

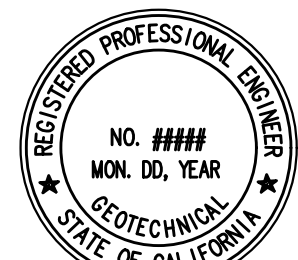
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THIS PLAN, THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF PALM DESERT, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS WHEN APPLICABLE.
- NO CONSTRUCTION IS AUTHORIZED WITHOUT THE APPROPRIATE PERMITS ISSUED BY THE CITY OF PALM DESERT.
- THE ENGINEER OF RECORD SHALL BE NOTIFIED WHEN CONSTRUCTION HAS COMMENCED.
- IN THE EVENT OF DISCREPANCIES AND/OR DEVIATIONS ARISING DURING CONSTRUCTION, THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ONSITE, OFFSITE AND ADJACENT UTILITIES, FACILITIES AND PROPERTIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE IMPROVEMENT PLANS.
- THE CONTRACTOR, AT NO EXPENSE TO THE CITY, SHALL PROVIDE ALL NECESSARY SAMPLES AND TESTS THAT THE CITY ENGINEER MAY REQUIRE TO ASSURE THAT QUALITY OF MATERIAL AND WORKMANSHIP ARE IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES, COMPLETED AND UNCOMPLETED, UNTIL ACCEPTED BY THE CITY.
- ALL SURVEY MONUMENTS WITHIN OR BOUNDING THE WORK LIMITS, WHETHER FOUND FROM RECORD OR BY INSPECTION, SHALL, PRIOR TO ANY CONSTRUCTION, BE LOCATED AND REFERENCED BY A LICENSED SURVEYOR OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. THE REFERENCED MONUMENTS DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE RESET IN ACCORDANCE WITH SECTION 8771 OF THE LAND SURVEYORS ACT AND CITY STANDARDS AND REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION IN PALM DESERT AT (760) 776-6450 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES. FOR THE LOCATION OF UNDERGROUND UTILITIES OR FOR EMERGENCY ASSISTANCE CALL:

WATER COACHELLA VALLEY WATER DISTRICT 760-398-2651
 SEWER COACHELLA VALLEY WATER DISTRICT 760-398-2651
 ELECTRIC SOUTHERN CALIFORNIA EDISON 760-202-4291
 GAS SOUTHERN CALIFORNIA GAS COMPANY 1-800-427-2200
 TELEPHONE VERIZON CALIFORNIA, INC. 1-800-483-1000
 CABLE TIME WARNER 760-340-1312
 DIG ALERT 811
 TRAFFIC SIGNAL 760-776-6364

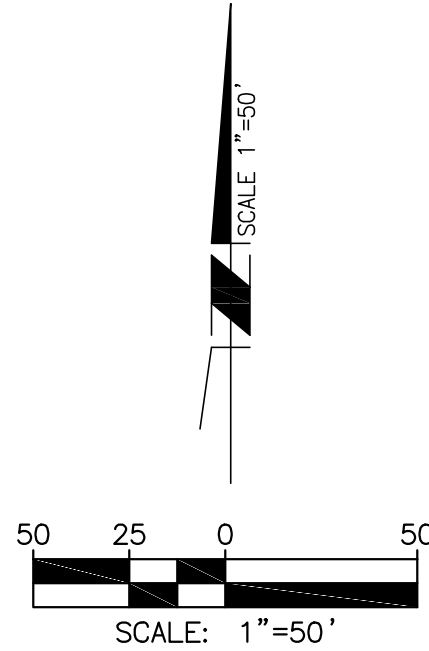
- THE ENGINEERING DIVISION DOES NOT ASSUME ANY RESPONSIBILITY FOR THE ACCURACY OF THE QUANTITIES SHOWN HEREON.
- THE STRUCTURAL SECTION SHALL BE AS PER THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, HIGHWAY DESIGN MANUAL TEST NO. 301-F FOR DETERMINATION BY THE R-VALUE METHOD.
- ASPHALTIC EMULSION (FOG SEAL) SHALL BE APPLIED NOT LESS THAN 14 DAYS FOLLOWING PLACEMENT OF THE ASPHALT SURFACING. FOR SEAL AND PAINT BINDER SHALL BE APPLIED AT A RATE OF 0.05 AND 0.03 GALLON PER SQUARE YARD RESPECTIVELY. ASPHALTIC EMULSION SHALL CONFORM TO SECTION 37, 39 AND 94 OF THE STATE STANDARD SPECIFICATIONS.
- THESE PLANS MAY BE SUBJECT TO REVIEW AND/OR REVISION BY THE CITY OF PALM DESERT ENGINEERING DIVISION, IF CONSTRUCTION HAS NOT COMMENCED WITHIN 12 MONTHS FROM THE DATE OF APPROVAL BY THE CITY ENGINEER.
- ALL P.C.C. AND A.C. REMOVALS SHALL BE OUTLINED TO NECESSARY WORKING LIMITS AND SAWCUT TO A MINIMUM DEPTH OF 2 INCHES PRIOR TO REMOVAL. ALL DEBRIS CREATED BY THE REMOVAL OPERATIONS SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN A MANNER AND LOCATION ACCEPTABLE TO ALL CONCERNED AGENCIES AND ORGANIZATIONS.
- ALL P.C.C. AND A.C. IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE CITY OF PALM DESERT.
- STREETS IN THE CONSTRUCTION AREA SHALL BE KEPT CLEAN AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING OF THE PROPOSED WORK AREA.
- NO PUBLIC STREET SHALL BE CLOSED TO TRAFFIC WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- NO TRENCHES SHALL REMAIN OPEN OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- FAILURE TO COMPLY WITH ANY OF THE ABOVE ITEMS SHALL BE SUFFICIENT CAUSE FOR THE CITY TO ARRANGE FOR NECESSARY WORK TO BE COMPLETED BY OTHERS. COSTS TO COMPLETE THE WORK BY OTHERS WILL BE CHARGED TO THE CONTRACTOR.
- EXISTING STORM DRAIN PIPES/ CULVERTS (WHETHER TO BE CONNECTED TO, EXTENDED, ADJUSTED, DRAINED TO, OR JUST IN THE PROJECT VICINITY) MUST BE REPAIRED, AND/OR CLEANED TO MAKE THEM FUNCTIONAL AND ACCEPTABLE AS DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
- ALL LANDSCAPING AND IRRIGATION THAT IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE APPROVAL OF THE CITY AND THE PROPERTY OWNER.
- CONTRACTOR MUST OBTAIN APPROVAL FOR ANY LANE CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE.
- CONTRACTOR SHALL CALL THE ENGINEERING DIVISION TO REQUEST INSPECTION A MINIMUM OF 24 HOURS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL KEEP THE INSPECTOR INFORMED OF PROGRESS OF THE WORK ON A DAILY BASIS. IMPROVEMENTS PLACED WITHOUT INSPECTION MAY BE REJECTED AND ARE SUBJECT TO REMOVAL.

SOILS ENGINEER'S CERTIFICATE

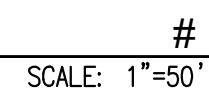
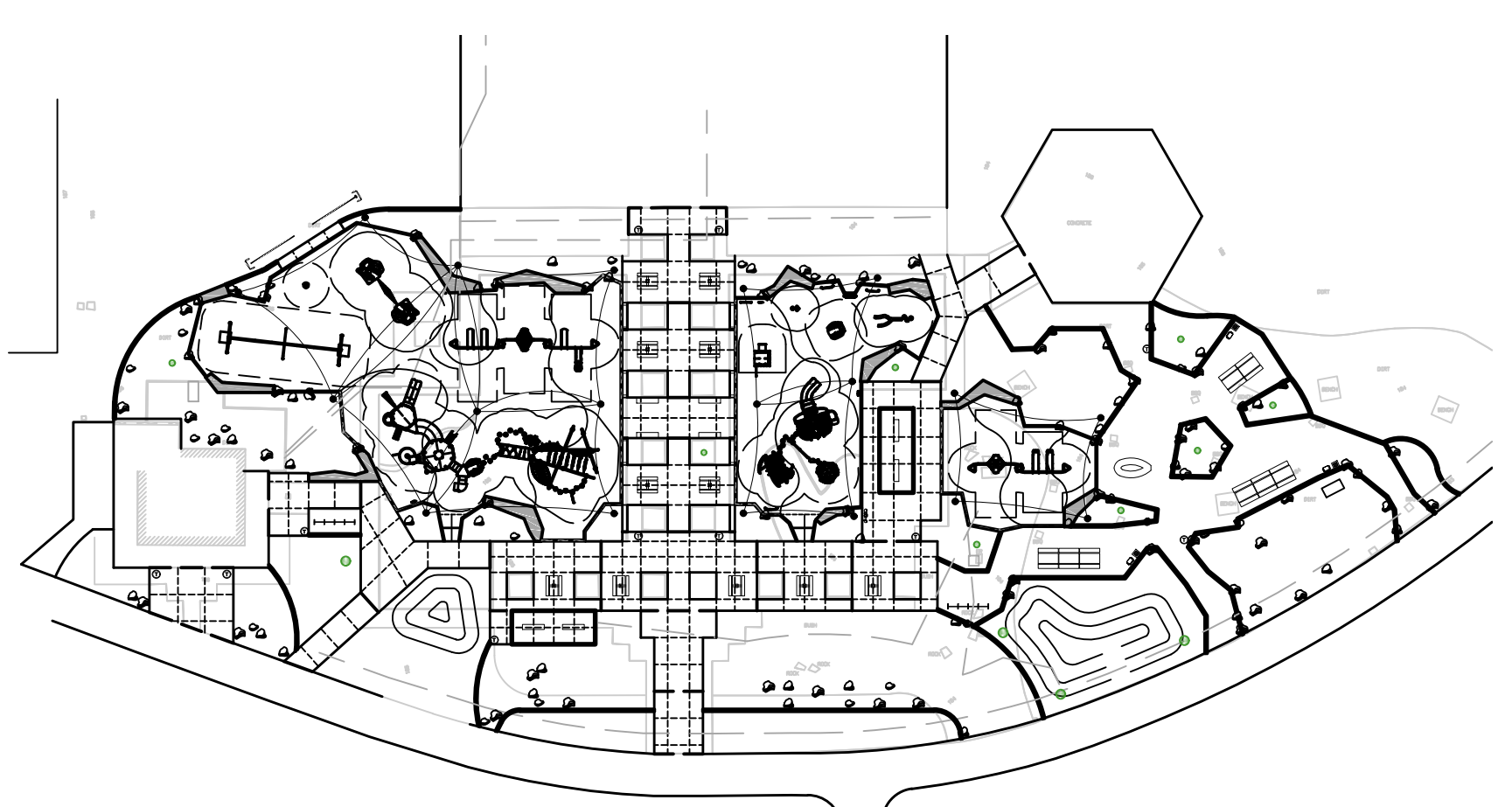
WE HAVE REVIEWED THIS GRADING PLAN AND FOUND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE RECOMMENDATIONS OF OUR SOILS REPORT FILE NO. ##### DATED ##/##/####



GEOTECHNICAL ENGINEER DATE
 EXP. DATE ##/##/####
 GEOTECHNICAL ENGINEER'S FIRM AND PHONE NUMBER
 GEOTECHNICAL ENGINEER'S ADDRESS



! " & ' & () * + , , & ') - . /) 0) , +



- ALL GRADING TO BE DONE IN ACCORDANCE WITH THE CITY OF PALM DESERT GRADING ORDINANCE.
- THIS PLAN IS FOR GRADING PURPOSES ONLY. ISSUANCE OF A GRADING PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS AND SIZES, PARKING LAYOUT, BUILDING LOCATION, WALL HEIGHTS AND LOCATIONS, OFFSITE DRAINAGE FACILITIES, OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION.
- A WET SIGNED LETTER OF CERTIFICATION FROM THE ENGINEER-OF-WORK STATING LOCATIONS OF FORMS ARE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLAN, AND A COMPACTION REPORT FROM A SOILS ENGINEER ON ALL FILL AREAS ARE REQUIRED PRIOR TO THE BUILDING PERMIT ISSUANCE.
- ALL WALLS SHOWN ON THESE PLANS SHALL BE APPROVED BY THE DEPARTMENT OF COMMUNITY DEVELOPMENT, ISSUED A SEPARATE PERMIT AND BE INSPECTED BY THE DEPARTMENT OF BUILDING AND SAFETY. THOSE WALLS THAT THE GRADING, PAD ELEVATIONS/FINISHED FLOOR ELEVATION AND HORIZONTAL SHOWN AS RETAINING WALLS SHALL BE CONSTRUCTED TO CITY OF PALM DESERT RETAINING WALL STANDARDS OR BE SUPPORTED BY ENGINEERING CALCULATIONS AND DETAILS.
- THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION HAS COMMENCED.
- IN THE EVENT OF DISCREPANCIES AND/OR DEVIATIONS ARISING DURING CONSTRUCTION, THE ENGINEER-OF-WORK SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ON-SITE, OFF-SITE AND ADJACENT UTILITIES, FACILITIES AND PROPERTIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE GRADING PLANS.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS (760) 776-6450 AT LEAST 24 HOURS PRIOR TO COMMENCING ANY WORK
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES. FOR THE LOCATION OF UNDERGROUND UTILITIES, OR FOR EMERGENCY ASSISTANCE CALL:
 WATER COACHELLA VALLEY WATER DISTRICT 760-398-2651
 SEWER COACHELLA VALLEY WATER DISTRICT 760-398-2651
 ELECTRIC SOUTHERN CALIFORNIA EDISON 760-202-4291
 GAS SOUTHERN CALIFORNIA GAS COMPANY 800-427-2200
 TELEPHONE VERIZON CALIFORNIA, INC. 800-483-1000
 CABLE SPECTRUM 760-340-1312
 DIG ALERT 811
- ALL PROPERTY CORNER MONUMENTS SHALL NOT BE DISTURBED BY THE GRADING OPERATION AND RELATED WORK. ANY MONUMENT WHICH THE CONTRACTOR ANTICIPATES DISTURBING SHALL BE LOCATED AND REFERENCED BY A LICENSED LAND SURVEYOR OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. ALL MONUMENTS DISTURBED OR REMOVED SHALL BE RESET BY A LICENSED SURVEYOR, OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING, AT THE CONTRACTOR'S EXPENSE.
- THESE PLANS MAY BE SUBJECT TO REVIEW AND/OR REVISION BY THE CITY OF PALM DESERT DEPARTMENT OF PUBLIC WORKS, IF CONSTRUCTION HAS NOT COMMENCED WITHIN 12 MONTHS FROM THE DATE OF APPROVAL BY PUBLIC WORKS.

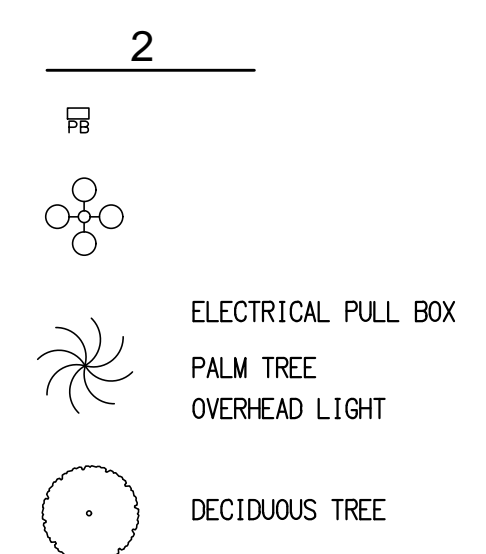
2 2 1
 BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 6 (2017.50) IN ACCORDANCE WITH THE XRS3.93559; CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING, OR EQUIVALENT STATIONS:
 REFERENCED CSRS STATIONS CONNECTED
 STATION LATITUDE LONGITUDE DESCRIPTION CSRS REFERENCE STATION
 FIN1 33° 36' 43.75399" 116° 27' 29.35492" CSRS REFERENCE STATION
 FIN2 33° 36' 43.72497" 116° 27' 27.38306" CSRS REFERENCE STATION
 PSAP 33° 49' 09.24438" 116° 29' 38.32784" CSRS REFERENCE STATION
 MAPPING ANGLE AND GRID FACTOR
 STATION NORTHING EASTING MAPPING ANGLE COMBINATION FACTOR ELLIPSOID HEIGHT
 803 2209976.28 6522066.949 -0-04-17.66 0.9999744514 78.21

ALL COORDINATES AND DISTANCES SHOWN, UNLESS OTHERWISE NOTED, ARE IN TERMS OF THE U.S. SURVEY FOOT. AS USED IN TABLES ABOVE, HEIGHT REFERS TO THE VERTICAL VALUE OF THE CALIFORNIA GEODETIC COORDINATE OR EQUIVALENT ELLIPSOID HEIGHT USED TO CALCULATE THE COMBINATION FACTOR. IN THE EVENT THAT THE CALCULATIONS ARE NOT PERFORMED AT A REAL POINT IN THE SURVEY, THERE MAY BE NO STATION OR ELEVATION TO LIST.
 DISTANCES SHOWN HEREON, ARE GROUND DISTANCES. TO APPROXIMATE CCS83 GRID DISTANCES MULTIPLY THE DISTANCES BY THE COMBINATION FACTOR PROVIDED HEREON.

ITEM	QUANTITY	UNIT
1 PROTECT IN PLACE ITEM AS NOTED ON PLAN	---	---
2 SAWCUT EXISTING CONCRETE TO LIMITS AS SHOWN ON PLAN	250	LF
3 REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK TO LIMITS SHOWN ON PLAN	10,200	SF
4 REMOVE AND DISPOSE OF EXISTING RUBBERIZED PLAYGROUND SURFACE TO LIMITS SHOWN ON PLAN	1,100	SF
5 REMOVE AND DISPOSE OF EXISTING WOOD CHIPS TO LIMITS SHOWN ON PLAN	8,500	SF
6 REMOVE AND DISPOSE OF EXISTING MISCELLANEOUS PAVEMENT TO LIMITS AS SHOWN ON PLAN	50	SF
	200	LF
7 PLAYGROUND EQUIPMENT AND ASSOCIATED CANOPIES/COVERS TO BE REMOVED AND DISPOSED OF OR SALVAGED/REINSTALLED POST CONSTRUCTION PER LANDSCAPE ARCHITECT'S PLANS AND OWNER'S DISCRETION	---	LS
8 PICNIC TABLES, GRILLS, AND ASSOCIATED EQUIPMENT IN THIS AREA TO BE REMOVED AND DISPOSED OF OR SALVAGED/REINSTALLED POST CONSTRUCTION PER LANDSCAPE ARCHITECT'S PLANS AND OWNER'S DISCRETION	---	LS
9 IRRIGATION CONTROL EQUIPMENT TO BE REMOVED/RELOCATED BY OTHERS	---	LS
10 EXISTING TREE TO BE TRANSPLANTED TO A NEW LOCATION PER THE DIRECTION OF THE CITY	3	EA

ITEM	QUANTITY	UNIT
1 PROTECT IN PLACE EXISTING SPECIFIED ITEM	---	---
2 CONSTRUCT CONCRETE PAVEMENT, STRUCTURAL SECTION AND SCORING PATTERN PER LANDSCAPE ARCHITECT'S PLANS.	8,500	SF
3 PLAYGROUND MATERIAL (MULCH, WOOD CHIPS, RUBBERIZED SURFACE, ETC.) PER LANDSCAPE ARCHITECT'S PLANS.	*	*
4 FINISHED SURFACE (DECOMPOSED GRANITE, LOOSE RUBBLE, TURF) PER LANDSCAPE ARCHITECT'S PLANS.	*	*
5 MATCH TO EXISTING PAVEMENT.	---	---
6 PLAY AREA CONCRETE CURB (6" WIDE) PER LANDSCAPE ARCHITECT'S PLANS.	*	*
7 SEAT WALL PER LANDSCAPE ARCHITECT'S PLANS.	*	*
8 PLAY EQUIPMENT PER LANDSCAPE ARCHITECT'S PLANS.	*	*
9 PICNIC TABLE PER LANDSCAPE ARCHITECT'S PLANS.	*	*
10 DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT'S PLANS.	*	*
11 BENCH PER LANDSCAPE ARCHITECT'S PLANS.	*	*
12 TRASH RECEPTACLE PER LANDSCAPE ARCHITECT'S PLANS.	*	*
13 BARBEQUE PER LANDSCAPE ARCHITECT'S PLANS.	*	*
14 BICYCLE RACK PER LANDSCAPE ARCHITECT'S PLANS.	*	*
15 SHADE SAILS AND POSTS PER LANDSCAPE ARCHITECT'S PLANS.	*	*
16 DECORATIVE BOULDERS PER LANDSCAPE ARCHITECT'S PLANS.	*	*
17 CONCRETE RAMP AT PLAY AREA PER DETAIL ON LANDSCAPE ARCHITECT'S PLANS.	*	*

* QUANTITIES FOR THESE ITEMS ARE LISTED ON LANDSCAPE ARCHITECT'S PLANS.



