE ON TERRACE. NO FILTER FABRIC BELOW 6" DECOMPOSED GRANITE ON TRANSITION ZONE. SEE CONSTRUCTION PLAN
- 4" DECOMPOSED GRANITE OVER FABRIC OR 6" DECOMPOSED GRANITE WITHOUT FABRIC BASED ON PLANT LOCATION. SEE CONSTRUCTION PLAN.
- FINISH GRADE OF DECOMPOSED GRANITE
- DRIP LINE SHRUB RING - MANUFACTURER AND MODEL PER PLAN. INSTALL AT GRADE ON TOP OF FABRIC AND SECURE AT 3" INTERVALS WITH 6" GALVANIZED SOIL STAPLES (MIN. 3 PINS PER SHRUB RING). SUE FABRIC BELOW DRIP RING TO ALLOW WATER TO FLOW DOWNWARD.
- SUPPLEMENTAL 1 GPH PC EMITTER; PLACE ON TOP OF ROOT BALL AND SECURE WITH 6" GALVANIZED SOIL STAPLE.
- BLANK DRIP LINE TO PVC LATERAL; NOT TO EXCEED 48" IN LENGTH
- PVC LATERAL LINE AND START CONNECTION
- NATIVE SUBGRADE

1 SHRUB PLANTING AND DRIP LAYOUT

L-3.0 SCALE: N.T.S.

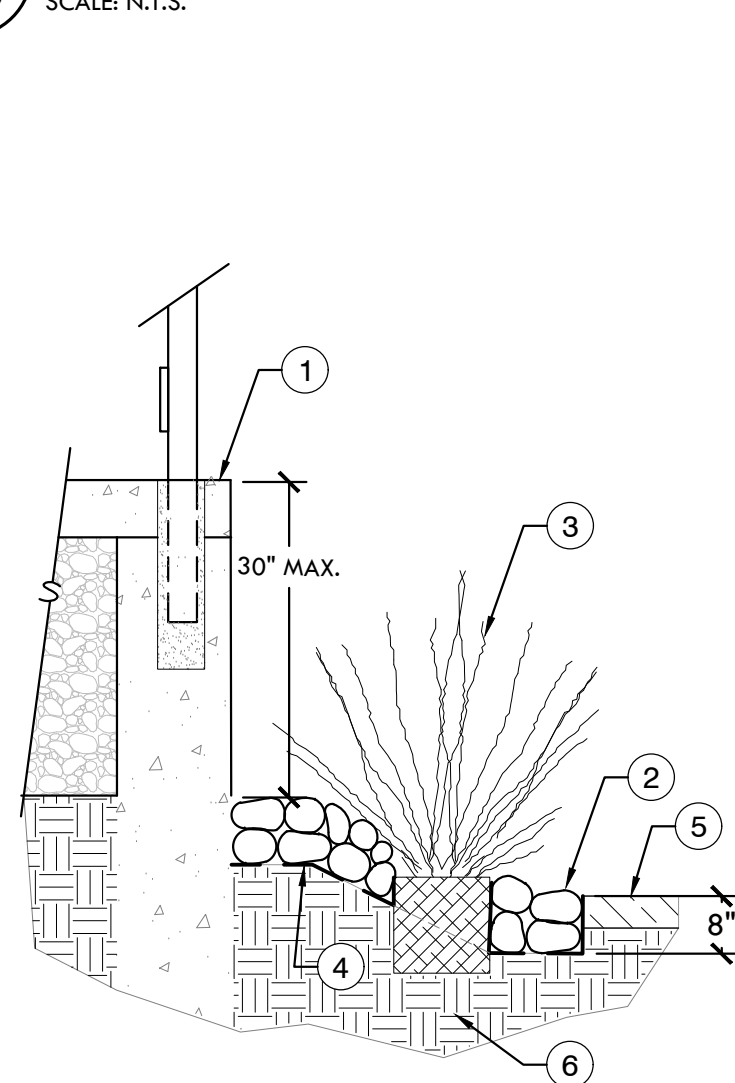


SECTION VIEW

- EXCAVATE TO DEPTH OF 48"
- ROUGHLY SCARIFY TO 60" DEPTH, LEAVE IN PLACE.
- SOIL MIX - 50% IMPORT TOP SOIL, 50% EXISTING SITE SOIL
- 24" DEPTH IMPORT TOP SOIL
- ROOT BALL, SET CROWN 1" ABOVE FINISH GRADE
- (2) 2", 10' LODGEPOLE STAKE CUT OFF BELOW LOWEST LIMB. PLACE STAKES PERPENDICULAR TO PREVAILING WINDS.
- 32" CINCH TIE TREE TIES AT (2) PLACES PER STAKE
- FERTILIZER TABLETS, AS PER SPECIFICATIONS
- FILTER FABRIC PER PLANTING PLAN; INSTALL BENEATH 4" DECOMPOSED GRANITE ON TERRACE. NO FILTER FABRIC BELOW 6" DECOMPOSED GRANITE ON TRANSITION ZONE. SEE CONSTRUCTION PLAN.
- 4" DECOMPOSED GRANITE OVER FABRIC OR 6" DECOMPOSED GRANITE WITHOUT FABRIC BASED ON PLANT LOCATION. SEE CONSTRUCTION PLAN.
- FINISH GRADE OF DECOMPOSED GRANITE
- DRIP LINE SHRUB RING - MANUFACTURER AND MODEL PER PLAN. INSTALL AT GRADE ON TOP OF FABRIC AND SECURE AT 3" INTERVALS WITH 6" GALVANIZED SOIL STAPLES (MIN. 3 PINS PER SHRUB RING). SUE FABRIC BELOW DRIP RING TO ALLOW WATER TO FLOW DOWNWARD.
- SUPPLEMENTAL 1 GPH PC EMITTER (TYP 2 PLCS); PLACE ON TOP OF ROOT BALL AND SECURE WITH 6" GALVANIZED SOIL STAPLE.
- BLANK DRIP LINE TO PVC LATERAL; NOT TO EXCEED 48" IN LENGTH
- PVC LATERAL LINE AND START CONNECTION
- NATIVE SUBGRADE

2 TREE PLANTING AND DRIP LAYOUT

L-3.0 SCALE: N.T.S.



- AMPHITHEATER BACK STAGE STEM WALL, RAMP, HANDRAIL; SEE DETAIL 1/L-2.1 AND 9/L-2.3
- COBBLE GROUNDCOVER; 4"-10" CLEAN COBBLE. INSTALL 2 LAYERS OF COBBLE WITH WEED BARRIER FABRIC. MATCH EXISTING GRADE AT WALK. COORDINATE WITH DISTRICT TO LOCATE ONSITE COBBLE SUPPLIES. CLEAN TO REMOVE DIRT AND DEBRIS
- SHRUB PER PLANTING PLAN. PLACE SHRUB AT TOP GRADE OF COBBLE GROUNDCOVER. SEE SOIL AMENDMENTS A PREP PER DETAIL 1/L-3.0
- WEED BARRIER FABRIC; WOVEN POLYPROPYLENE, UV RESISTANCE, 4.1 OX. PER SQUARE YARD. INSTALL UNDER COBBLE AND SECURE AT 3" O.C. WITH 6" GALVANIZED LANDSCAPE PINS
- (E) ASPHALT PATH; RETAIN AND PROTECT
- NATIVE UNDISTURBED SUBGRADE

3 SHRUB PLANTING IN COBBLE GROUNDCOVER

L-3.0 SCALE: N.T.S.



LICENSE
CONSULTANT

CLIENT
FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT
RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE
PLANTING PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/21/20
2.	--	--
3.	--	--
4.	--	--
5.	--	--
6.	--	--
7.	--	--
8.	--	--

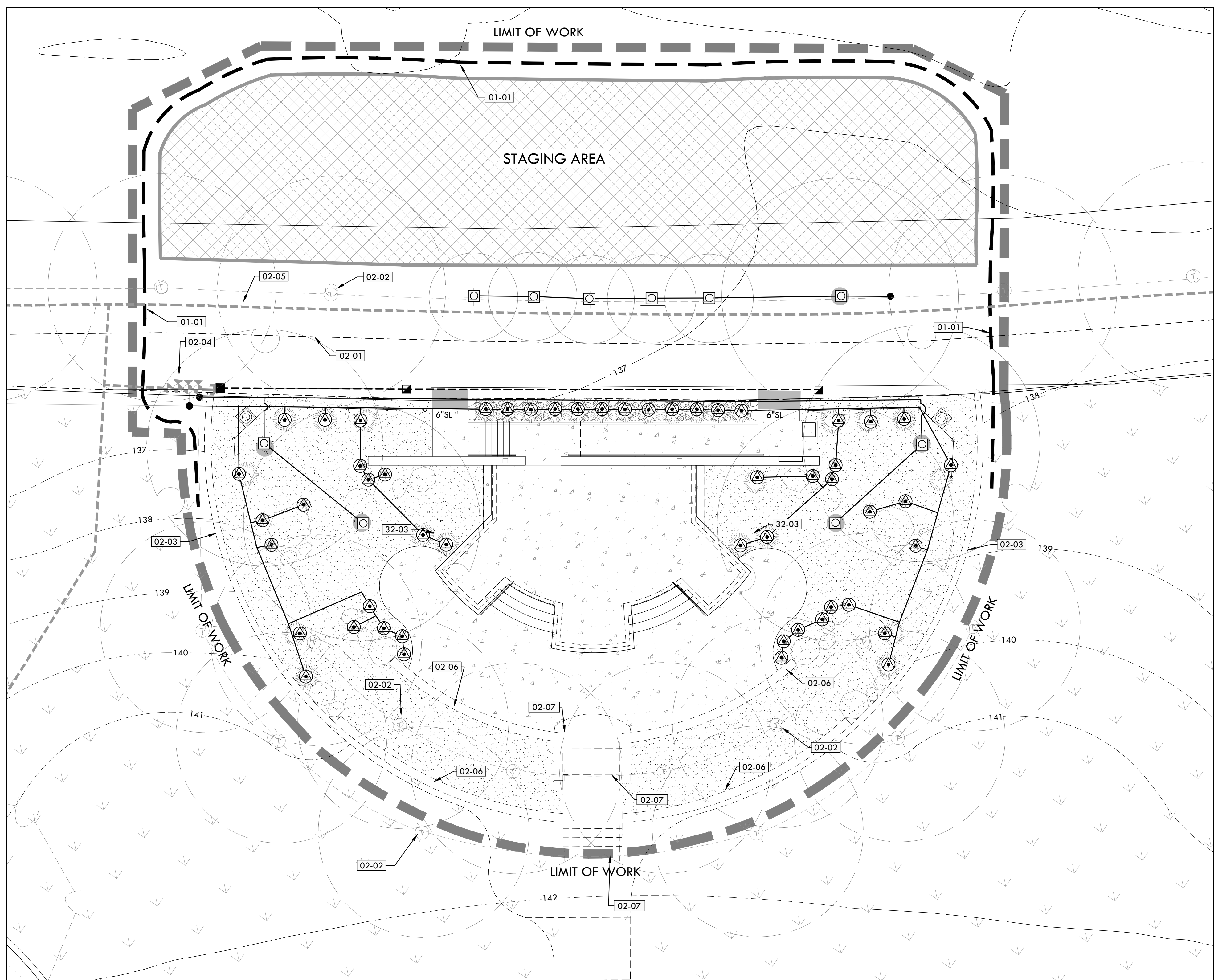
PLOT DATE: --

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER

L-3.0



IRRIGATION SCHEDULE - AMPHITHEATER

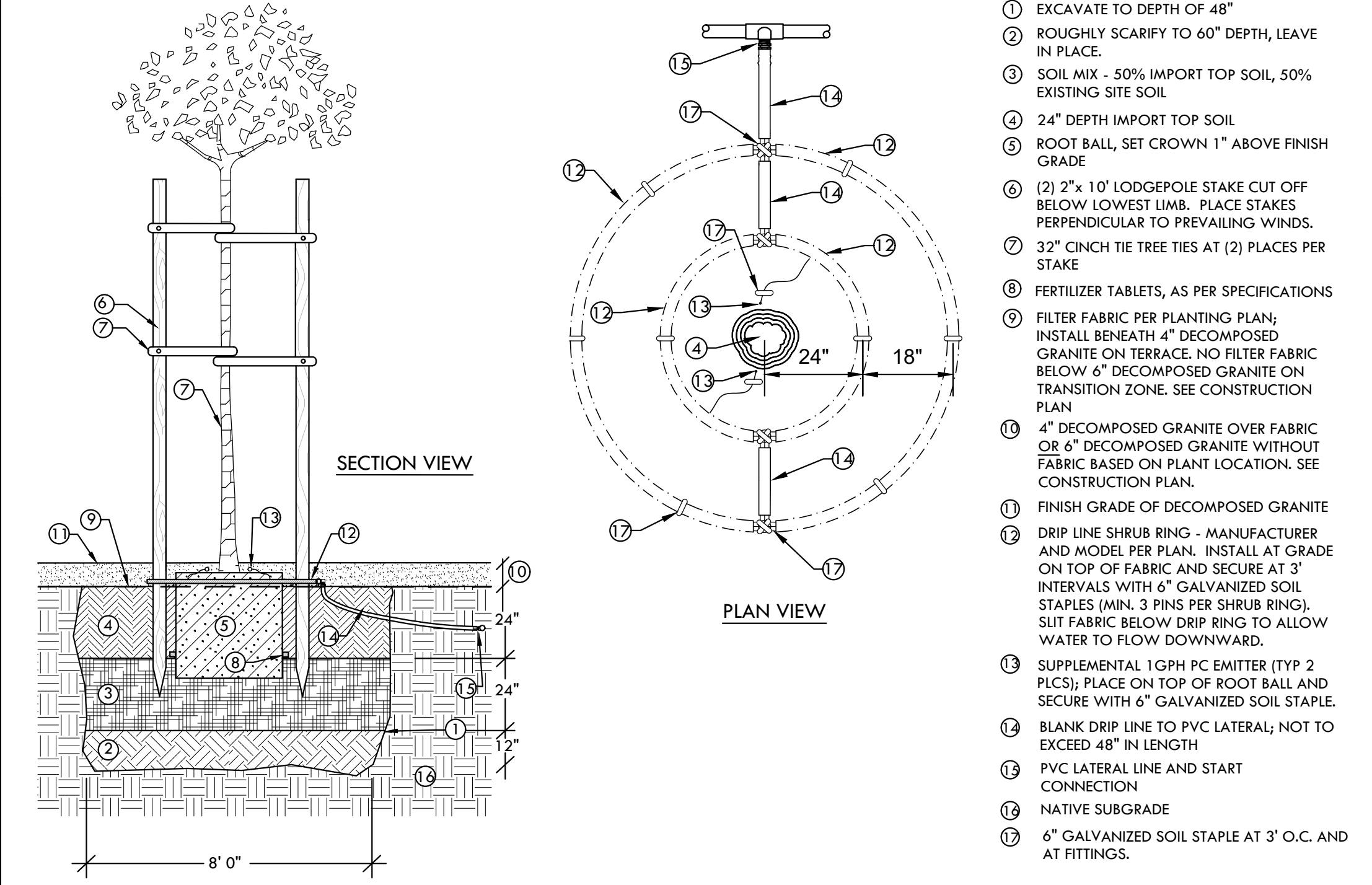
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
■	MAIN LINE POINT OF CONNECTION - 6" TAP INTO (E) 6" CL-200 MAIN LINE USING LEMCO MODEL RSD604 6" x 2" SADDLE WITH DOUBLE STRAPS AND 2" FPT OUTLET. INSTALL NEW 2" MAIN LINE TO QUICK COUPLER VALVE AS SHOWN. CONTRACTOR SHALL FLUSH MAIN LINE OF ALL DEBRIS TO PREVENT CLOGGING OF (E) IRRIGATION COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WORK WITH DISTRICT PRIOR TO WORKING ON (E) IRRIGATION. IRRIGATION RECORD DRAWINGS AVAILABLE UPON REQUEST. SEE DETAILS.	1/L-4.0
●	LATERAL POINTS OF CONNECTION - 1-1/4" TAP INTO (E) 1-1/4" LATERAL AND INSTALL NEW LATERAL AS SHOWN. CONTRACTOR SHALL FLUSH SYSTEM OF ALL DEBRIS TO PREVENT CLOGGING OF (E) DRIP IRRIGATION COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WORK WITH DISTRICT PRIOR TO WORKING ON (E) IRRIGATION. IRRIGATION RECORD DRAWINGS AVAILABLE UPON REQUEST. SEE DETAIL.	---
▲	RAIN BIRD QUICK COUPLER VALVE, 441RC 1" BRASS QUICK COUPLER VALVE WITH LOCKING YELLOW RUBBER COVER. PROVIDE (1) 44K KEY AND (1) SH-1 HOSE SWIVEL TO DISTRICT AT CLOSE OUT. SEE DETAIL.	3/L-4.0
⊙	DRIP SHRUB RING - NETAFIM TLCV4-12 INSTALL SHRUB DRIP RING USING SIX (6) EMITTERS PER RING AT 12" O/C SPACING PLUS (1) EMITTER AT ROOT BALL; MANUFACTURER AND MODEL PER PLAN. INSTALL SHRUB RING 12" OFF SHRUB CENTER AND PLACE SINGLE EMITTER EQUAL DISTANCE BETWEEN SHRUB CENTER AND OUTSIDE DIMENSION OF ROOT BALL. SEE DETAIL.	4/L-4.0
⊠	DRIP TREE RING - NETAFIM TLCV4-18 INSTALL TREE DRIP RING USING SIX (6) EMITTERS PER RING AT 12" O/C SPACING PLUS (1) EMITTER AT ROOT BALL; MANUFACTURER AND MODEL PER PLAN. INSTALL FIRST TREE RING 24" OFF TREE CENTER AND SUBSEQUENT RINGS AT 18" OFFSET. PLACE TWO (2) EMITTERS OPPOSITE EACH OTHER AT EQUAL DISTANCE BETWEEN TREE CENTER AND OUTSIDE DIMENSION OF ROOT BALL. SEE DETAIL.	5/L-4.0
---	IRRIGATION LATERAL LINE: 3/4" PVC SCHEDULE 40. SEE DETAIL.	2/L-4.0
---	IRRIGATION MAINLINE: 2" PVC SCHEDULE 40. SEE DETAIL.	2/L-4.0
---	PIPE SLEEVE: SIZE PER PLAN 6" AND LARGER - HPDE WITH SMOOTH INTERIOR WALL AND 4" AND SMALLER - PVC SCH40 PIPE. INSTALL MAINLINE AND LATERALS IN SLEEVES WHEN CROSSING BENEATH PATHS, WALKS, CURBS, STAIRS, PAVING, ETC.. SLEEVE SIZE FOR MULTIPLE PIPES. SEE DETAIL.	2/L-4.0

EXISTING CONDITIONS NOTES

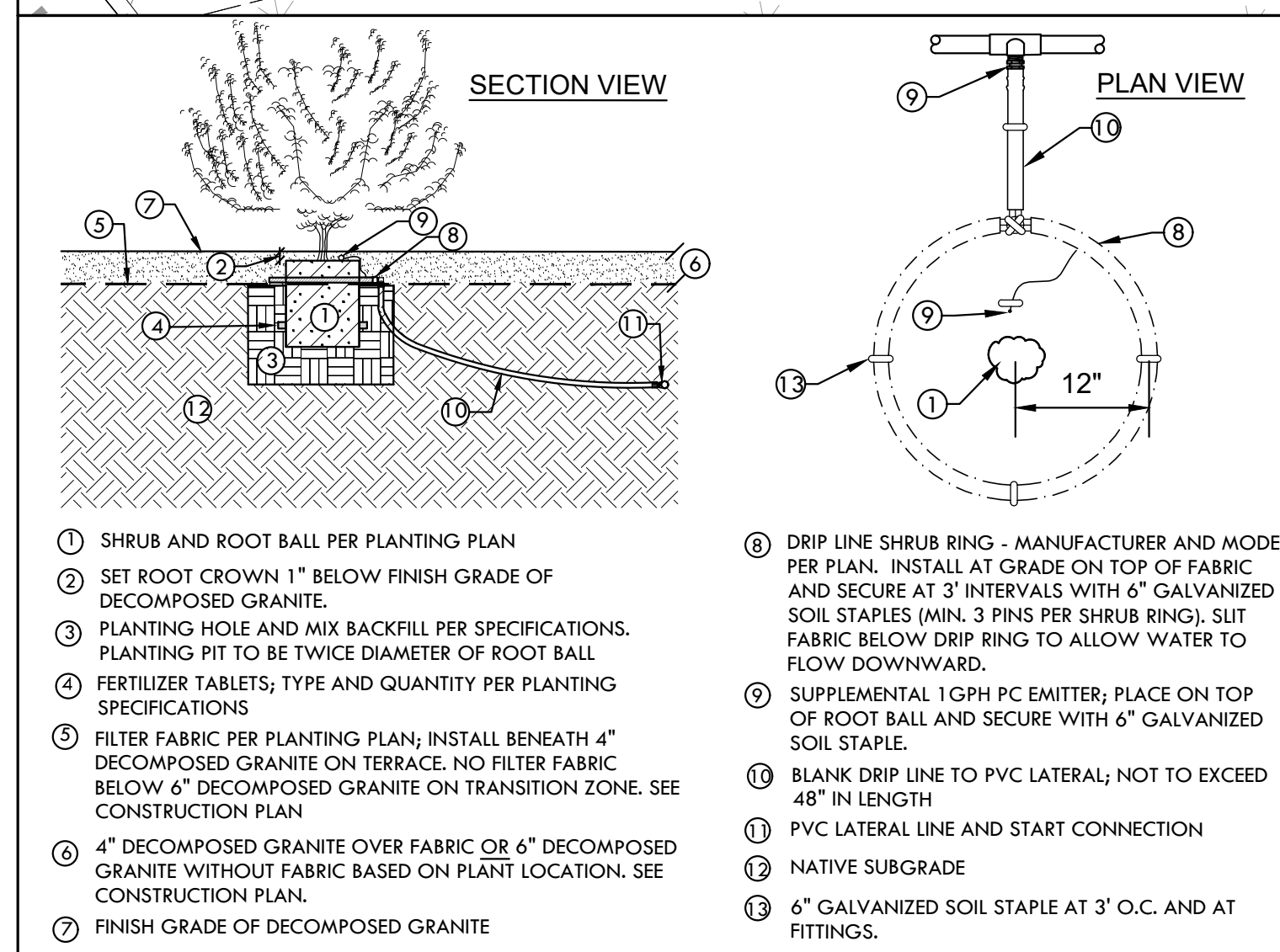
- THE CONTRACTOR IS REQUIRED TO PROTECT ALL EXISTING FACILITIES, WHETHER DESCRIBED IN THE CONTRACT OR NOT, THAT ARE TO REMAIN IN PLACE. TEMPORARILY OR PERMANENTLY. WHEN EXISTING FACILITIES ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS OR NEGLIGENCE, THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT.
- BEFORE WORK BEGINS, THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT EXISTING FACILITIES THAT ARE TO BE RE-LAID, RESET, RELOCATED OR RECONSTRUCTED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO REVIEW RECORD DRAWINGS, UTILITY PLANS, MAINTENANCE RECORDS AND BE FAMILIAR WITH EXISTING CONDITIONS. CONTACT LANDSCAPE ARCHITECT IF YOU HAVE ANY QUESTIONS REGARDING EXISTING CONDITIONS.
- WORK SHOWN ON PLANS AND DESCRIBED IN CONTRACT DOCUMENTS INCLUDES ADJUSTING, MODIFYING, RECONSTRUCTING, RELAYING, RELOCATING, REMOVING, REPAIRING OR RESETTING EQUIPMENT; MAY OVERLAP WITH AREAS THAT ARE ALSO SHOWN TO BE CLEARED AND GRUBBED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN AND PROTECT EXISTING IRRIGATION THAT IS NOT DESIGNATED FOR ABANDONMENT OR REPLACEMENT THROUGHOUT THE DURATION OF THE PROJECT.
- SEE CONTRACT DOCUMENTS, GENERAL CONDITIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.

IRRIGATION NOTES

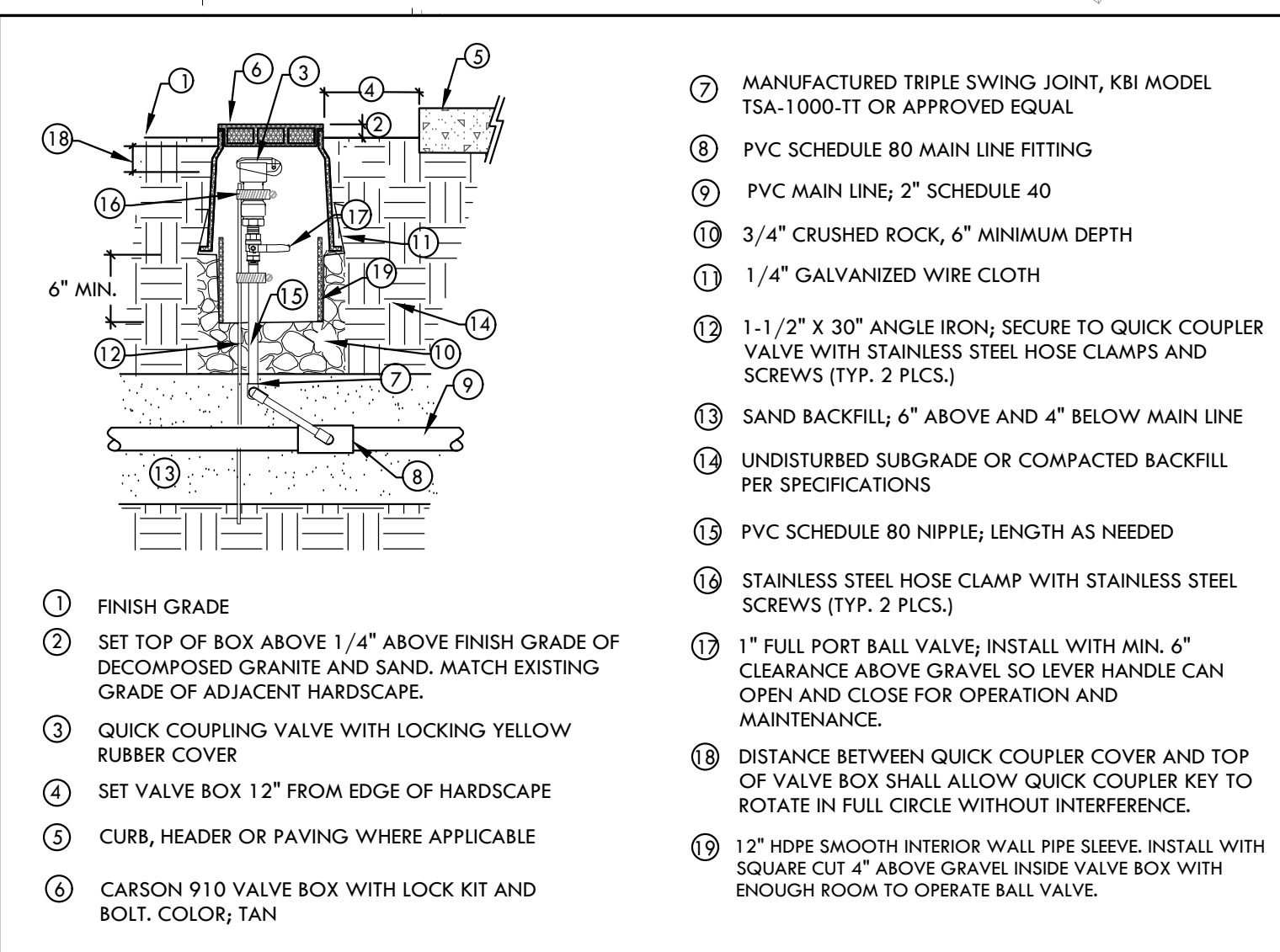
- THE INTENT OF THE IRRIGATION SYSTEM IS TO TAP INTO THE EXISTING TREE LATERAL LINE AND INSTALL NEW LATERAL AND TREE/SHRUB DRIP RINGS TO NEW PLANT MATERIAL.
- THE CONTRACTOR SHALL RETAIN AND PROTECT EXISTING IRRIGATION. POT HOLE AS NEEDED TO FIELD VERIFY LOCATIONS OF EXISTING MAIN LINE, CONDUIT/WIRE CABLE, MAIN LINE VALVES, REMOTE CONTROL VALVES, LATERALS AND DRIP RINGS. RECORD DRAWINGS FOR RIVERBEND PHASE 1 IRRIGATION ARE AVAILABLE FROM LANDSCAPE ARCHITECT UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE COMPLETE RECORD DRAWINGS TO OWNER AT COMPLETION OF PROJECT AND AS REQUIRED BY CONTRACT DOCUMENTS.
- THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT THE FOLLOWING PRESSURE: TREE/SHRUB RINGS, DRIP IRRIGATION-40 PSI. ALL TREE/SHRUB DRIP RINGS SHALL BE INSTALLED BY THE CONTRACTOR AT THE NEW TREE AND SHRUB PLANT LOCATIONS INDICATED ON THE DRAWINGS.
- TRENCH IRRIGATION LATERAL LINES TO A DEPTH OF 18" FOR TREE/SHRUB RINGS.
- MINIMUM LATERAL PIPE SIZE SHALL BE 3/4" PVC SCHEDULE 40 PIPE FOR DRIP IRRIGATION SYSTEMS.