SHEET INDEX

NO.	DESCRIPTION
C1	COVER SHEET
C2	DEMOLITION PLAN
C3-C4	PRECISE GRADING PLAN
C5	HORIZONTAL CONTROL PLAN

PROJECT INFORMATION

PROJECT:
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 CITY OF PALM DESERT
 XX-XXX CIVIC CENTER DRIVE
 PALM DESERT, CA 92211

PROJECT DATA:

FEMA FLOOD DATA:

TOPOGRAPHIC AND BOUNDARY SURVEY:
 SURVEY PERFORMED BY: MICHAEL BAKER INT'L.
 DATE OF SURVEY: 02/25/2025

APN AND LEGAL DESCRIPTION:

CIVIL ENGINEER:
 CONTACT: WILLIAM POPE
 MICHAEL BAKER INT'L
 75-410 GERALD FORD DRIVE
 SUITE 100
 PALM DESERT, CA 92211
 PHONE: 760-346-7481
 DIRECT: 760-776-6131

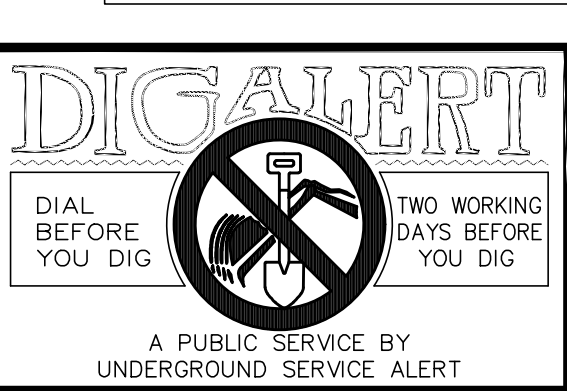
OWNER:
 CITY OF PALM DESERT
 73510 FRED WARING DRIVE
 PALM DESERT, CA 92260
 PHONE: 760-346-0611

SOILS ENGINEER:

LANDSCAPE ARCHITECT:
 CONTACT: ALEX KOUTZOUKIS
 IN-SITE LANDSCAPE ARCHITECTURE,
 INC.
 2907 SHELTER ISLAND DRIVE
 SUITE 105-417
 SAN DIEGO, CA 92106
 PHONE: 619-795-7603

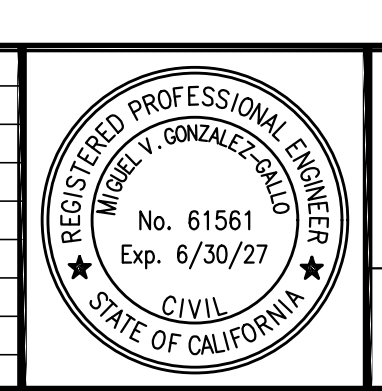
STRUCTURAL ENGINEER:

REFERENCE DATA:
 ASSESSOR'S MAP BK 694 PG.06, RIV.CO; PM 24255, PMB 206/94-99,
 COC PM 24255 DOC#2005-0734669; R/S 5/11, 17/60; PMW #04-20;
 DOC#2004-0887571; R/S 40/69; G.O.Es DOC#2004-0868119,
 #2011-0338029, #2013-0423943, #25862 TO SCE; GRANT DEED
 DOC#2011-0348249; RES.#2014-91 DOC#2014-0470272;
 RECIP.EASMT.AGREEE. DOC#2005-0198254



BENCHMARK ELEVATIONS AS SHOWN HEREON ARE IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED LOCALLY UPON THE FOLLOWING BENCHMARKS AS PUBLISHED BY THE CITY OF PALM DESERT:
 NAME ELEVATION (FT.) YEAR LEVELED
 141 185.440 MAY 2022
 DESCRIPTION: EASTERLY END OF PARKING STALLS AT CITY OF PALM DESERT PARKING LOT, ON TOP OF THE SOUTHERLY END OF A CATCH BASIN, FLUSH.

ENGINEER			CITY		
MARK	BY	DATE	REVISIONS	APPR.	DATE



Michael Baker INTERNATIONAL
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 MIGUEL V. GONZALEZ-GALLO, RCE NO. 61561
 DATE: EXP.

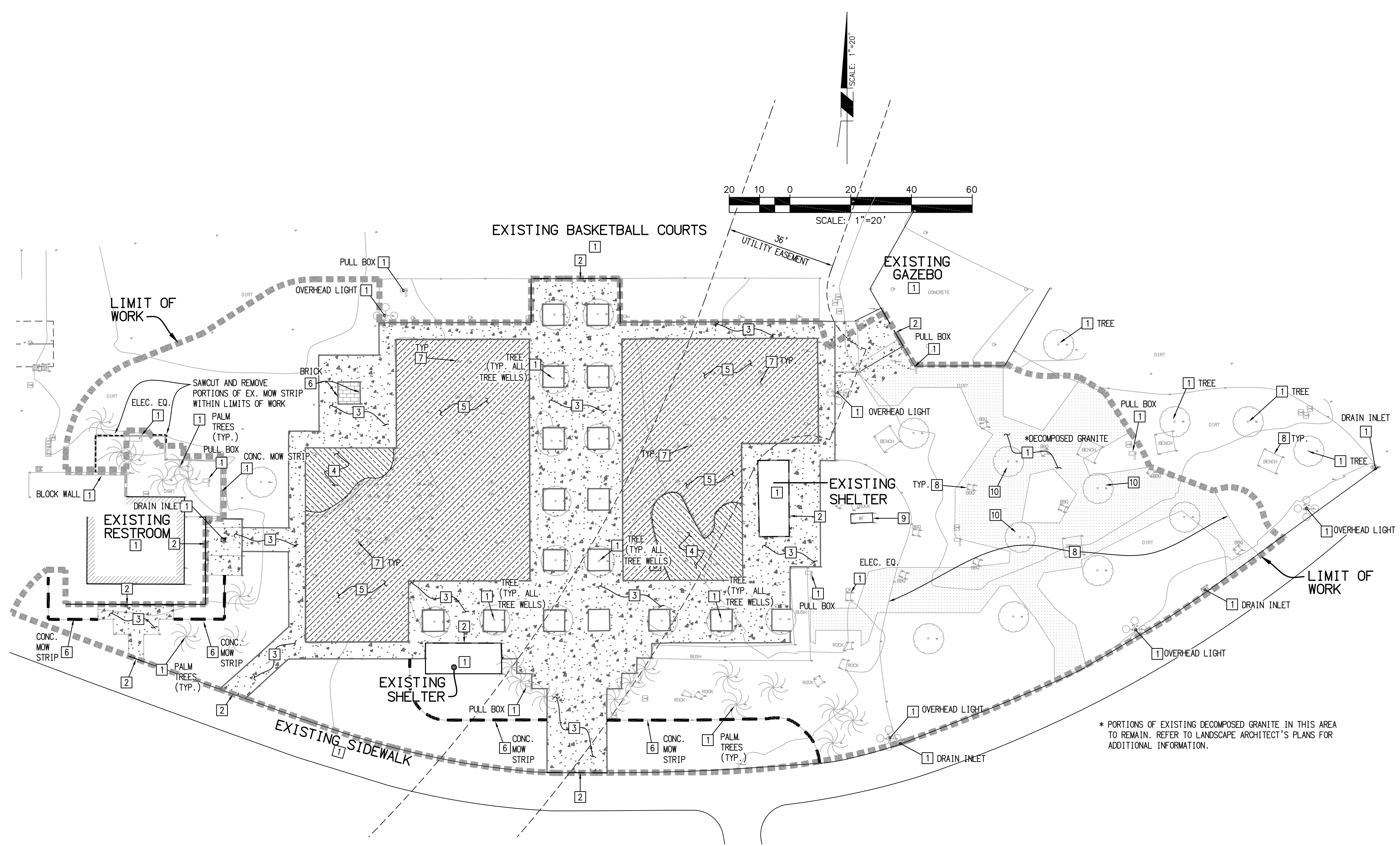
CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 DATE: DATE

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE

COVER SHEET
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8BN
 CITY FILE NUMBER
 ## ## ##

WID#:# X XXXXXXXXX
 OF
 CITY FILE NUMBER
 ## ## ##

"NOT FOR CONSTRUCTION" REVISED: 07/01/2025 H:\DATA\205576\CADD\LAND\DLV\GRADING\PRECISE\205576-PG-001.DWG MILLER, JERRY A. 7/1/2025 2:23 PM



* PORTIONS OF EXISTING DECOMPOSED GRANITE IN THIS AREA TO REMAIN. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR ADDITIONAL INFORMATION.

- 1] PROTECT IN PLACE ITEM AS NOTED ON PLAN
- 2] SAWCUT EXISTING CONCRETE TO LIMITS AS SHOWN ON PLAN
- 3] REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK TO LIMITS SHOWN ON PLAN
- 4] REMOVE AND DISPOSE OF EXISTING RUBBERIZED PLAYGROUND SURFACE TO LIMITS SHOWN ON PLAN
- 5] REMOVE AND DISPOSE OF EXISTING WOOD CHIPS TO LIMITS SHOWN ON PLAN
- 6] REMOVE AND DISPOSE OF EXISTING MISCELLANEOUS PAVEMENT TO LIMITS AS SHOWN ON PLAN
- 7] PLAYGROUND EQUIPMENT AND ASSOCIATED CANOPIES/COVERS TO BE REMOVED AND DISPOSED OF OR SALVAGED/REINSTALLED POST CONSTRUCTION PER LANDSCAPE ARCHITECT'S PLANS AND OWNER'S DISCRETION
- 8] PICNIC TABLES, GRILLS, AND ASSOCIATED EQUIPMENT IN THIS AREA TO BE REMOVED AND DISPOSED OF OR SALVAGED/REINSTALLED POST CONSTRUCTION PER LANDSCAPE ARCHITECT'S PLANS AND OWNER'S DISCRETION
- 9] IRRIGATION CONTROL EQUIPMENT TO BE REMOVED/RELOCATED BY OTHERS
- 10] EXISTING TREE TO BE TRANSPLANTED TO A NEW LOCATION PER THE DIRECTION OF THE CITY

--- LIMIT OF WORK

NOTE:
 REFER TO LANDSCAPE ARCHITECT'S PLANS FOR INSTRUCTIONS ON SALVAGING, RELOCATION, OR DISPOSING OF ALL ITEMS WITHIN WORK AREA, INCLUDING BUT NOT LIMITED TO TREES, VEGETATION, DECORATIVE BOULDERS, IRRIGATION LINES AND CONTROLS, SIGNS, TRASH RECEPTACLES, BARBECUES, BENCHES AND TABLES, WATER FOUNTAINS, AND BICYCLE RACKS.



SEE SHEET 1 FOR BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



Michael Baker INTERNATIONAL

PREPARED UNDER THE DIRECT SUPERVISION OF:
 MIGUEL V. GONZALEZ-GALLO, RCE NO. 61561

CITY OF PALM DESERT

APPROVED BY:
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

DEMOLITION PLAN

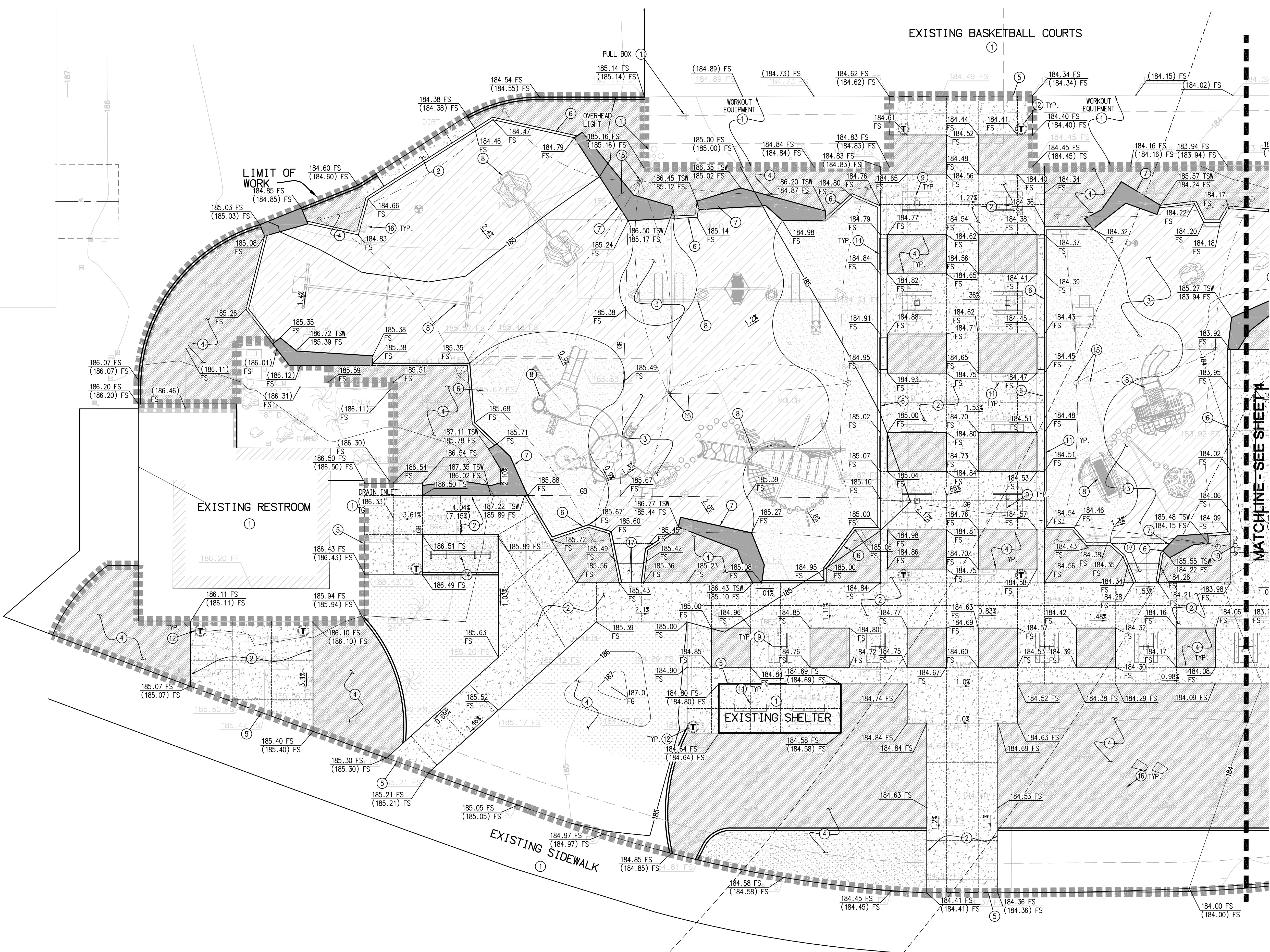
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S80M)

WID#: X XXXXXXXX

OF _____

CITY FILE NUMBER
 ## ###

"NOT FOR CONSTRUCTION" REVISED: 07/01/2025 H:\PDATA\205576\CADD\LAND\DLV\GRADING\PRECISE\205576-PG-003.DWG MILLER, JERRY A 7/1/2025 10:27 AM



- | | |
|----|--|
| 1 | PROTECT IN PLACE EXISTING SPECIFIED ITEM |
| 2 | CONSTRUCT CONCRETE PAVEMENT, STRUCTURAL SECTION AND SCORING PATTERN PER LANDSCAPE ARCHITECT'S PLANS. |
| 3 | PLAYGROUND MATERIAL (MULCH, WOOD CHIPS, RUBBERIZED SURFACE, ETC.) PER LANDSCAPE ARCHITECT'S PLANS. |
| 4 | FINISHED SURFACE (DECOMPOSED GRANITE, LOOSE RUBBLE, TURF) PER LANDSCAPE ARCHITECT'S PLANS. |
| 5 | MATCH TO EXISTING PAVEMENT. |
| 6 | PLAY AREA CONCRETE CURB (6" WIDE) PER LANDSCAPE ARCHITECT'S PLANS. |
| 7 | SEAT WALL PER LANDSCAPE ARCHITECT'S PLANS. |
| 8 | PLAY EQUIPMENT PER LANDSCAPE ARCHITECT'S PLANS. |
| 9 | PICNIC TABLE PER LANDSCAPE ARCHITECT'S PLANS. |
| 10 | DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT'S PLANS. |
| 11 | BENCH PER LANDSCAPE ARCHITECT'S PLANS. |
| 12 | TRASH RECEPTACLE PER LANDSCAPE ARCHITECT'S PLANS. |
| 14 | BICYCLE RACK PER LANDSCAPE ARCHITECT'S PLANS. |
| 15 | SHADE SAILS AND POSTS PER LANDSCAPE ARCHITECT'S PLANS. |
| 16 | DECORATIVE BOULDERS PER LANDSCAPE ARCHITECT'S PLANS. |
| 17 | CONCRETE RAMP AT PLAY AREA PER DETAIL ON LANDSCAPE ARCHITECT'S PLANS. |



SEE SHEET 1 FOR BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY	
MARK	BY	DATE				APPR.	DATE



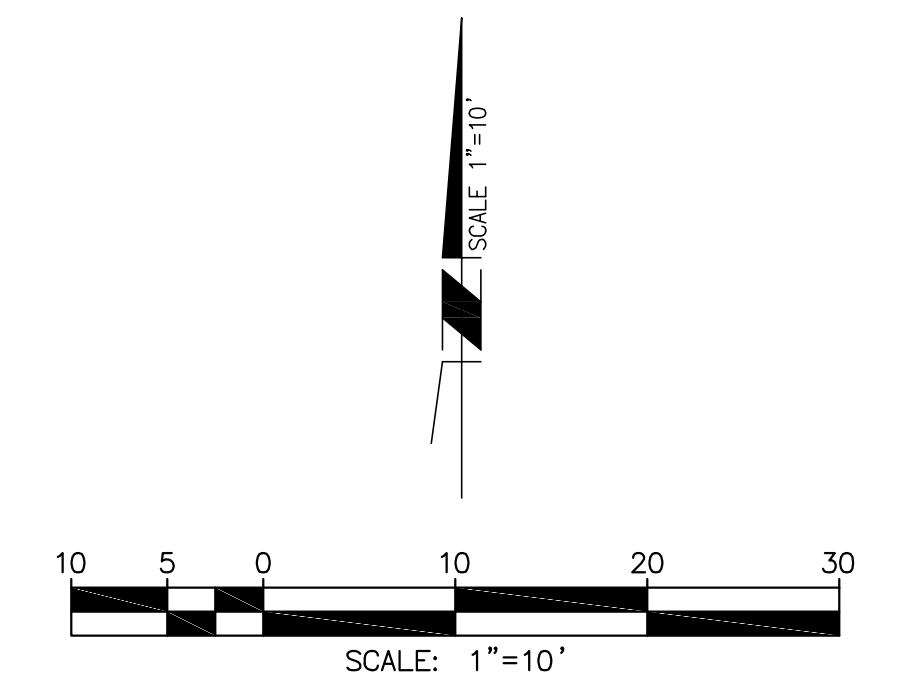
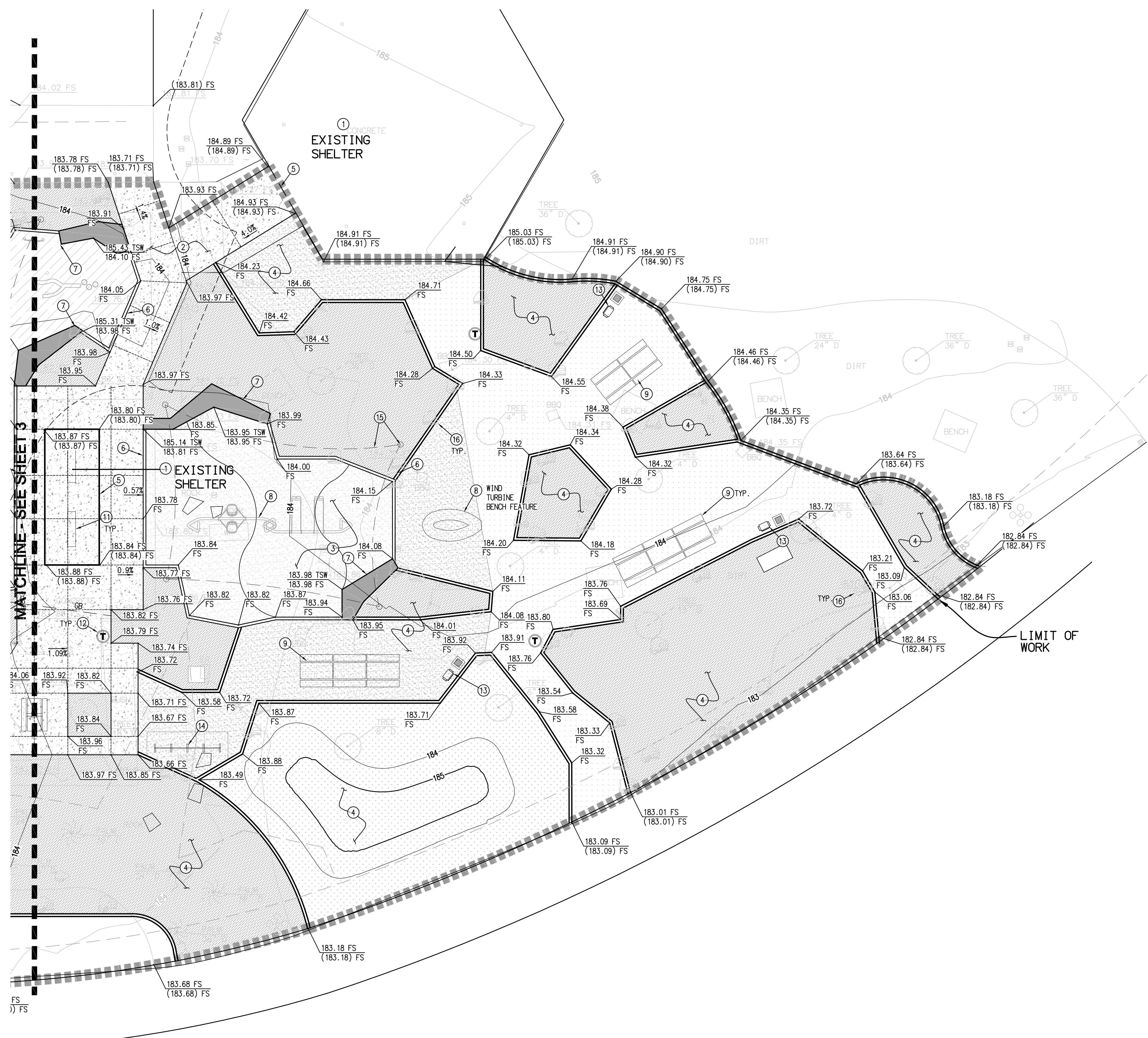
Michael Baker INTERNATIONAL
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 MIGUEL V. GONZALEZ-GALLO, RCE NO. 61561

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE

PRECISE GRADING PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S89M)

WID#: X XXXXXXXX
 OF _____
 CITY FILE NUMBER
 ## ###



" "	
1	PROTECT IN PLACE EXISTING SPECIFIED ITEM
2	CONSTRUCT CONCRETE PAVEMENT, STRUCTURAL SECTION AND SCORING PATTERN PER LANDSCAPE ARCHITECT'S PLANS.
3	PLAYGROUND MATERIAL (MULCH, WOOD CHIPS, RUBBERIZED SURFACE, ETC.) PER LANDSCAPE ARCHITECT'S PLANS.
4	FINISHED SURFACE (DECOMPOSED GRANITE, LOOSE RUBBLE, TURF) PER LANDSCAPE ARCHITECT'S PLANS.
5	MATCH TO EXISTING PAVEMENT.
6	PLAY AREA CONCRETE CURB (6" WIDE) PER LANDSCAPE ARCHITECT'S PLANS.
7	SEAT WALL PER LANDSCAPE ARCHITECT'S PLANS.
8	PLAY EQUIPMENT PER LANDSCAPE ARCHITECT'S PLANS.
9	PICNIC TABLE PER LANDSCAPE ARCHITECT'S PLANS.
11	BENCH PER LANDSCAPE ARCHITECT'S PLANS.
12	TRASH RECEPTACLE PER LANDSCAPE ARCHITECT'S PLANS.
13	BARBEQUE PER LANDSCAPE ARCHITECT'S PLANS.
14	BICYCLE RACK PER LANDSCAPE ARCHITECT'S PLANS.
15	SHADE SAILS AND POSTS PER LANDSCAPE ARCHITECT'S PLANS.
16	DECORATIVE BOULDERS PER LANDSCAPE ARCHITECT'S PLANS.

MATCHLINE - SEE SHEET 3

LIMIT OF WORK



SEE SHEET 1 FOR BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



Michael Baker INTERNATIONAL

PREPARED UNDER THE DIRECT SUPERVISION OF:
MIGUEL V. GONZALEZ-GALLO, RCE NO. 61561

DATE: _____ EXP: _____

CITY OF PALM DESERT

APPROVED BY:
MICHAEL S. ROWE, PE
CITY ENGINEER
R.C.E. 56069, EXP. 12/31/24

DATE: _____

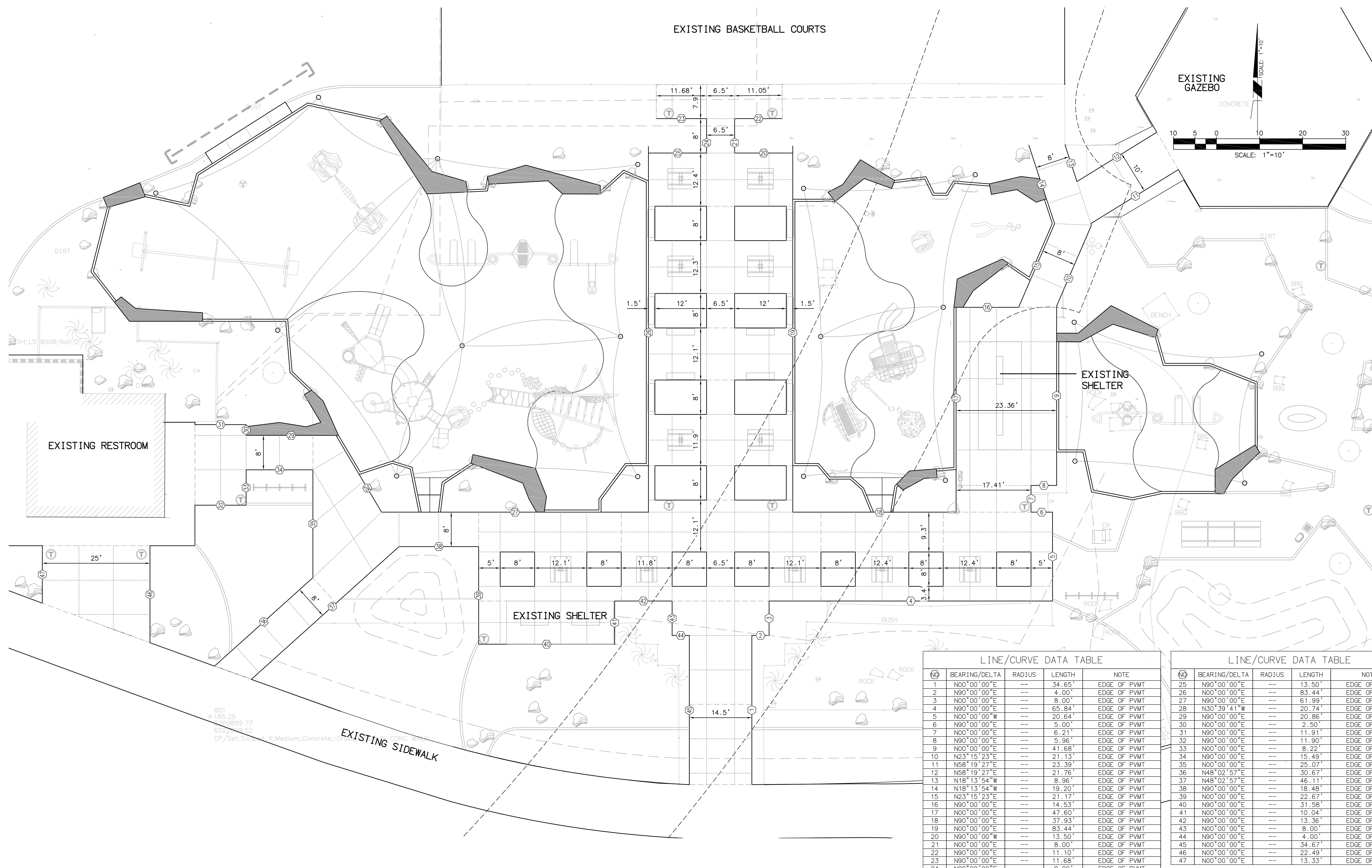
REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:	
CIVIL	_____
TRAFFIC	_____
LANDSCAPE	_____

PRECISE GRADING PLAN

LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S80M)

WID#:	X XXXXXXXXX
OF	_____
CITY FILE NUMBER	### ##



LINE/CURVE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N00°00'00"E	---	34.65'	EDGE OF PVMT
2	N90°00'00"E	---	4.00'	EDGE OF PVMT
3	N00°00'00"E	---	8.00'	EDGE OF PVMT
4	N90°00'00"E	---	65.84'	EDGE OF PVMT
5	N00°00'00"W	---	20.64'	EDGE OF PVMT
6	N90°00'00"E	---	5.00'	EDGE OF PVMT
7	N00°00'00"E	---	6.21'	EDGE OF PVMT
8	N90°00'00"E	---	5.96'	EDGE OF PVMT
9	N00°00'00"E	---	41.68'	EDGE OF PVMT
10	N23°15'23"E	---	21.13'	EDGE OF PVMT
11	N58°19'27"E	---	23.39'	EDGE OF PVMT
12	N58°19'27"E	---	21.76'	EDGE OF PVMT
13	N18°13'54"W	---	6.96'	EDGE OF PVMT
14	N18°13'54"W	---	19.20'	EDGE OF PVMT
15	N23°15'23"E	---	21.17'	EDGE OF PVMT
16	N90°00'00"E	---	14.53'	EDGE OF PVMT
17	N00°00'00"E	---	47.60'	EDGE OF PVMT
18	N90°00'00"E	---	37.93'	EDGE OF PVMT
19	N00°00'00"E	---	83.44'	EDGE OF PVMT
20	N90°00'00"W	---	13.50'	EDGE OF PVMT
21	N00°00'00"E	---	8.00'	EDGE OF PVMT
22	N90°00'00"E	---	11.10'	EDGE OF PVMT
23	N90°00'00"E	---	11.68'	EDGE OF PVMT
24	N00°00'00"E	---	8.00'	EDGE OF PVMT

LINE/CURVE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
25	N90°00'00"E	---	13.50'	EDGE OF PVMT
26	N00°00'00"E	---	83.44'	EDGE OF PVMT
27	N90°00'00"E	---	61.99'	EDGE OF PVMT
28	N30°39'41"W	---	20.74'	EDGE OF PVMT
29	N90°00'00"E	---	20.86'	EDGE OF PVMT
30	N00°00'00"E	---	2.50'	EDGE OF PVMT
31	N90°00'00"E	---	11.91'	EDGE OF PVMT
32	N90°00'00"E	---	11.90'	EDGE OF PVMT
33	N00°00'00"E	---	8.22'	EDGE OF PVMT
34	N90°00'00"E	---	15.49'	EDGE OF PVMT
35	N00°00'00"E	---	25.07'	EDGE OF PVMT
36	N48°02'57"E	---	30.67'	EDGE OF PVMT
37	N48°02'57"E	---	46.11'	EDGE OF PVMT
38	N90°00'00"E	---	18.48'	EDGE OF PVMT
39	N00°00'00"E	---	22.67'	EDGE OF PVMT
40	N90°00'00"E	---	31.58'	EDGE OF PVMT
41	N00°00'00"E	---	10.04'	EDGE OF PVMT
42	N90°00'00"E	---	13.36'	EDGE OF PVMT
43	N90°00'00"E	---	4.00'	EDGE OF PVMT
44	N90°00'00"E	---	34.67'	EDGE OF PVMT
45	N00°00'00"E	---	22.49'	EDGE OF PVMT
46	N00°00'00"E	---	13.33'	EDGE OF PVMT
47	N00°00'00"E	---	13.33'	EDGE OF PVMT

DIGALERT
 DIAL BEFORE YOU DIG
 TWO WORKING DAYS BEFORE YOU DIG
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEE SHEET 1 FOR BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	

REGISTERED PROFESSIONAL ENGINEER
 MIGUEL V. GONZALEZ-GALLO
 No. 61561
 Exp. 6/30/27
 CIVIL
 STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

PREPARED UNDER THE DIRECT SUPERVISION OF:
 MIGUEL V. GONZALEZ-GALLO, RCE NO. 61561

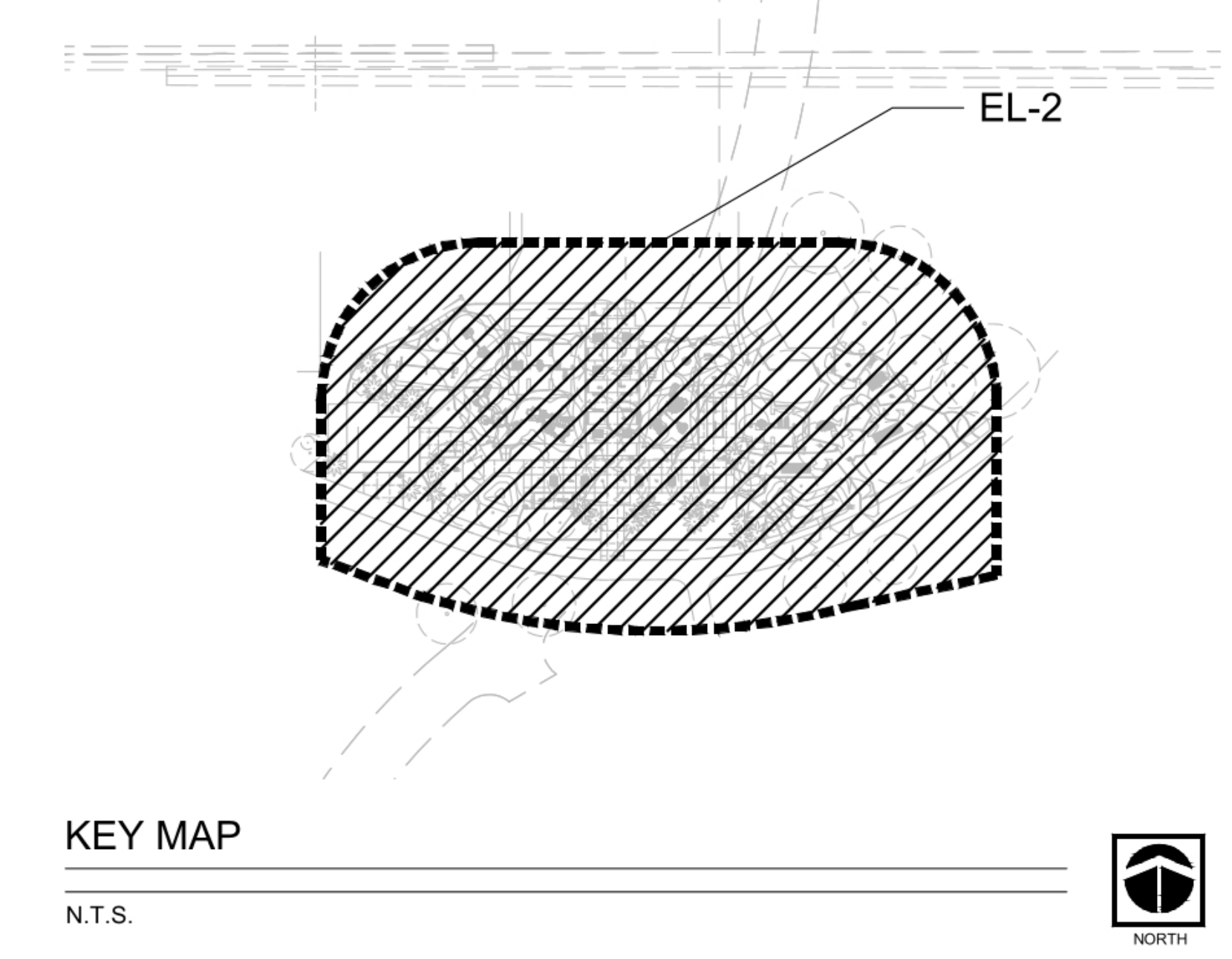
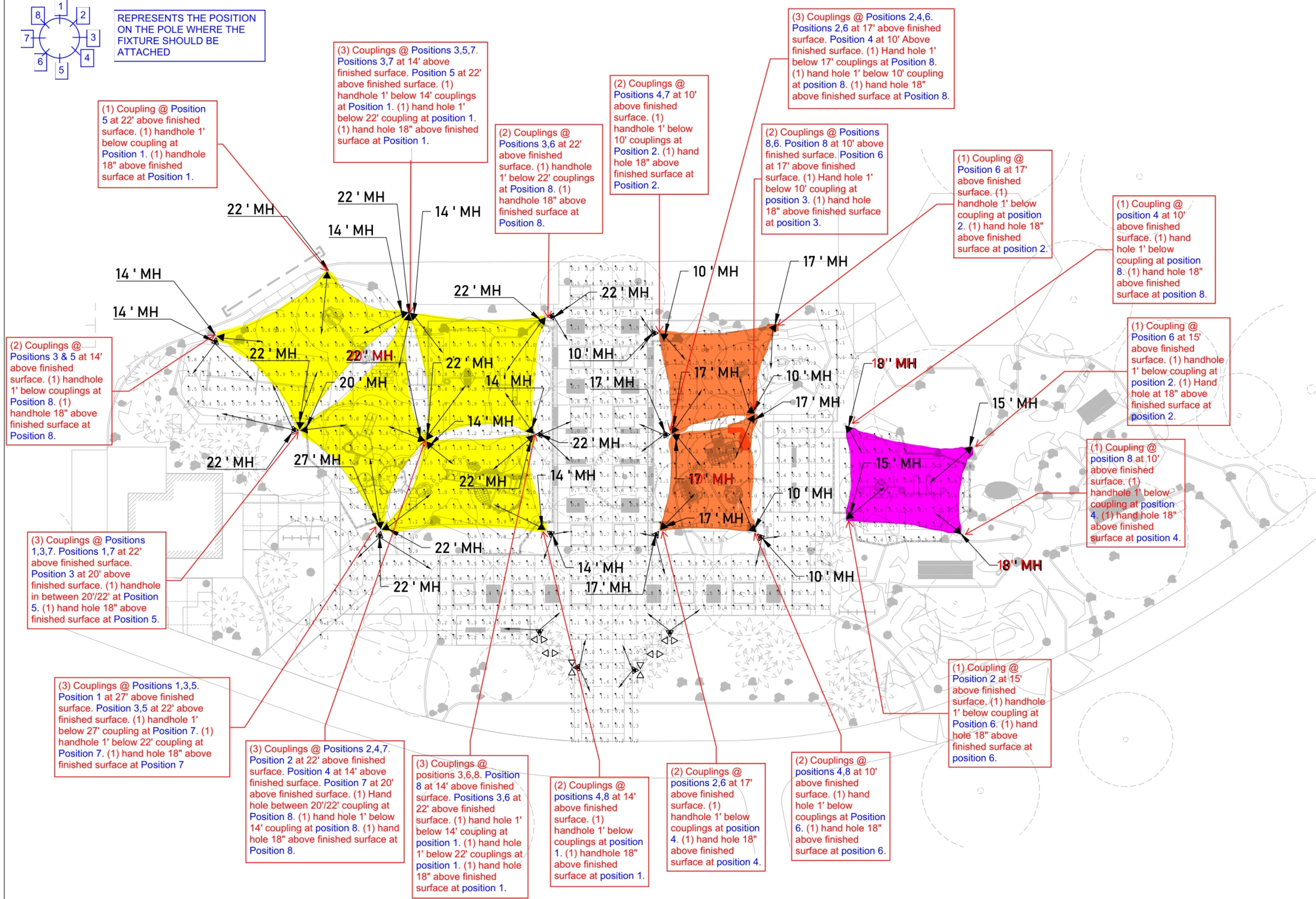
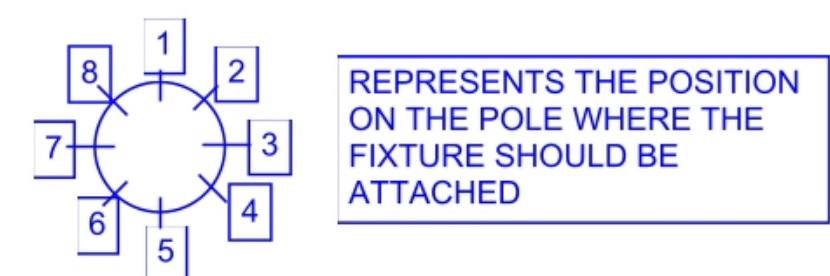
CITY OF PALM DESERT

APPROVED BY:
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE

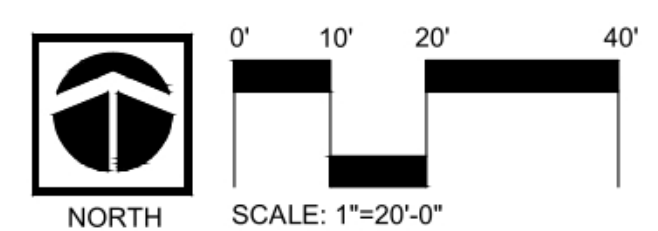
! ! ! !
 #!
HORIZONTAL CONTROL PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17,
 T5S, R6E, S89M

OF _____
 CITY FILE NUMBER
\$\$\$ \$\$\$



- All hand holes to be 6"x4" (if column diameter allows)
- All columns to have a hand hole at 18" above finished surface.
- All Couplings to be Female 1/2" NPT.
- All Couplings to protrude from each respective column by 1/2"
- All Couplings to be 3' below each respective fabric connection

PHOTOMETRIC STUDY



DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE CALL 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	

VCL
Visual Concepts Lighting
PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE DATE:
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE:

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PHOTOMETRIC STUDY
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET **EL-3**
OF SHEETS **5**
CITY FILE NUMBER
PG XX-XXXX

GENERAL NOTES

DESIGN LOADS

BUILDING CODE CBC 2022 (BASED ON IBC 2021)
 LIVE LOADS 5 PSF
 SNOW LOAD 5 PSF
 WIND LOADS 130 MPH
 3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 130 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 101 MPH ACCORDING TO ASCE 7-16 AND IBC 2021 EQ 16-17.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 50,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 50,000 PSI YIELD / 56,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS

FABRIC SPECIFICATION

1.- FABRIC SHALL BE COMMERCIAL HEAVY 430FR, A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND LOCK-STITCH KNITTED.