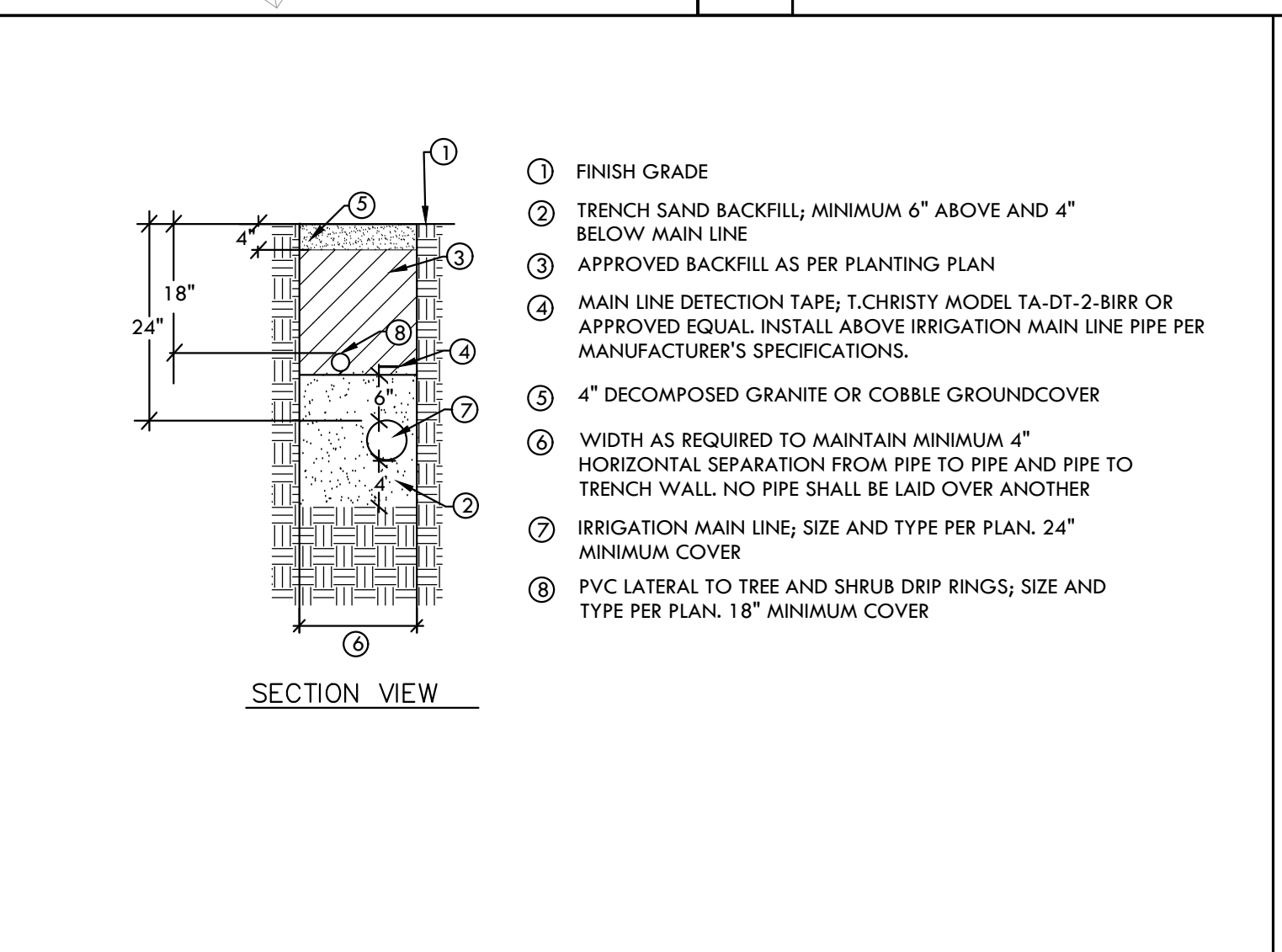
5 TREE PLANTING AND DRIP LAYOUT



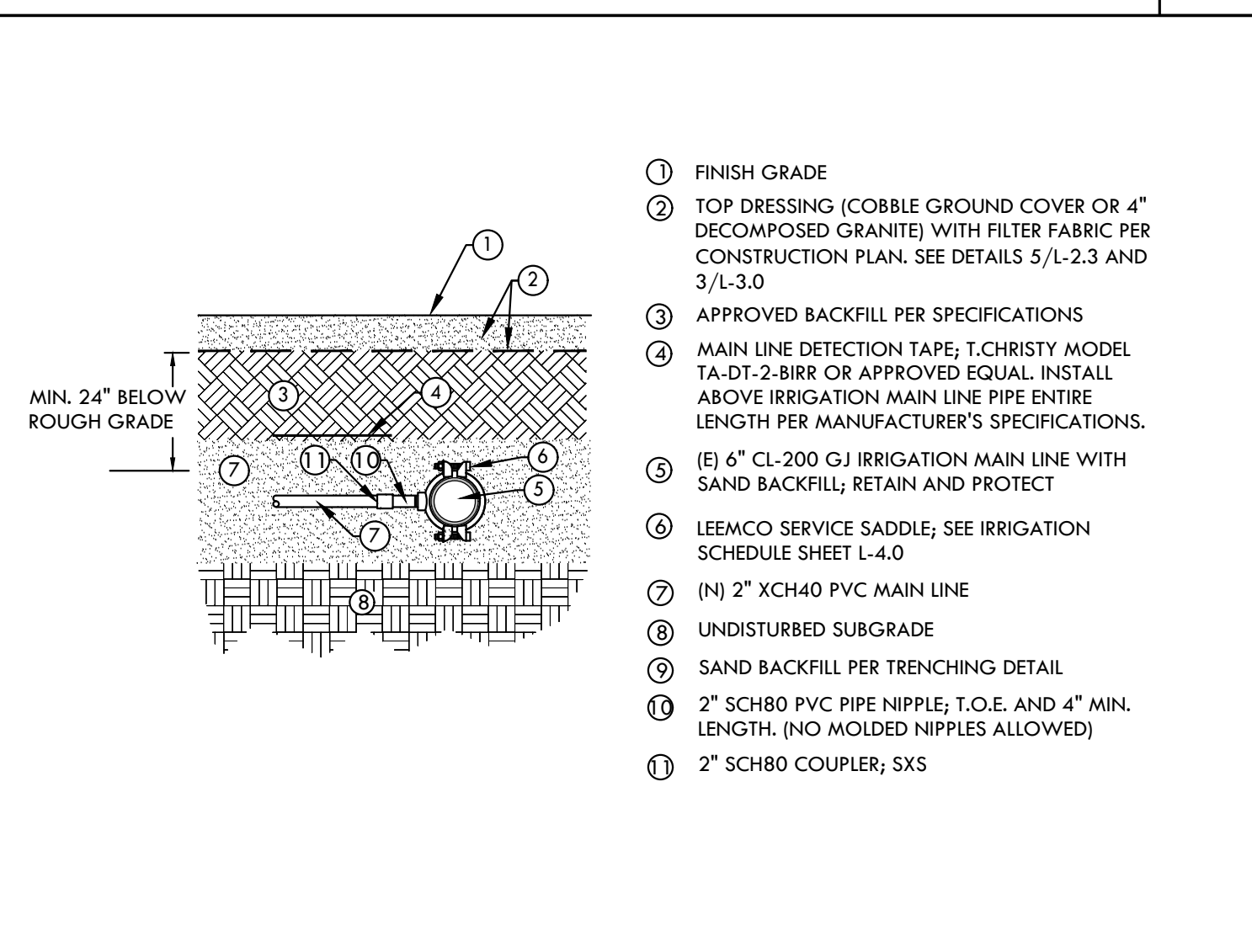
4 SHRUB PLANTING AND DRIP LAYOUT



3 QUICK COUPLER VALVE



2 TRENCHING



1 MAIN LINE POINT OF CONNECTION

MDG
MELTONDESIGNGROUP, INC.
820 BROADWAY ST.
CHICO, CA 95928
(530) 899-1616
meltondg.com

LICENSE

CONSULTANT

CLIENT
FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT
RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE
IRRIGATION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/21/20
2.	-	-
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-

PLOT DATE: --

PROJECT NUMBERS
MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT NO.: --

SHEET NUMBER
L-4.0

PLOT DATE: MARCH 3, 2020 - 5:00 PM

GENERAL CONDITIONS:

- 1-1 All work shall be in conformance with the California Building Code referenced in the "Structural Design Criteria" and applicable Municipal, State, Federal, and OSHA Safety regulations.
- 1-2 The drawings represent the finished structure. The Builder is responsible for the methods of construction including forming, shoring, bracing, etc. The Builder shall provide all measures necessary to protect people and property during construction.
- 1-3 The Builder is responsible for obtaining all necessary permits from all governing agencies. All work is subject to Building Department field inspector's approval. If a certificate of occupancy is not obtained by the owner for this project, then the engineer assumes no liability for this structure.
- 1-4 The Builder shall verify all dimensions, details and job site conditions prior to commencing work and notify the Engineer in writing of any discrepancies before purchasing materials or labor.
- 1-5 Should any changes be made from the design as specified in these drawings without written approval from the Engineer, then the Engineer will assume no responsibility for the structure.
- 1-6 Additional plans that may be included with this plan set (site plan, electrical, plumbing) are by others. The builder is responsible for coordinating and ensuring accuracy of plans by others.
- 1-7 If certain features of the structure are not fully shown or detailed on the plans, their construction shall be of similar character to conditions shown on the plans.
- 1-8 All sheets that contain engineering requirements included in this plan set must be wet signed and stamped by the engineer to be valid.
- 1-9 Any conditions noted as existing must be field verified by the contractor and any discrepancies must be brought to the attention of the engineer prior to continuing with construction.

FOUNDATION / SITE WORK:

- 2-1 The Builder is responsible for locating all buried objects that may be encountered but that are not shown on these plans. The foundation is designed to be placed on a level pad on undisturbed and non-expansive soil. The Builder shall notify the Engineer in writing if any unusual soil conditions such as organic soils, clay, or uncertified fills are found at the site. The engineer has not made a geo-technical review of the site U.O.N.
- 2-2 All excavations shall be inspected and approved by the Building Official before concrete is poured. Engineered fill may be used as existing grade provided compaction tests are presented to the Engineer indicating a minimum compaction of 90% relative compaction per ASTM D 1557. Fill material shall be free from debris, vegetation, and other foreign substances. All excavations, grading and fills shall conform with 2019 CBC 1804. Footings shall extend into firm native soil with a footing depth below frostline 12" min. U.O.N.
- 2-3 The owner is responsible for providing geo-technical report to builder and engineer if one exists.
- 2-4 The bottom of all footings shall be clean and level.
- 2-5 All finished grade shall slope at a min. of 2% away from all foundations for a min. of 10 feet.
- 2-6 The builder shall be responsible for locating and securing in place all anchor bolts, holdown anchors, post bases, plumbing and other embedded objects prior to placement of concrete.
- 2-7 Footings placed on or adjacent to slopes must comply with figure 1808.7.1 of the 2019 CBC. A geo-technical engineer must approve footing placements in violation of this figure. This engineer shall not be liable for any foundation placed in violation of this section.

CONCRETE:

- 3-1 All concrete shall have a minimum $f'_c = 3,000$ psi after 28 days curing unless otherwise noted. 2,500 psi used for design, so no special inspection is required.
- 3-2 Materials used to produce concrete, concrete itself and testing shall comply with applicable standards listed in ACI 318. Aggregate size shall be a maximum of 1-1/2" in foundations and 3/4" at all other locations.
- 3-3 Curing compound shall be sprayed on all exposed surfaces immediately after final troweling.
- 3-4 All cement used shall conform to ASTM C-150-04 and shall be Type II or Type III low alkali.
- 3-5 Concrete exposed to freezing or thawing shall be protected in accordance to the latest edition of the ACI code and CBC Section 1904.
- 3-6 Vibrate concrete around all bolts, rebar and surfaces. Construction joints shall be clean and wet prior to pouring concrete.
- 3-7 All projecting corners of slabs, beams, columns, etc. shall be formed with a 3/4" chamfer, unless specifically noted otherwise.
- 3-8 Calcium chloride admixtures or chloride-based admixtures shall not be used.

REINFORCING STEEL IN CONCRETE:

- 4-1 Reinforcing steel shall conform to the provisions of ASTM A-615/A 615M-04a, Grade 40 for #4 bars and smaller and Grade 60 for #5 bars and larger. All rebar is to be deformed. #5 and larger rebar shall not be re-bent. Welded wire fabric shall conform to the provisions of ASTM A 185-02.
- 4-2 All lap splices shall not be less than 62 bar diameters of the larger bar. Horizontal laps in adjacent bars shall be staggered 5'-0" minimum.
- 4-3 Reinforcement cover shall be as follows: Concrete cast against soil: 3" clear
Concrete with soil or weather exposure: #5 bars and smaller: 1 1/2" clear
#6 bars and larger: 2" clear
Concrete without soil or weather exposure: 1 1/2" clear
- 4-4 All reinforcing steel shall be clean and accurately secured in position before and during concrete placement.

CONCRETE SLAB CONSTRUCTION:

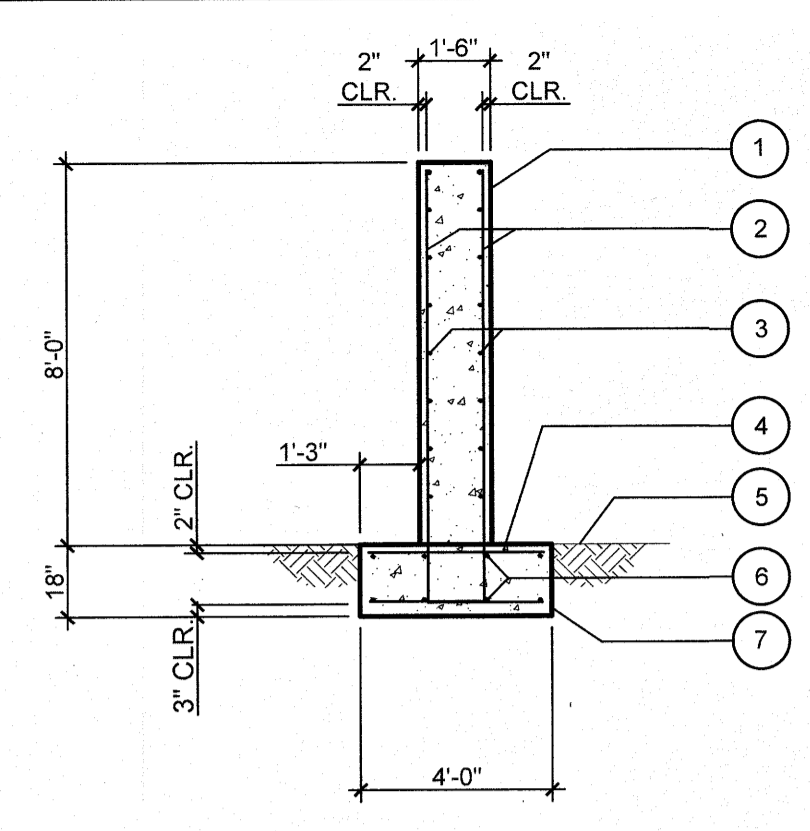
- 5-1 All slabs on grade shall be per the contractor. As such it is the contractor's sole responsibility to take steps to control cracking at all slabs to the satisfaction of the owner.
- 5-2 Gravel or sand base shown is to provide structural base for slab only. No provisions for preventing groundwater infiltration of the slab are included. See plans for requirements.
- 5-3 Slabs on grade shall be 4" minimum thick and placed over 4" minimum of free draining aggregate base compacted to a minimum of 95% relative compaction, unless noted otherwise.
- 5-4 Crack control jointing is designed by the builder, unless shown on foundation plan. The maximum spacing of joints shall not exceed 10' in any direction.

STRUCTURAL SHEET INDEX

SHEET	DESCRIPTION
S-1	FOUNDATION PLAN AND DETAILS FOR SOUND WALL

STRUCTURAL DESIGN CRITERIA

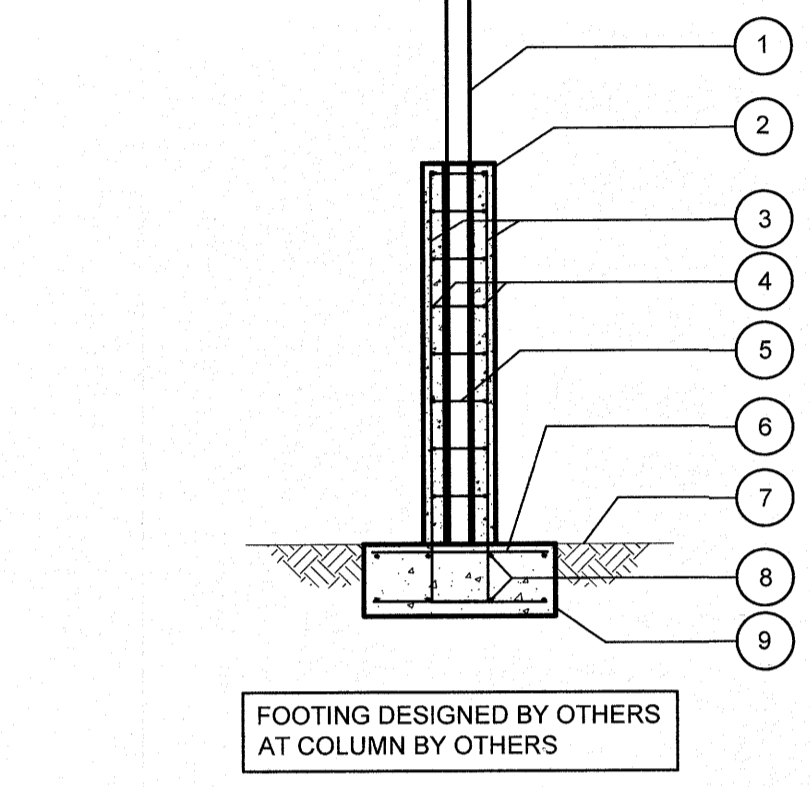
BUILDING CODE: 2019 CALIFORNIA BUILDING CODE
 RISK CATEGORY: II (PER ASCE 7-10 TABLE 1.5-1)
 SNOW LOAD: 0 PSF (PER BLDG. DEPT.)
WIND DESIGN DATA:
 BASIC WIND SPEED: 110 MPH (3 SECOND GUST)
 WIND EXPOSURE: C
 ENCLOSURE CLASSIFICATION: NON BUILDING STRUCTURE (ASCE 7-10 SEC. 26.2)
SEISMIC DESIGN DATA:
 SEISMIC IMPORTANCE FACTOR: 1.00 (TABLE 1.5-2 ASCE 7-10)
 SITE CLASS: D SEISMIC DESIGN CATEGORY: D
 SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 0.3XX$ $S_{D1} = 0.3XX$
 SEISMIC-FORCE-RESISTING SYSTEM: WOOD SHEARWALL
 DESIGN BASE SHEAR: SEE STRUCTURAL CALCULATIONS
 SEISMIC RESPONSE COEFFICIENT: $R = 6.5$
 RESPONSE MODIFICATION FACTOR: $C_s = 0.3XX$
SOIL DATA:
 SOIL BEARING: 1,500 PSF PER CBC TABLE 1806.2



- 1. CONCRETE WALL w/ VENEER/FINISH PER PLANS BY OTHERS
- 2. #5 @ 9" O.C. VERTICAL @ EACH FACE AS SHOWN
- 3. #5 @ 18" O.C. HORIZONTAL @ EACH FACE AS SHOWN
- 4. #5 @ 9" O.C. TO BE CONTINUOUS THROUGH COLUMN FOOTINGS BY OTHERS
- 5. UNDISTURBED SOIL
- 6. 8-#5 TOP AND BOTTOM AS SHOWN TO BE CONTINUOUS THROUGH COLUMN FOOTINGS BY OTHERS
- 7. CONCRETE FOOTING

STAGE WALL

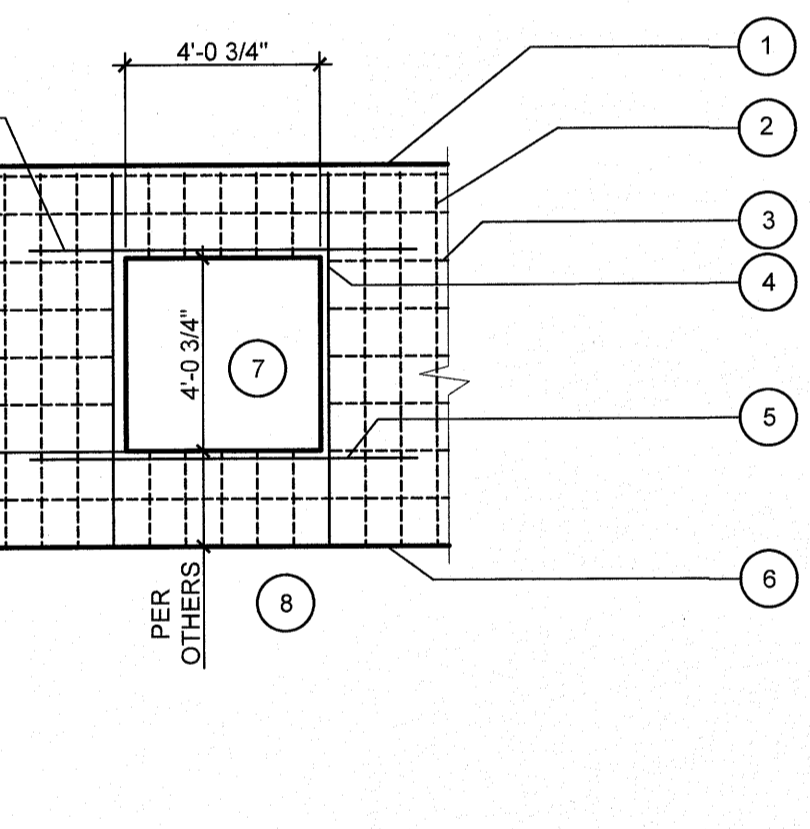
N.T.S. 1



- 1. WET-SET COLUMN & BASE BY OTHERS WRAPPED w/ 1/2" THICK RIGID FOAM OR EQUAL EXPANSION MATERIAL ON ALL SIDES TO REMAIN BETWEEN CONCRETE AND STEEL AFTER POUR
- 2. WALL PER DETAIL 1
- 3. VERTICAL STEEL PER DETAIL 1
- 4. HORIZONTAL STEEL PER DETAIL 1
- 5. #4 HORIZONTAL HOOP TIES @ 12" O.C. w/ 2 1/2" CLEAR TO STEEL FACE OF COLUMN ON 4 SIDES. 4" LEG OVERLAP @ EA END OF HOOP
- 6. #5 @ 9" O.C. TO BE CONTINUOUS THROUGH COLUMN FOOTINGS BY OTHERS
- 7. UNDISTURBED SOIL
- 8. 8-#5 TOP AND BOTTOM AS SHOWN TO BE CONTINUOUS THROUGH COLUMN FOOTINGS BY OTHERS
- 9. CONCRETE FOOTING BY OTHERS @ STEEL COLUMNS

STAGE WALL @ COLUMN

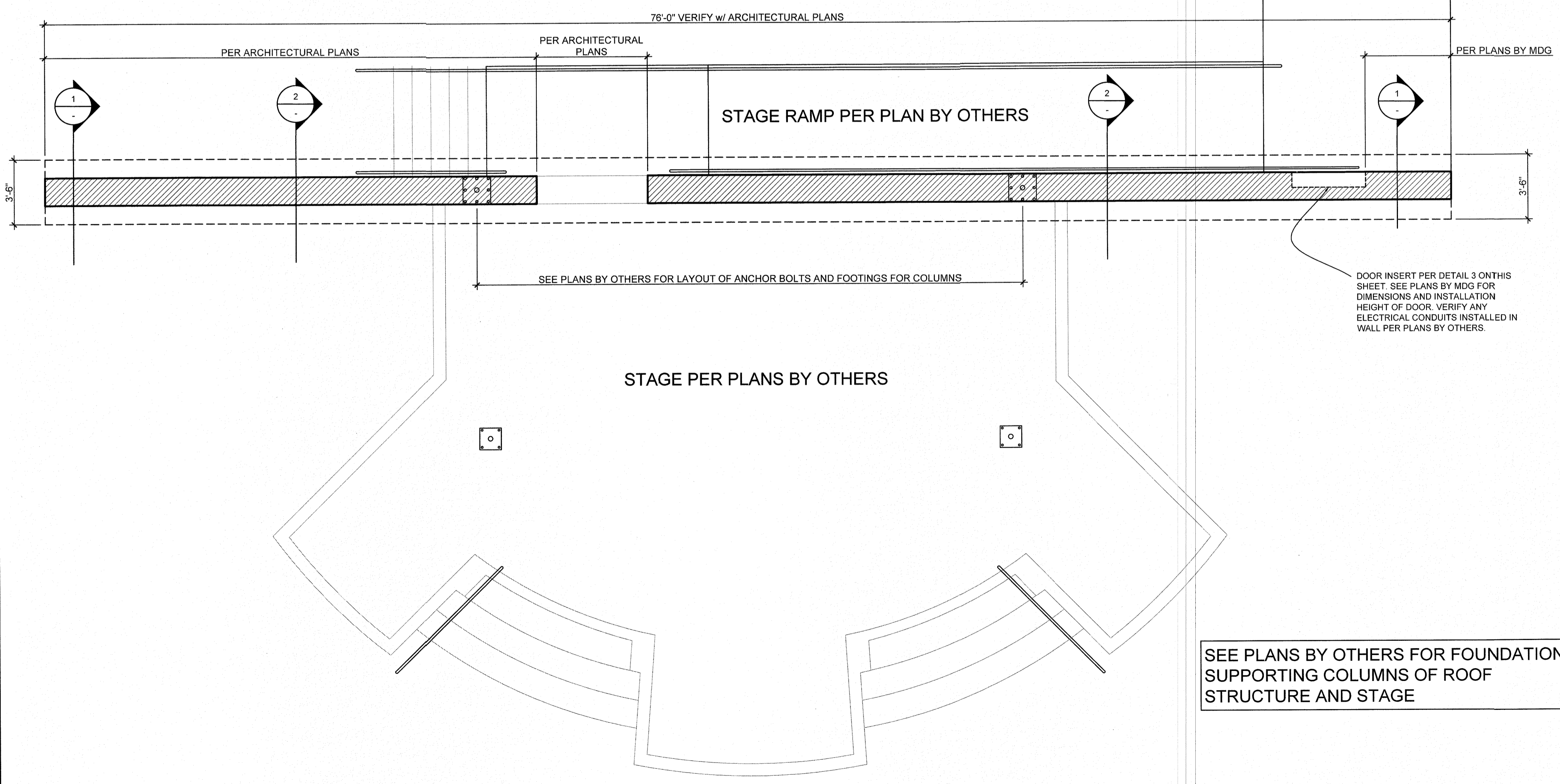
N.T.S. 2



- 1. TOP OF WALL PER PLAN
- 2. VERTICAL STEEL PER DETAIL 1
- 3. HORIZONTAL STEEL PER DETAIL 1
- 4. ADD VERTICAL #5 @ 2" CLEAR TO FACE OF OPENING ON EACH SIDE
- 5. ADD HORIZONTAL #5 w/ 2" CLEAR TO FACE OF OPENING AND EXTEND 24" PAST OPENING ON EACH SIDE
- 6. BOTTOM OF WALL PER PLAN
- 7. METAL DOOR INSERT BY OTHERS. ATTACHMENT OF DOOR TO WALL BY OTHERS (FOOTING BELOW NOT SHOWN)
- 8. PER OTHERS

ELECTRICAL DOOR INSERT

N.T.S. 3

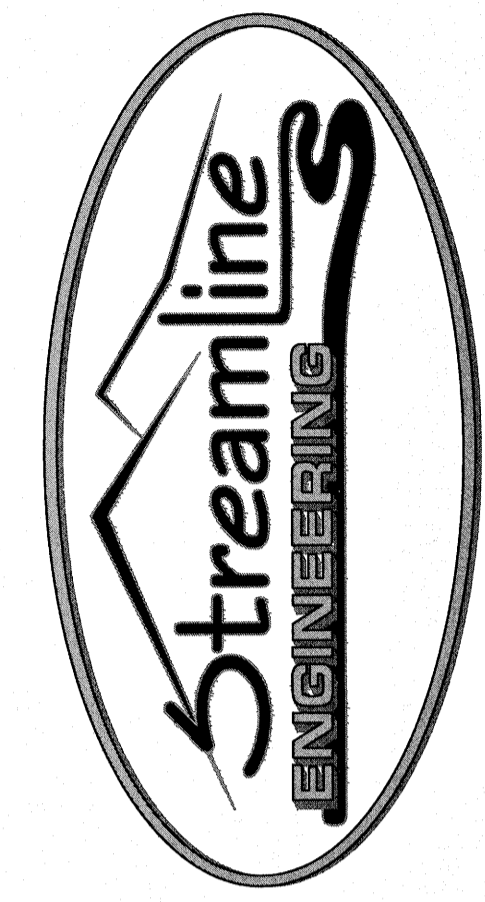


SEE PLANS BY OTHERS FOR FOUNDATIONS SUPPORTING COLUMNS OF ROOF STRUCTURE AND STAGE

FOUNDATION PLAN FOR STAGE WALL ONLY 1/4" = 1' - 0"



PRELIMINARY



60 INDEPENDENCE CIRCLE
 SAN FRANCISCO, CALIFORNIA 95973
 PHONE: 415-774-1100
 FAX: 415-774-1100
 WWW.STREAMLINECHICO.COM
 COMMERCIAL
 RESIDENTIAL
 INDUSTRIAL
 MECHANICAL
 ADA COMPLIANCE

**PLANS FOR AMPHITHEATER
 RIVERBEND PARK
 OROVILLE, CALIFORNIA**

EXCLUSIVE PROPERTY OF STREAMLINE ENGINEERING. THIS SHEET SHALL NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REVISIONS	
DESIGN:	JMR
CHECKED:	JMR
DATE:	02/07/2020
SCALE:	SHOWN
JOB NO.	3600

SHEET NO.
S-1



JOB NUMBER: 6441
 JOB NAME: RIVERBEND PARK
 JOB LOCATION: OROVILLE CA

REVISION: B
 A - INITIAL SUBMITTAL REVISION (2/4/2020) C.P.
 B - UPDATED PER MARK UPS, UPDATED ELECTRICAL AND ADDED SHEET 4.2 (2/28/2020) JMD

ICON Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHelters.COM
 COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
 1455 LINCOLN AVE.
 HOUSTON, TX 77058
 616.966.0919
 800.748.0985
 616.966.0984 FAX

TABLE OF CONTENTS

- 1.0 COVER SHEET, ELEVATION, AND ANCHOR BOLT LAYOUT
- 2.0 FRAME LAYOUT AND CONNECTIONS
- 3.0 T&G AND STANDING SEAM LAYOUT
- 4.0 ROOF CONNECTIONS

DESIGN LOADS
 CODE: 2019 CALIFORNIA BUILDING CODE
 TOTAL DEAD: 11.50 P.S.F.
 FRAME DEAD: 5.50 P.S.F.
 ROOF DEAD: 3.50 P.S.F.
 COLLATERAL DEAD: 2.50 P.S.F.
 ROOF LIVE LOAD: 20.00 P.S.F.
 GROUND SNOW LOAD: 20.00 P.S.F.
 ROOF SNOW LOAD: 20.00 P.S.F.
 WIND SPEED: 100.00 M.P.H.
 EXPOSURE: C
 SEISMIC USE GROUP: 1
 SEISMIC SITE CLASS: D
 SEISMIC DESIGN CATEGORY: D
 SEISMIC ANALYSIS: SIMPLIFIED
 Ss = 0.631 S1 = 0.272

NOTES

MATERIALS
 TUBE STEEL (HSS HOLLOW STRUCTURAL SECTION) (ASTM DESIGNATION)
 WIDE FLANGE SECTIONS A- 500 GRADE B
 STRUCTURAL STEEL PLATE A- 992
 ROOF PANELS (STEEL) A- 36
 ANCHOR BOLTS F1554 GRADE 55
 CONNECTION BOLTS A- 325

ALL WELDING CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED. ALL WELDING IS PERFORMED BY AWS CERTIFIED WELDERS. THERE IS NO FIELD WELDING REQUIRED, U.N.O.

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO THE MATERIALS SUPPLIED BY ICON SHELTER SYSTEMS INC. AND IS NOT INTENDED AS THE SEAL OF THE ENGINEER OF RECORD FOR THE ENTIRE PROJECT.