2.- FABRIC SPECIFICATIONS:

-TENSILE STRENGTH WARP 282 LBS WEFT 362 LBS
 -TEAR STRENGTH WARP 55.8 LBS WEFT 48.7 LBS
 -BURST STRENGTH 376 LBS
 -LIFE EXPECTANCY A MINIMUM OF 10-YEARS CONTINUOUS EXPOSURE TO THE SUN

3.- FIRE TEST ON FABRIC: ASTM E84 19B CLASS A. SPREAD OF FLAME INDEX: 8. SMOKE DEVELOPED INDEX: 7

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 6x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 20,500 LBS (1/2" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

SHOP DRAWING / SUBMITTAL REVIEW

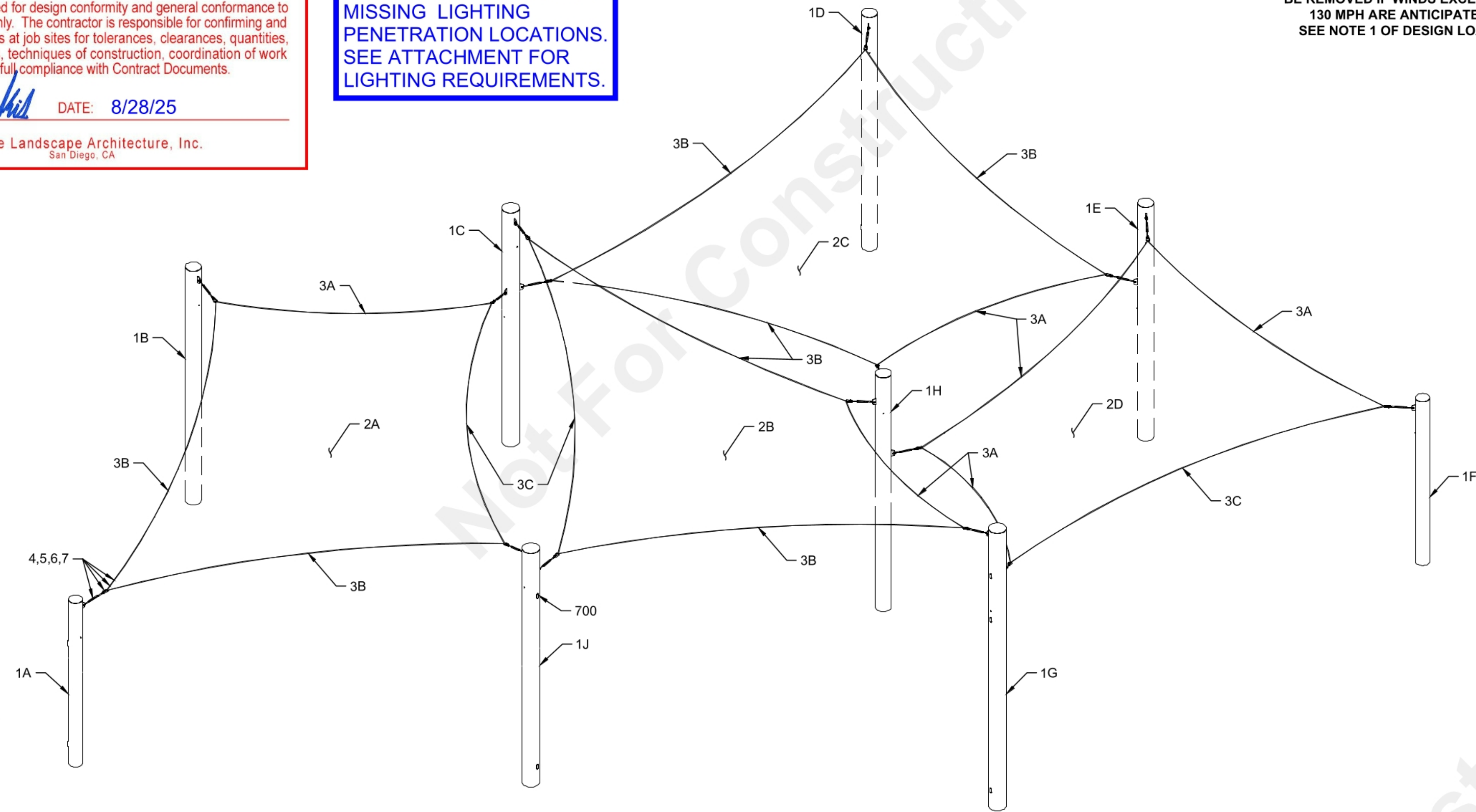
- APPROVED
- APPROVED WITH CHANGES NOTED
- REVISE AND RESUBMIT
- REJECTED

Submittal was reviewed for design conformity and general conformance to contract documents only. The contractor is responsible for confirming and correlating dimensions at job sites for tolerances, clearances, quantities, fabrication processes, techniques of construction, coordination of work with other trades, and full compliance with Contract Documents.

By: *W. K. K...* DATE: 8/28/25

In-Site Landscape Architecture, Inc.
 San Diego, CA

THESE DRAWINGS ARE ACCEPTABLE FOR BIDDING PURPOSES BUT NOT FOR FINAL CONSTRUCTION. THE DRAWINGS ARE STILL MISSING LIGHTING PENETRATION LOCATIONS. SEE ATTACHMENT FOR LIGHTING REQUIREMENTS.



ISOMETRIC VIEW

LIST OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
STEEL AND BOLTS				
1A	1	COLUMN	HSS Ø16.00 x 0.375	N/A (ELECTRICAL)
1B	1	COLUMN	HSS Ø18.00 x 0.375	N/A (ELECTRICAL)
1C	1	COLUMN	HSS Ø20.00 x 0.500	N/A (ELECTRICAL)
1D	1	COLUMN	HSS Ø18.00 x 0.375	N/A (ELECTRICAL)
1E	1	COLUMN	HSS Ø18.00 x 0.375	N/A (ELECTRICAL)
1F	1	COLUMN	HSS Ø16.00 x 0.375	N/A (ELECTRICAL)
1G	1	COLUMN	HSS Ø20.00 x 0.500	N/A (ELECTRICAL)
1H	1	COLUMN	HSS Ø18.00 x 0.375	N/A (ELECTRICAL)
1J	1	COLUMN	HSS Ø20.00 x 0.500	N/A (ELECTRICAL)
700	22	HANDHOLE COVER KIT	6"x 4" H.H COVER KIT	HHCOV KIT-64
800	48	ANCHOR ROD SET 1-1/2" x 36"	F1554 GR55 (GALVANIZED)	309774
801	92	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55 (GALVANIZED)	307615
FABRIC AND HARDWARE				
2A	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 1111 SQF, WEIGHT: 67 LBS
2B	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 979 SQF, WEIGHT: 59 LBS
2C	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 1112 SQF, WEIGHT: 67 LBS
2D	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 894 SQF, WEIGHT: 54 LBS
3A	6	45 FT OF Ø1/2" STEEL CABLE	GALVANIZED CABLE	307605
3B	7	55 FT OF Ø1/2" STEEL CABLE	GALVANIZED CABLE	307605
3C	3	65 FT OF Ø1/2" STEEL CABLE	GALVANIZED CABLE	307605
4	32	Ø1/2" THIMBLE	GALVANIZED	308062
5	96	Ø1/2" CABLE CLAMP	GALVANIZED	307627
6	16	TURNBUCKLE (JAW-JAW)	7/8" x 12" (GALVANIZED)	308122
7	16	3/4" QUICK LINK	ZINC PLATED	308205

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	6530	N/A
SEE PAGE 2000				

NOTICE

FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF IS ANTICIPATED

FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 130 MPH ARE ANTICIPATED, SEE NOTE 1 OF DESIGN LOADS

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 2580 ESTERS BLVD., SUITE 100
 DFW AIRPORT, TX 75261
 800-966-5005

CERTIFICATIONS:
 IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
 PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
 CA**
 PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
 FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

FULL CUSTOM	DESCRIPTION	RM	MHB	ENG
		MSM	DRW	CHK
		DATE	08/12/25	
NC	REV			

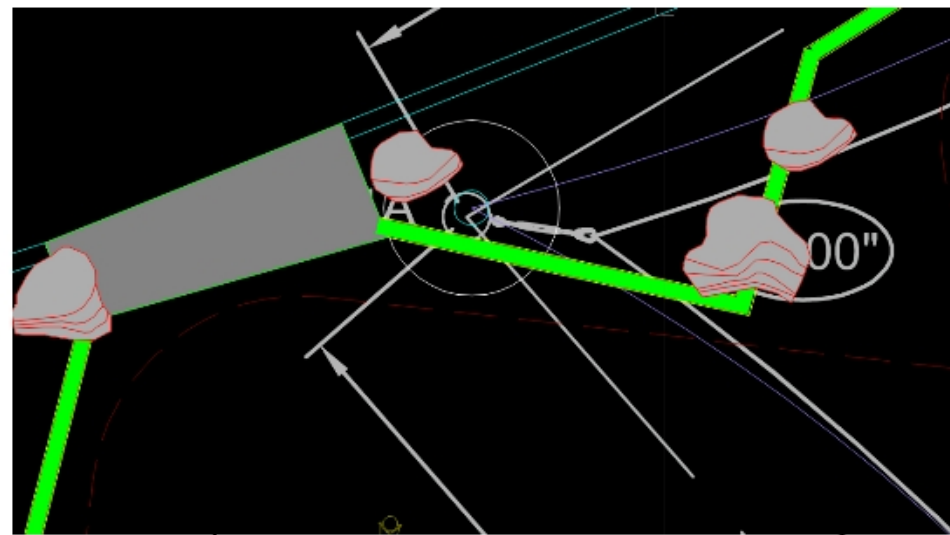
Eng. By : MHB 08/12/25
 Design By : MSM 08/12/25
 Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
NOTES/ LOM