DUE TO STANDARDIZED FABRICATION PARTS SHOWN MAY BE UPGRADED. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

ICON SHELTER SYSTEMS INC. RECOMMENDS THAT THE PRIMARY FRAMING INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM OF FIVE (5) YEARS OF DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

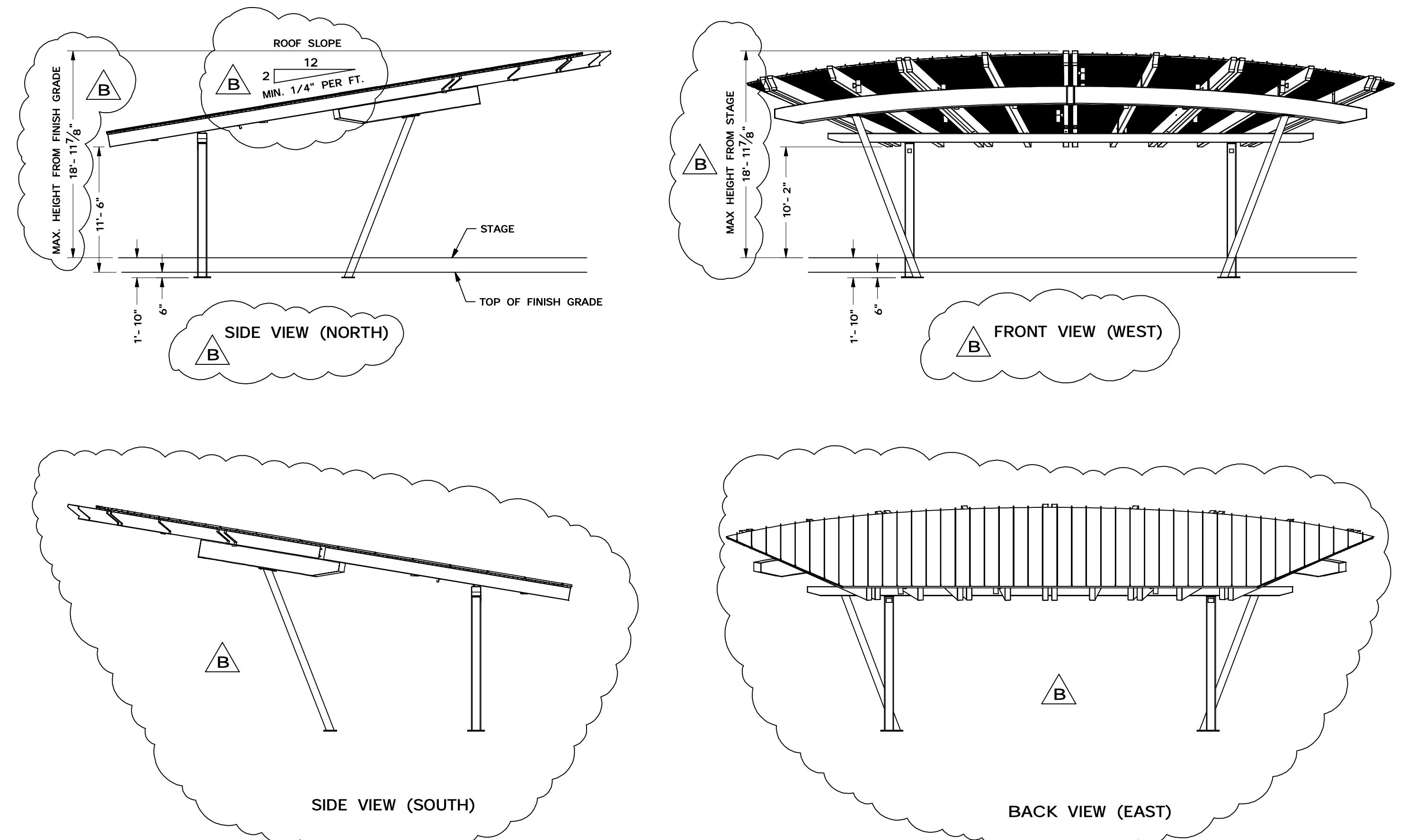
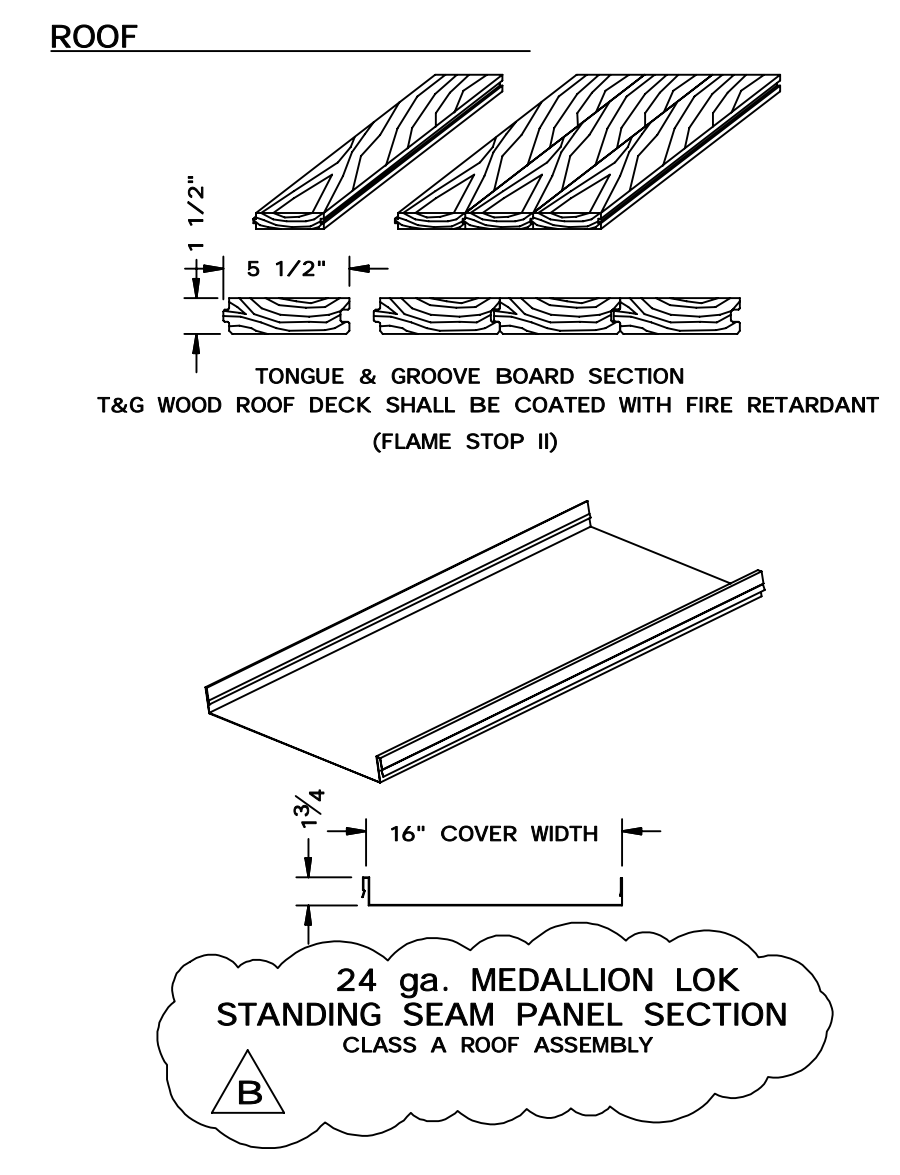
HIGH STRENGTH BOLTING
 ALL HIGH STRENGTH BOLTS ARE F3125 GRADE A325 BOLTS WITH HEAVY HEX NUTS. THE BOLTS ARE TO BE INSTALLED UTILIZING THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS" (8/1/2014) AS PREPARED BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) FOR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE BOLTS SHALL BE INSTALLED AS SNUG TIGHTENED WHICH IS DEFINED AS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PILES INTO FIRM CONTACT, WHICH IS THE CONDITION WHEN THE PLANES OF CONTACT BETWEEN TWO PILES ARE SOLELY SEATED AGAINST EACH OTHER, BUT NOT NECESSARILY IN CONTINUOUS CONTACT WITH UTILIZATION OF THE SNUG TIGHTENING METHOD. NO WASHERS ARE REQUIRED. ALL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSURE PROPER TIGHTNESS.

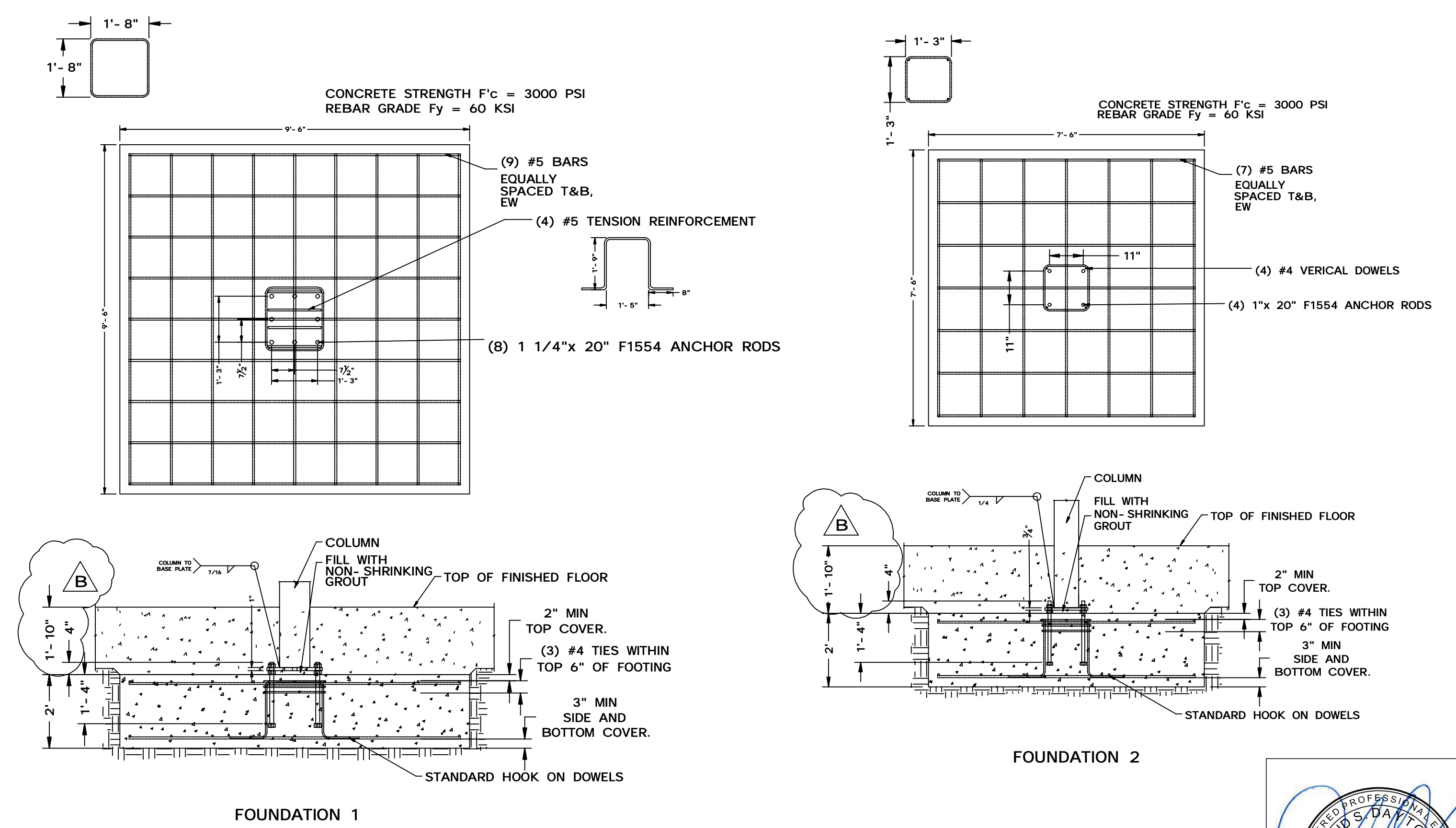
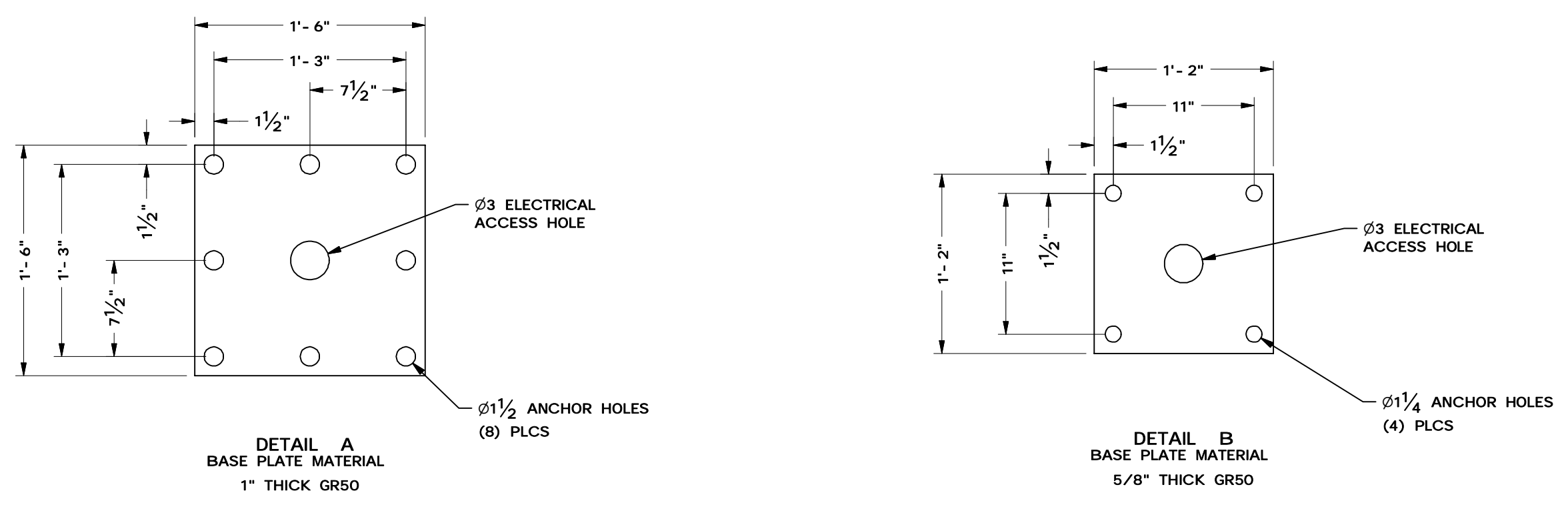
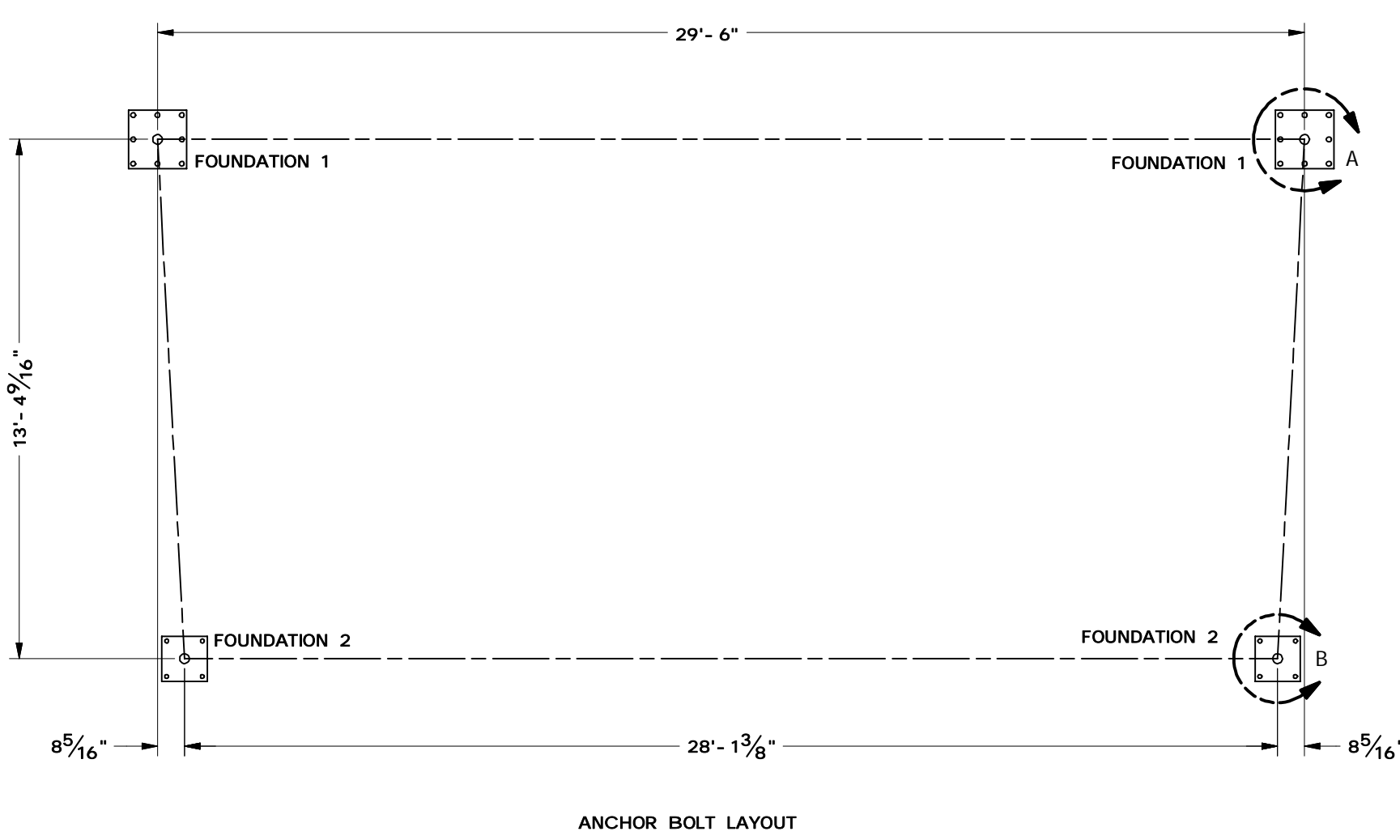
PROPER ERECTION OF THE FRAMING MEMBERS REQUIRES THE MAIN COLUMNS TO BE PLUMB & SQUARE. COLUMNS, RAFTER, AND THE BEAM CONNECTIONS MUST BE TIGHTENED BEFORE INSTALLING THE PURLINS. PURLINS MUST BE PARALLEL TO THE TIE BEAMS AND EAVE BEAMS.

FINISHES

- 1) STEEL MEMBERS SHALL BE POWDER COATED DULL BLACK
- 2) METAL ROOF SHALL HAVE KYNAR 500 FINISH MEDIUM BRONZE
- 3) T&G WOOD ROOF DECK SHALL BE COATED WITH FIRE RETARDANT (FLAME STOP II)



FABRICATOR APPROVALS
 CLARK COUNTY STEEL FABRICATOR NUMBER: 707
 CITY OF LOS ANGELES FABRICATOR NUMBER: FB03254



NOTE:

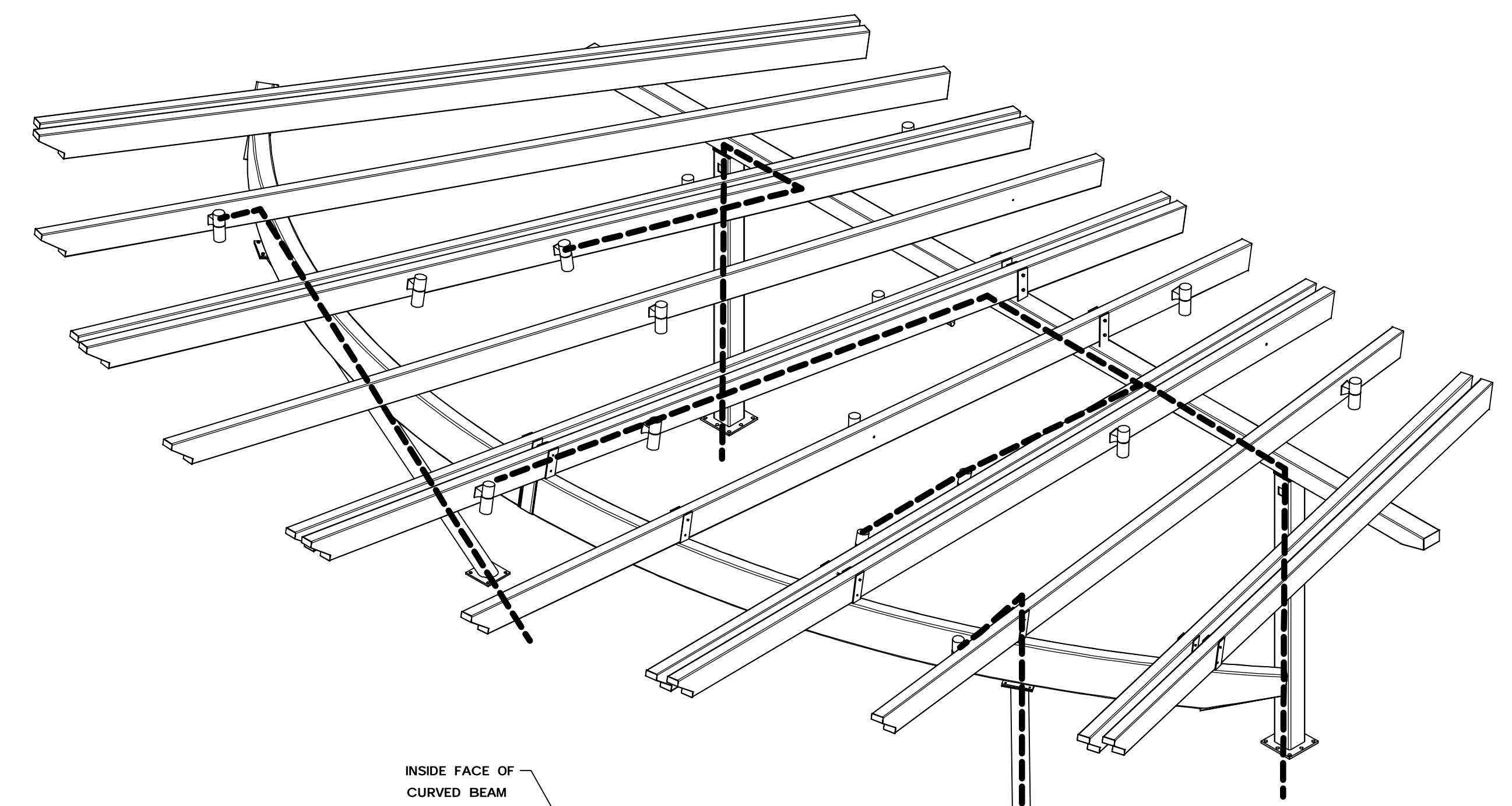
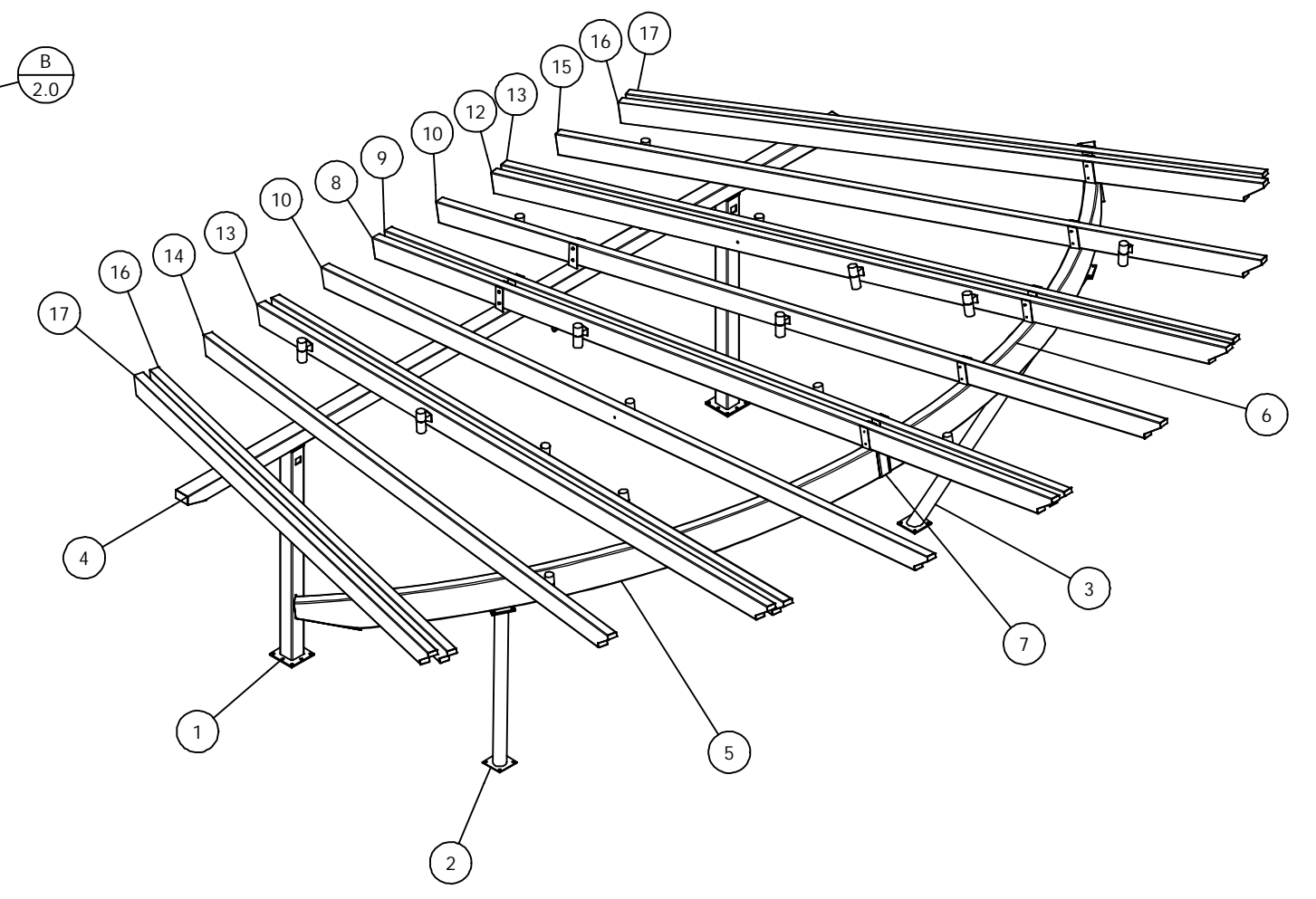
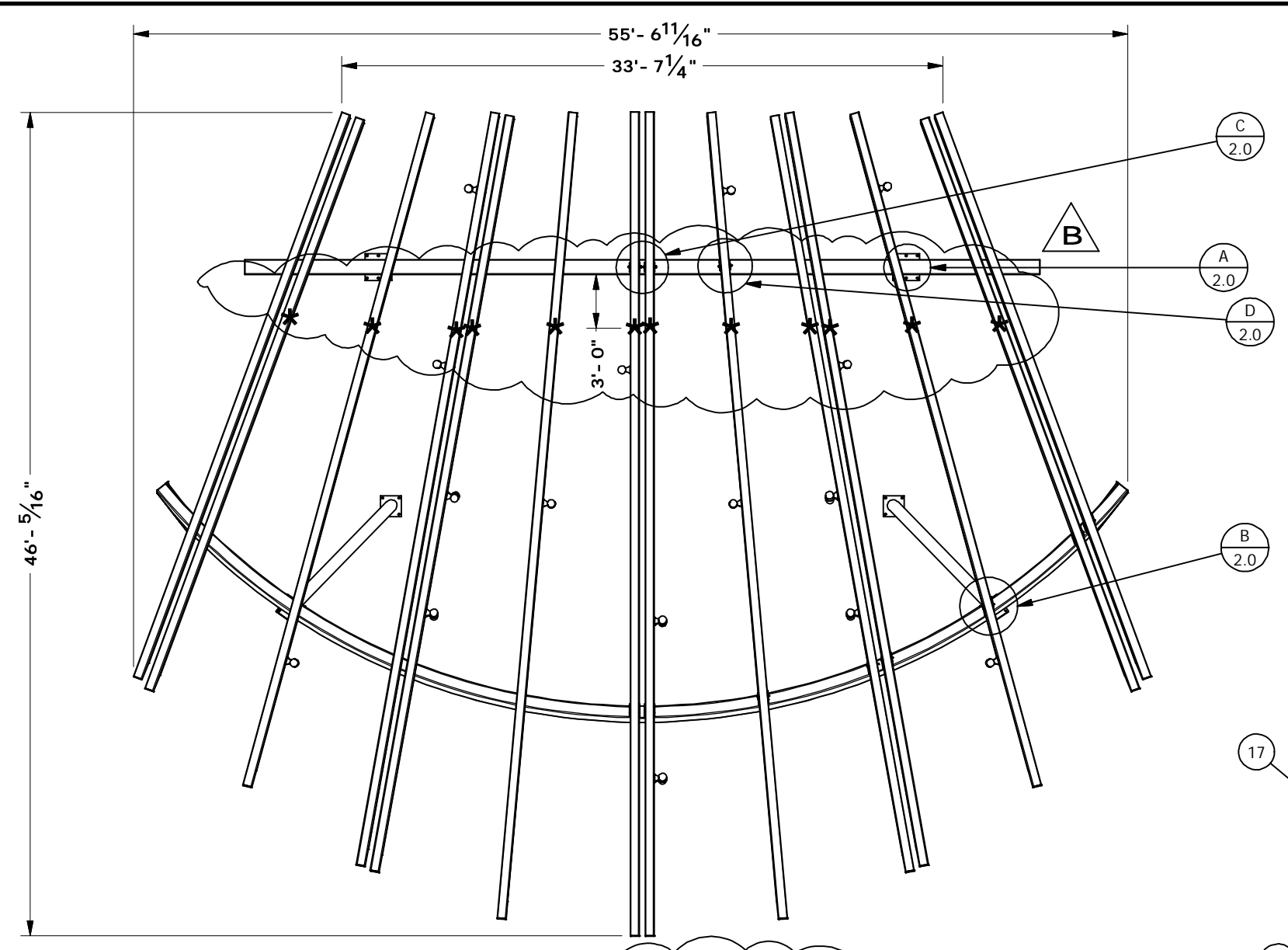
- 1) SEE GRADING PLAN L- 2.0 AND STAGE WALL @ COLUMN DETAIL 2/S- 1.0



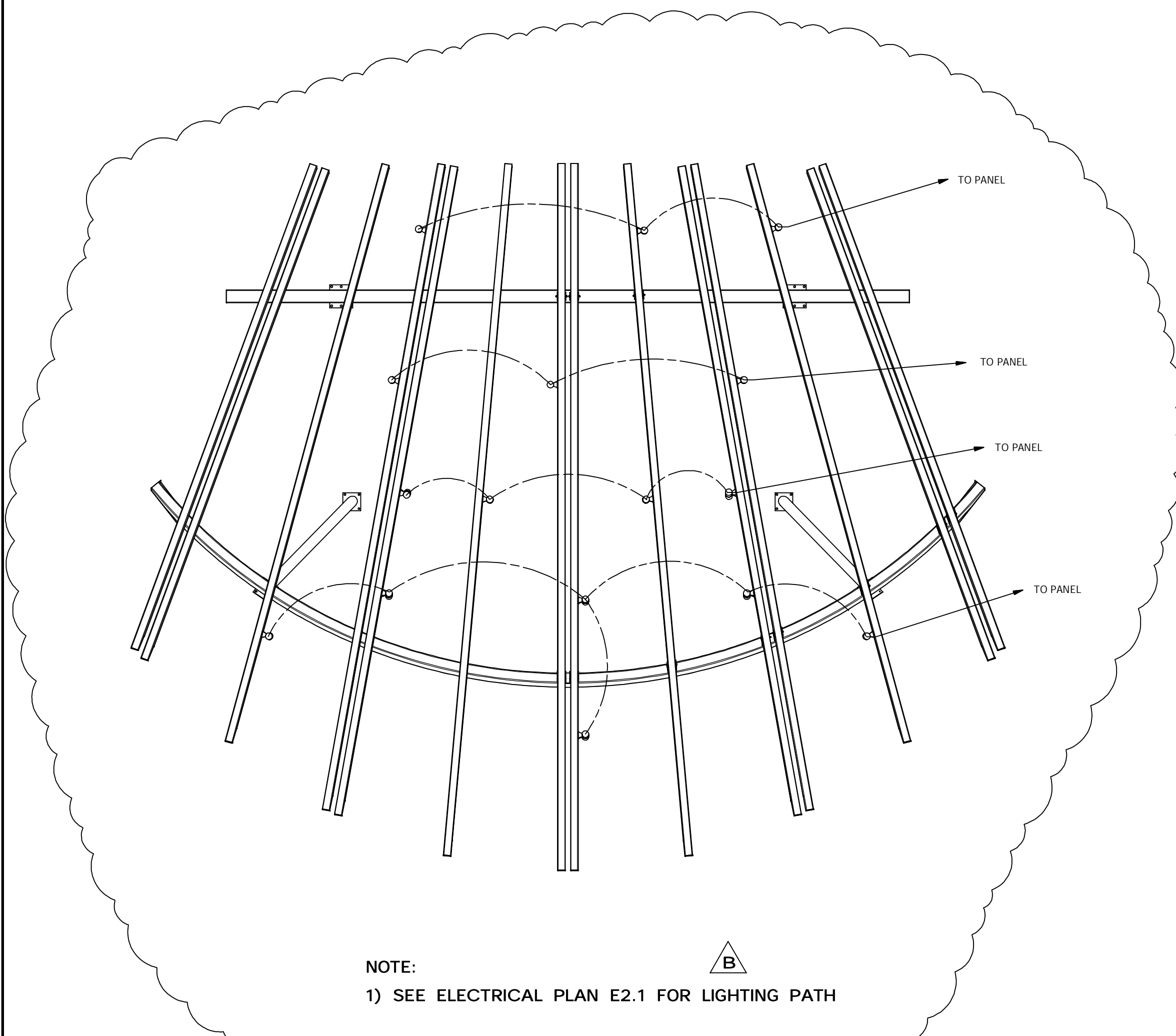
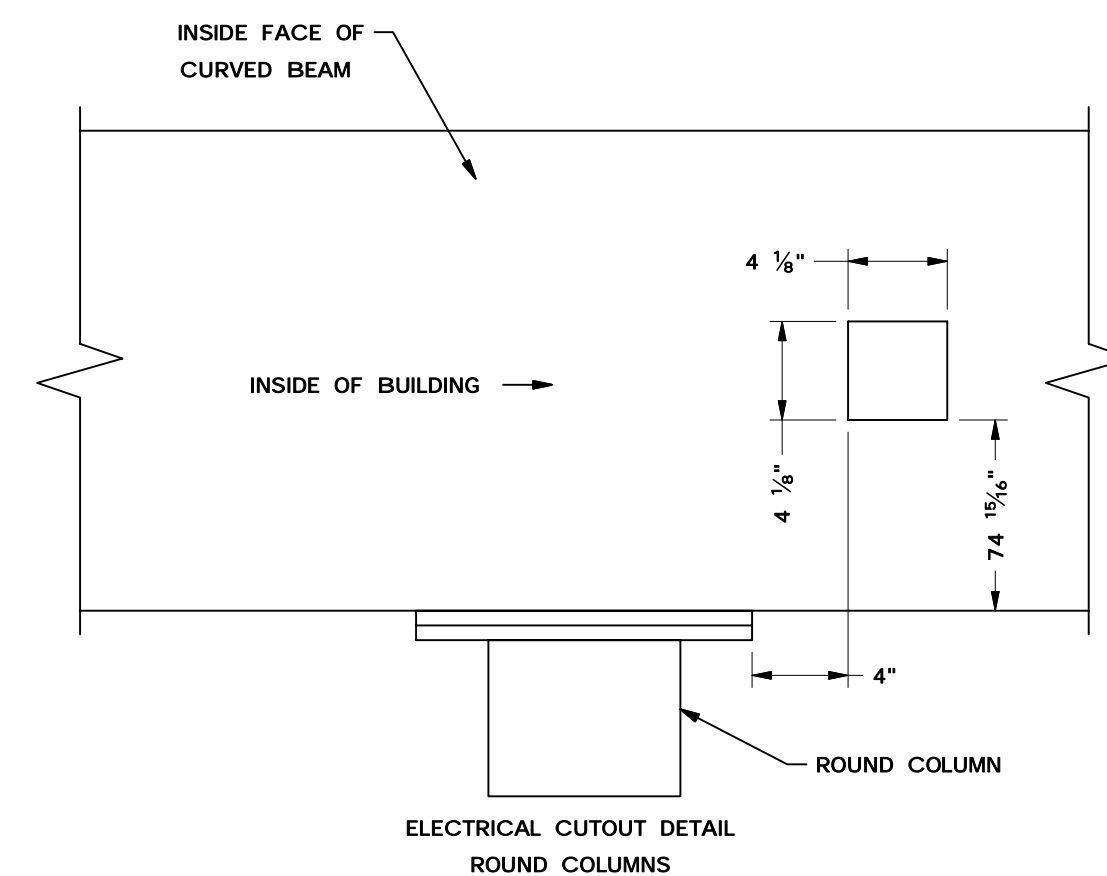
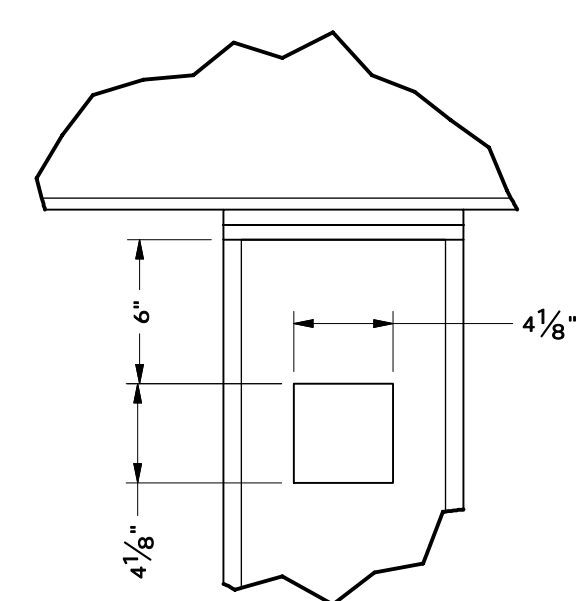
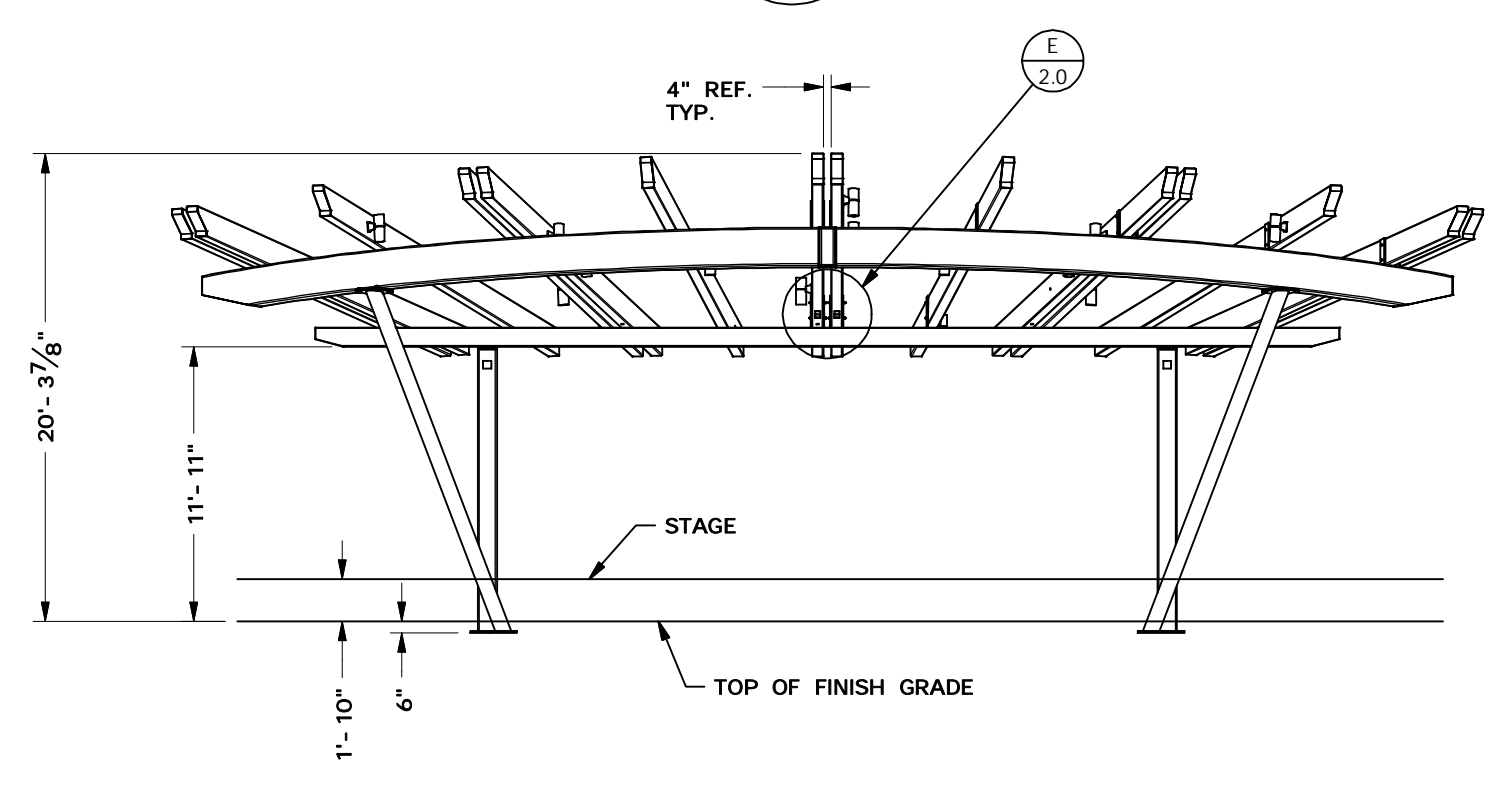
COVER SHEET, ELEVATION, AND ANCHOR BOLT LAYOUT

DRAWN BY: CONNER
 DATE: 2/28/2020
 JOB NO.: 6441
 REVISION: B
 BUILDING TYPE: WMP20X30TM-P3
 PROJECT NAME: RIVERBEND PARK OROVILLE CA

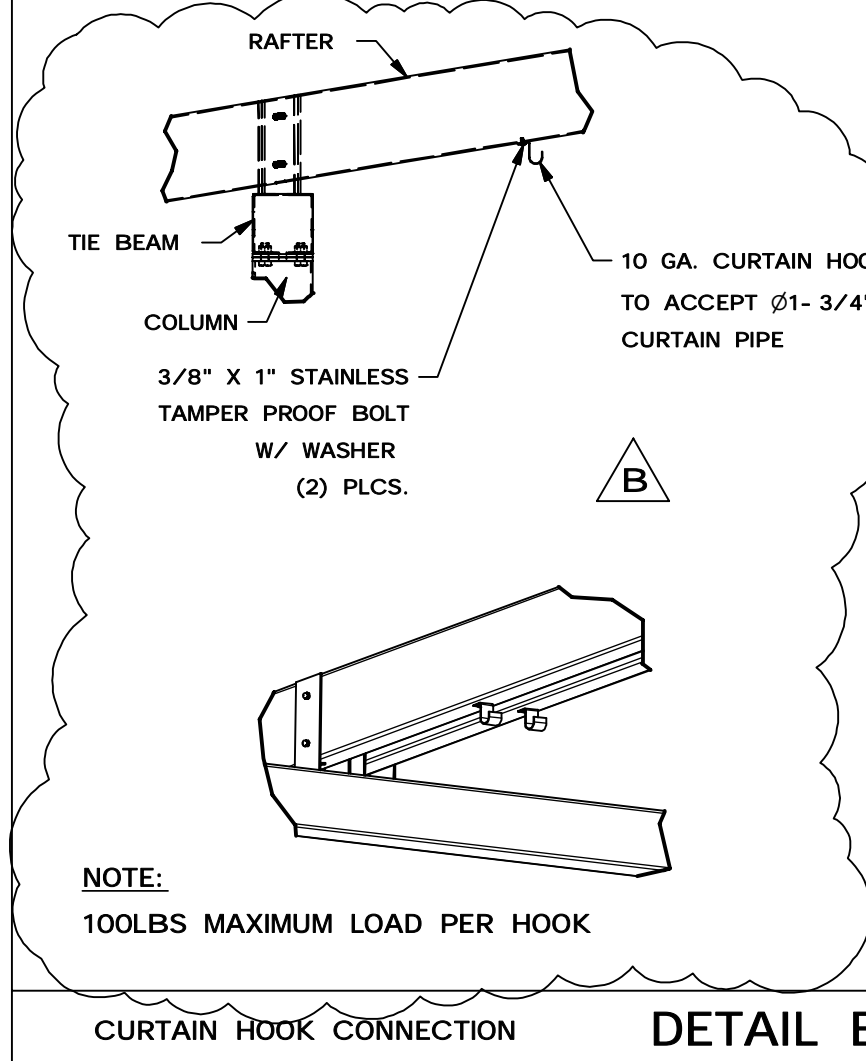
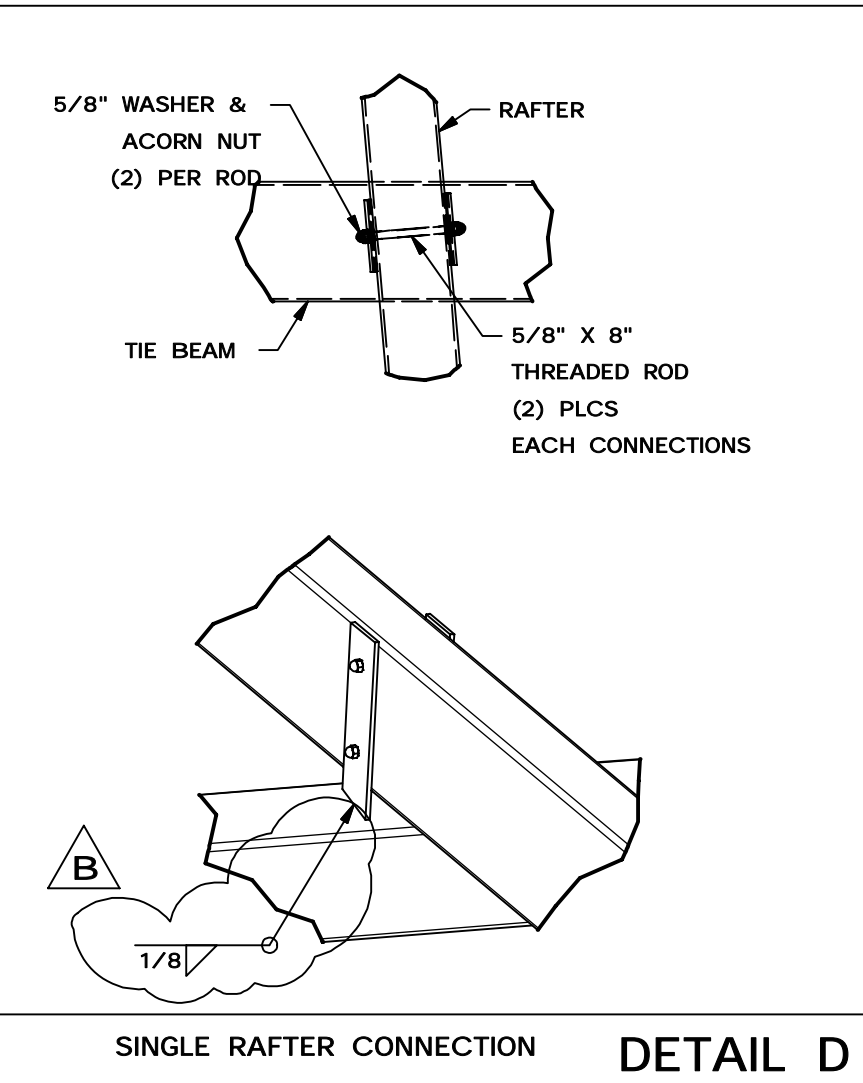
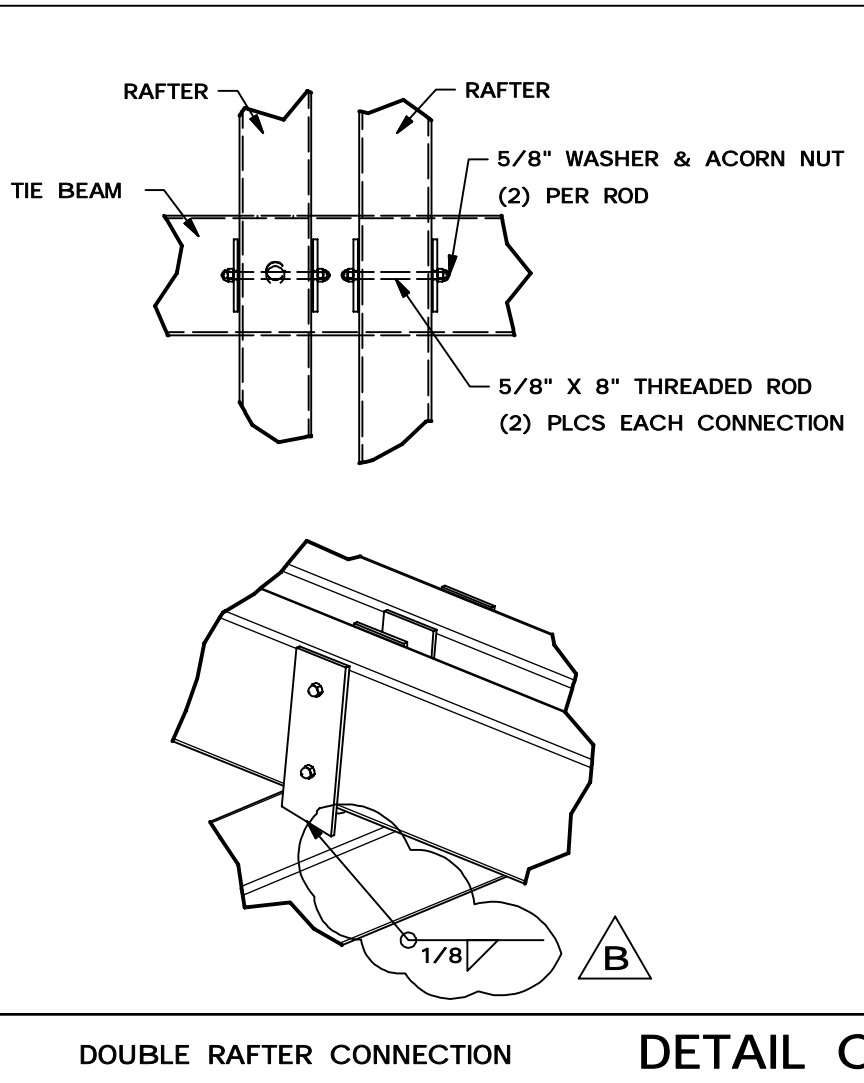
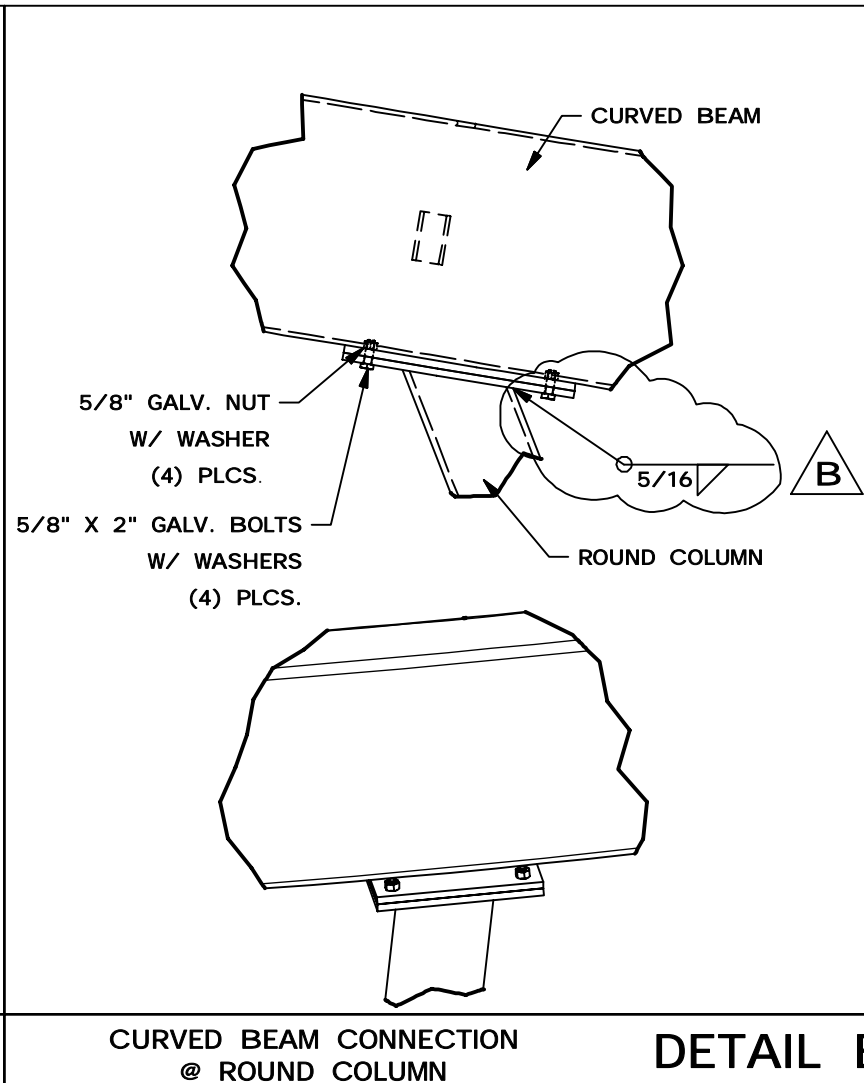
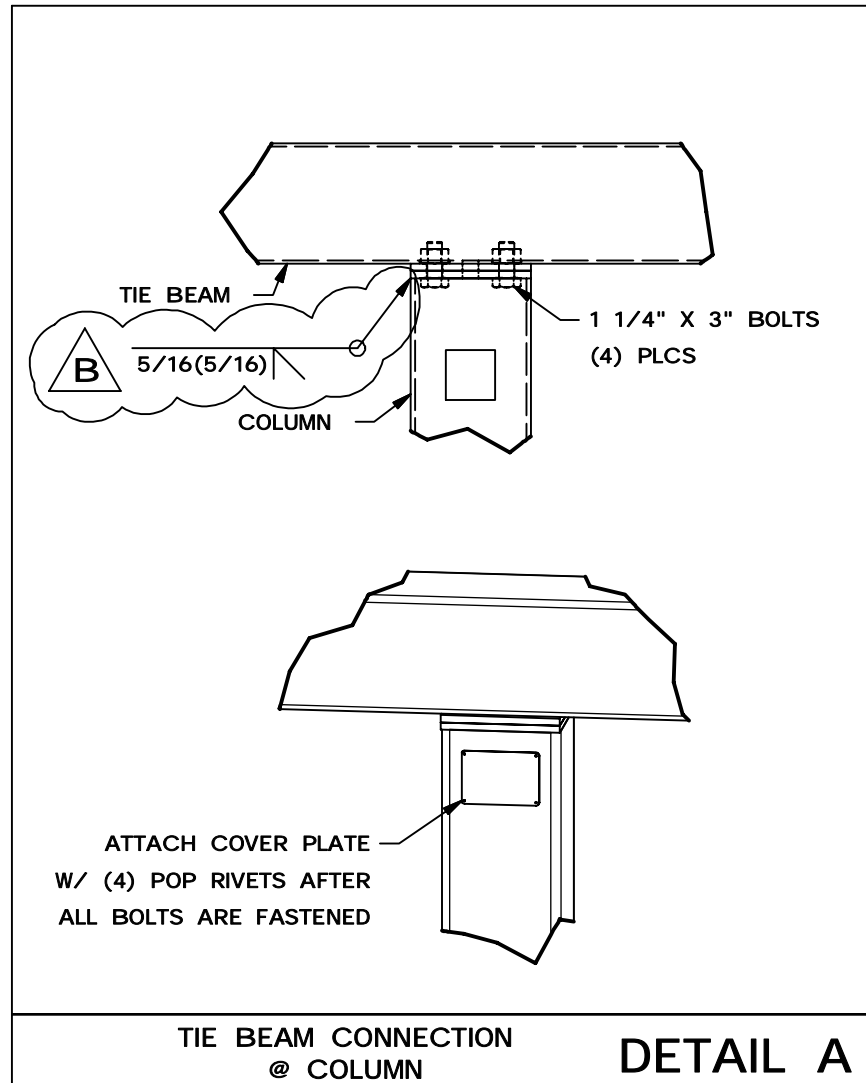
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	2		COLUMN 1	HSS10X10X0.375		688 lbs/mt
2	1		COLUMN 2	HSS 42X42X3/8 ROUND		745 lbs/mt
3	1		COLUMN 3	HSS 42X42X3/8 ROUND		745 lbs/mt
4	1		TIE BEAM	HSS10X10X0.250		1464 lbs/mt
5	1		CURVED BEAM 1	HSS20X80X475		2077 lbs/mt
6	1		CURVED BEAM 2	HSS20X80X475		2077 lbs/mt
7	1		CONNECTOR	HSS80X80 500		106 lbs/mt
8	1		RAFTER 1	HSS14X6X0.250		1508 lbs/mt
9	1		RAFTER 2	HSS14X6X0.250		1508 lbs/mt
10	2		RAFTER 3	HSS14X6X0.250		1481 lbs/mt
11	1		RAFTER 4	HSS14X6X0.250		1484 lbs/mt
12	1		RAFTER 5	HSS14X6X0.250		1484 lbs/mt
13	2		RAFTER 6	HSS14X6X0.250		1398 lbs/mt
14	1		RAFTER 7	HSS14X6X0.250		1373 lbs/mt
15	1		RAFTER 8	HSS14X6X0.250		1273 lbs/mt
16	2		RAFTER 9	HSS14X6X0.250		1109 lbs/mt
17	2		RAFTER 10	HSS14X6X0.250		1095 lbs/mt



* CURTAIN HOOK LOCATIONS



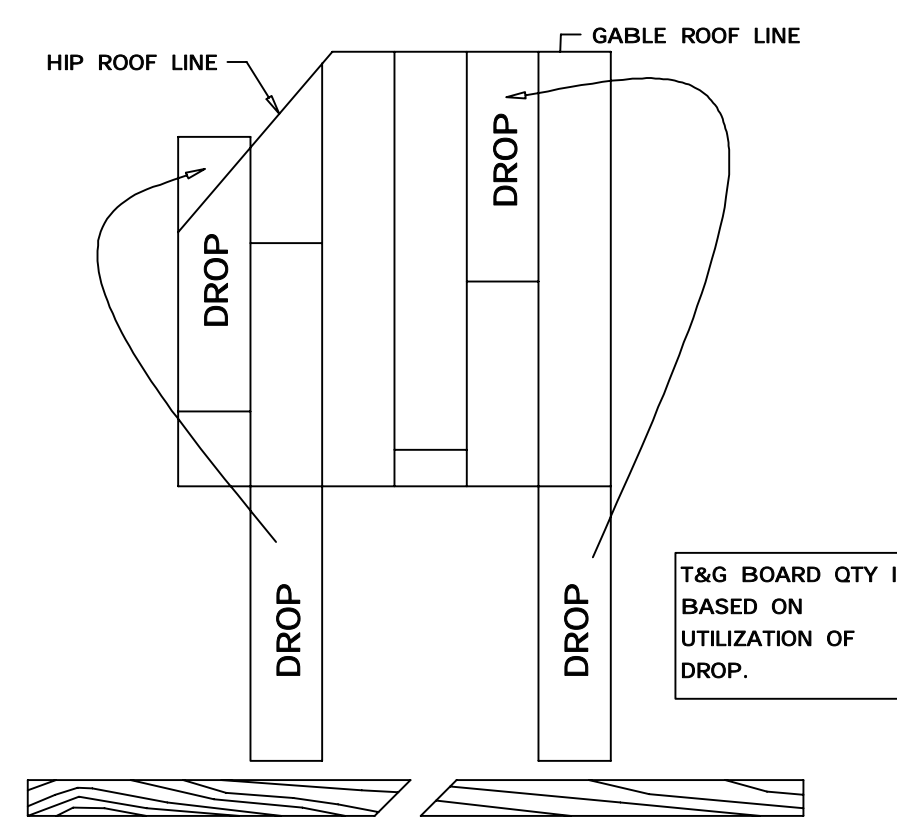
NOTE:
1) SEE ELECTRICAL PLAN E2.1 FOR LIGHTING PATH



NOTE:
100LBS MAXIMUM LOAD PER HOOK



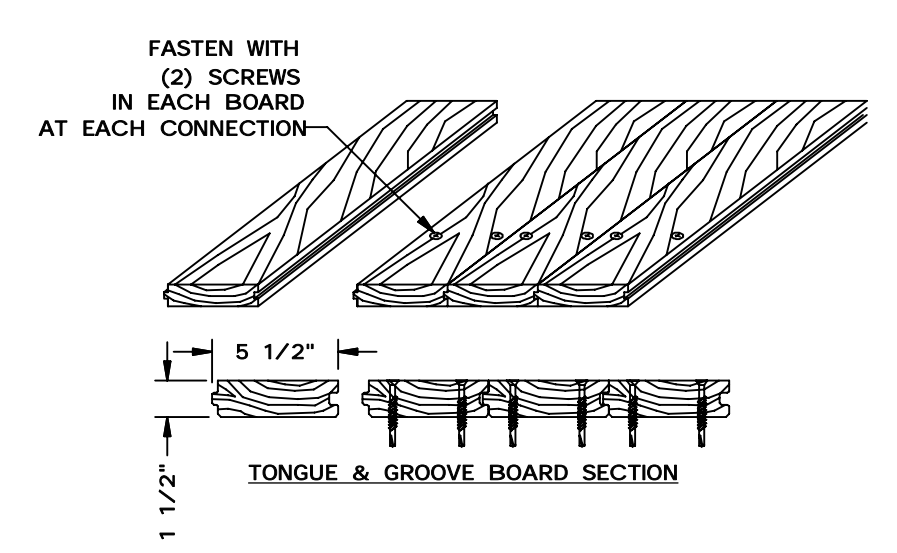
DRAWN BY:	CONNER
DATE:	2/28/2020
JOB NO.:	6441
REVISION:	B
BUILDING TYPE:	WMP20X30TM-P3
PROJECT NAME:	RIVERBEND PARK OROVILLE CA
SHEET	2.0



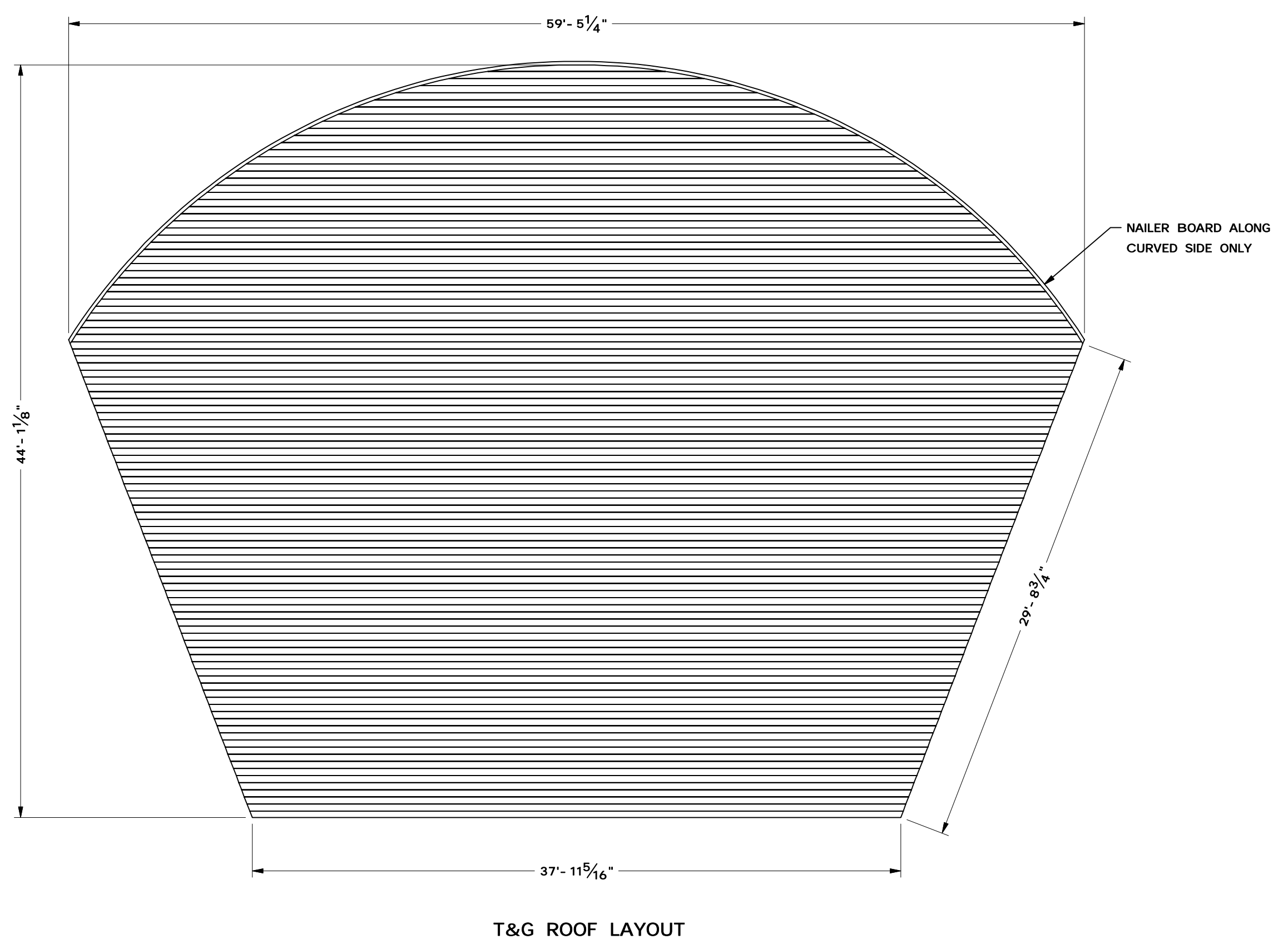
T & G ROOF DECK: 2X6 TONGUE AND GROOVE WOOD ROOF DECK, WESTERN LODGEPOLE PINE, KILN DRIED, #2 OR BETTER, ONE EDGE V'D, ONE EDGE GROOVED. IF REQ'D, FASCIA SHALL BE PINE.