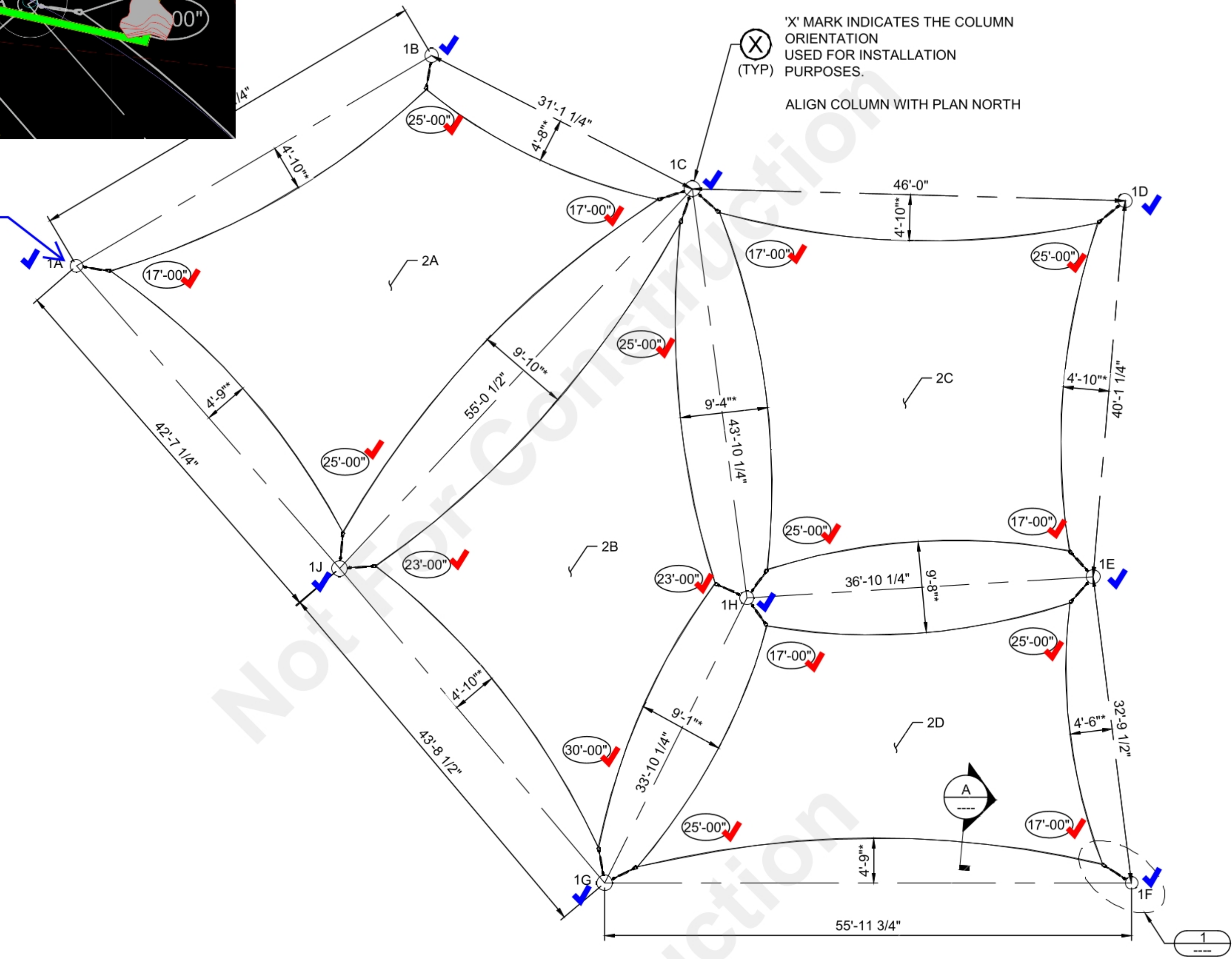
DWG. **96049-1.0**

PAGE **1000**

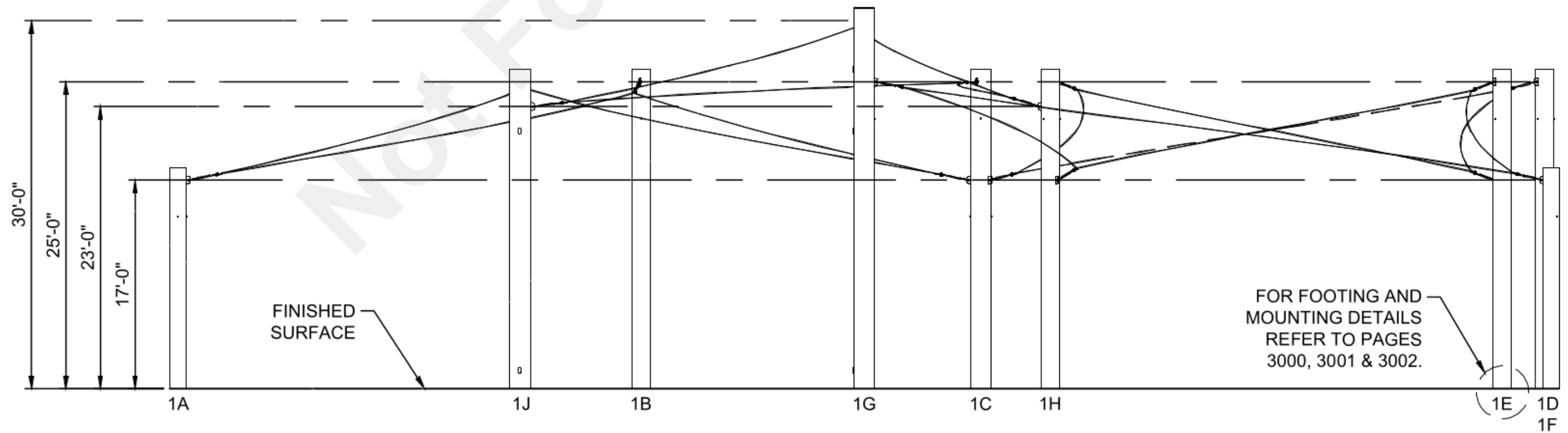
REV. **NC**



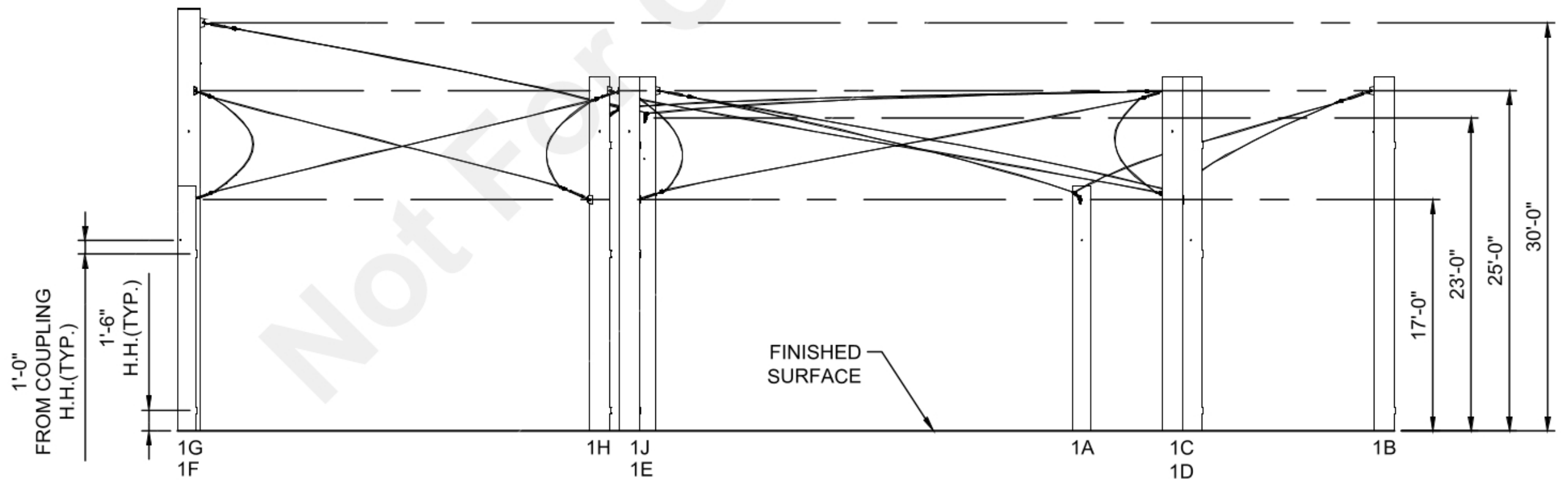
PLAY CURB TO BE FIELD ADJUSTED AT THIS LOCATION DUE TO POST DESIGN



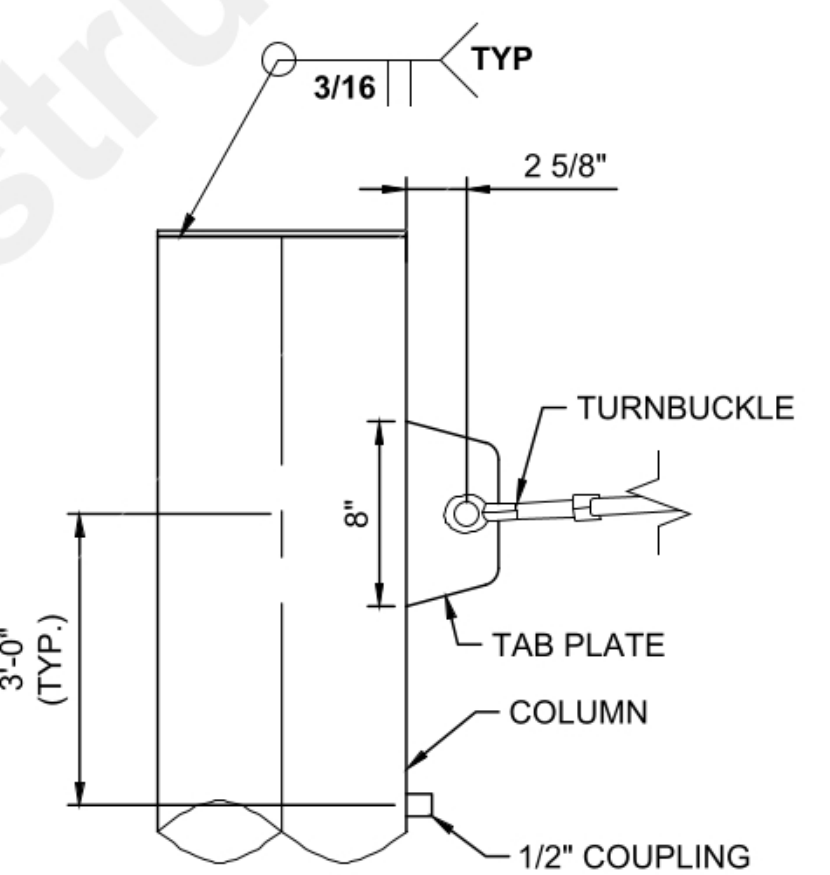
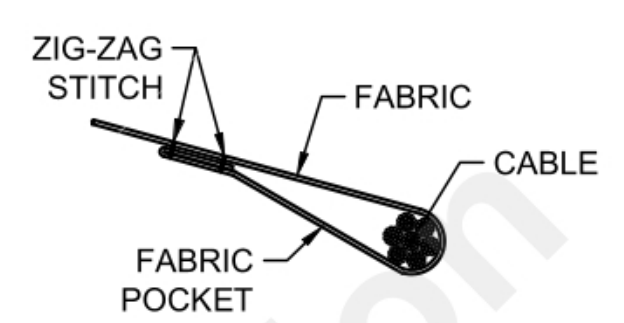
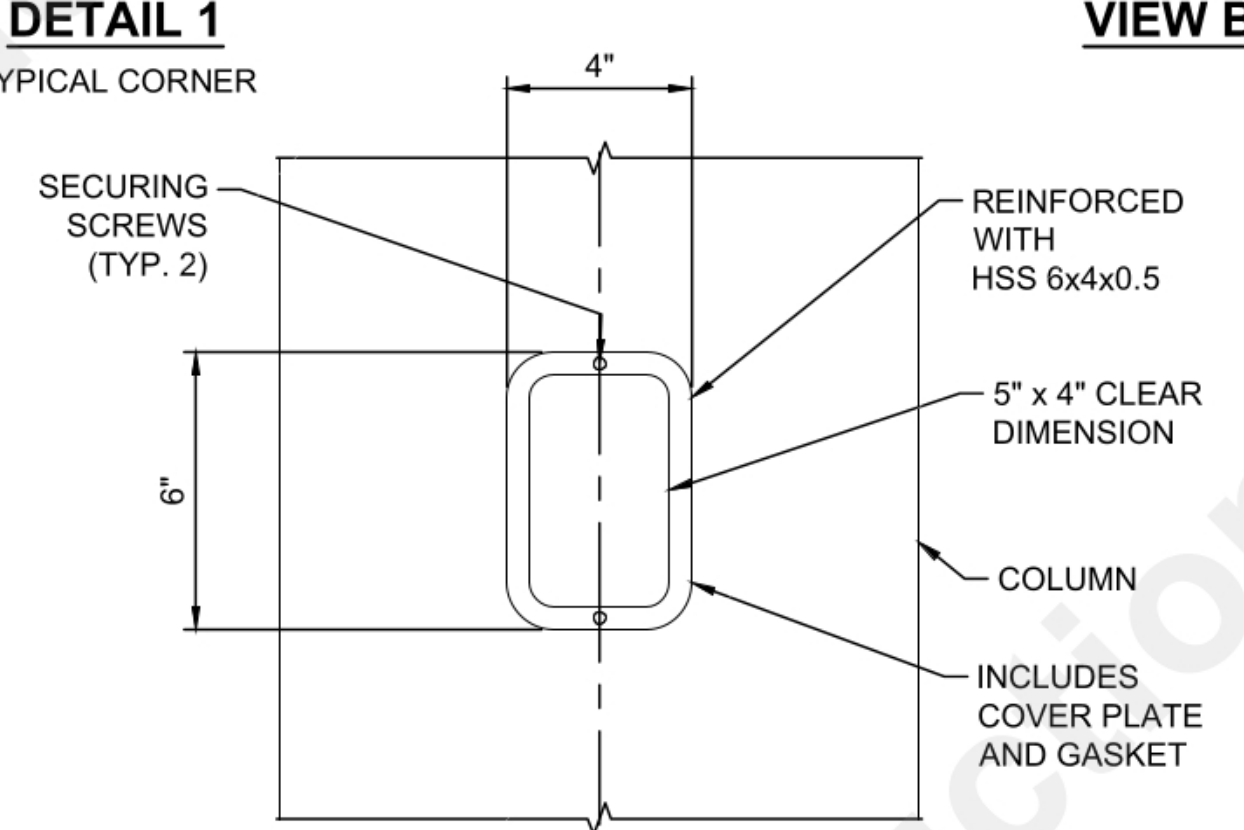
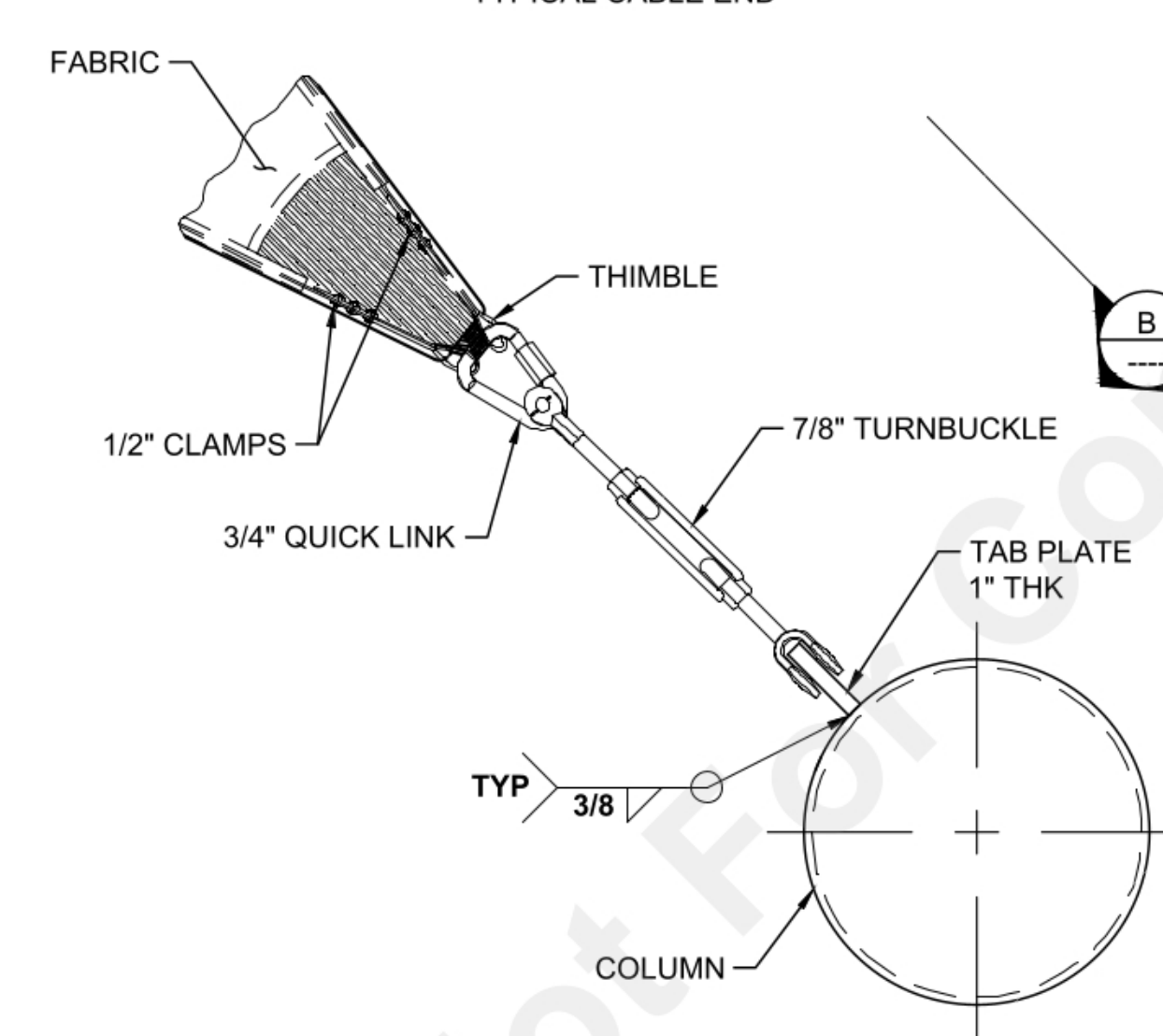
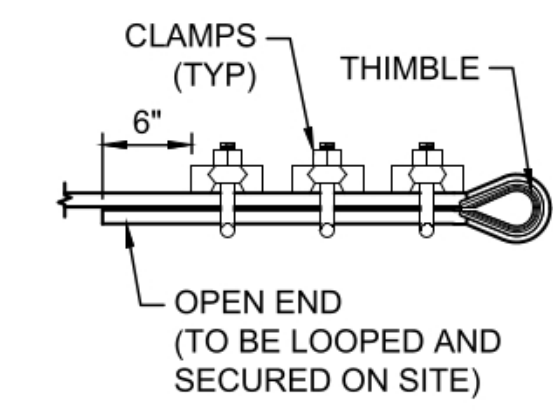
TOP VIEW



FRONT ELEVATION



SIDE ELEVATION



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
PARK-SUPPLY (PALM DESERT)**
LOCATION:
**PALM DESERT
CA**
PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED
DRAWING SIZE: **B**

REV	DATE	DRW	CHK	ENG	MHB	RM	MSM	08/12/25	DATE	DRW	CHK	ENG	FULL CUSTOM		
													DESCRIPTION	NC	
NC															

Eng. By : MHB 08/12/25
Design By : MSM 08/12/25
Approved By : RM-HH 08/12/25

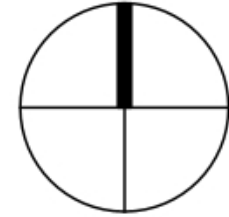
DRAWING DESCRIPTION:
VIEWS AND DETAILS

DWG. 96049-1.0

PAGE 2000

REV. NC

PLAN NORTH



FOR TRUE NORTH
SEE CUSTOMER'S
SITE PLAN

THESE PLANS AND SPECIFICATIONS ARE THE
PROPERTY OF USA SHADE AND FABRIC
STRUCTURES AND SHALL NOT BE
REPRODUCED WITHOUT THEIR WRITTEN
PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
CIVIC CENTER
PARK-SUPPLY (PALM DESERT)

LOCATION:
PALM DESERT
CA
PROJECT NUMBER:
96049

STRUCTURE TYPE:
JOINED 4-PT.SAILS
FULL CUSTOM

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

RM MHB
MSM
08/12/25
DATE
DRW / CHK / ENG

FULL CUSTOM
DESCRIPTION

NC
REV

Eng. By : MHB 08/12/25

Design By : MSM 08/12/25

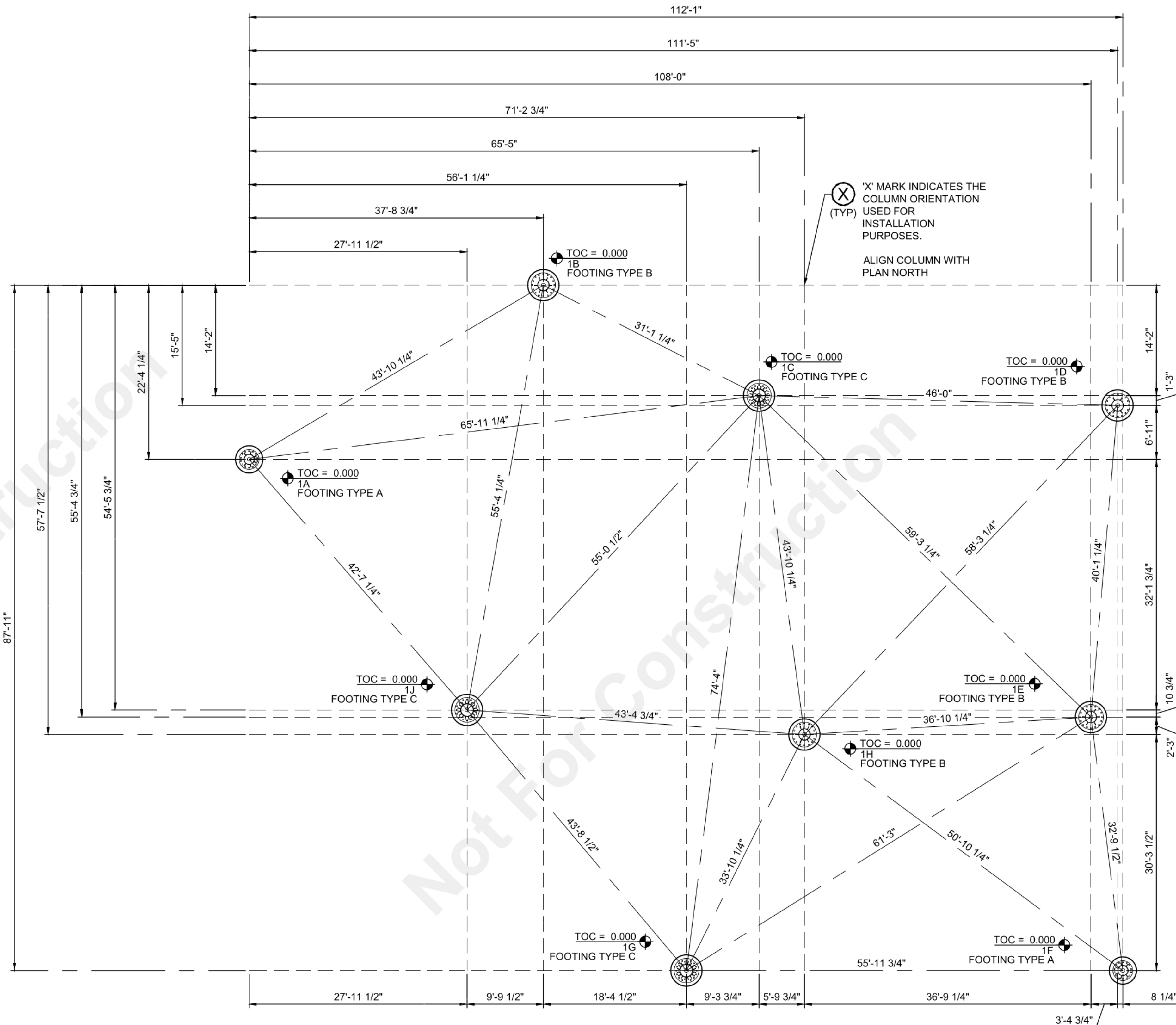
Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
FOUNDATION

DWG. 96049-1.0

PAGE 3000

REV. NC



FOUNDATION LOCATION LAYOUT

(ELEVATIONS ARE IN FEET)
(FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS)



Product Marketed by:
GALE PACIFIC LTD
145 WOODLANDS DRIVE
BRAESIDE, AUSTRALIA 3195, Issue Date : 04/09/2025
Expiration Date : 06/30/2026

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division
Reviewed and Approved By Patricia Setter
Program Coordinator
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit uatcalfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

REINFORCED CONCRETE NOTES

1.- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:

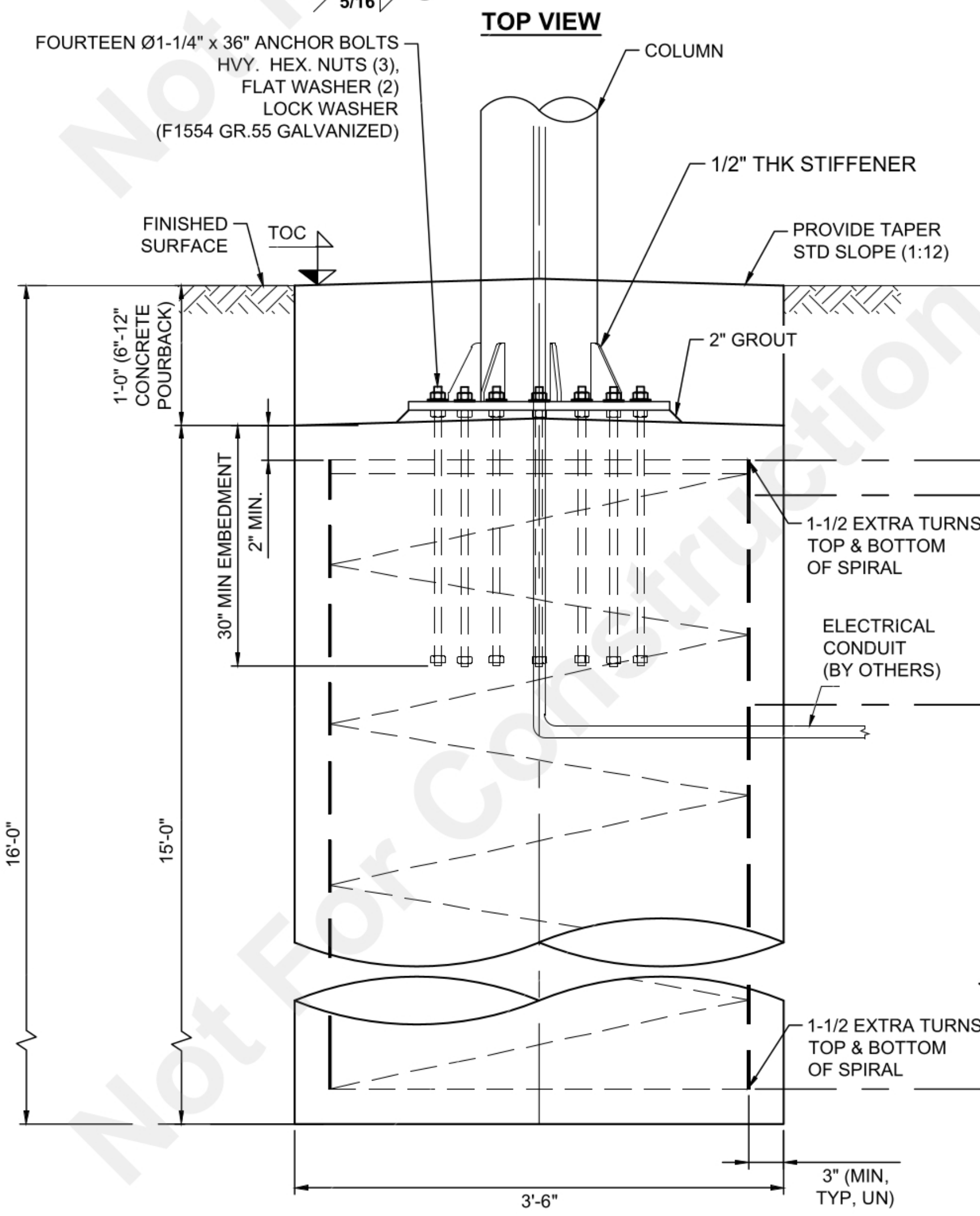
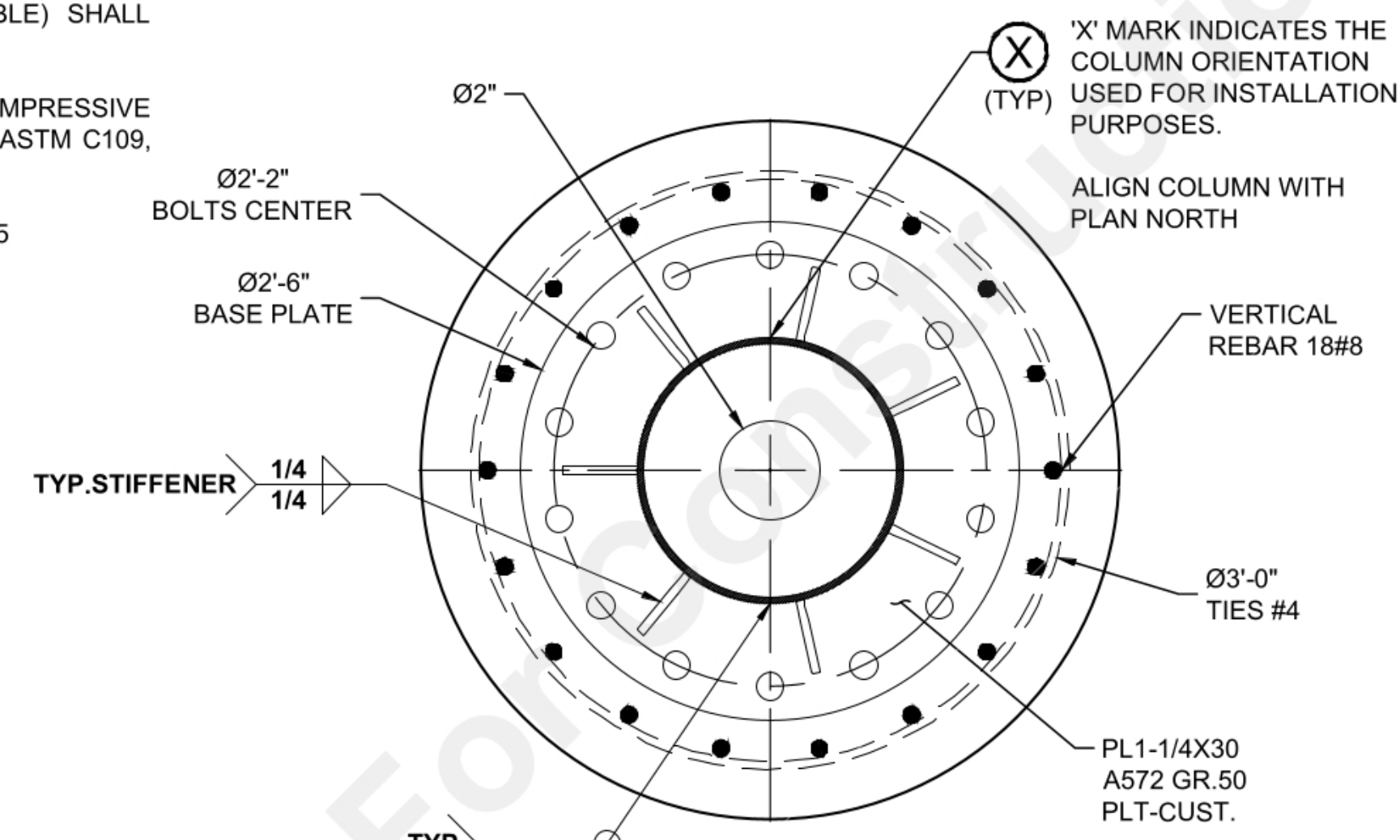
- 28 DAY STRENGTH: 2500 PSI
- SLUMP: 3-5
- PORTLAND CEMENT SHALL CONFORM TO C-150
- AGGREGATE SHALL CONFORM TO ASTM C-33

2.- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.

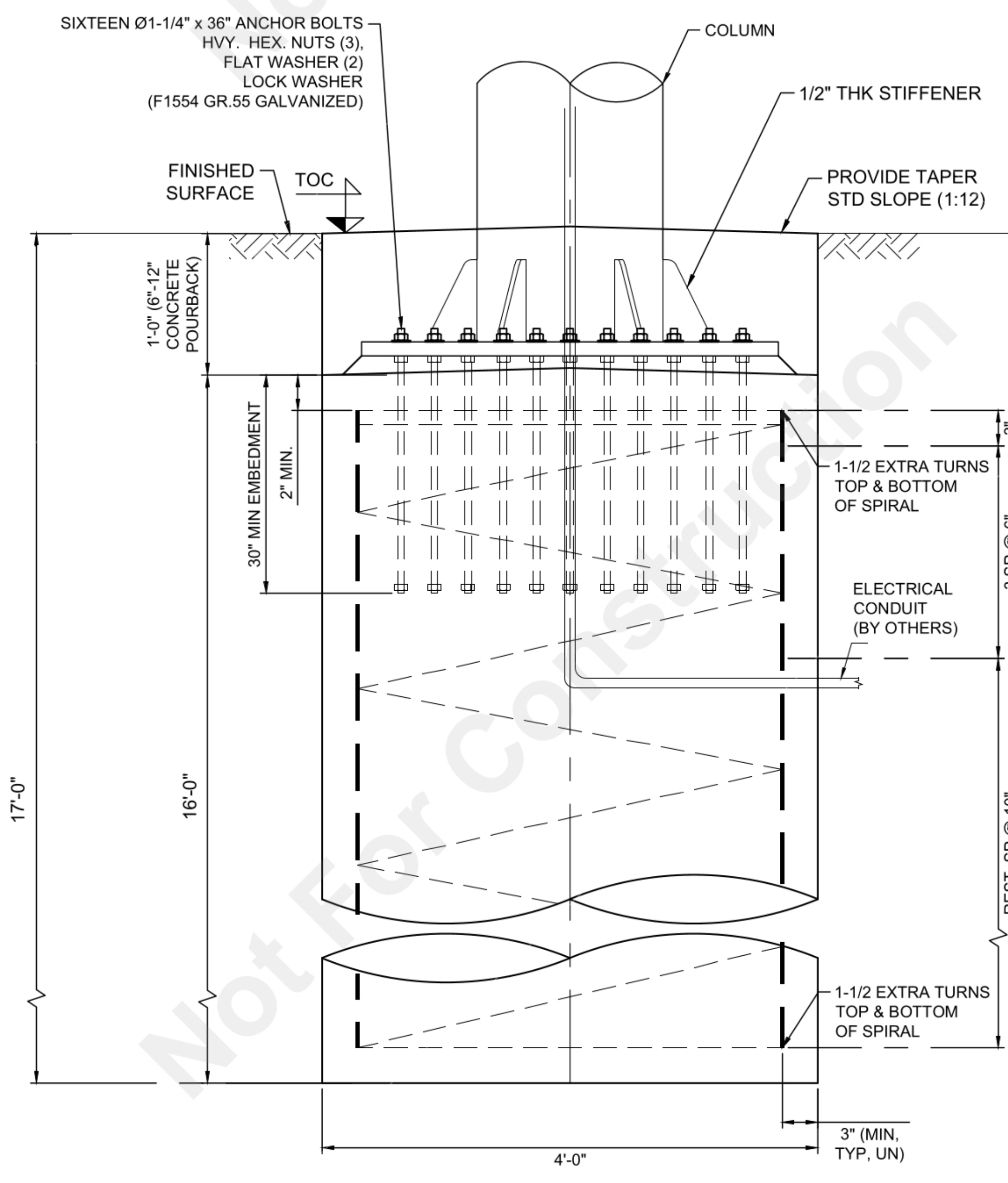
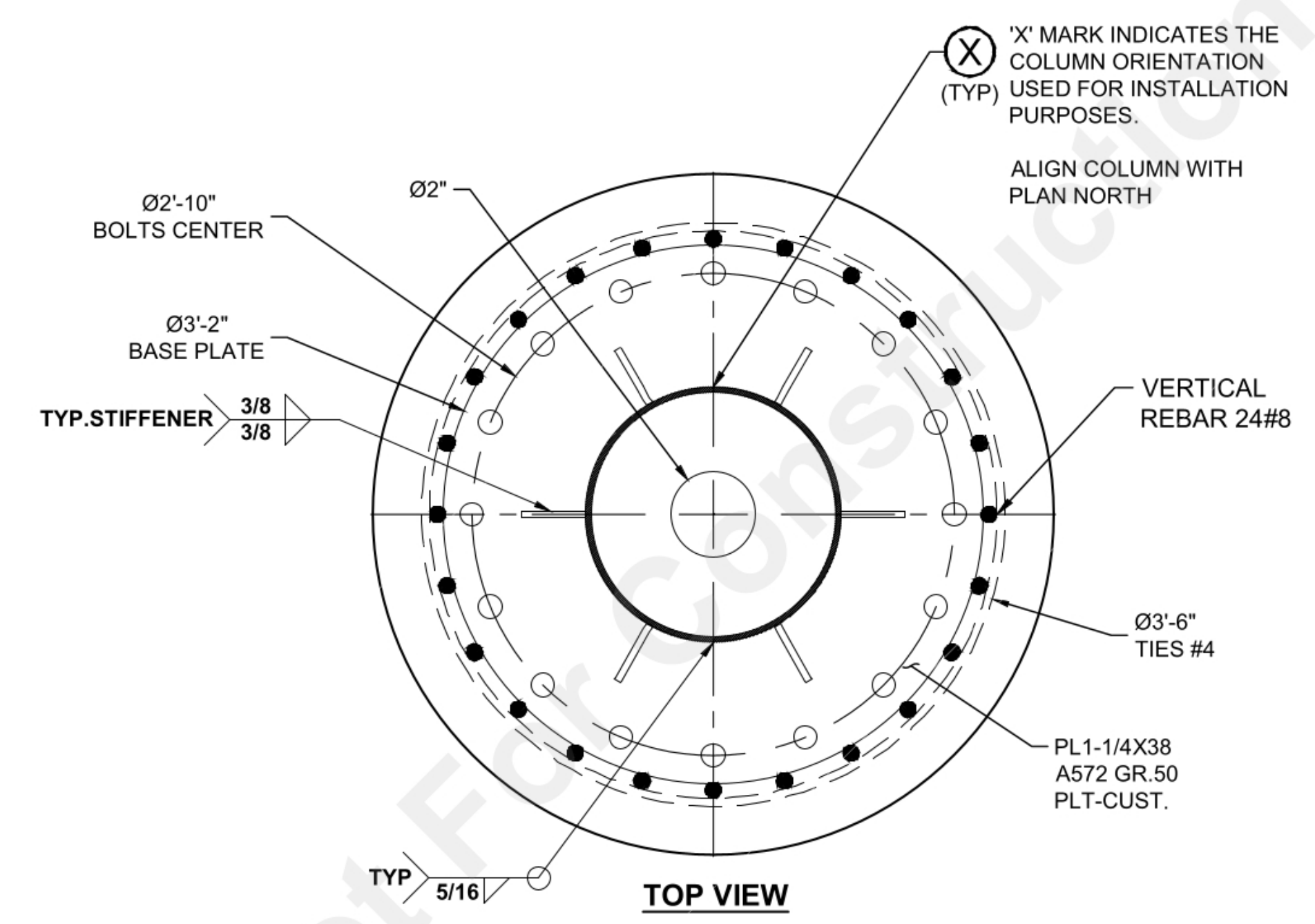
3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).

4.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

5.- SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 5



FOOTING TYPE A Ø 3'-6" X 15'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES



FOOTING TYPE C Ø 4'-0" 16'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
CA**

PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

NO	DATE	DESCRIPTION	DRW	CHK	ENG
08/12/25			MSM	RM	MHB
		FULL CUSTOM			
		DESCRIPTION			
NC					REV

Eng. By : MHB 08/12/25
Design By : MSM 08/12/25
Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
FOOTING DETAILS

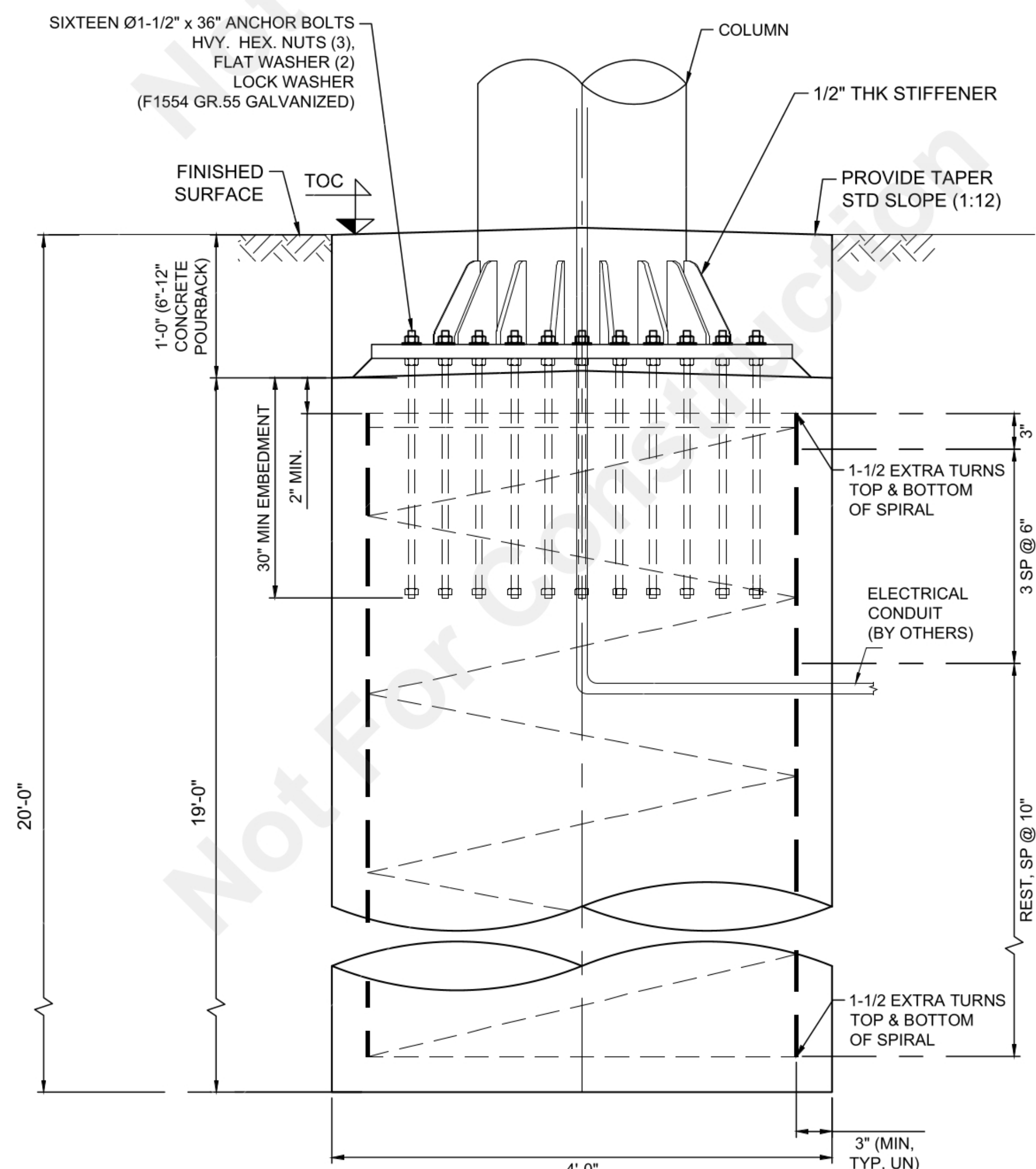
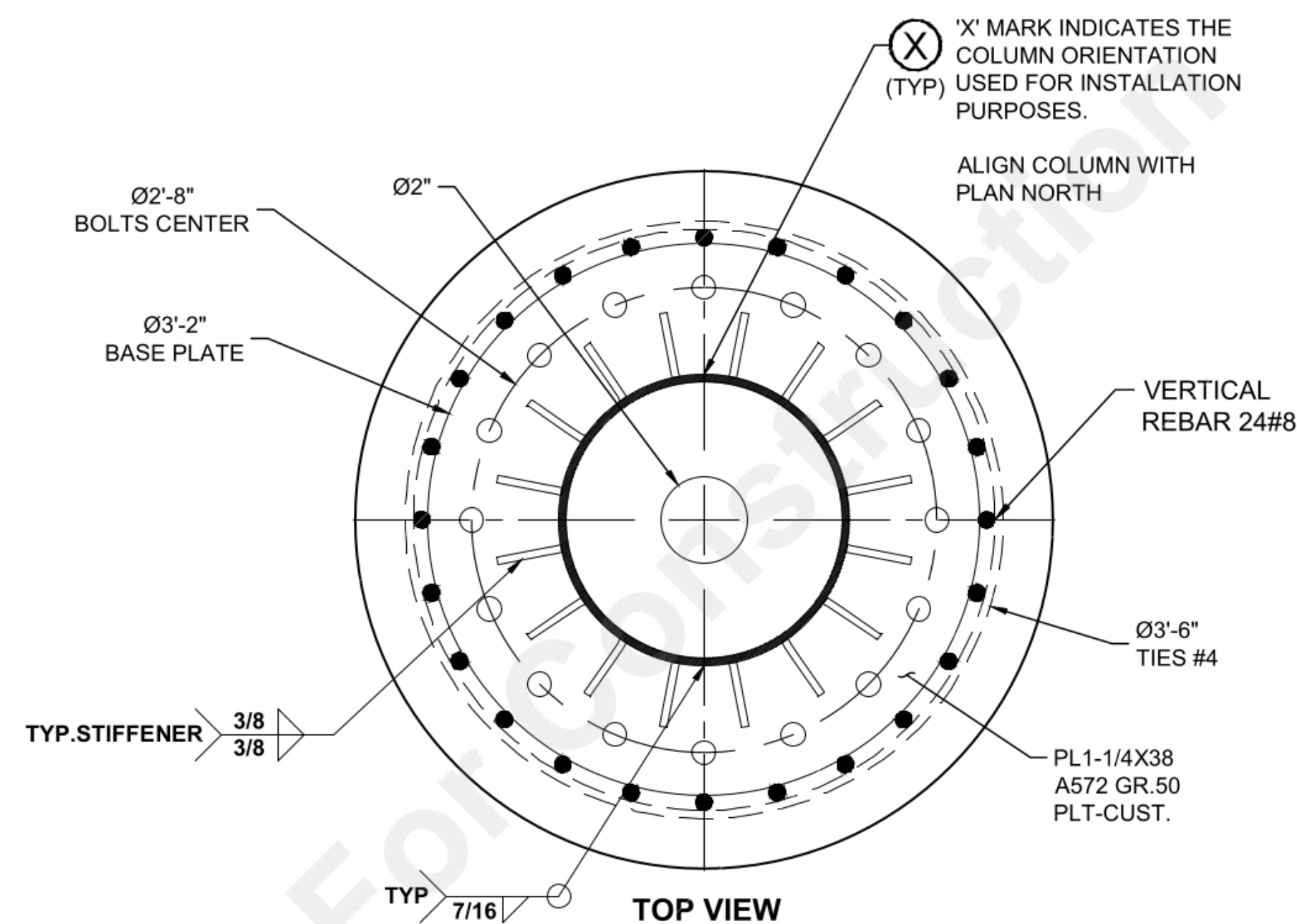
DWG. **96049-1.0**