T&G BOARD QTY IS BASED ON UTILIZATION OF DROP.

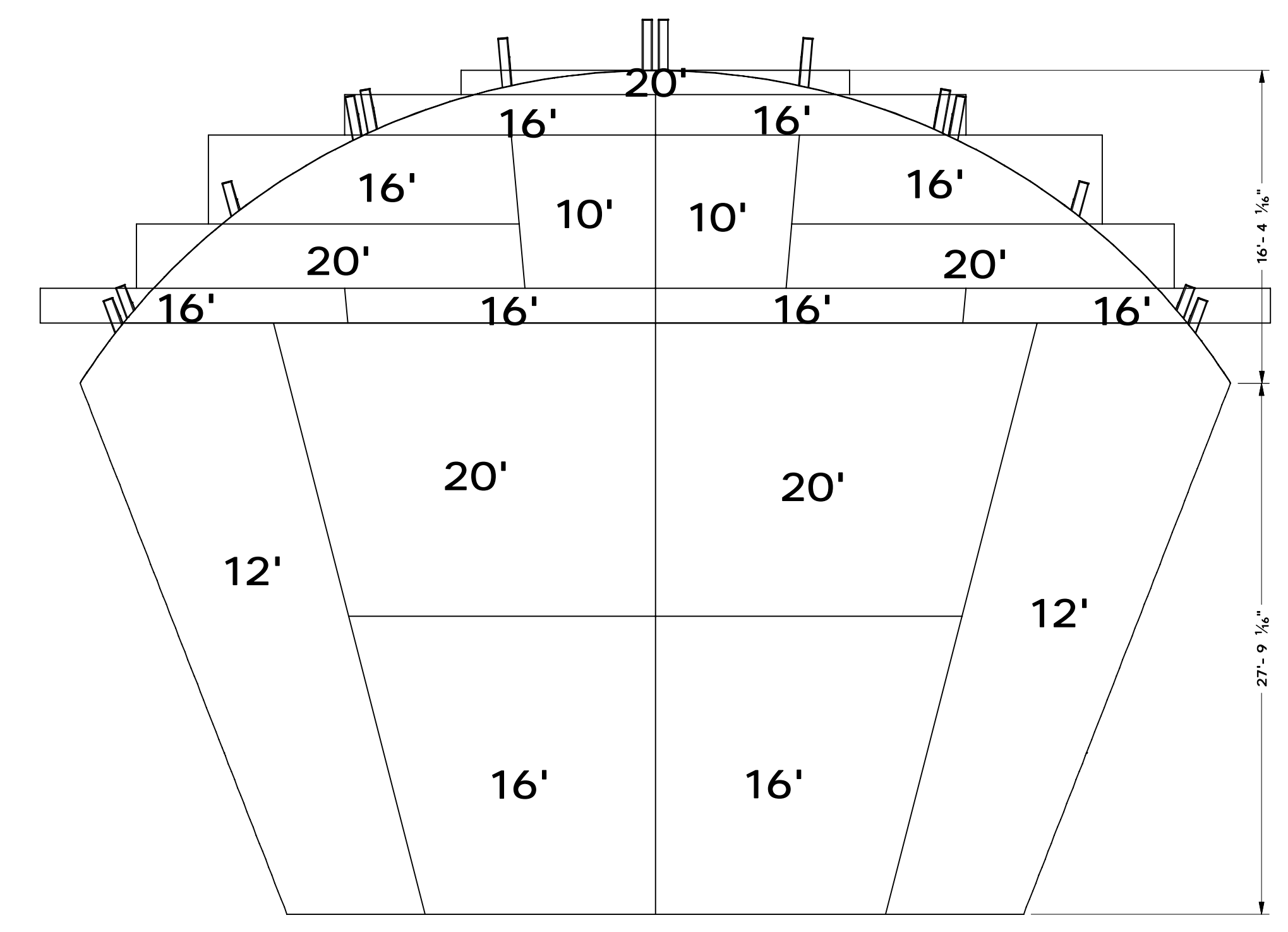
SPlicing T&G BOARD
MITER ENDS OF T&G AT 45° WHEN SPlicing TWO BOARDS TOGETHER. STAGGER SPlices ON ADJACENT BOARD AT LEAST 24" APART. SPlices MAY OR MAY NOT FALL OVER TOP OF A PURLIN.



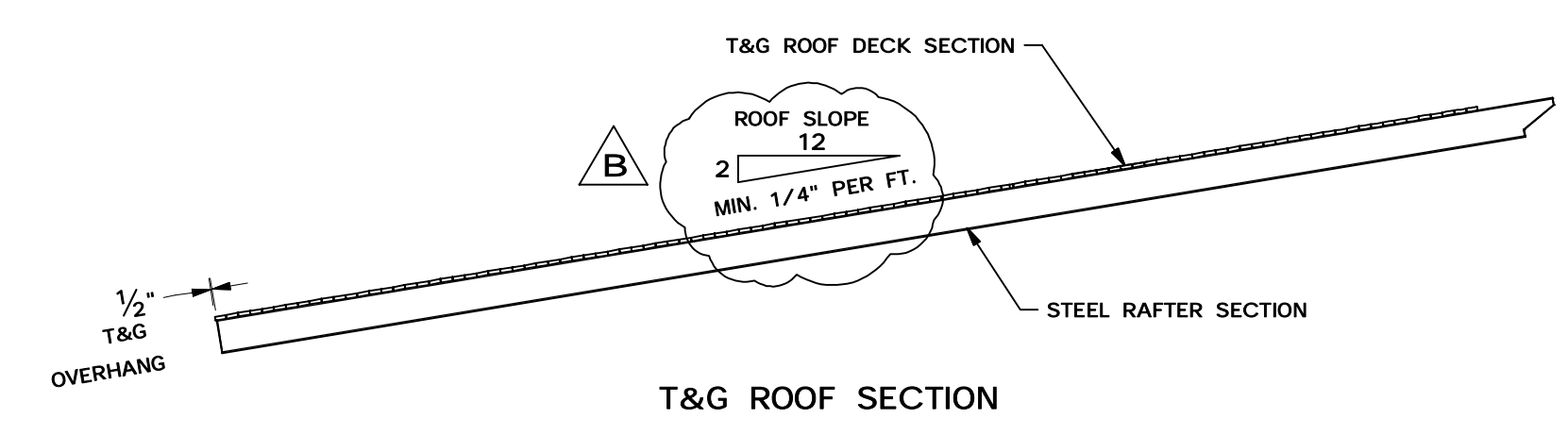
T&G WOOD ROOF DECK SHALL BE COATED WITH FIRE RETARDANT (FLAME STOP II)



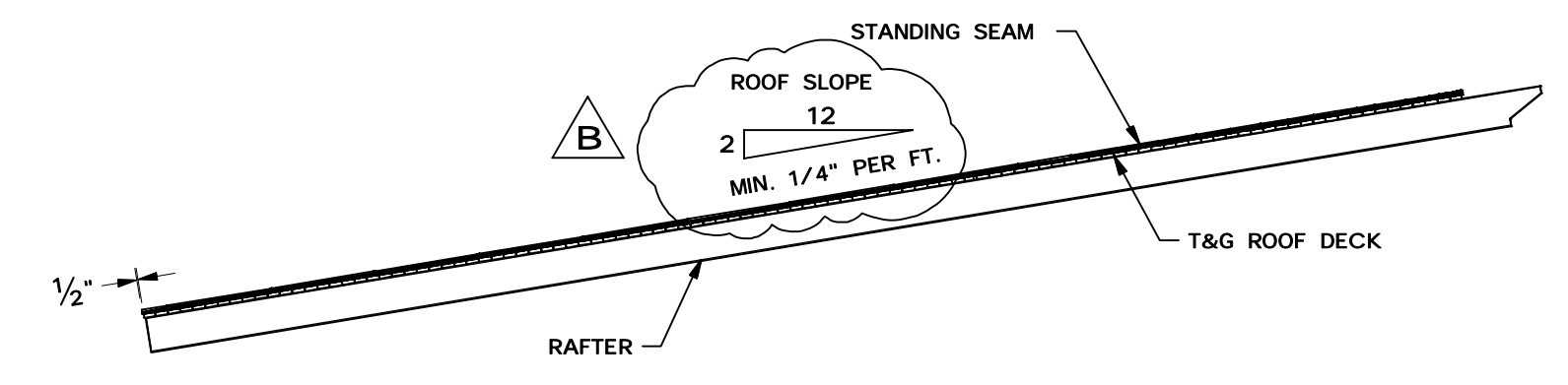
T&G ROOF LAYOUT



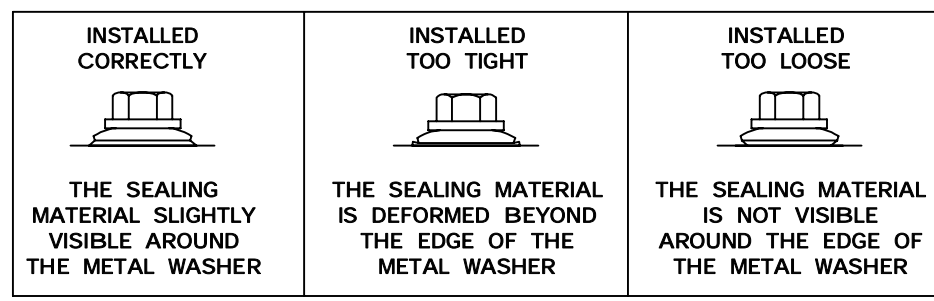
T&G ROOF LAYOUT
T&G WOOD ROOF DECK SHALL BE COATED WITH FIRE RETARDANT (FLAME STOP II)



T&G ROOF SECTION



STANDING SEAM ROOF SECTION



THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE METAL ROOFING SYSTEM. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. CHANGES TO THE DETAILS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

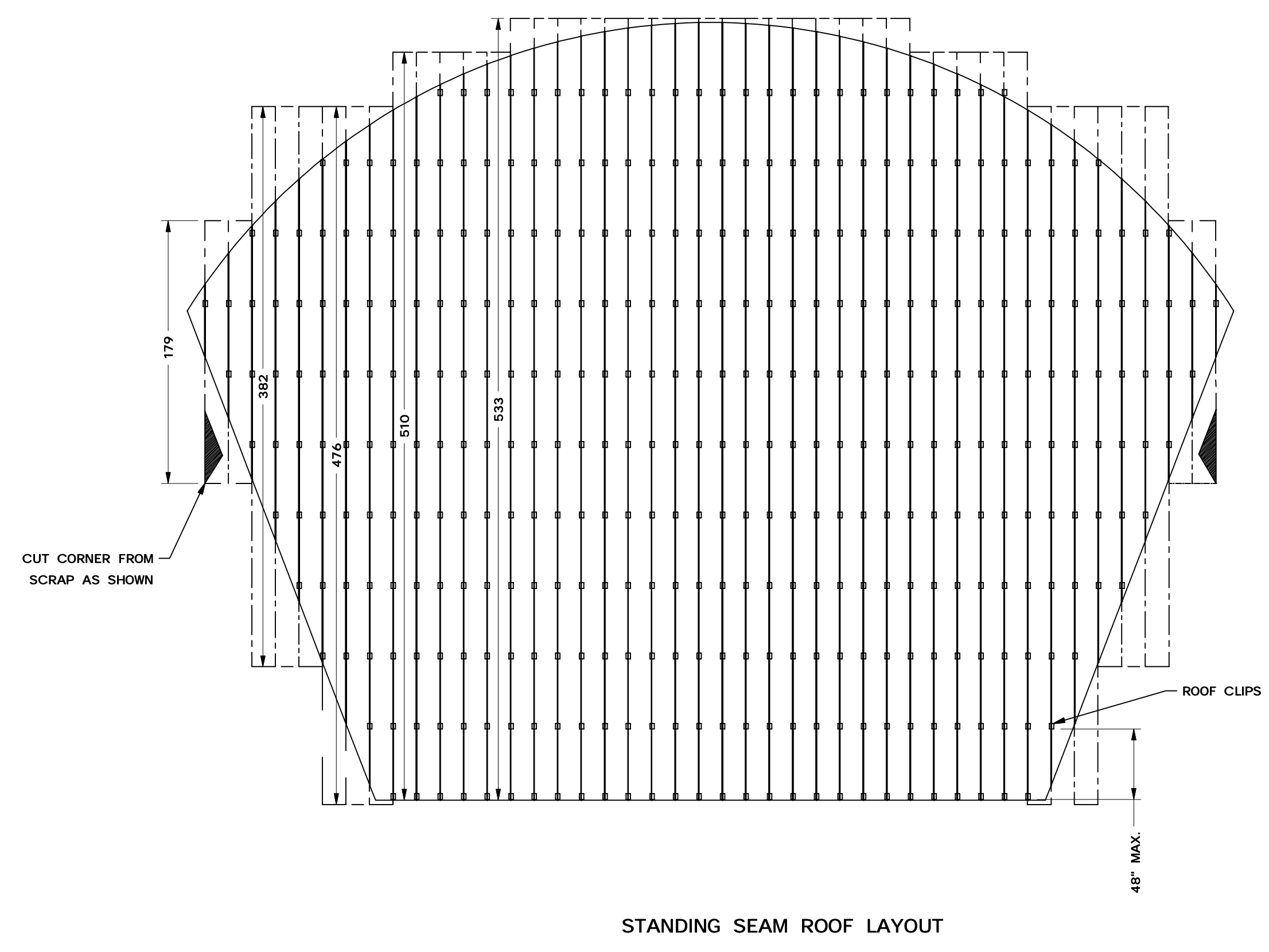
FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!
DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

INSTALLER TO FIELD CUT ALL ROOF PANELS



STANDING SEAM ROOF LAYOUT



DRAWN BY:	CONNER
DATE:	2/28/2020
JOB NO.:	6441
REVISION:	B
BUILDING TYPE:	WMP20X30TM-P3
PROJECT NAME:	RIVERBEND PARK OROVILLE CA
SHEET	3.0

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- 1.1 INTENT OF PLANS
 - A. ELECTRICAL PLAN DRAWINGS SHOW ONLY GENERAL LOCATIONS OF EQUIPMENT, DEVICES, AND RACEWAY UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ROUTING OF RACEWAY, SUBJECT TO THE APPROVAL OF THE ENGINEER. MAKE ADJUSTMENTS AS NECESSARY TO WIRING CONDUITS, BRANCH CIRCUIT PROTECTION, AND OTHER APPLICABLE MATERIAL OR EQUIPMENT TO ACCOMMODATE ACTUAL EQUIPMENT SUPPLIED FOR THIS PROJECT.
- 1.2 CODES, PERMITS, AND REGULATIONS
 - A. DO ALL WORK AND INSTALL PRODUCTS IN ACCORDANCE WITH APPLICABLE NECA REQUIREMENTS, THE REQUIREMENTS OF APPLICABLE STATE AND LOCAL LAWS, CODES AND ORDINANCES. THE CONTRACTOR SHALL ADHERE TO THE SPECIFIC PRODUCT AND INSTALLATION REQUIREMENTS OF THE UTILITY COMPANIES, CONFLICTS, IF ANY, WILL BE RESOLVED AT THE DISCRETION OF THE ENGINEER.
 - B. IT IS THE INTENT OF THE PLANS THAT THE INSTALLING CONTRACTOR HAVE A MASTERY OF THE PROJECT-SPECIFIC REQUIREMENTS SHOWN IN SPECIFICATIONS AND PLANS. IT IS STRONGLY ADVISED THAT THE CONTRACTOR CONTACT THE EOR FOR CLARIFICATION OR RFI THE EOR IF FURTHER INFORMATION IS REQUIRED. THE EOR SHALL REQUIRE REVISIONS TO BE MADE IN THE FIELD IF THE INSTALLATION DOES NOT FALL WITH THESE PROJECT-SPECIFIC GUIDELINES. NO ALLOWANCE SHALL BE MADE FOR INSTALLATIONS NOT ADHERING TO THESE REQUIREMENTS.
- 1.3 SUBMITTALS
 - A. GENERAL:
 1. BEFORE ANY MATERIAL IS FABRICATED OR SHIPPED, FURNISH TO THE ENGINEER FULL DETAILS, SHOP DRAWINGS, DIMENSIONS, CATALOG CUTS, SCHEMATIC (ELEMENTARY) DIAGRAMS, AND OTHER DESCRIPTIVE MATTER AS REQUIRED TO FULLY DESCRIBE THE EQUIPMENT SPECIFIED. FOR SERVICE ENTRANCE EQUIPMENT, METER BASE, AND OTHER RELATED MATERIALS, OBTAIN WRITTEN APPROVAL OF SUBMITTALS FROM THE SERVING UTILITY BEFORE SUBMITTING TO THE ENGINEER.
- 1.4 TESTING RELATED SUBMITTALS
 - A. TEST PROCEDURES: SUBMIT THE PROCEDURES TO BE FOLLOWED DURING THE OPERATIONAL READINESS TEST. PROCEDURES SHALL INCLUDE TEST DESCRIPTIONS, FORMS, AND CHECKLISTS TO BE USED TO CONTROL AND DOCUMENT THE REQUIRED TESTS. UPON COMPLETION OF EACH REQUIRED TEST, DOCUMENT THE TEST BY SUBMITTING A COPY OF THE SIGNED OFF TEST PROCEDURES.
- 1.5 ADDITIONAL SERVICES
 - A. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES FOR THE DURATION OF THIS PROJECT. PROVIDE AND INSTALL TEMPORARY PANELBOARDS, SPYDER BOXES, FESTOON LIGHTING OR OTHER ELECTRICAL ITEMS AS NEEDED. COORDINATE WITH THE GENERAL CONTRACTOR.

PART 2 - PRODUCTS

- 2.1 NOTE
 - A. UNLESS OTHERWISE INDICATED, PROVIDE ALL FIRST-QUALITY NEW MATERIALS, FREE FROM ANY DEFECTS, AND SUITABLE FOR THE INTENDED USE AND THE SPACE PROVIDED. PROVIDE MATERIALS APPROVED BY UL WHEREVER STANDARDS HAVE BEEN ESTABLISHED BY THAT ORGANIZATION. FURNISH AND INSTALL ALL INCIDENTAL ITEMS NOT SPECIFICALLY SHOWN OR SPECIFIED WHICH ARE REQUIRED TO PROVIDE THE COMPLETE SYSTEMS SPECIFIED HEREIN. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF MATERIAL OR EQUIPMENT ARE REQUIRED, PROVIDE PRODUCTS OF A SINGLE MANUFACTURER. COMPONENT PARTS OF MATERIALS OR EQUIPMENT NEED NOT BE PRODUCTS OF THE SAME MANUFACTURER.
- 2.2 EQUIPMENT FINISH
 - A. UNLESS OTHERWISE INDICATED, FINISH FOR ELECTRICAL CIRCUIT AND ENCLOSURES SHALL BE MANUFACTURER'S STANDARD GRAY OR ANSI 61 GRAY OVER A PRIMER AND RUST INHIBITOR.
- 2.3 OUTLET AND DEVICE BOXES
 - A. SHEET STEEL, ONE-PIECE DRAWN TYPE, ZINC- OR CADMIUM-PLATED.
 - B. CONCRETE PULL BOX:
 1. BOX: PRECAST CONCRETE.
 2. COVER: SCREW WITH PROVISIONS FOR PAD LOCKING.
 3. EMBOSSED MOUNTING HOLES ON BACK OF ENCLOSURE.
 4. NO GASKETING.
 - C. CONCRETE PULL BOX:
 1. BOX: PRECAST CONCRETE.
 2. EXTENSIONS: PRECAST CONCRETE, 12 INCHES DEEP, PROVIDE MINIMUM OF TWO PER BOX.
 3. COVER: STEEL TRAFFIC COVER, CLEARLY AND PERMANENTLY LABEL BOX ELECTRICAL, TELEPHONE, OR TELEMETRY, AS APPLICABLE.
 4. SIZE: SIZED IN ACCORDANCE WITH CEC, BUT MINIMUM SIZE 17"X 30" W/ WITH DEPTH AS REQUIRED OR AS SHOWN.
- 2.5 CONDUIT AND TUBING
 - A. GALVANIZED RIGID STEEL CONDUIT (GRS):
 1. MEET REQUIREMENTS OF ANSI C81.1 AND UL 6.
 2. MATERIAL: HOT-DIP GALVANIZED, WITH CHROMATED PROTECTIVE LAYER.
 - B. ELECTRIC METALLIC TUBING (EMT):
 1. MEET REQUIREMENTS OF ANSI C83.3 AND UL 797.
 2. MATERIAL: HOT-DIP GALVANIZED, WITH CHROMATED AND LAQUERED PROTECTIVE LAYER.
 - C. PVC SCHEDULE 40 CONDUIT:
 1. MEET REQUIREMENTS OF NEMA TC2 AND UL 651.
 2. UL LISTED FOR UNDERGROUND DIRECT BURIAL, CONCEALED OR DIRECT SUNLIGHT EXPOSURE, AND 90°C INSULATED CONDUCTORS.
 - D. FLEXIBLE METAL LIQUID-TIGHT CONDUIT:
 1. UL 360.
 2. TEMPERATURE RATED FOR 80°C.
 3. MATERIAL: GALVANIZED STEEL WITH AN EXTRUDED PVC JACKET.
 - E. RACEWAY WARNING TAPE:
 1. HEAVY-GAUGE, YELLOW PLASTIC TAPE OF 6-INCH MINIMUM WIDTH FOR USE IN TRENCHES CONTAINING ELECTRIC CIRCUITS.
 2. UTILIZE TAPE MADE OF MATERIAL RESISTANT TO CORROSIVE SOIL.
 3. PRINTED WARNING THAT AN ELECTRIC CIRCUIT IS LOCATED ABOVE THE TAPE.
- 2.6 FITTINGS
 - A. GALVANIZED RIGID STEEL:
 1. MEET REQUIREMENTS OF UL 514B.
 2. TYPE: THREADED, GALVANIZED, SETSCREW FITTINGS NOT PERMITTED.
 3. MATERIAL: MALLEABLE IRON WITH INSULATED THROAT.
 - B. ELECTRIC METALLIC TUBING:
 1. MEET REQUIREMENTS OF UL 514B.
 2. TYPE: STEEL BODY AND LOCK NUTS WITH STEEL OR MALLEABLE IRON COMPRESSION NUTS.
 - C. PVC CONDUIT:
 1. MEET REQUIREMENTS OF NEMA TC-3 AND UL 514B.
 2. TYPE: PVC, SLO-PON.
 - D. FLEXIBLE METAL LIQUID-TIGHT CONDUIT: INSULATED THROAT AND SEALING O-RINGS.
- 2.7 CONDUCTORS
 - A. ELECTRICAL TERMINALS AND TERMINATIONS: IT IS ASSUMED THAT ALL TERMINATIONS IN THE FIELD SHALL HAVE MINIMUM RATED 75°C RATED TERMINALS. CONTACT TERMINALS OR SHIELD VERIFY ALL TERMINALS FOR CONNECTION IN COMPLIANCE WITH CEC 110.114. THE CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD OF ANY TERMINALS DEVIATING FROM A RATING OF 75°C.
 1. ALL CONDUCTORS ARE RATED FOR 75°C ON PLANS UNLESS OTHERWISE NOTED.
 2. ALL CONDUCTORS SHOWN SHALL BE NEW UNLESS OTHERWISE INDICATED.
 - B. CONDUCTOR TYPE:
 1. 120 VAC AND 277 VAC LIGHTING: SOLID COPPER.
 2. 120 VAC RECEPTACLE CIRCUITS: SOLID COPPER.
 3. ALL OTHER CIRCUITS: STRANDED COPPER.
 4. INSULATION: TYPE THHN/THWN, 90°C DRY OR 75°C WET.
 - C. COPPER BUILDING WIRE:
 1. DESCRIPTION: FLEXIBLE, INSULATED AND UNSHUNTED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600 VAC OR LESS.
 - a. INSULATION:
 1. TYPE THHN AND TYPE THWN-2; COMPLY WITH UL 83.
- 2.8 METAL-CLAD CABLE, TYPE MC
 - A. DESCRIPTION: A FACTORY ASSEMBLY OF ONE OR MORE CURRENT-CARRYING INSULATED CONDUCTORS IN AN OVERALL METALLIC SHEATH.
 - B. STANDARDS (NON-HOSPITAL GRADE):
 1. LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.
 2. COMPLY WITH UL 1569.
 3. RIMS COMPLIANT.
 4. GROUND CONDUCTOR: INSULATED.
 5. CONDUCTOR INSULATION:
 - a. TYPE THHN/THWN-2; COMPLY WITH UL 83.
 - b. TYPE XHHW-2; COMPLY WITH UL 44.
 6. ARMOR: STEEL, INTERLOCKED.
 7. JACKET: PVC APPLIED OVER ARMOR.
- 2.9 CONDUCTOR ACCESSORIES
 - A. TAPE:
 1. GENERAL PURPOSE, FLAME RETARDANT: 7-MIL VINYL PLASTIC, RATED FOR 90°C MINIMUM MEETING REQUIREMENTS OF UL 510.
 2. FLAME RETARDANT, GOLD AND WEATHER RESISTANT: 8.5 MIL VINYL PLASTIC.
 - B. CABLE TIES:
 1. NYLON, ADJUSTABLE, AND SELF-LOCKING.
 2. COMPLY WITH UL 20 AND FS W-896.
 3. BARREL KEY.
- 2.10 WIRING DEVICES
 - A. NOTE: SEE LIGHTING SCHEDULES ON PLAN SHEETS FOR LIGHTING CONTROL SPECIFICATIONS, WIRING DEVICES BELOW WILL TYPICALLY CONTROL LOADS OTHER THAN LIGHTING.
 - B. APPLIANCE RECEPTACLES, 250V
 1. SQA RECEPTACLE
 - a. RATINGS: SQA.
 - b. DESCRIPTION: THREE POLE, FOUR WIRE, AND SELF-GROUNDING.
 - c. STANDARDS: COMPLY WITH UL LISTING.
 - d. MOUNTING: FLUSH.
 - e. MANUFACTURER: LEVITON.
 - f. MODEL: C56369

- C. TAMPER-RESISTANT SPECIFICATION GRADE RECEPTACLES, 125 VAC, 20 A
 1. DESCRIPTION: TWO POLE, THREE WIRE, AND SELF-GROUNDING, INTEGRAL SHUTTERS THAT OPERATE ONLY WHEN A PLUG IS INSERTED IN THE RECEPTACLE.
 - a. TAMPER-RESISTANT DUPLEX RECEPTACLES, 125 VAC, 20 A:
 - CONFIGURATION: NEMA WD 6, CONFIGURATION 5-20R.
 - STANDARDS: COMPLY WITH UL 498 AND FS W-C-596.
 - MARKING: LISTED AND LABELED AS COMPLYING WITH NFPA 70, "TAMPER-RESISTANT RECEPTACLES" ARTICLE.
 - b. TAMPER-RESISTANT DUPLEX GFCI RECEPTACLES, 125 VAC, 20 A:
 - CONFIGURATION: NEMA WD 6, CONFIGURATION 5-20R.
 - STANDARDS: COMPLY WITH UL 498, UL 943 CLASS A, AND FS W-C-596.
 - MARKING: LISTED AND LABELED AS COMPLYING WITH NFPA 70, "TAMPER-RESISTANT RECEPTACLES" ARTICLE.
 - c. TAMPER- AND WEATHER-RESISTANT, GFCI DUPLEX RECEPTACLES, 125 VAC, 20 A:
 - CONFIGURATION: NEMA WD 6, CONFIGURATION 5-15R.
 - STANDARDS: COMPLY WITH UL 498 AND UL 943 CLASS A.
 - MARKING: LISTED AND LABELED AS COMPLYING WITH NFPA 70, "TAMPER-RESISTANT RECEPTACLES" AND "RECEPTACLES IN DAMP OR WET LOCATIONS" ARTICLES.
 - d. LIGHTING CONTROLS:
 1. SEE PLAN SHEETS FOR LIGHTING DEVICE DESIGN MFR AND CONTROL NOTES/MATRIX FOR FURTHER DETAILS. SEE SECTION 1.3 "SUBMITTALS".