PAGE **3001**

REV. **NC**

REINFORCED CONCRETE NOTES

- 1.- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318.
CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:
 - 28 DAY STRENGTH: 2500 PSI
 - SLUMP: 3-5
 - PORTLAND CEMENT SHALL CONFORM TO C-150
 - AGGREGATE SHALL CONFORM TO ASTM C-33
- 2.- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
- 3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
- 4.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- 5.- SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 5



FOOTING TYPE C Ø4'-0" 19'-0" S D
 (RBP-RECESSED BASE PLATE)
 USE FOR NON-CONSTRAINED CASES



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 2580 ESTERS BLVD., SUITE 100
 DFW AIRPORT, TX 75261
 800-966-5005

CERTIFICATIONS:
 IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
CIVIC CENTER
PARK-SUPPLY (PALM DESERT)
LOCATION:
PALM DESERT
CA
PROJECT NUMBER:
96049

STRUCTURE TYPE:
JOINED 4-PT.SAILS
FULL CUSTOM
SIZE:
SEE PAGE 2000

SCALE : AS NOTED
DRAWING SIZE: B

DESCRIPTION	RM	MHB
	CHK	ENG
FULL CUSTOM	MSM	08/12/25
DATE	DRW	CHK
REV	NC	REV

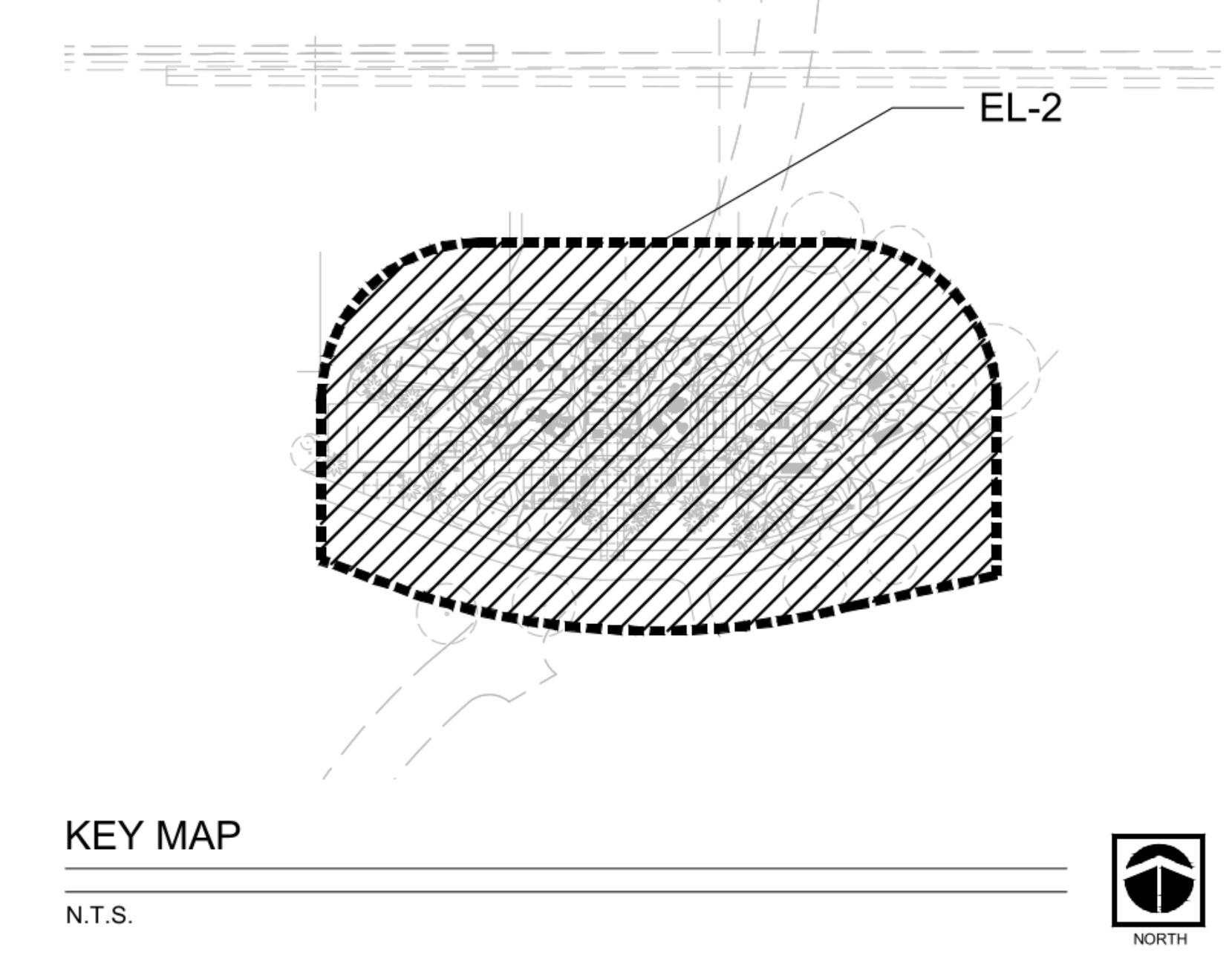
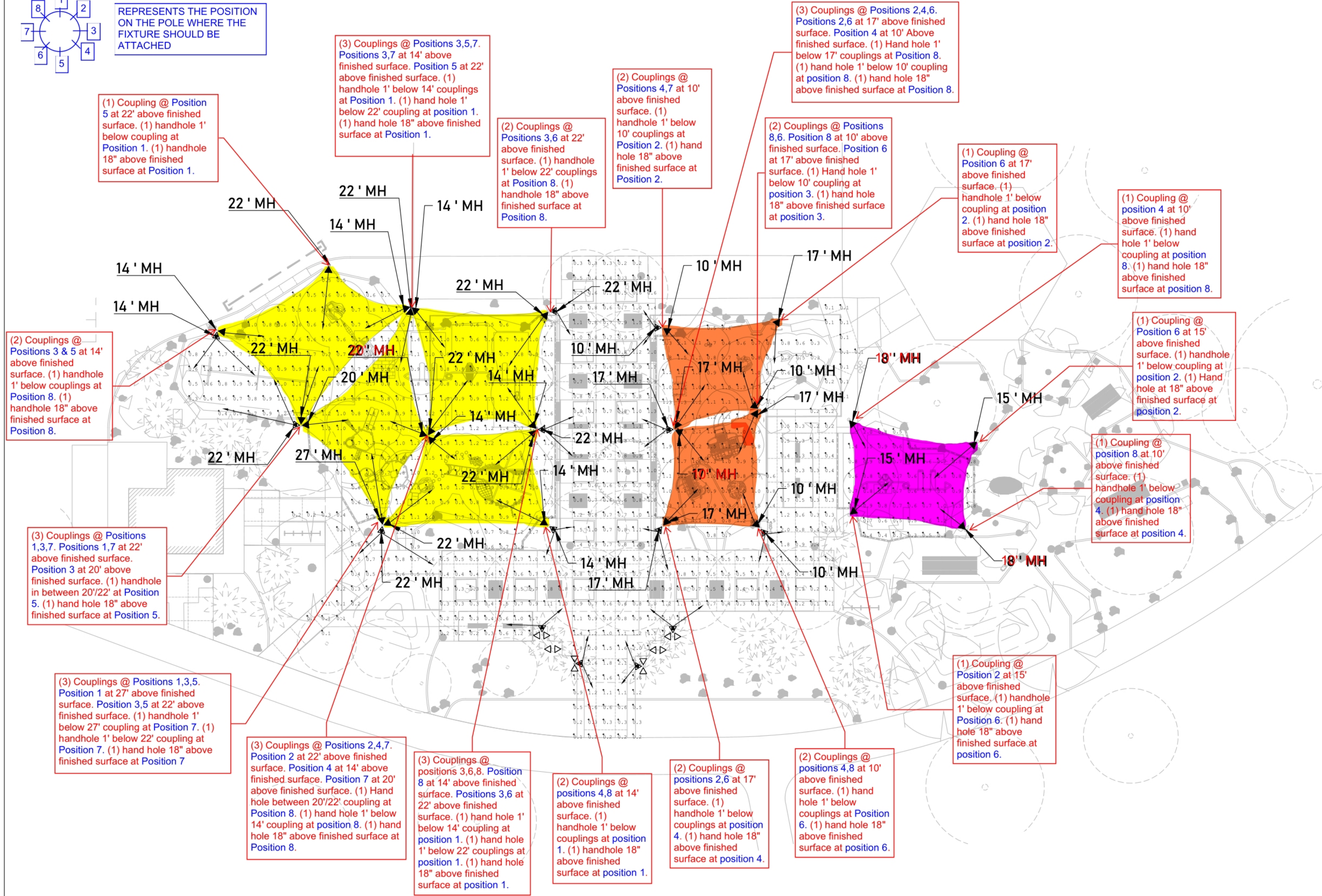
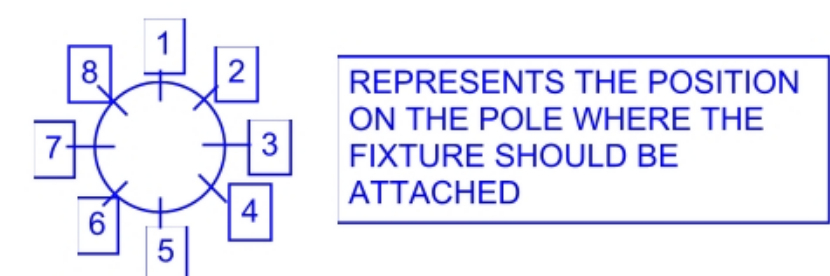
Eng. By : MHB 08/12/25
 Design By : MSM 08/12/25
 Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
FOOTING DETAILS

DWG. **96049-1.0**

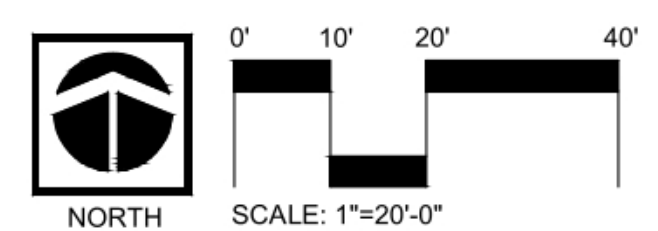
PAGE **3002**

REV. **NC**



- All hand holes to be 6"x4" (if column diameter allows)
- All columns to have a hand hole at 18" above finished surface.
- All Couplings to be Female 1/2" NPT.
- All Couplings to protrude from each respective column by 1/2"
- All Couplings to be 3' below each respective fabric connection

PHOTOMETRIC STUDY



DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE CALL 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	

VCL
Visual Concepts Lighting
PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE
CITY ENGINEER
R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PHOTOMETRIC STUDY
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET **EL-3**
OF SHEETS **5**
CITY FILE NUMBER
PG XX-XXXX

GENERAL NOTES

DESIGN LOADS

BUILDING CODE CBC 2022 (BASED ON IBC 2021)
 LIVE LOADS 5 PSF
 SNOW LOAD 5 PSF
 WIND LOADS 130 MPH¹
 3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 130 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 101 MPH ACCORDING TO ASCE 7-16 AND IBC 2021 EQ 16-17.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 50,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 50,000 PSI YIELD / 56,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS

FABRIC SPECIFICATION

1.- FABRIC SHALL BE COMMERCIAL HEAVY 430FR, A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND LOCK-STITCH KNITTED.

2.- FABRIC SPECIFICATIONS:

-TENSILE STRENGTH WARP 282 LBS WEFT 362 LBS
 -TEAR STRENGTH WARP 55.8 LBS WEFT 48.7 LBS
 -BURST STRENGTH 376 LBS
 -LIFE EXPECTANCY A MINIMUM OF 10-YEARS CONTINUOUS EXPOSURE TO THE SUN

3.- FIRE TEST ON FABRIC: ASTM E84 19B CLASS A. SPREAD OF FLAME INDEX: 8. SMOKE DEVELOPED INDEX: 7

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

SHOP DRAWING / SUBMITTAL REVIEW

- APPROVED APPROVED WITH CHANGES NOTED
 REVISE AND RESUBMIT REJECTED

Submittal was reviewed for design conformity and general conformance to contract documents only. The contractor is responsible for confirming and correlating dimensions at job sites for tolerances, clearances, quantities, fabrication processes, techniques of construction, coordination of work with other trades, and full compliance with Contract Documents.

BY: *[Signature]* DATE: 8/28/25

In-Site Landscape Architecture, Inc.
 San Diego, CA

THESE DRAWINGS ARE ACCEPTABLE FOR BIDDING PURPOSES BUT NOT FOR FINAL CONSTRUCTION. THE DRAWINGS ARE STILL MISSING LIGHTING PENETRATION LOCATIONS. SEE ATTACHMENT FOR LIGHTING REQUIREMENTS.

NOTICE

FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF IS ANTICIPATED

FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 130MPH ARE ANTICIPATED, SEE NOTE 1 OF DESIGN LOADS

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 2580 ESTERS BLVD., SUITE 100
 DFW AIRPORT, TX 75261
 800-966-5005

CERTIFICATIONS:
 IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
 PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
 CA**
 PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
 FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

FULL CUSTOM	DESCRIPTION	RM	MHB
		CHK	ENG
08/12/25	DATE	DRW	ENG

NC	REV
----	-----

Eng. By : MHB 08/12/25

Design By : MSM 08/12/25

Approved By : RM-HH 08/12/25

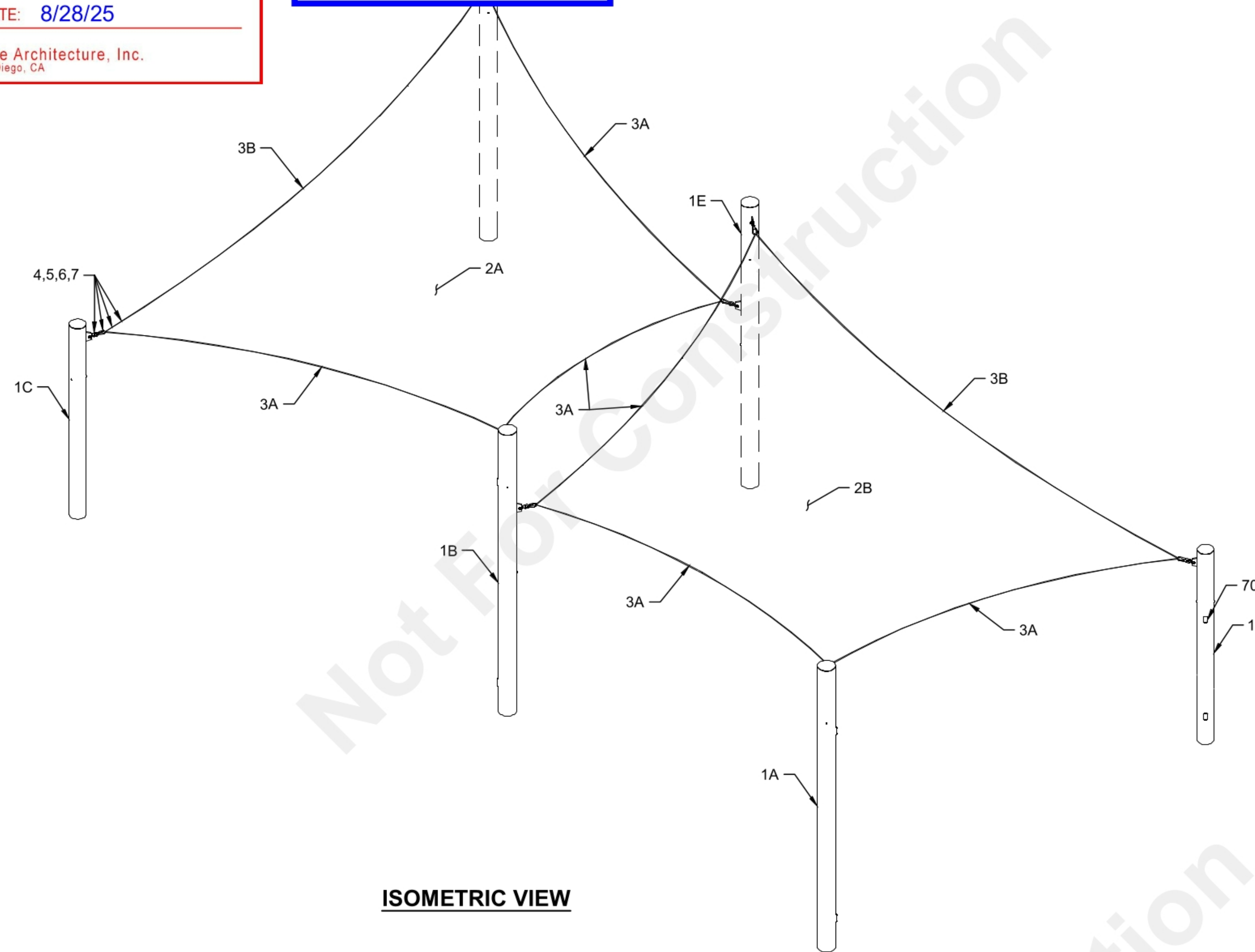
DRAWING DESCRIPTION:

NOTES/ LOM

DWG. **96049-2.0**

PAGE **1000**

REV. **NC**



ISOMETRIC VIEW

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	2214	N/A
SEE PAGE 2000				

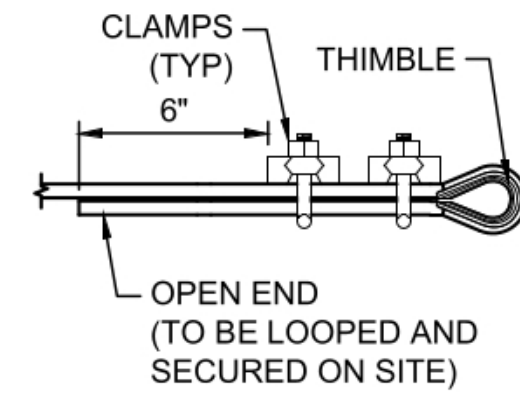
LIST OF MATERIALS				
ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
STEEL AND BOLTS				
1A	1	COLUMN	HSS Ø14.00 x 0.500	N/A (ELECTRICAL)
1B	1	COLUMN	HSS Ø14.00 x 0.500	N/A (ELECTRICAL)
1C	1	COLUMN	HSS Ø12.75 x 0.375	N/A (ELECTRICAL)
1D	1	COLUMN	HSS Ø14.00 x 0.500	N/A (ELECTRICAL)
1E	1	COLUMN	HSS Ø14.00 x 0.500	N/A (ELECTRICAL)
1F	1	COLUMN	HSS Ø12.75 x 0.375	N/A (ELECTRICAL)
700	12	HANDHOLE COVER KIT	6"x 4" H.H COVER KIT	HHCOV KIT-64
800	76	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55 (GALVANIZED)	307615
FABRIC AND HARDWARE				
2A	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 798 SQF, WEIGHT: 48 LBS
2B	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 799 SQF, WEIGHT: 48 LBS
3A	6	45 FT OF Ø3/8" STEEL CABLE	GALVANIZED CABLE	308175
3B	2	50 FT OF Ø3/8" STEEL CABLE	GALVANIZED CABLE	308175
4	16	Ø3/8" THIMBLE	GALVANIZED	308064
5	32	Ø3/8" CABLE CLAMP	GALVANIZED	307629
6	8	3/4" SWIVEL JAW END	GALVANIZED	308586
7	8	3/4" QUICK LINK	ZINC PLATED	308205

SYMBOLOLOGY

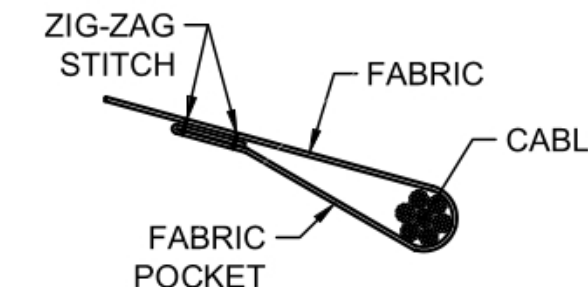
(00'-00") CONNECTION'S LEVEL (MEASURED FROM FINISHED SURFACE)