- 2.11 WALL PLATE:
 - A. SINGLE SOURCE: OBTAIN WALL PLATES FROM SAME MANUFACTURER OF WIRING DEVICES.
 - B. SINGLE AND COMBINATION TYPES SHALL MATCH CORRESPONDING WIRING DEVICES.
 1. PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
 2. MATERIAL: FOR FINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC.
 3. MATERIAL: FOR FINISHED SPACES SUBJECT TO HIGH IMPACT: 0.035 INCH-THICK, SATIN FINISHED TYPE 302 STAINLESS STEEL.
 4. MATERIAL: FOR UNFINISHED SPACES: GALVANIZED STEEL.
 5. MATERIAL: FOR DAMP LOCATIONS: CAST ALUMINUM WITH SPRING-LOADED LIFT COVER AND LISTED AND LABELED FOR USE IN WET AND DAMP LOCATIONS.
 - C. WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLY WITH TYPE SR, WEATHER-RESISTANT, DIE-CAST ALUMINUM WITH WHEAT-GLASS LOCKABLE COVER.

- 2.12 LIGHTING AND POWER DISTRIBUTION PANELBOARD
 - A. NEMA F81, C, C, AND UL 67.
 - B. SHORT CIRCUIT CURRENT EQUIPMENT RATING: FULLY RATED; SERIES CONNECTED UNACCEPTABLE.
 - C. CABINET:
 1. NEMA 1, INDUSTRIAL USE, UNLESS OTHERWISE SHOWN.
 2. MATERIAL: GALVANIZED SHEET STEEL.
 3. WIRING CUTTER: MINIMUM 4-INCH SQUARE; BOTH SIDES, TOP AND BOTTOM.
 4. FRONT:
 - a. FASTENED WITH HINGED FRONT TRIM.
 - b. TRIM: SIZE:
 - SURFACE MOUNTED: SAME AS BOX.
 - FLUSH MOUNTED: 1/4-INCH LARGER THAN BOX ON ALL SIDES.
 - c. FINISH: RUST INHIBITOR PRIME, WITH MANUFACTURER'S STANDARD BAKED ENAMEL OR LAQUER.
 - D. INTERIOR:
 1. FACTORY ASSEMBLED, COMPLETE WITH CIRCUIT AND ENCLOSURES.
 2. CAPABLE OF CIRCUIT BREAKER REPLACEMENT WITHOUT DISTURBING ADJACENT CIRCUIT BREAKERS OR WITHOUT REMOVING MAIN BUS.
 3. SPACES: COVER OPENINGS WITH EASILY REMOVABLE METAL COVER.
 - E. DOOR HINGES: CONCEALED.
 - F. LOCKING DEVICE:
 - a. FLUSH TYPE.
 - b. DOORS OVER 30 INCHES IN HEIGHT: MULTIPoint.
 - c. IDENTICAL KEYLOCKS, WITH TWO MILLED KEYS EACH LOCK.
 - d. CIRCUIT DIRECTORY: METAL FRAME WITH TRANSPARENT PLASTIC FACE AND ENCLOSED CARD ON INTERIOR OF DOOR.
 - G. BUS BAR:
 1. MATERIAL: THIN-PLATED ALUMINUM, FULL SIZED THROUGHOUT LENGTH.
 2. HORIZONTAL BUS BARS INSTALLED UNDER FLOOR SLABS ALONG FULL LENGTH OF BUS REGARDLESS OF NUMBER OF UNITS AND SPACES SHOWN. MACHINE, DRILL, AND TAP AS REQUIRED FOR CURRENT AND FUTURE POSITIONS.
 - H. GROUNDING: COPPER, INSTALLED ON PANELBOARD FRAME, BONDED TO BOX WITH AT LEAST ONE TERMINAL SCREW FOR EACH CIRCUIT.
 - I. LUGS AND CONNECTION POINTS: SUITABLE FOR EITHER COPPER OR ALUMINUM CONDUCTORS.
 - J. CIRCUIT BREAKERS:
 1. NEMA AB 1 AND UL 489.
 2. THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, MOLDED CASE, OF THE INDICATING TYPE SHOWING ON/OFF AND TRIPPED POSITIONS OF OPERATING HANDLE.
 3. NONINTERCHANGEABLE, IN ACCORDANCE WITH CEC.
 4. PROVISIONS FOR HANDLE PADLOCKING, UNLESS OTHERWISE SHOWN.
 5. BOLT-ON CIRCUIT BREAKERS IN ALL PANELBOARDS.
 6. MULTI-POLE CIRCUIT BREAKERS DESIGNED TO AUTOMATICALLY OPEN ALL POLES WHEN AN OVERLOAD OCCURS ON ONE POLE.
 7. FAULT PROTECTIVE (50/KA TRIP).
 8. GFCI CIRCUIT BREAKERS: SINGLE- AND DOUBLE-POLE CONFIGURATIONS WITH CLASS A GROUND-RESISTANCE (GFI) CHARACTERISTICS.

- 2.13 LOW VOLTAGE TRANSFORMERS:
 - A. GENERAL TRANSFORMER REQUIREMENTS
 1. DESCRIPTION: FACTORY ASSEMBLED AND TESTED, AIR-COOLED UNITS FOR 60-HZ SERVICE.
 2. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 3. TRANSFORMERS RATED 15 KVA AND LARGER: COMPLY WITH NEMA TP 1 ENERGY-EFFICIENCY LEVELS AS VERIFIED BY TESTING ACCORDING TO NEMA TP 2.
 4. CORES: ELECTRICAL GRADE, NON-AGING SILICON STEEL WITH HIGH PERMEABILITY AND LOW HYSTERESIS LOSSES.
 5. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.
 6. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.
 7. COIL MATERIAL: COPPER.
 8. ENCAPSULATION: TRANSFORMERS SMALLER THAN 30 KVA SHALL HAVE CORE AND COILS COMPLETELY RESIN ENCAPSULATED.
 - B. DISTRIBUTION TRANSFORMERS:
 1. COMPLY WITH NFPA 70, AND LIST AND LABEL AS COMPLYING WITH UL 1561.
 2. CORES: ONE LEG PER PHASE.
 - C. ENCLOSURE:
 1. SINGLE PHASE:
 - a. 37.5KVA AND ABOVE: NEMA 2, VENTILATED.
 2. TRANSFORMER ENCLOSURE FINISH: COMPLY WITH NEMA 250.
 3. FINISH COLOR: NSF/ANSI 61 GRAY.
 - D. TAPS FOR TRANSFORMERS 25 KVA AND LARGER: TWO 2.5 PERCENT TAPS ABOVE AND TWO 2.5 PERCENT TAPS BELOW NORMAL FULL CAPACITY.
 - E. INSULATION CLASS: 30 KVA AND LARGER: 220 DEG C. UL COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 150-DEG C RISE ABOVE 40-DEG C AMBIENT TEMPERATURE.
 - F. K-FACTOR RATING: TRANSFORMERS INDICATED TO BE K-FACTOR RATED SHALL COMPLY WITH UL 1561 REQUIREMENTS FOR NONSINUSOIDAL LOAD CURRENT-HANDLING CAPABILITY TO THE DEGREE DEFINED BY DESIGNATED K-FACTOR.
 1. UNIT SHALL NOT OVERHEAT WHEN CARRYING FULL-LOAD CURRENT WITH HARMONIC DISTORTION CORRESPONDING TO DESIGNATED K-FACTOR.
 2. INDICATE VALUE OF K-FACTOR ON TRANSFORMER NAMEPLATE.
 3. UNIT SHALL MEET REQUIREMENTS OF NEMA TP 1 WHEN TESTED ACCORDING TO NEMA TP 2 WITH A K-FACTOR EQUAL TO ONE.
 - H. NEUTRAL: RATED 200 PERCENT OF FULL LOAD CURRENT FOR K-FACTOR RATED TRANSFORMERS.
 - I. WALL BRACKETS: MANUFACTURER'S STANDARD BRACKETS.
 - J. LOW-SOUND-LEVEL REQUIREMENTS: MAXIMUM SOUND LEVEL WHEN FACTORY TESTED ACCORDING TO IEEE C57.12.91, AS FOLLOWS:
 1. 30 TO 50 KV: 45DBA.

- 2.14 TIME SWITCHES
 - A. ASTRONOMIC TIME SWITCHES: COMPLY WITH UL 917.
 1. LISTED AND LABELED AS DEFINED IN NFPA 70 AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 - B. RETAIN "CONTACT CONFIGURATION" SUBPARAGRAPH BELOW IF CONFIGURATION IS NOT INDICATED ON DRAWINGS.
 1. CONTACT RATINGS:
 - a. NORMALLY OPEN, 20A GENERAL PURPOSE AND RESISTIVE.
 2. PROGRAMS: AT LEAST EIGHT ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND AN ANNUAL HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.
 3. ASTRONOMIC PROGRAMMING.
 4. AUTOMATIC DAYLIGHT SAVINGS TIME CHANGEOVER.
 5. SMALL CASE NEMA 1 ENCLOSURE.
 6. NUMBER OF CIRCUITS: [2].

- 2.15 LUMINAIRES
 - A. LUMINAIRES AS SHOWN, WITH PROPER HANGERS, PENDANTS, CANOPIES, LAMPS, ETC., NECESSARY FOR COMPLETE INSTALLATION.
 - B. SWINGING LUMINAIRES INSTALLED OUTDOORS WITH SUITABLE FOR WET LOCATIONS LABEL AND A REMOVABLE PREWIRED BALLAST.
 1. SWINGING LUMINAIRES WITH A SAFETY CABLE ATTACHED TO THE STRUCTURE AND THE LUMINAIRE AT EACH SUPPORT CAPABLE OF SUPPORTING FOUR TIMES THE VERTICAL LOAD.

PART 3 - EXECUTION

- 3.1 NOTE:
 - A. COORDINATE ELECTRICAL WORK WITH THE OWNER AND THE WORK OF OTHER TRADES TO AVOID CONFLICTS, ERRORS, DELAYS, AND UNNECESSARY INTERFERENCE DURING CONSTRUCTION.
- 3.2 PROTECTION DURING CONSTRUCTION
 - A. FOLLOWING INSTALLATION, PROTECT MATERIALS, EQUIPMENT, AND INSULATION FROM CORROSION, PHYSICAL DAMAGE, AND MOISTURE. CAP CONDUIT RUNS DURING CONSTRUCTION WITH MANUFACTURED SEALS. KEEP OPENINGS IN BOXES OR EQUIPMENT CLOSED DURING CONSTRUCTION.
- 3.3 MATERIAL AND EQUIPMENT INSTALLATION
 - A. FOLLOW THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS UNLESS OTHERWISE INDICATED. FOLLOW THE ENGINEER'S DECISION, WHEREVER ANY CONFLICT ARISES. KEEP COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AVAILABLE ON THE JOBSITE FOR REVIEW AT ALL TIMES. INSTALL FREESTANDING EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SECURE FREESTANDING EQUIPMENT RIGIDLY TO FLOORS OR MOUNTING PADS WITH ANCHOR BOLTS, EXPANSION SHIELDS, OR OTHER APPROVED MEANS.
- 3.4 CUTTING AND PATCHING
 - A. DO NOT CUT OR NOTCH ANY STRUCTURAL MEMBER OR BUILDING SURFACE WITHOUT SPECIFIC APPROVAL OF THE ENGINEER. FOLLOWING SUCH WORK, RESTORE SURFACES NEATLY TO NEW CONDITION USING SKILLED CRAFTSMEN OF THE TRADES INVOLVED.
- 3.5 CLEANING AND TOUCH-UP PAINTING
 - A. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH. UPON COMPLETION OF WORK, REMOVE MATERIALS, SCRAPS, AND DEBRIS FROM THE PREMISES AND FROM THE INTERIOR AND EXTERIOR OF ALL DEVICES AND EQUIPMENT. REFINISH DAMAGED SURFACES TO NEW CONDITION USING SKILLED CRAFTSMEN OF THE TRADES INVOLVED.
- 3.6 RACEWAY SYSTEM
 - A. UNLESS OTHERWISE SPECIFIED OR INDICATED, WIRING SHALL CONSIST OF INSULATED CONDUCTORS INSTALLED IN RACEWAYS OF THE TYPES INDICATED:
 1. EXTERIOR, EXPOSED: GALVANIZED RIGID STEEL.
 2. DIRECT EARTH BURIAL: PVC SCHEDULE 40.
 3. UNDER SLABS ON-GRADE: PVC SCHEDULE 40.
 4. ALL CONDUIT PENETRATIONS THROUGH CONCRETE FLOOR SLABS SHALL BE GALVANIZED RIGID ENTIRE DEPTH OF FLOOR SLAB.
 - B. FOR EQUIPMENT WHERE FLEXIBLE CONNECTION IS REQUIRED TO MINIMIZE VIBRATION:
 1. FLEXIBLE METAL LIQUID-TIGHT CONDUIT.
 2. LENGTH: MINIMUM, 40-INCH MAXIMUM OF SUFFICIENT LENGTH TO ALLOW MOVEMENT OR ADJUSTMENT OF EQUIPMENT.
 - C. BOX TYPE (ALL RACEWAY SYSTEMS):
 1. EXTERIOR LOCATIONS: WEATHERPROOF TYPE SR.
 2. INTERIOR DRY LOCATIONS: SHEET STEEL, TYPE 1.
 3. BURIED RACEWAY: CONCRETE PULLBOX.
 - D. INSTALL PULL BOXES WHERE SHOWN AND WHERE NECESSARY TO TERMINATE, TAP-OFF, OR REDIRECT MULTIPLE CONDUIT RUNS. INSTALL PULL BOXES WHERE NECESSARY IN RACEWAY SYSTEM TO FACILITATE CONDUCTOR INSTALLATION. INSTALL PULL BOXES IN CONDUIT RUNS AT LEAST EVERY 150 FEET OR AFTER THE EQUIVALENT OF THREE RIGHT-ANGLE BENDS. USE OUTLET BOXES AS JUNCTION AND PULL BOXES WHEREVER POSSIBLE AND ALLOWED BY APPLICABLE CODES.
 - E. SUPPORT BOXES INDEPENDENTLY OF CONDUIT BY ATTACHMENT TO BUILDING STRUCTURE OR STRUCTURAL MEMBER. INSTALL BAR HANGERS IN FRAME CONSTRUCTION, OR FASTEN BOXES DIRECTLY WITH WOOD SCREWS ON WOOD, BOLTS AND EXPANSION SHIELDS ON CONCRETE OR BRICK, TOGGLE BOLTS ON HOLLOW MASONRY UNITS, AND MACHINE SCREWS OR WELDED THREADED STUDS ON STEELWORK.

- 3.7 RACEWAY INSTALLATION
 - A. CONDUIT AND TUBING SIZES SHOWN ARE BASED ON THE USE OF COPPER CONDUCTORS.
 - B. MAINTAIN RACEWAY ENTIRELY FREE OF OBSTRUCTIONS AND MOISTURE.
 - C. GROUP RACEWAYS INSTALLED IN SAME AREA.
 1. FOLLOW STRUCTURAL SURFACE CONTOURS WHEN INSTALLING EXPOSED RACEWAYS. AVOID OBSTRUCTION OF PASSAGEWAYS, RUN EXPOSED RACEWAYS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTIONS OF VERTICAL PLANES.
 2. INSTALL WATER-TIGHT FITTINGS IN OUTDOOR, UNDERGROUND, OR WET LOCATIONS.
 - D. ALL METAL CONDUIT TO BE REAMED, BURRS REMOVED, AND CLEANED BEFORE INSTALLATION OF CONDUCTORS, WIRES, OR CABLES.
 - E. HORIZONTAL BRACKET BREAKERS INSTALLED UNDER FLOOR SLABS SHALL LIE COMPLETELY UNDER SLAB, WITH NO PART EMBEDDED WITHIN SLAB.
 - F. INSTALL CONCEALED, EMBEDDED, AND BURIED RACEWAYS SO THAT THEY EMERGE AT RIGHT ANGLES TO SURFACE AND HAVE NO CURVED PORTION EXPOSED.
 1. FOR EMPTY CONDUITS INSTALL A NYLON PULL CORD TO BE USED FOR FUTURE INSTALLATIONS.
- 3.8 RACEWAY PENETRATIONS
 - A. MAKE AT RIGHT ANGLES, UNLESS OTHERWISE SHOWN.
 - B. NOTCHINGS OR PENETRATION OF STRUCTURAL MEMBERS: BE USING FOOTINGS AND BEAMS, NOT PERMITTED.
 - C. APPLY SINGLE LAYER OF WRAPAROUND DUCT BAND TO ALL METALLIC CONDUIT PROTRUDING THROUGH CONCRETE FLOOR SLABS TO A POINT 2 INCHES ABOVE CONCRETE SURFACE.
 - D. CONCRETE WALLS, FLOORS, OR CEILINGS (ABOVEGROUND): PROVIDE NONSHRINK GROUT DRY-PACK, OR USE WATER-TIGHT SEAL DEVICE.
- 3.9 RACEWAY SUPPORT
 - A. SUPPORT FROM STRUCTURAL MEMBERS ONLY. AT INTERVALS NOT EXCEEDING CEC REQUIREMENTS, AND IN ANY CASE NOT EXCEEDING 10 FEET, DO NOT SUPPORT FROM PIPING, PIPE SUPPORTS, OR OTHER RACEWAYS.
 - B. WALL BRACKETS AND ASSOCIATED HARDWARE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE STAINLESS STEEL. PROVIDE GALVANIZED RIGID STEEL AT ALL OTHER LOCATIONS. STRAP HANGERS AND CEILING TRAPZIE INCLUDING HARDWARE SHALL BE GALVANIZED STEEL.
 - C. PROVIDE AND ATTACH WALL BRACKETS, STRAP HANGERS, OR CEILING TRAPZIE AS FOLLOWS:
 1. WOOD: WOOD SCREWS.
 2. HOLLOW MASONRY UNITS: TOGGLE BELTS.
 3. CONCRETE OR BRICK: EXPANSION SHIELDS, OR THREADED STUDS DRIVEN IN BY POWDER CHARGE, WITH LOCK WASHERS AND NUTS.
 4. STEELWORK: MACHINE SCREWS.
 - D. NAILS OR WOODEN PLUGS INSERTED IN CONCRETE OR MASONRY FOR ATTACHING RACEWAY NOT PERMITTED. DO NOT WELD RACEWAYS OR PIPE STRAPS TO STEEL STRUCTURES. DO NOT USE WIRE IN LIEU OF STRAPS OR HANGERS.

- 3.10 RACEWAY BENDS
 - A. INSTALL CONCEALED RACEWAYS WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE.
 - B. AVOID FIELD-MADE BENDS AND OFFSETS, BUT WHERE NECESSARY, MAKE WITH ACCEPTABLE HICKEY OR BENDING MACHINE. DO NOT HEAT METAL RACEWAYS TO FACILITATE BENDING.
 - C. PVC CONDUIT:
 1. BENDS 30° AND LARGER: PROVIDE FACTORY-MADE ELBOWS.
 2. 90° BENDS: PROVIDE GALVANIZED RIGID STEEL ELBOWS; EXCEPT ON UTILITY SERVICE RUNS IF NOT ALLOWED BY THE UTILITY.
 - D. FLEXIBLE CONDUIT: DO NOT MAKE BENDS THAT EXCEED ALLOWABLE CONDUCTOR BENDING RADIUS OF CABLE TO BE INSTALLED OR THAT SIGNIFICANTLY RESTRICTS CONDUIT FLEXIBILITY.
- 3.11 PVC CONDUIT
 - A. SOLVENT WELDING:
 1. PROVIDE MANUFACTURER RECOMMENDED SOLVENT; APPLY TO ALL JOINTS.
 2. INSTALL SUCH THAT JOINT IS WATER-TIGHT.
 - B. ADAPTERS:
 1. PVC TO METALLIC FITTINGS: PVC FEMALE TYPE.
 2. PVC TO RIGID METAL CONDUIT: PVC TERMINAL ADAPTER.
 - C. BELLED END CONDUIT: BEVEL THE UNBELLED END OF THE JOINT PRIOR TO JOINING.
- 3.12 TERMINATION AT ENCLOSURES:
 - A. SHEET METAL BOXES, CABINETS, AND ENCLOSURES:
 1. GALVANIZED RIGID STEEL CONDUIT:
 - a. PROVIDE ONE LOCK NUT EACH ON INSIDE AND OUTSIDE OF ENCLOSURE.
 - b. INSTALL GROUNDING BUSHINGS.
 - c. PROVIDE BONDING JUMPER FROM GROUNDING BUSHING TO EQUIPMENT GROUND BUS OR GROUND PAD; IF NEITHER GROUND BUS NOR PAD EXISTS, CONNECT JUMPER TO LAG BOLT ATTACHED TO METAL ENCLOSURE.
 - d. INSTALL INSULATED BUSHING ON ENDS OF CONDUIT WHEN GROUNDING IS NOT REQUIRED.
 - e. PROVIDE INSULATED THROAT WHEN CONDUIT TERMINATES IN SHEET METAL BOXES HAVING THREADED HUBS.
 2. ELECTRIC METALLIC TUBING: PROVIDE GLAND COMPRESSION, INSULATED CONNECTORS.
 3. FLEXIBLE METAL CONDUIT: PROVIDE TWO SCREW TYPE, INSULATED, MALLEABLE IRON CONNECTORS.

- 3.13 UNDERGROUND RACEWAYS
 - A. COVER: MAINTAIN MINIMUM 2-FOOT COVER ABOVE CONDUIT, UNLESS OTHERWISE SHOWN.
 - B. INSTALLATION WITH OTHER PIPING SYSTEMS: MAINTAIN MINIMUM 12-INCH SEPARATION UNLESS OTHERWISE INDICATED. INSTALLATION OVER VALVES OR COUPLINGS NOT PERMITTED.
- 3.14 CONDUCTORS
 - A. DO NOT SPlice INCOMING SERVICE CONDUCTORS AND BRANCH POWER DISTRIBUTION CONDUCTORS NO. 6 AWG AND LARGER UNLESS SPECIFICALLY INDICATED OR APPROVED BY ENGINEER.
 - B. CONNECTIONS AND TERMINATIONS:
 1. INSTALL WIRE NUTS ONLY ON SOLID CONDUCTORS.
 2. INSTALL NYLON SELF-INSULATED CRIMP CONNECTORS AND TERMINATORS FOR CIRCUIT CONDUCTORS NO. 6 AWG AND SMALLER.
 3. INSTALL UNSHUNTED CRIMP CONNECTORS AND TERMINATORS FOR CIRCUIT CONDUCTORS NO. 4 AWG THROUGH NO. 2/0 AWG.
 4. INSTALL UNSHUNTED, BOLTED, TWO-WAY CONNECTORS AND TERMINATORS FOR CIRCUIT CONDUCTORS NO. 4/0 AWG AND LARGER.
 5. TAPE INSULATE ALL UNSHUNTED CONNECTIONS.
 6. PLACE NO MORE THAN ONE CONDUCTOR IN ANY SINGLE-BARREL PRESSURE CONNECTION.
 7. INSTALL CRIMP CONNECTORS WITH TOOLS APPROVED BY CONNECTOR MANUFACTURER.
 - C. COMPRESSION LUGS:
 1. ATTACH WITH A TOOL SPECIFICALLY DESIGNED FOR PURPOSE.
 2. TOOL SHALL PROVIDE COMPLETE, CONTROLLED CRIMP AND SHALL NOT RELEASE UNTIL CRIMP IS COMPLETE.
 3. DO NOT USE PULLER TYPE CRIMPERS.

- C. DO NOT USE SOLDERED MECHANICAL JOINTS.
- D. SPLICES AND TERMINATIONS:
 1. INDOORS: USE GENERAL PURPOSE, FLAME RETARDANT TAPE.
 2. OUTDOORS: USE FLAME RETARDANT, GOLD- AND WEATHER-RESISTANT TAPE.
- E. CAP SPARE CONDUIT WITH UL LISTED END CAPS.
- F. CABINETS AND PANELS:
 1. REMOVE SURPLUS WIRE, BRIDLE AND SECURE.
 2. WHERE CONDUCTORS PASS THROUGH OPENINGS OR OVER EDGES IN SHEET METAL, REMOVE BURNERS TO CHAMFER EDGES, AND INSTALL BUSHINGS AND PROTECTIVE STRIPS OF INSULATING MATERIAL TO PROTECT THE CONDUCTORS.
- G. PROVIDE ADEQUATE LENGTH FITTINGS FOR CONDUCTORS CONNECTED BY OTHERS.
- 3.15 GROUNDING
 - A. UNLESS OTHERWISE INDICATED, GROUND ALL EXPOSED NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, AND THE NEUTRAL OF ALL WIRING SYSTEMS IN ACCORDANCE WITH THE CEC, STATE, AND OTHER APPLICABLE LAWS AND REGULATIONS.
 - B. WHERE GROUND RODS ARE INDICATED OR USED, THEY SHALL BE COPPER CLAD, NOT LESS THAN 3/4-INCH IN DIAMETER, 10 FEET LONG, DRIVEN FULL LENGTH INTO THE EARTH.
 - C. MAKE GROUND CONNECTIONS BY BRAZING, THERMITE WELDING, OR WITH APPROVED PRESSURE TERMINALS OR MECHANICAL GROUNDING DEVICES. EXCEPT INACCESSIBLE CONNECTIONS SHALL BE MADE BY THERMITE WELDING. THE POINT OF CONTACT OF EACH THERMITE WELD SHALL BE WIRE BRUSHED OR FILED TO A BARE METAL SURFACE. THERMITE WELDING CARTRIDGES AND MOLDS SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AFTER THE WELDS HAVE BEEN MADE AND COOLED, SLAG SHALL BE BRUSHED FROM THE WELDED AREA AND THE JOINT THOROUGHLY CLEANED.

- 3.16 TRANSFORMER FIELD QUALITY CONTROL
 - A. RETAIN ONE OF FIRST FOUR PARAGRAPHS BELOW. RETAIN "TESTING AGENCY" PARAGRAPH BELOW IF OWNER WILL HIRE AN INDEPENDENT TESTING AGENCY.
 - B. RETAIN "TESTING AGENCY" PARAGRAPH BELOW TO REQUIRE CONTRACTOR TO HIRE AN INDEPENDENT TESTING AGENCY.
 - C. RETAIN "MANUFACTURER'S FIELD SERVICE" PARAGRAPH BELOW TO REQUIRE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM TESTS AND INSPECTIONS.
 - D. RETAIN "PERFORM TESTS AND INSPECTIONS" PARAGRAPH BELOW TO REQUIRE CONTRACTOR TO PERFORM TESTS AND INSPECTIONS. RETAIN THE ORIGINAL TEST TO REQUIRE CONTRACTOR TO ARRANGE FOR THE ASSISTANCE OF A FACTORY AUTHORIZED SERVICE AGENT.
 - E. PERFORM TESTS AND INSPECTIONS.
 - F. TESTS REFERENCED IN SUBPARAGRAPH BELOW ARE FROM NETA ATS AND INCLUDE INSPECTION PROCEDURES TO VERIFY PROPER INSTALLATION, THEY ALSO INCLUDE TESTS AND MEASUREMENTS OF INSULATION RESISTANCE AND TURNS RATIO. COST OF EXTENSIVE TESTING MAY NOT BE WARRANTED FOR SOME PROJECTS. REVISE SUBPARAGRAPH TO SUIT PROJECT.
- 3.17 TESTS AND INSPECTIONS:
 1. INSPECT PHYSICAL AND MECHANICAL CONDITION.
 2. INSPECT ANCHORAGE, ALIGNMENT AND GROUNDING.
 3. VERIFY RESILIENT MOUNTS ARE FREE AND THAT SHIPPING BRACKETS HAVE BEEN REMOVED.
 4. VERIFY THE UNIT IS CLEAN.
 5. PERFORM RESISTANCE MEASUREMENTS THROUGH BOLTED CONNECTIONS WITH A LOW-RESISTANCE OHMMETER, IF APPLICABLE, IN ACCORDANCE WITH 2009 NETA ACCEPTANCE TESTING SPECIFICATION.
 6. PERFORM INSULATION-RESISTANCE TEST WINDING-TO-WINDING AND EACH WINDING-TO-GROUND WITH 1,000 VDC TEST VOLTAGE. CALCULATE DIELECTRIC ABSORPTION RATIO OR POLARIZATION INDEX.
- 3.18 LIGHTING FIXTURES:
 - A. AFTER CONSTRUCTION OF THE TOTAL PROJECT IS COMPLETED, WASH FIXTURES, CLEAN LUMINAIRES, TOUCH UP ANY PAINT SCRATCHES OR CHIPS, AND REMOVE LABELS FROM FIXTURE LENSES.
 - B. 19 OPERATIONAL READINESS TEST (ORT)
 1. DEMONSTRATE TEST PLANS, AND TEST REPORTS SHALL BE PROVIDED BY THE CONTRACTOR AS SPECIFIED HEREIN. THE CONTRACTOR SHALL PROVIDE LABOR, INSTRUMENTS, AND OTHER MATERIAL TO COMPLETE THE TEST.
 2. THE ENTIRE INSTALLED ELECTRICAL SYSTEM SHALL BE CERTIFIED (INSPECTED, TESTED, AND DOCUMENTED) THAT IT IS READY FOR OPERATION. THE OBJECTIVE OF THIS TEST IS TO DEMONSTRATE THAT THE ELECTRICAL SYSTEM IS COMPLETE AND READY FOR USE.
 1. INSULATION RESISTANCE TEST:
 - a. PERFORM INSULATION RESISTANCE TEST ON EACH CONDUCTOR NO. 6 AND LARGER WITH RESPECT TO GROUND. APPLY 1,000 VDC FOR ONE MINUTE.
 - b. RECORD TEST VALUES AND SUBMIT TO THE ENGINEER. INSULATION RESISTANCE TO BE 50 MEGAOHMS MINIMUM.
 - c. MEASURE INSULATION RESISTANCE OF COMPLETE CIRCUITS WITH THE CIRCUIT BREAKERS OPEN.
 - d. NOTIFY THE ENGINEER ONE WEEK PRIOR TO THE INSULATION TEST.
 2. GROUNDING SYSTEM:
 - a. VERIFY GROUND SYSTEM IS IN COMPLIANCE WITH THE PLANS.
 - b. PERFORM FALL-OR-POTENTIAL TEST OR ALTERNATIVE IN ACCORDANCE WITH IEEE STANDARD 81-1997 ON THE MAIN GROUNDING ELECTRODE OR SYSTEM.
 - c. PERFORM POINT-TO-POINT TESTS TO DETERMINE THE RESISTANCE BETWEEN THE MAIN GROUNDING SYSTEM AND ALL MAJOR ELECTRICAL EQUIPMENT FRAMES.
 - d. THE RESISTANCE BETWEEN THE MAIN GROUNDING ELECTRODE AND GROUND SHALL BE NO GREATER THAN 5 OHMS. INVESTIGATE POINT-TO-POINT RESISTANCE VALUES WHICH EXCEED 0.5 OHMS.
 3. DEMONSTRATION:
 - a. DEMONSTRATE PROPER CIRCUITING.
 - b. DEMONSTRATE PROPER SWITCHING OF FIXTURES.
 - c. DEMONSTRATE THAT ALL RECEPTACLES ARE ENERGIZED, POLARITY CORRECT AND PROPERLY GROUNDING.
 - d. DEMONSTRATE THAT ALL FIXTURES ARE OPERATING AND ALL LUMINAIRES ARE IIT.
 - e. DEMONSTRATE PROPER OPERATION OF GFCI RECEPTACLES (USE GFCI TESTER).
 - f. DEMONSTRATE PROPER PANEL LABELING.
 4. LIGHTING SYSTEM: THE LIGHTING SYSTEM SHALL BE TESTED AND DOCUMENTED FOR CONFORMANCE TO THE PLANS IN ACCORDANCE WITH 2016 ILE 24 NON-RESIDENTIAL COMPLIANCE MANUAL. ACCEPTANCE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - a. WIRING FOR MULTI-LEVEL LIGHTING CONTROL.
 - b. LOCATION OF LIGHTING CONTROL DEVICES.
 - c. DOCUMENTATION FOR EACH DEVICE WITH PROGRAMMED SETTINGS.
 - d. MOTION SENSING DEVICES.
 - e. AUTOMATIC SHUT-OFF CONTROLS.

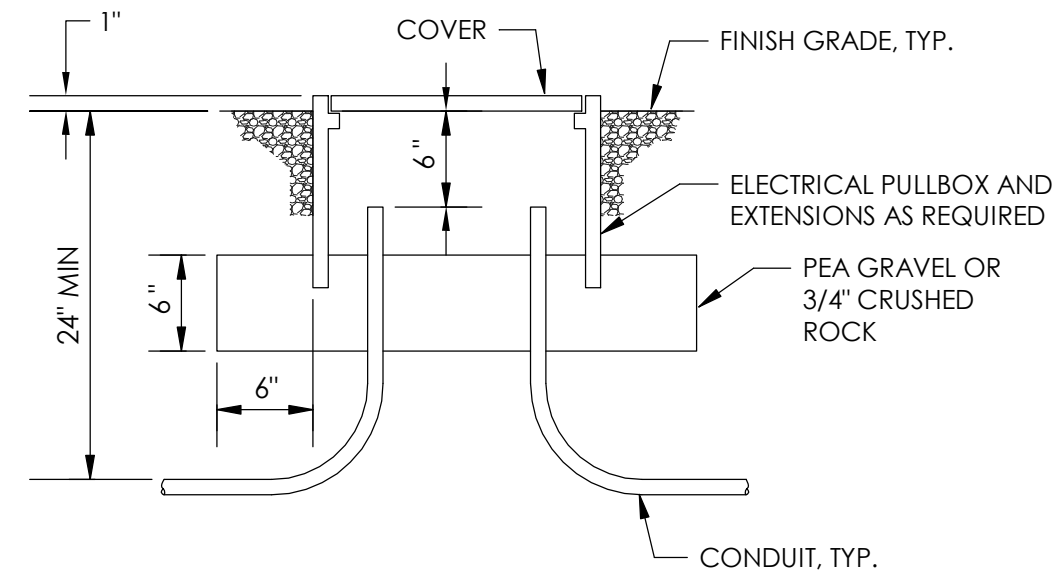
- C. PANELBOARD DIRECTORIES SHALL MEET MINIMUM CEC 408.4 REQUIREMENTS. THE CONTRACTOR SHALL IDENTIFY EACH CIRCUIT WITH ROOM NUMBER, ROOM NAME AND EQUIPMENT SERVED. STANDARD ABBREVIATIONS FROM THE NEC AND WEBSTER'S DICTIONARY ARE ALLOWED. (E.G., "207 JANITOR WH" OR "102 103 RR RCPT").
- D. LABELS SHALL BE MELAMINE, FLEXI-BRASS, OR EQUAL MATERIAL, 1.5"X3/4", WITH 3/8" TIMES NEW ROMAN LETTERING.
 - a. BACKGROUND/LETTERING COLOR SHALL BE AS FOLLOWS:

ELECTRICAL SYMBOLS	
LINE TYPES AND SYMBOLS	CONDUIT EXPOSED
	CONDUIT CONCEALED or BURIED
	INDICATES FIRE RATED WALL
	CONDUIT DOWN
	CONDUIT UP
	HOME RUN-DESTINATION SHOWN
TICK MARKS	TICK MARKS W/BARS INDICATES NUMBER OF #10 CONDUCTORS WITH #10 GROUND
	TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND
	"L" WITH TICK MARKS INDICATES #18 SOLID PAIR WITH ASSOCIATED POWER CONDUCTORS
DEVICES, BOXES AND TERMINATIONS	CONNECTION POINT (CONTRACTOR SHALL DETERMINE CONNECTION CONFIGURATION)
	JUNCTION BOX
	PORCELAIN LAMP HOLDER WITH PULL CHAIN AND INTEGRAL RECEPTACLE (HVAC LIGHT/PLUG ONLY)
	DUPLEX RECEPTACLE
	QUADRUPLUX RECEPTACLE
	SINGLE OR THREE PHASE RECEPTACLE. SEE PLAN SHEETS TYPE PER LOCATION
EQUIPMENT	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN
	SURFACE MOUNT PANELBOARD
	CADWELDED GROUND CONDUCTOR CONNECTION
	GROUND ROD
	CIRCUIT BREAKER
	TRANSFORMER, PRIMARY, SECONDARY, PHASE AND RATING INDICATED AS INDICATED
	CURRENT TRANSFORMER, NUMBER INDICATED
ANNOTATION	KEYNOTE
	INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS, E.G., 4"C-4#500,1#3G (MSB : PNL A) INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO PANELBOARD A.

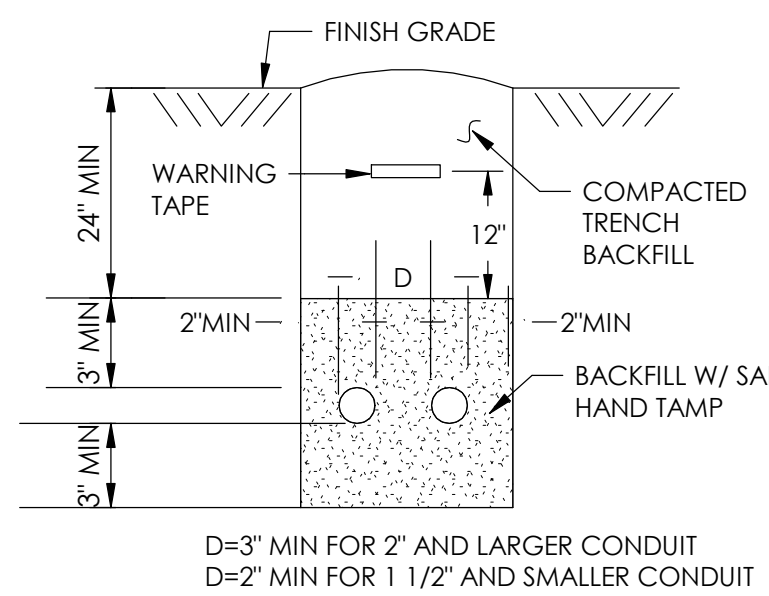
NOTE:
 1. THIS IS A SUPPLEMENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS. SEE LIGHTING CONTROL SHEET FOR LIGHTING LEGEND.
 2. DEVICE BOXES ARE MEASURED TO CENTER OF DEVICE ON PLANS UNLESS OTHERWISE NOTED.

ELECTRICAL ABBREVIATIONS	
A	- AMMETER, AMPERE
AC	- ALTERNATING CURRENT
AFF	- ABOVE FINISHED FLOOR OR GRADE
AIC	- AMPS INTERRUPTING CAPACITY
BRKR	- BREAKER
BOD	- BOTTOM OF DEVICE
C or COND	- CONDUIT
CKT	- CIRCUIT
COD	- CENTER OF DEVICE
CT	- CURRENT TRANSFORMER
DC	- DIRECT CURRENT
(E) or EXIST	- EXISTING
EEOR	- ELECTRICAL ENGINEER OF RECORD
ECC	- EQUIPMENT GROUNDING CONDUCTOR
ENC	- ENCLOSURE
G	- EQUIPMENT GROUNDING CONDUCTOR
GEC	- GROUNDING ELECTRODE CONDUCTOR
GFCI	- GROUND FAULT CIRCUIT INTERRUPT
J	- JUNCTION BOX
LCP	- LIGHTING CONTROL PANEL
LTG	- LIGHTING
MBJ	- MAIN BONDING JUMPER
MCB	- MAIN CIRCUIT BREAKER
MFR	- MANUFACTURER
MLO	- MAIN LUG ONLY
MOCOP	- MAXIMUM OVERCURRENT PROTECTION
MSB	- MAIN SWITCH BOARD
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
N	- NEUTRAL
(N)	- NEW
PB	- PULLBOX
PNL	- PANELBOARD
RCPT	- RECEPTACLE
RM	- ROOM
SWBD	- SWITCHBOARD
TOD	- TOP OF DEVICE
TYP	- TYPICAL
V	- VOLTMETER, VOLT
W	- WATT
WP	- WEATHERPROOF (NEMA 3R)
XFMR	- TRANSFORMER

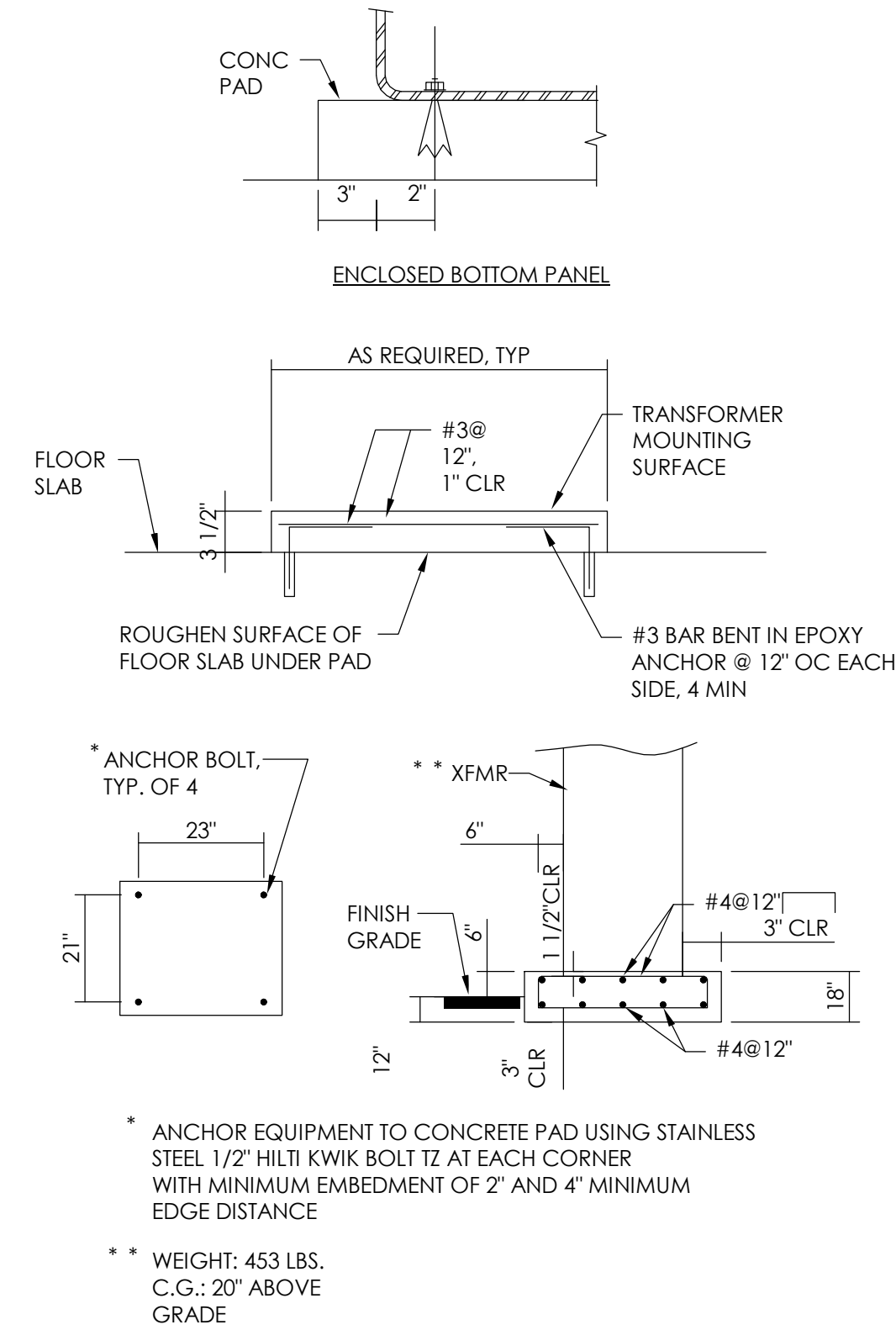
NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS



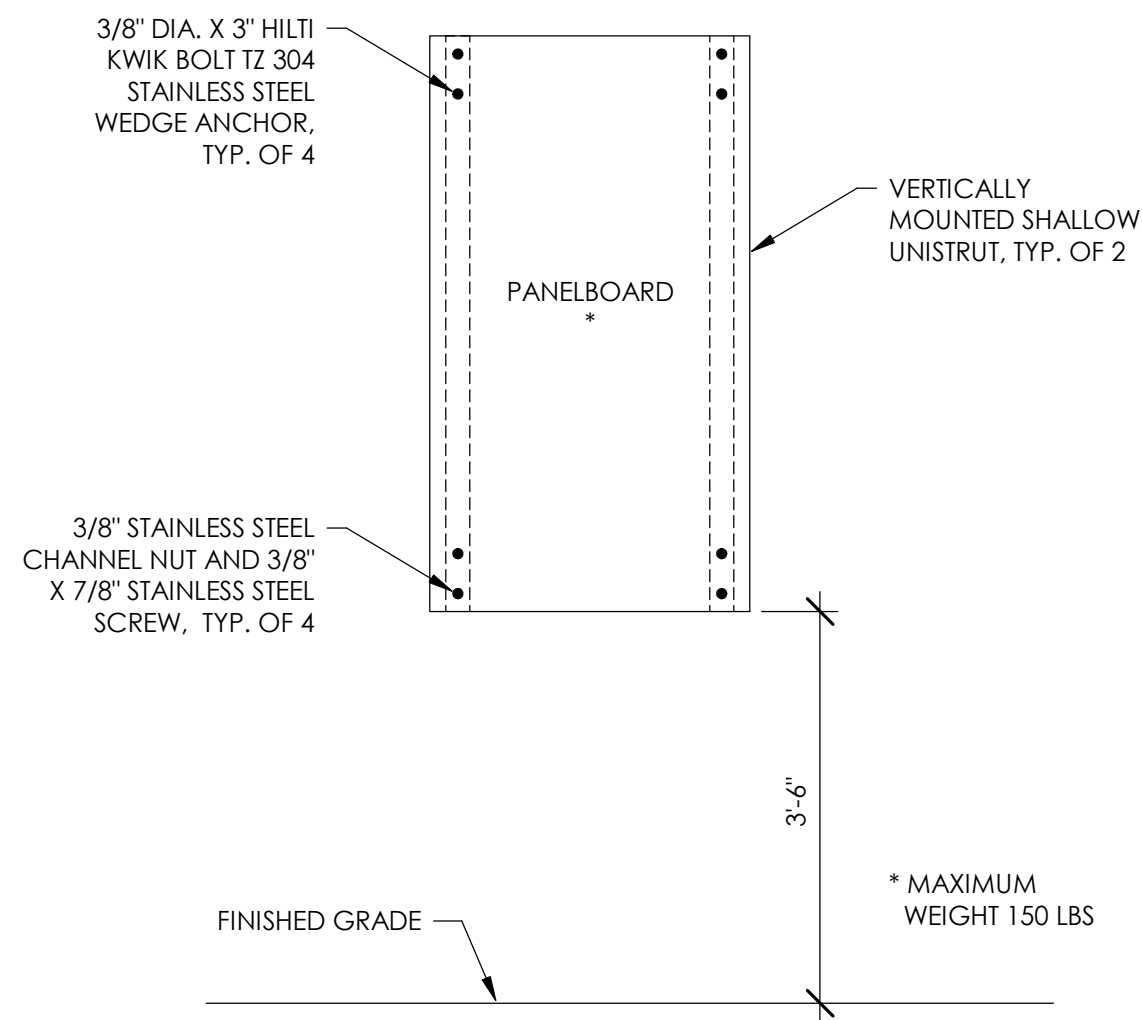
PULLBOX - SWEEP UP (2) E0.1 NTS



UNDERGROUND CONDUIT (3) E0.1 NTS



TRANSFORMER PAD AND MOUNTING DETAILS (1) E0.1 NTS



PANELBOARD SURFACE MOUNT CMU (4) E0.1 NTS

GENERAL NOTES

NOTE

- DO ALL WORK AND INSTALL PRODUCTS IN ACCORDANCE APPLICABLE NECA REQUIREMENTS, APPLICABLE STATE LAWS, LOCAL LAWS, CODES AND ORDINANCES. THE CONTRACTOR SHALL ADHERE TO THE SPECIFIC PRODUCT AND INSTALLATION REQUIREMENTS OF THE UTILITY COMPANIES AND MANUFACTURER'S PROVIDING MATERIALS TO THE JOB. CONFLICTS, IF ANY, WILL BE RESOLVED AT THE DISCRETION OF THE EOR.
- IT IS OF THE UTMOST IMPORTANCE THAT THE INSTALLING CONTRACTOR HAVE A MASTERY OF THE PROJECT-SPECIFIC REQUIREMENTS SHOWN IN SPECIFICATIONS AND CONSTRUCTION DRAWINGS. IT IS STRONGLY ADVISED THAT THE CONTRACTOR CONTACT THE EOR FOR CLARIFICATION OR RFI THE EOR IF FURTHER INFORMATION IS REQUIRED. THE EOR SHALL REQUIRE REVISIONS TO BE MADE IN THE FIELD IF THE INSTALLATION DOES NOT FALL WITHIN THESE PROJECT-SPECIFIC GUIDELINES. NO ALLOWANCE SHALL BE MADE FOR INSTALLATIONS NOT ADHERING TO THESE REQUIREMENTS.

KEYNOTES

NOTE

- CIRCUITS INDICATED WITH KEYNOTE 1 CALLOUT TO BE ROUTED IN SAME CONDUIT FROM CAVITY IN WALL TO CANOPY STRUCTURE. SEE ELECTRICAL DRAWINGS FOR FURTHER DETAILS REGARDING ROUTING WITHIN CAVITY.
- PROVIDE AND INSTALL GFCI BREAKER.

LIGHTING DEVICE SPECIFIER NOTES

NOTE

- PACE ENGINEERING PROVIDES COMPLETE DESIGN PARAMETERS FOR LIGHTING CONTROLS AND IS RESPONSIBLE FOR THE OVERALL FUNCTIONALITY OF THE LIGHTING CONTROL SYSTEM, ITS ADHERENCE TO CALIFORNIA ENERGY CODE AND TO THE CALIFORNIA ELECTRIC CODE.
- EQUALS TO THE LIGHTING CONTROL SYSTEM SHALL BE CONSIDERED IF THE SUBSTITUTION SYSTEM PROVIDES EQUAL COMPONENTS AND FALLS WITHIN THE LIMITS OF CONTROLS SPECIFIED IN THE CONTRACT DOCUMENTS.
- NOTE THAT THE ENGINEER OF RECORD IS PRIVY TO THE REQUESTS OF THE CLIENT AND THE OWNER, OF WHICH THE LIGHTING DEVICE SPECIFIER IS NOT, ADDITIONS AND ALTERATIONS BY THE SPECIFIER MAY ALTER AGREEMENTS SECURED BETWEEN THE ENGINEER AND THE CLIENT/OWNER.
- THE CONTRACT DOCUMENTS ARE LEGAL DOCUMENTS. THE LIGHTING DESIGNER SHALL NOT ADD SYSTEM COMPONENTS NOT LISTED OR DESCRIBED IN THE CONTRACT DOCUMENTS (REFERENCE ALL PLANS AND ELECTRICAL SPECIFICATIONS). SPECIFYING REPRESENTATIVES ADDING MATERIALS THAT RESULT IN AN INFLATION OF COSTS FOR CONTRACT BID MAY BE SUBJECT TO LEGAL ACTION.
- SUBMITTALS DEVIATING FROM THESE DIRECTIONS SHALL RECEIVE AN IMMEDIATE REJECTION. THE LIGHTING DEVICE SPECIFIER SHALL CORRESPOND WITH THE ENGINEER IF QUESTIONS ARISE REGARDING DESIGN OR INTENT OF DESIGN. THIS PROCESS SHALL OCCUR BEFORE SUBMITTING A BILL OF MATERIAL TO BE SUBMITTED TO THE CONTRACTOR OR DISTRIBUTOR FOR BID.

LIGHTING CONTROL NOTES

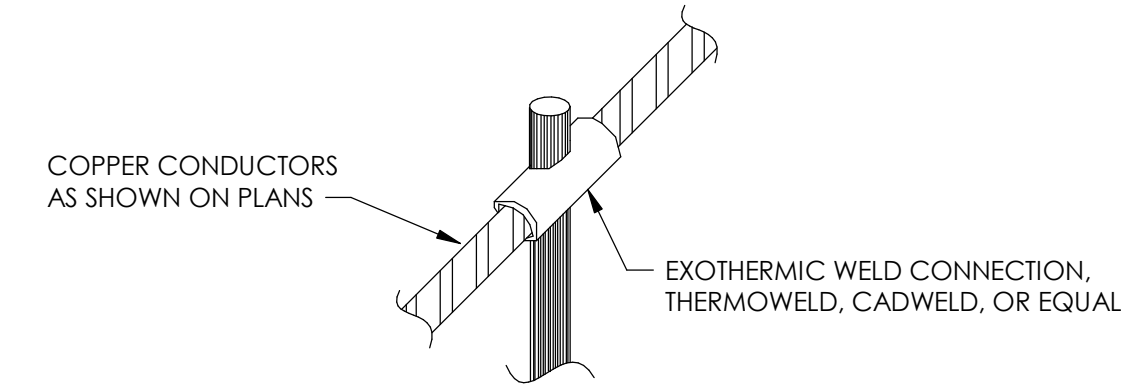
NOTE

- CONTRACTOR SHALL VERIFY ALL REQUIRED COMPONENTS, INTERFACES, AND DEVICES ARE PROVIDED AND INSTALLED TO FURNISH A COMPLETE LIGHTING CONTROL SYSTEM AS DESIGNED AND DESCRIBED.
- CONTRACTOR SHALL PROGRAM THE SYSTEM AS SHOWN AND DESCRIBED. THE CONTRACTOR MAY SUBCONTRACT COMMISSIONING, PROGRAMMING AND OWNER TRAINING TO AN AUTHORIZED FACTORY TECHNICIAN OR REGISTERED PROFESSIONAL ENGINEER.
- CONTRACTOR SHALL COORDINATE FINAL MOUNTING LOCATIONS OF ALL LIGHTING CONTROL DEVICES TO THE OWNER'S SATISFACTION.
- INTERCONNECTION AND LOW VOLTAGE POWER TO LIGHTING DEVICES SHALL BE PER MANUFACTURER'S RECOMMENDATION. INSTALLATION SHALL BE IN COMPLIANCE WITH THE CEC.
- THE MANUFACTURER SHALL PROVIDE SUBMITTALS DESCRIBING LOCATIONS AND ADDITIONS OF ANY PERIPHERAL COMPONENTS NOT SHOWN ON PLANS. THESE COMPONENTS SHALL BE A PART OF THE BID AND SUBMITTAL PROCESS.

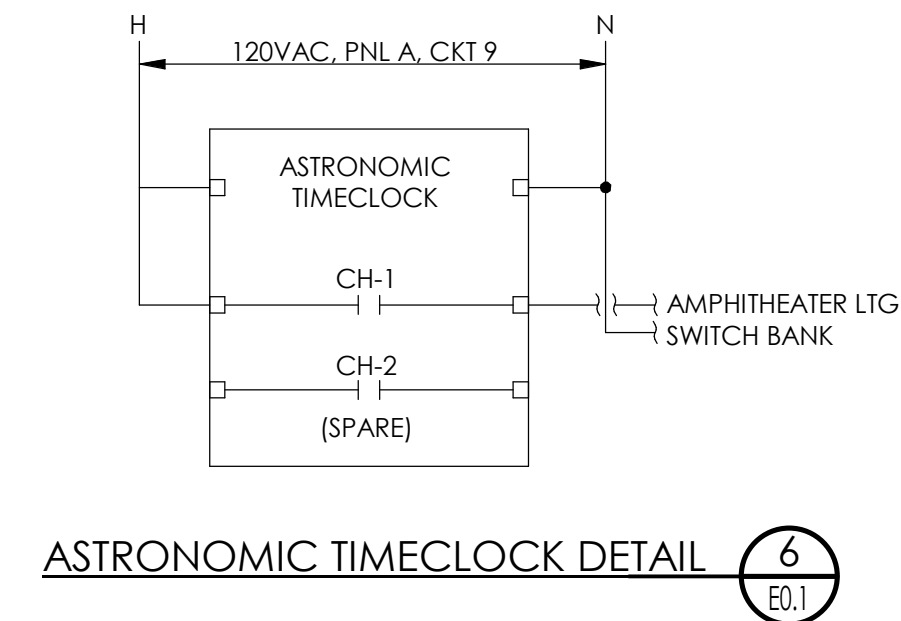
LUMINAIRE NOTES

NOTE

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT, PROVIDE AND INSTALL ACCESSORIES NECESSARY TO RENDER A COMPLETE, PROFESSIONAL AND CODE COMPLIANT INSTALLATION OF ALL LUMINAIRES ASSOCIATED WITH THE PROJECT. THIS INCLUDES WHIPS, CABLING OR ANY OTHER ITEMS REQUIRED FOR EACH LUMINAIRE'S SPECIFIC INSTALLATION LOCATION. SEE ARCHITECTURAL SHEETS FOR FURTHER INSTALLATION REQUIREMENTS.



CABLE TO GROUND ROD (5) E0.1 NTS



ASTRONOMIC TIMECLOCK DETAIL (6) E0.1

LIGHTING SYMBOLS	
LIGHTING DEVICES	LIGHT SWITCH (44" AFF UNLESS OTHERWISE NOTED)
	RELAY WITH 0-10V OUTPUT
	LIGHTING CONTROL PANEL
LUMINAIRES	SEE LIGHTING PLAN FOR SYMBOL TYPE MARKS ASSOCIATED WITH EACH LUMINAIRE SYMBOL. TYPE MARKS ASSOCIATED WITH LUMINAIRE SYMBOLS ON PLANS ARE LINKED TO THE LUMINAIRE SCHEDULE. SEE LUMINAIRE SCHEDULE FOR LUMINAIRE DESCRIPTION INFORMATION.
LIGHTING SYMBOL ATTRIBUTES:	FIELD INDICATES NUMBER OF CHANNELS OR WAYS
	SWITCH TYPE: 1. PIR - PASSIVE INFRARED 2. PDT- DUAL TECHNOLOGY (INFRA-RED WITH ULTRASONIC OR MICROPHONIC TECHNOLOGY) 3. ST-STANDARD TOGGLE 4. PL-TOGGLE WITH PILOT LIGHT 5. KEY-KEYED SWITCH * INDICATES DIMMING *
	*NOTE: 1. ABSENCE OF THE PROPERTIES SHALL BE INDICATED AS AN "-" WITHIN THE LIGHT SWITCH TAG 2. COORDINATE SWITCH OPERATION WITH REQUIREMENTS LISTED IN THE LIGHT SWITCH TAG AND THE LIGHTING MATRIX. SWITCH DIMMING SHALL BE COMPATIBLE WITH LUMINAIRE ASSOCIATED WITH THE SWITCH (SEE "DIM TYPE" IN LUMINAIRE SCHEDULE)
LIGHT SWITCH SYMBOL ATTRIBUTES:	WHEN SUBSCRIPT "a" "b" [ETC.], IS PRESENT WITH THE LIGHT SWITCH SYMBOL, THE SUBSCRIPT INDICATES SWITCHING OF SEPARATE GROUPS WITHIN THE SAME SPACE. OR WILL BE EMPLOYED ON PLANS WHEN CLARIFICATION MAY BE REQUIRED.

NOTE:
 1. THIS IS A SUPPLEMENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS. SEE LIGHTING CONTROL SHEET FOR LIGHTING LEGEND.
 2. DEVICE BOXES ARE MEASURED TO CENTER OF DEVICE ON PLANS UNLESS OTHERWISE NOTED.

LUMINAIRE SCHEDULE									
#	MFR	MODEL	LOAD	VOLTAGE	LAMP	DIM TYPE	LUMENS	COLOR TEMP	DESCRIPTION
1	INTENSE LIGHTING	GC4DR	24 VA	120V	LED	PHASE	2300 lm	3000 K	4" LED WALL MOUNT DOWNLIGHT, HIGH PERFORMANCE EXTRUDED ALUMINUM HOUSING, BLACK FINISH, RECESSED LED MODULE, NARROW FLOOD DISTRIBUTION, DIMMING DRIVER/LED RATED FOR L70/50,000 HOURS, RATED FOR DAMP LOCATIONS.
2	INTENSE LIGHTING	GC4DR	14 VA	120V	LED	PHASE	1400 lm	3000 K	4" LED WALL MOUNT DOWNLIGHT, HIGH PERFORMANCE EXTRUDED ALUMINUM HOUSING, BLACK FINISH, RECESSED LED MODULE, NARROW FLOOD DISTRIBUTION, DIMMING DRIVER/LED RATED FOR L70/50,000 HOURS, RATED FOR DAMP LOCATIONS.
3	INTENSE LIGHTING	GC4DR	24 VA	120V	LED	PHASE	2300 lm	3000 K	4" LED WALL MOUNT DOWNLIGHT, HIGH PERFORMANCE EXTRUDED ALUMINUM HOUSING, BLACK FINISH, RECESSED LED MODULE, WIDE FLOOD DISTRIBUTION, DIMMING DRIVER/LED RATED FOR L70/50,000 HOURS, RATED FOR DAMP LOCATIONS.
4	FX LUMINAIRE	LM-2LED-FB	5 VA	12V	LED	PHASE	14 lm	3000 K	RECESSED STEP LIGHT, STAMPED COPPER HOUSING, POLYCARBONATE LENS, BLACK FINISH, LED/DRIVE RATED FOR L70/50,000 HOURS, MOUNT FIXTURES AT 1'-0" AFF.

(N) BRANCH PANEL											
LOCATION	AMPHITHEATER SURFACE		A		120/240 Single		AIC RATING		10,000		
MOUNTING	SURFACE		VOLTS		WIRES		BUS RATING		225 A		
			CIRCUITS		18		MAIN BREAKER		200 A		
(LABEL PANELBOARDS ACCORDING TO NAMING CONVENTIONS LISTED IN ELECTRICAL SPECIFICATIONS)											
CKT	HOME RUN	LOAD NAME	TRIP	A	B	A	B	TRIP	LOAD NAME	HOME RUN	CKT
1	(2) 3/4"C-3#8,1#10G	50A RECEPT (STAGE RIGHT)	50 A	3744 VA		3744 VA		50 A	50A RECEPT (STAGE LEFT)	3/4"C-3#8,1#10G	(2) 2
3	(1)(2) 1"C-2#10,1#10G	CANOPY RECEPCTS (BACK)	20 A	720 VA		360 VA		20 A	STAGE RECEPCTS	1/2"C-2#12,1#12G	(2) 6
7	(1)(2) 1"C-2#10,1#10G	CANOPY RECEPCTS (FRONT)	20 A		720 VA		360 VA	20 A	STEP LTG CONTROLLER RECEPT	1/2"C-2#10,1#10G	8
9	(1) 1"C-2#10,1#10G	AMPHITHEATER LTG/TIMECLOCK	20 A	354 VA		0 VA		20 A	SPARE	--	10
11	--	SPARE	20 A		0 VA		0 VA	20 A	SPARE	--	12
13	--	SPARE	20 A	0 VA		0 VA		20 A	SPARE	--	14
15	--	SPACE	--		0 VA		0 VA	--	SPACE	--	16
17	--	SPACE	--		0 VA		0 VA	--	SPACE	--	18
TOTAL LOAD (VA)				8922 VA		8568 VA					
TOTAL LOAD (AMPS)				75		72					



820 BROADWAY ST.
 CHICO, CA 95928
 (530) 899-1616
 meltondg.com

LICENSE

CONSULTANT



CLIENT

FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT

RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE

ELECTRICAL SCHEDULES

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/10/20
2.	--	--
3.	--	--
4.	--	--
5.	--	--
6.	--	--
7.	--	--
8.	--	--

PLOT DATE: 02/21/20

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
 CONSULTANT PROJECT #: 2367.08

SHEET NUMBER

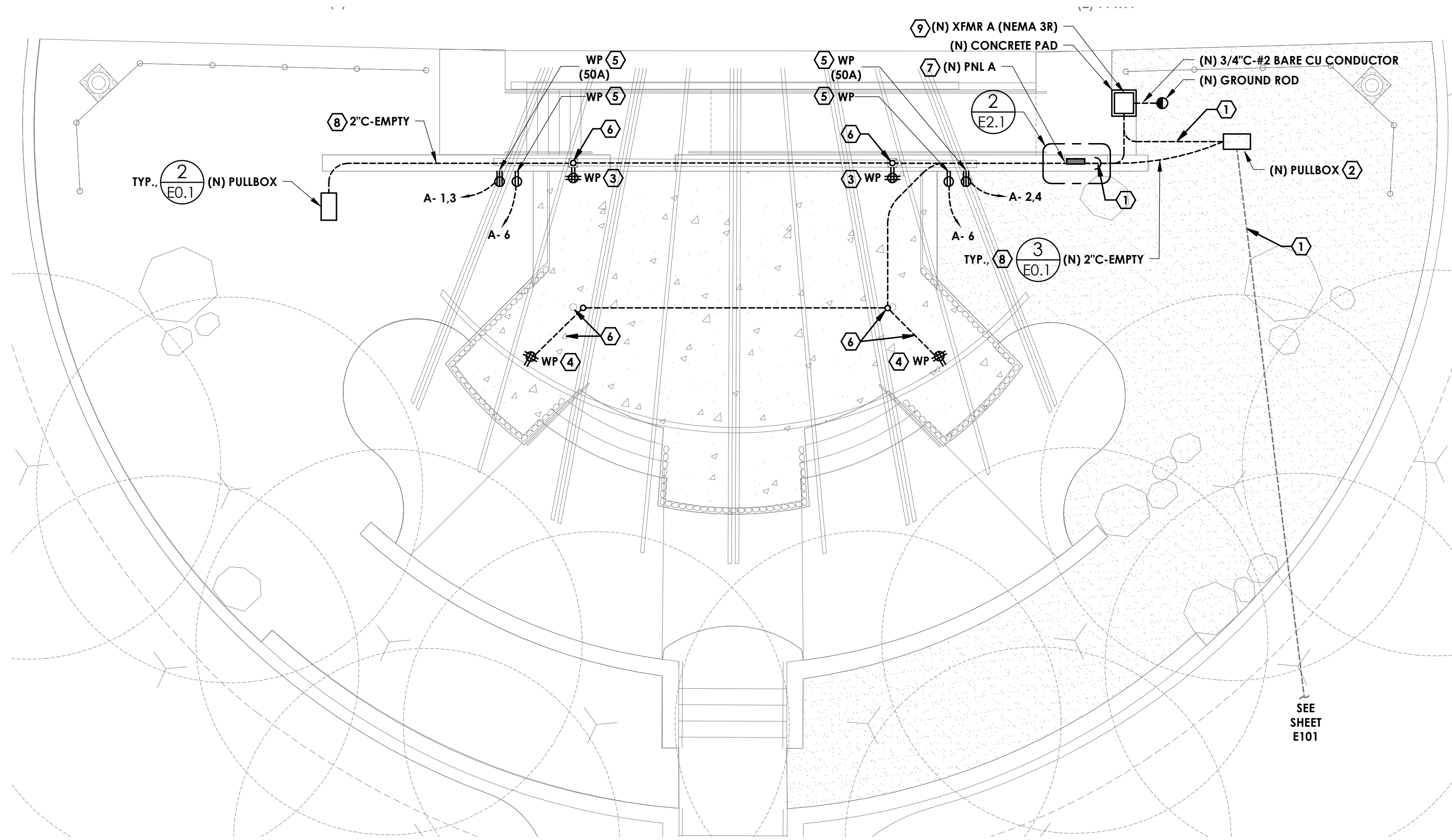
E0.1

SHEET 17 OF 21

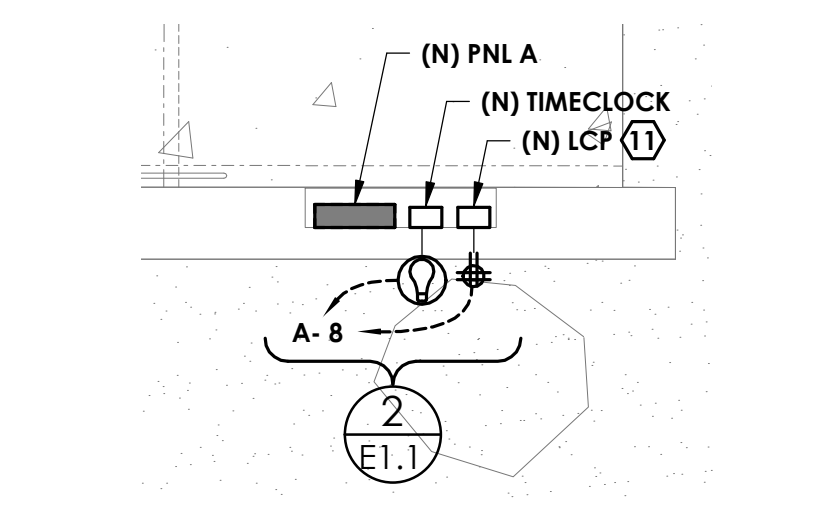
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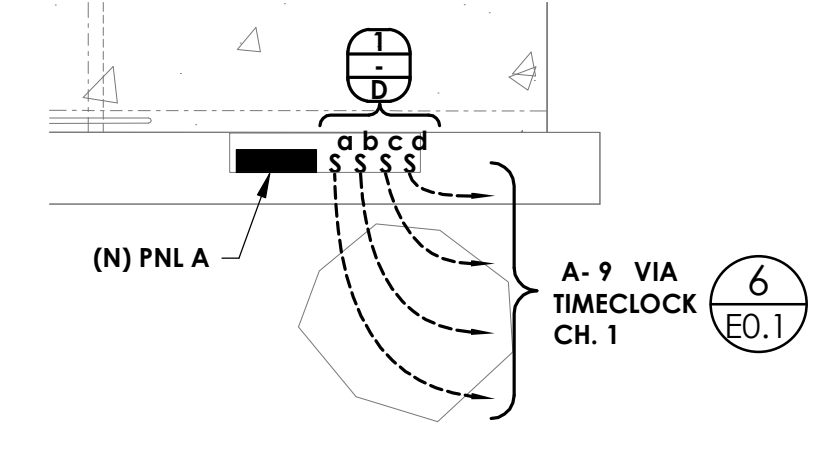
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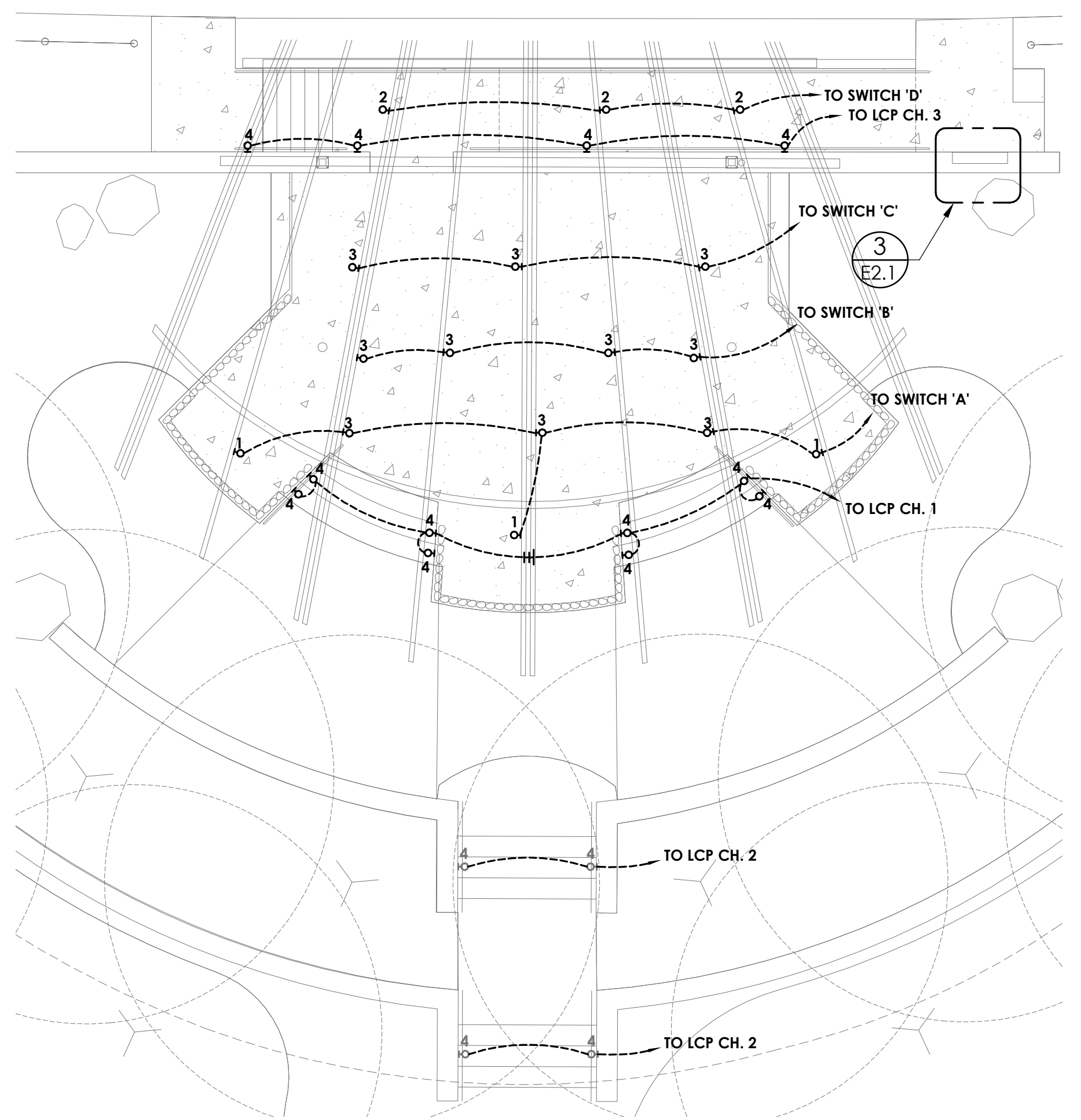
POWER PLAN 1
1/8" = 1'-0" E2.1



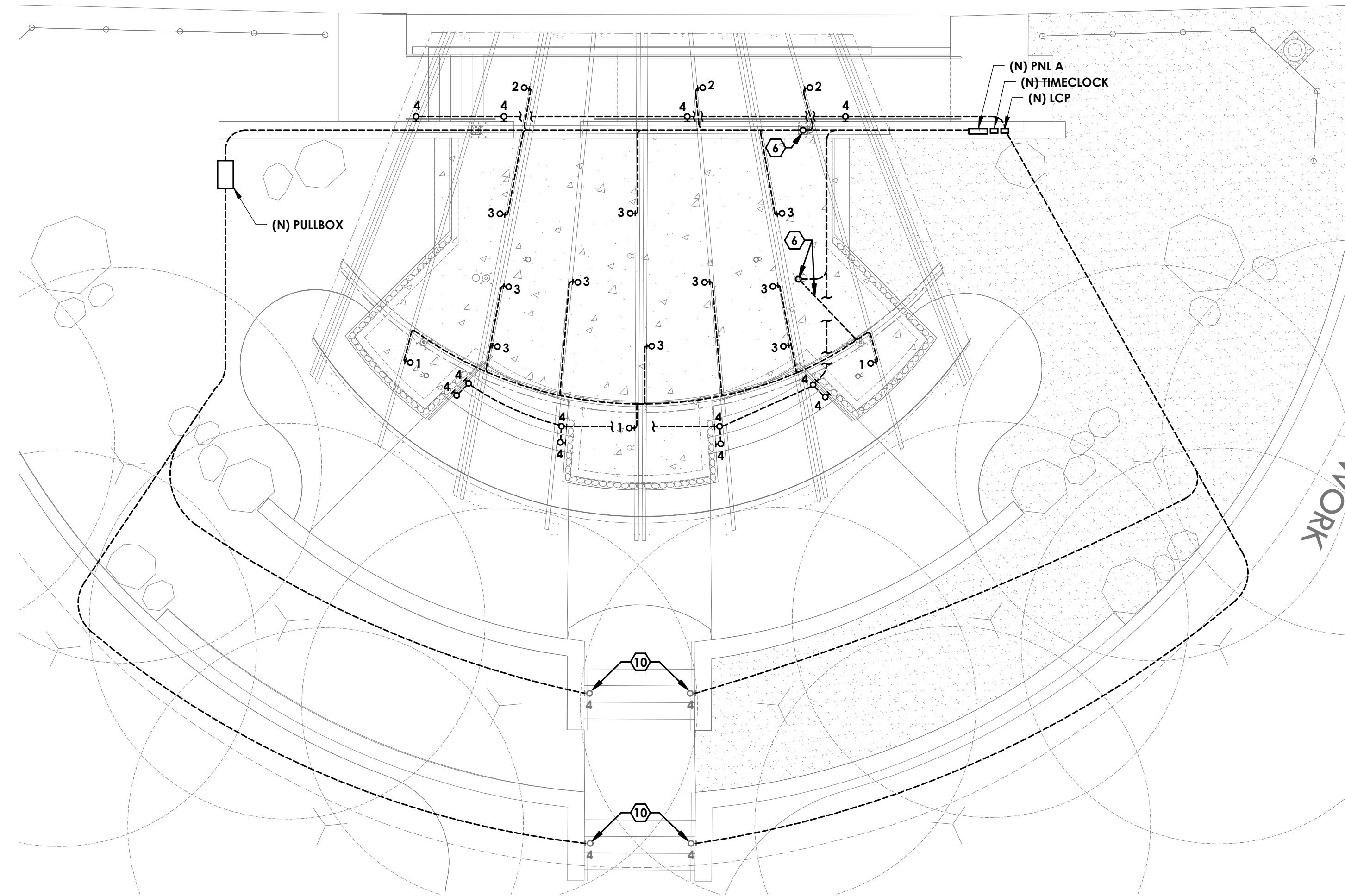
ENLARGED POWER PLAN 2
1/4" = 1'-0" E2.1



ENLARGED LIGHTING PLAN 3
1/4" = 1'-0" E2.1



LIGHTING CIRCUITING PLAN 4
1/8" = 1'-0" E2.1



LIGHTING CONDUIT ROUTING PLAN 5
1/8" = 1'-0" E2.1

- KEYNOTES**
- # NOTE
1. SEE ONE-LINE DIAGRAM FOR CONDUIT/CONDUCTOR DETAILS.
 2. INTERCEPT EXISTING 2" CONDUIT WITH NEW PULLBOX.
 3. PROVIDE AND INSTALL RECEPTACLE AT CANOPY RAFTER. COORDINATE EXACT RECEPTACLE LOCATION WITH BEAM CUT OUT. CONNECT RECEPTACLE TO PANEL A CIRCUIT 7.
 4. PROVIDE AND INSTALL RECEPTACLE AT CANOPY RAFTER. COORDINATE EXACT RECEPTACLE LOCATION WITH BEAM CUT OUT. CONNECT RECEPTACLE TO PANEL A CIRCUIT 5.
 5. PROVIDE AND INSTALL HUBBELL 4600RAC HEAVY DUTY FLUSH RECEPTACLE COVER FOR RECEPTACLE INDICATED.
 6. ROUTE CONDUIT UNDERGROUND FROM PANEL A, UP THE INTERIOR OF THE CANOPY COLUMN. COORDINATE METALLIC CABLE ROUTING INSIDE CANOPY RAFTERS WITH CUTOUTS AND HANDHOLES.
 7. PROVIDE AND INSTALL PANEL IN CAVITY WITHIN WALL.
 8. ROUTE 2" C-EMPTY FROM PANEL A TO PULLBOX AS INDICATED.
 9. PROVIDE AND INSTALL PERMANENT PLACARD ON XFMR A READING "AMPHITHEATER PANEL LOCATED BEHIND STEEL DOOR AT THE BOTTOM OF ADA RAMP."
 10. INTERCEPT EXISTING CONDUIT STUB THROUGH CONCRETE AND CONNECT NEW LOW-VOLTAGE CABLING TO NEW STEP LIGHTS PROVIDED BY OWNER (TYP. 4 LIGHTS).
 11. PROVIDE AND INSTALL FX LUMINAIRE LIGHTING CONTROLLER LUX-300-M INSIDE WALL CAVITY.

- GENERAL NOTES**
- # NOTE
1. STEP LIGHTING WIRING SHALL BE ROUTED IN 1" CONDUIT. CABLING PER MANUFACTURER REQUIREMENTS.
 2. ALL CONDUCTORS ROUTED INSIDE CANOPY RAFTERS SHALL BE IN METALLIC CABLING. SHARING CONDUITS, NEUTRALS, AND GROUND CONDUCTORS IS ACCEPTABLE FOR CIRCUITS BEING ROUTED IN THE CANOPY RAFTERS. PROVIDE ALL NECESSARY FITTINGS, GROMMETS, AND CONDUCTOR ACCESSORIES FOR A COMPLETE ELECTRICAL INSTALLATION.
 3. COORDINATE RECEPTACLE AND LIGHTING FINAL MOUNTING LOCATIONS WITH ICON CANOPY DRAWINGS. SEE ICON CANOPY DRAWINGS FOR CUT AND HANDHOLE LOCATIONS.

LICENSE

CONSULTANT



CLIENT

FEATHER RIVER RECREATION AND PARK DISTRICT

PROJECT

RIVERBEND PARK RENOVATION PH 2 AMPHITHEATER

SHEET TITLE

ELECTRICAL PLANS

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/10/20
2.	-	-
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-

PLOT DATE: 02/21/20

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT #: 2367.08

SHEET NUMBER

E2.1

SHEET 19 OF 21

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (REVISED 04/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-01-E
 (Page 1 of 4)

A. General Information
 Project Address: 50 MONTGOMERY ST., OROVILLE, CA 95965
 Total Illuminated Hardcape Area: 15000
 Phase of Construction: XXX New Construction
 Outdoor Lighting Zone (LZ): N LZ-1, Y LZ-2, O Alteration, N LZ-3, N LZ-4

B. Lighting Compliance Documents (check box for each document included)
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
X		NRCC-LTO-01-E	Certificate of Compliance
X		NRCC-LTO-02-E	Outdoor Lighting Control Certificate of Compliance
		NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
	X	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power
 1. Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1: 900
 2. Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3: 354

D. Declaration of Required Installation Certificates
 Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)
 X NRCLTO-01-E - Must be submitted for all buildings. Field Inspector
 X NRCLTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. Field Inspector

E. Declaration of Required Certificates of Acceptance
 Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)
 NRCLTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (REVISED 04/16)
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 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-01-E
 (Page 2 of 4)

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

1	2
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

1	2
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (REVISED 04/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-01-E
 (Page 3 of 4)

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

1	2	3	4		5	6	7	8	9	
			Watts per Luminaire	How wattage was determined						
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from MAG	According to §130.2(c)	Number of Luminaires	Total Installed Watts in this area (A x S)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	Bug Rating	Pass	Fail
1	LED WALL MOUNT SCNCE	24	X		3	72				
2	LED WALL MOUNT SCNCE	14	X		3	42				
3	LED WALL MOUNT SCNCE	24	X		10	240				
INSTALLED WATTS PAGE TOTAL:							354	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, Page 1		

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (REVISED 01/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-01-E
 (Page 4 of 4)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 1. I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: TONY BOWSER
 Signature Date: 1/24/2020
 Address: 1730 SOUTH ST
 City/State/Zip: REDDING, CA 96001
 Phone: 530-244-0202

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the docs the builder provides to the building owner at occupancy.

Responsible Designer Name: TONY BOWSER
 Signature Date: 1/24/2020
 Address: 1730 SOUTH ST
 City/State/Zip: REDDING, CA 96001
 License: E017988
 Phone: 530-244-0202

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (REVISED 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Control
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-02-E
 (Page 1 of 3)

A. Mandatory Lighting Control Declaration Statements (indicate if the measure applies by checking yes or no below.)

YES	NO	Check all that apply:
X		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section §110.9(a).
X		Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section §130.4(b).
X		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(c).
X		Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)(3).
X		All outdoor incandescent luminaires rated over 1000 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor. All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
X		All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)(1).
X		All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)(2).
X		All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)(3).
X		For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)(4).
X		For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section §130.2(c)(5).
X		Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(d). Outdoor lighting controls shall comply with applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (REVISED 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Control
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-02-E
 (Page 2 of 3)

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

01	Standards Complying with (Check all that apply, or leave empty if Exempted)									10	15	
	02	03	04	05	06	07	08	09				
Location and Application of Luminaires Being Controlled	Type/Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units									Pass	Fail
CANOPY LIGHTING	TIMELOCK	1	X	X								

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (REVISED 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Control
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-02-E
 (Page 3 of 3)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
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RESPONSIBLE PERSON'S DECLARATION STATEMENT
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 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: TONY BOWSER
 Signature Date: 1/24/2020
 Address: 1730 SOUTH ST
 City/State/Zip: REDDING, CA 96001
 License: E017988
 Phone: 530-244-0202

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 CEC-NRCC-LTO-03-E (REVISED 01/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Power Allowances
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-03-E
 (Page 1 of 4)

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY
 1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E): 1
 2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.

PER APPLICATION from Section C-1	PER UNIT LENGTH [SALES FRONTAGE] from section C-2	PER HARDCAPE AREA [ORNAMENTAL LIGHTING] from Section C-3			
			+		= 2
			+		= 3

3. Sum Total Allowed Outdoor Lighting Wattage (add rows 1 and 2)

B. GENERAL HARDCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)	Linear Wattage Allowance (LWA)				Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
	1	2	3	4		
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (802 x 803)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (802 x 806)
AMPHITHEATER	15000	0.03	450		0.25	0
						IWA (Watts)
						804 + 807 + 808
						900
						Total
						900

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 CEC-NRCC-LTO-03-E (REVISED 01/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Power Allowances
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-03-E
 (Page 2 of 4)

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
 X The additional specific outdoor lighting power allowance shall be the smaller lighting power or the actual lighting power used.
 X Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE PER APPLICATION - Table 140.7-B
 X Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispensers; ATM Machine Lighting
 X If more than one luminaire type is used per location, use multiple rows for that location

Name of location for Which Allowance is Claimed	ALLOTTED WATTS			DESIGN WATTS						
	Number of Qualifying Locations	Wattage Allowance per Qualifying Location	Allofted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 X 08)	Allowed Watts (smaller of 04 or 09)	
			0						0	
			0						0	
Sum total allowance per application on this site:										

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B
 X If more than one luminaire type is used per location, use multiple rows for that location

Name of location for Which Allowance is Claimed	ALLOTTED WATTS			DESIGN WATTS						
	Linear Feet of Sales Frontage	Wattage Allowance per Linear Foot	Allofted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 X 08)	Allowed Watts (smaller of 04 or 09)	
			0						0	
			0						0	
Sum total allowance for sales frontage on the site:										

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 CEC-NRCC-LTO-03-E (REVISED 01/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Power Allowances
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-03-E
 (Page 3 of 4)

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDCAPE AREA (Ornamental Lighting) - Table 140.7-B
 - Allowance for the total site illuminated hardcape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
 - If more than one luminaire type is used per location, use multiple rows for that location

Name of Area for which ornamental allowance is claimed	ALLOTTED WATTS			DESIGN WATTS						
	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allofted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 X 08)	Allowed Watts (smaller of 04 or 09)	
Sum total allowance for ornamental lighting on the site:										

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B
 - Allowance for Building Facades, Outdoor Sales Lots, Vehicle Service Station Hardscape, Vehicle Service Station Canopies, Sales Canopies, Non-sales Canopies, Tunnels; Guard Stations; Student Pick-up/Drop-off zone; Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
 - If more than one luminaire type is used per location, use multiple rows for that location

Name of Location for Which Allowance is Claimed	ALLOTTED WATTS			DESIGN WATTS						
	Illuminated Area of Application	Wattage Allowance per Square Foot	Allofted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 X 08)	Allowed Watts (smaller of 04 or 09)	
Sum total allowance for specific area on the site:										

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 CEC-NRCC-LTO-03-E (REVISED 01/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Power Allowances
 Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
 Date Prepared: 1/24/2020

CALIFORNIA ENERGY COMMISSION
 NRCC-LTO-03-E
 (Page 4 of 4)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 1. I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: TONY BOWSER
 Signature Date: 1/24/2020
 Address: 1730 SOUTH ST
 City/State/Zip: REDDING, CA 96001
 Phone: 530-244-0202

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
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Responsible Designer Name: TONY BOWSER
 Signature Date: 1/24/2020
 Address: 1730 SOUTH ST
 City/State/Zip: REDDING, CA 96001
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LICENSE

CONSULTANT



CLIENT

FEATHER RIVER
 RECREATION AND
 PARK DISTRICT

PROJECT

RIVERBEND PARK
 RENOVATION PH 2
 AMPHITHEATER

SHEET TITLE

TITLE 24 OUTDOOR
 DOCUMENTS

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/10/20
2.	--	--
3.	--	--
4.	--	--
5.	--	--
6.	--	--
7.	--	--
8.	--	--

PLOT DATE: 02/21/20

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.31
 CONSULTANT PROJECT #: 2367.08

SHEET NUMBER



E3.1

SHEET 20 OF 21

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MELTONDESIGNGROUP, INC.

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LICENSE

CONSULTANT



CLIENT

FEATHER RIVER
RECREATION AND
PARK DISTRICT

PROJECT

RIVERBEND PARK
RENOVATION PH 2
AMPHITHEATER

SHEET TITLE

TITLE 24 ELECTRICAL
DOCUMENTS

DATES

NO.	DESCRIPTION	DATE
1.	BID	02/10/20
2.	--	--
3.	--	--
4.	--	--
5.	--	--
6.	--	--
7.	--	--
8.	--	--

PLOT DATE: 02/21/20

PROJECT NUMBERS

MELTON DESIGN GROUP: 2306.3.1
CONSULTANT PROJECT #: 2367.08

SHEET NUMBER

E3.2

SHEET 21 OF 21

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STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-01-E (REVISED 01/16)

NRCC-ELC-01-E
CALIFORNIA ENERGY COMMISSION (Page 1 of 4)

Project Name: RIVERBEND PARK RENOVATION PH 2 CORE AREA
Project Address: 50 MONTGOMERY ST. OROVILLE, CA 95965
Date Prepared: 1/24/2020

A. General Information

Climate Zone:	2	Conditioned Floor Area:	0
		Unconditioned Floor Area:	0
Building Type:	0	Nonresidential	0
	0	High-Rise Residential	0
	0	Hotels/Motels	0
	0	Relocatable Public Schools	0
	0	Conditioned Spaces	0
	0	Unconditioned Spaces	0
Phase of Construction:	XXX	New Construction	0
	0	Addition	0
	0	Alteration	0

In the table below, identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)
E0.1	ELECTRICAL SCHEDULES	E0.1	130.5(b)
E3.2	TITLE 24 ELECTRICAL DOCUMENTS	E3.2	130.5(c)

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-01-E (REVISED 01/16)

NRCC-ELC-01-E
CALIFORNIA ENERGY COMMISSION (Page 2 of 4)

Project Name: 50 MONTGOMERY ST. OROVILLE, CA 95965
Date Prepared: 1/24/2020

B. Separation of Electrical Circuits for Electrical Energy Monitoring

X The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution system is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.

X Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b).
Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.
Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System Information and Method of Compliance	Electrical Service Rating	Enforcement Agency
1	2	3	4
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	KVA	Check that the system complies
MSB	LOADS GROUPED BY TYPE.	997	

Field Inspector Notes:

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-LTI-01-E (REVISED 04/16)

NRCC-ELC-01-E
CALIFORNIA ENERGY COMMISSION (Page 3 of 4)

Project Name: 50 MONTGOMERY ST. OROVILLE, CA 95965
Date Prepared: 1/24/2020

C. Voltage Drop

		Enforcement Agency
		Check that the system complies
X	The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 3%.	
X	Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CEC-NRCC-ELC-02-E (REVISED 01/16)

NRCC-ELC-01-E
CALIFORNIA ENERGY COMMISSION (Page 4 of 4)

Project Name: 50 MONTGOMERY ST. OROVILLE, CA 95965
Date Prepared: 1/24/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: TONY BOWSER
Company: PACE ENGINEERING
Address: 1730 SOUTH ST
City/State/Zip: REDDING, CA 96001

Documentation Author Signature: [Signature]
Signature Date: 1/24/2020
CEA Certification Identification (if applicable): ATT-1702-00001
Phone: 530-244-0202

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Company: PACE ENGINEERING
Address: 1730 SOUTH ST
City/State/Zip: REDDING, CA 96001

Responsible Designer Signature: [Signature]
Date Signed: 1/24/2020
License: E017988
Phone: 530-244-0202

VOLTAGE DROP 1-PHASE LOAD: MSB TO XFMR A
FORMULA: (2)I(L)/1000/VOLTAGE = %V-DROP

VOLTAGE	480
RUN LENGTH	1300
CURRENT	75
RESISTANCE	0.066
V-DROP:	2.68%

VOLTAGE DROP 1-PHASE LOAD: XFMR A TO PNL A
FORMULA: (2)I(L)/1000/VOLTAGE = %V-DROP

VOLTAGE	120
RUN LENGTH	25
CURRENT	150
RESISTANCE	0.066
V-DROP:	0.41%

VOLTAGE DROP 1-PHASE LOAD: PNL A TO FURTHEST LOAD
FORMULA: (2)I(L)/1000/VOLTAGE = %V-DROP

VOLTAGE	120
RUN LENGTH	80
CURRENT	2
RESISTANCE	1.7
V-DROP:	0.45%

TOTAL V- DROP: 3.55%



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