* APPROXIMATELY

(X) 'X' MARK INDICATES THE COLUMN ORIENTATION USED FOR INSTALLATION PURPOSES.
ALIGN COLUMN WITH PLAN NORTH

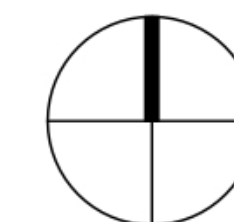


Ø3/8" CABLE ASSEMBLY
TYPICAL CABLE END



SECTION A-A

PLAN NORTH



FOR TRUE NORTH SEE CUSTOMER'S SITE PLAN



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
PARK-SUPPLY (PALM DESERT)**

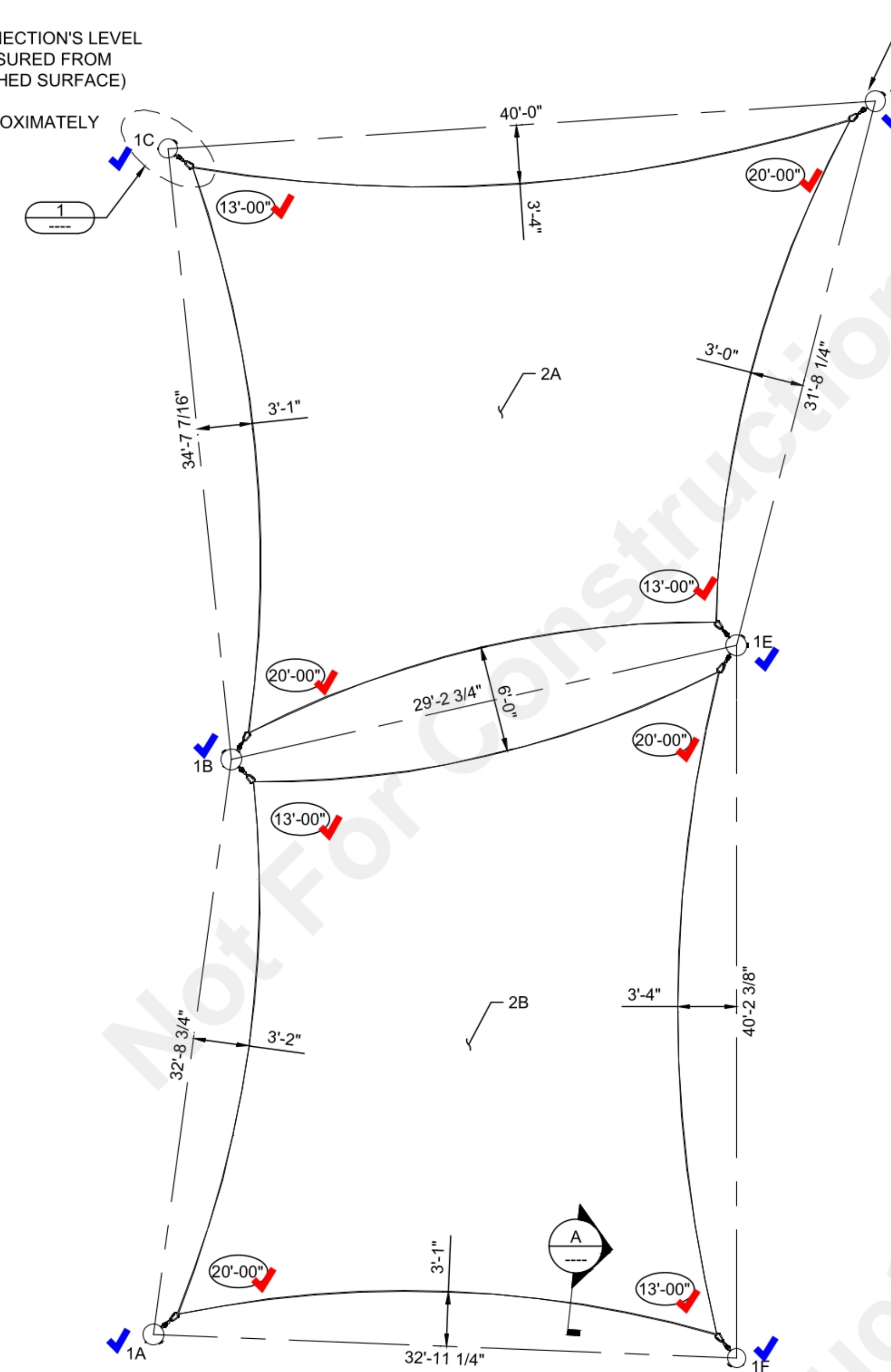
LOCATION:
**PALM DESERT
CA**
PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
FULL CUSTOM**

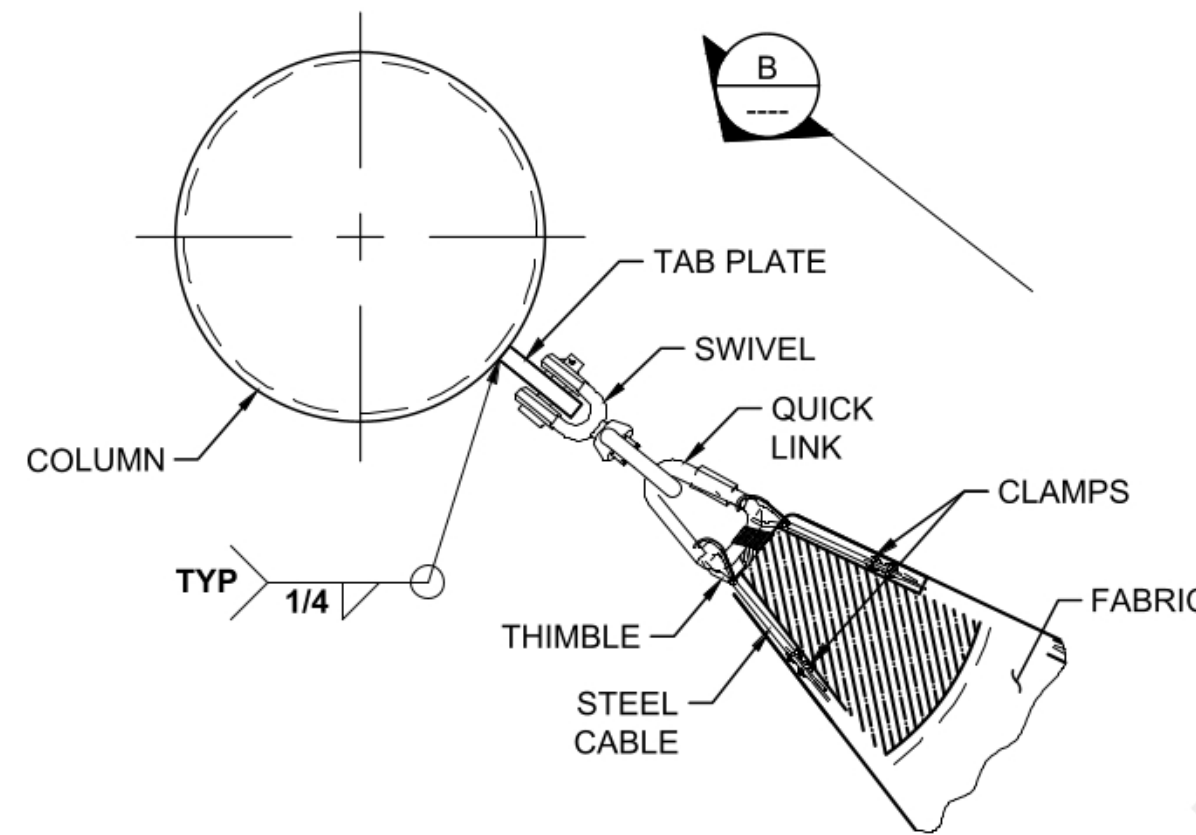
SIZE:
SEE PAGE 2000

SCALE : AS NOTED

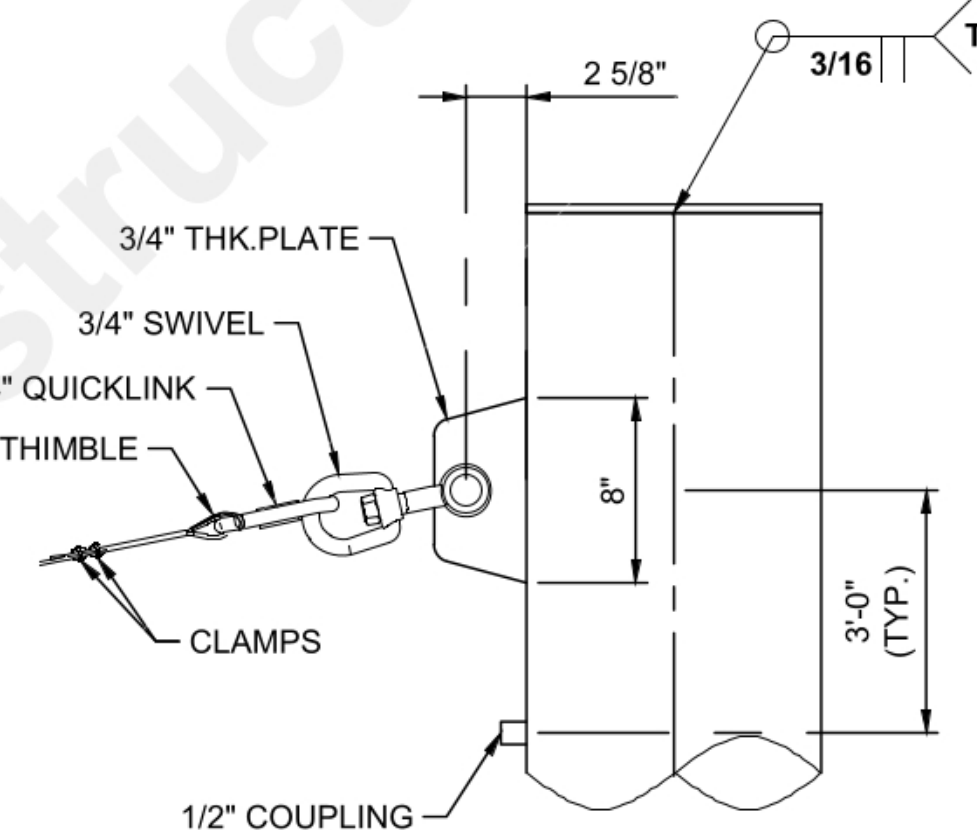
DRAWING SIZE:
B



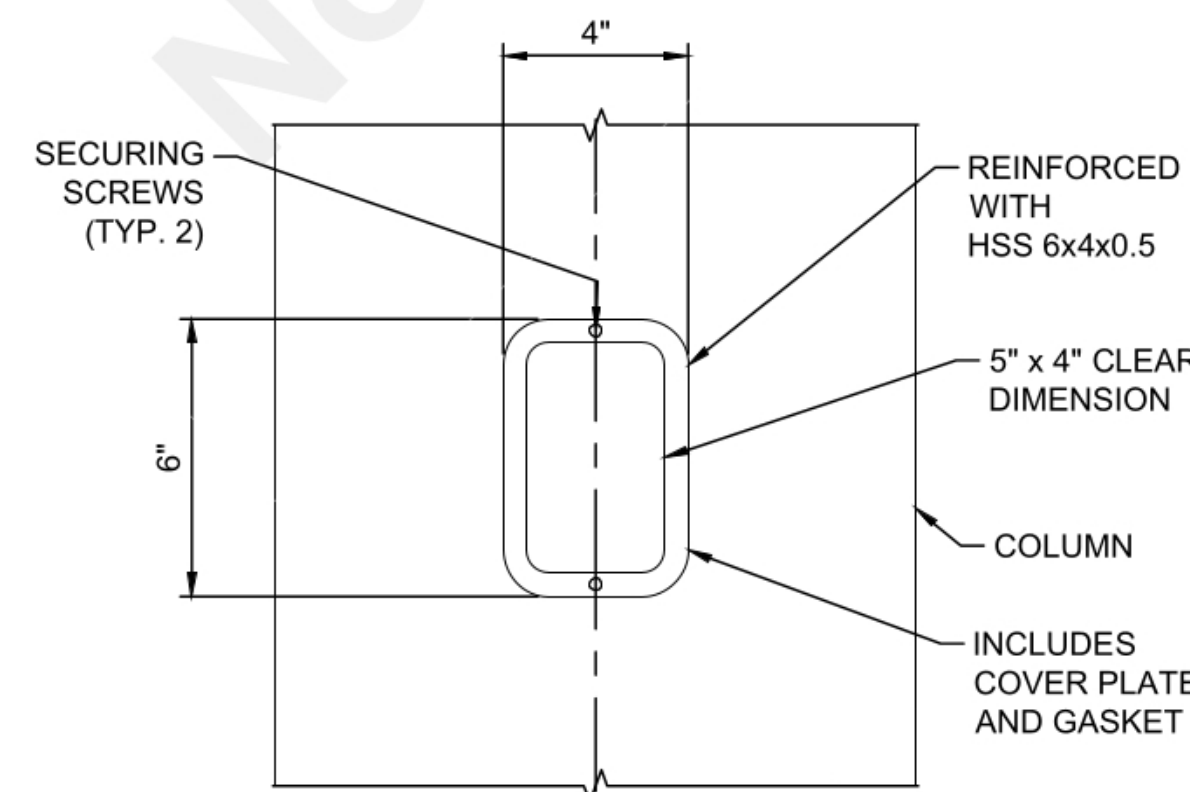
TOP VIEW



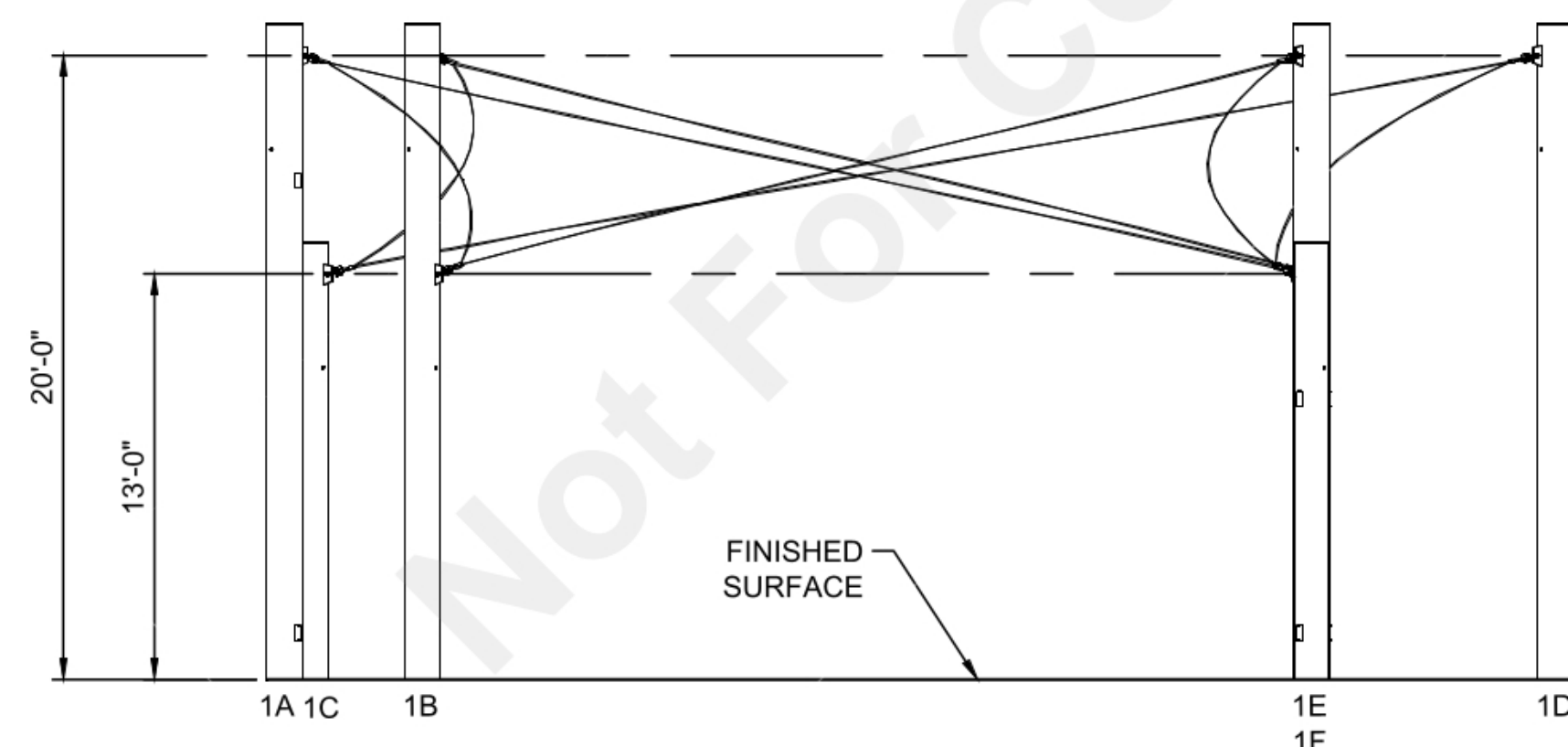
DETAIL 1
TYPICAL CORNER



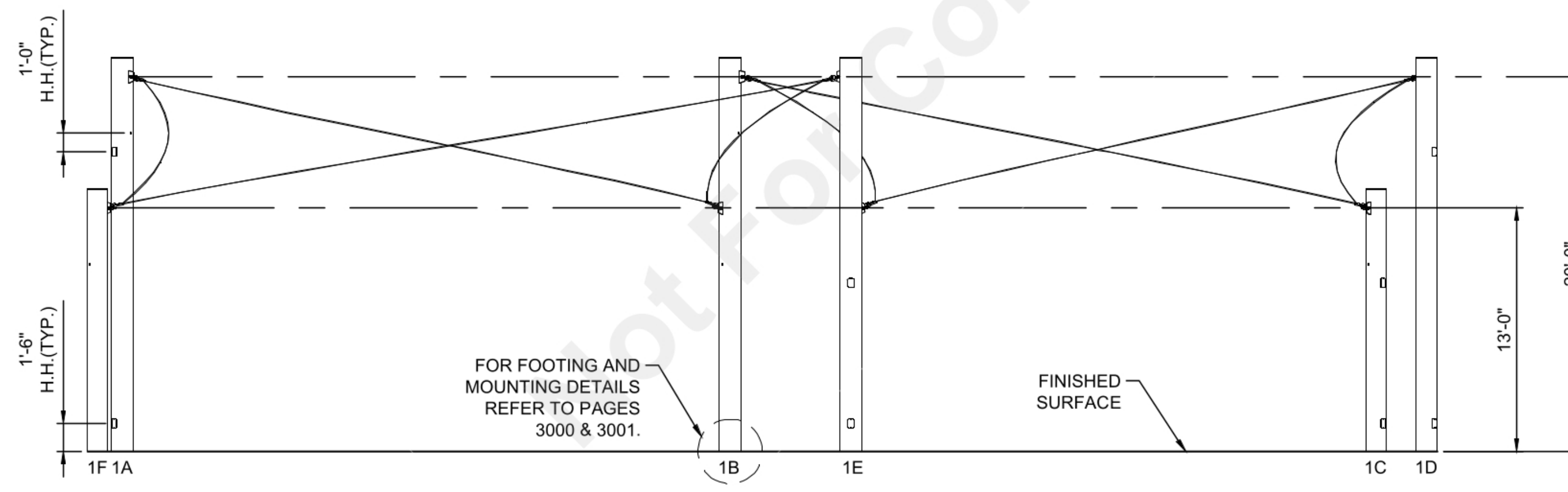
VIEW B-B



6" X 4" HANDHOLE DETAIL



FRONT ELEVATION



SIDE ELEVATION

REV	DATE	DRW	CHK	ENG
08/12/25		MSM	RM	MHB

Eng. By : MHB 08/12/25
Design By : MSM 08/12/25
Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
VIEWS AND DETAILS

DWG. **96049-2.0**

PAGE **2000**

REV. **NC**

REINFORCED CONCRETE NOTES

- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:
 - 28 DAY STRENGTH: 2500 PSI
 - SLUMP: 3-5
 - PORTLAND CEMENT SHALL CONFORM TO C-150
 - AGGREGATE SHALL CONFORM TO ASTM C-33
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- SOIL PARAMETERS FOR FOOTING ANALYSIS: TABLE 1806.2, CLASS : 5

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-027701

COMMERCIAL HEAVY 430 FR

Product Marketed by:
GALE PACIFIC LTD
 145 WOODLANDS DRIVE
 BRAESIDE, AUSTRALIA 3195, Issue Date : 04/09/2025
 Expiration Date : 06/30/2026

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

C. Walker

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

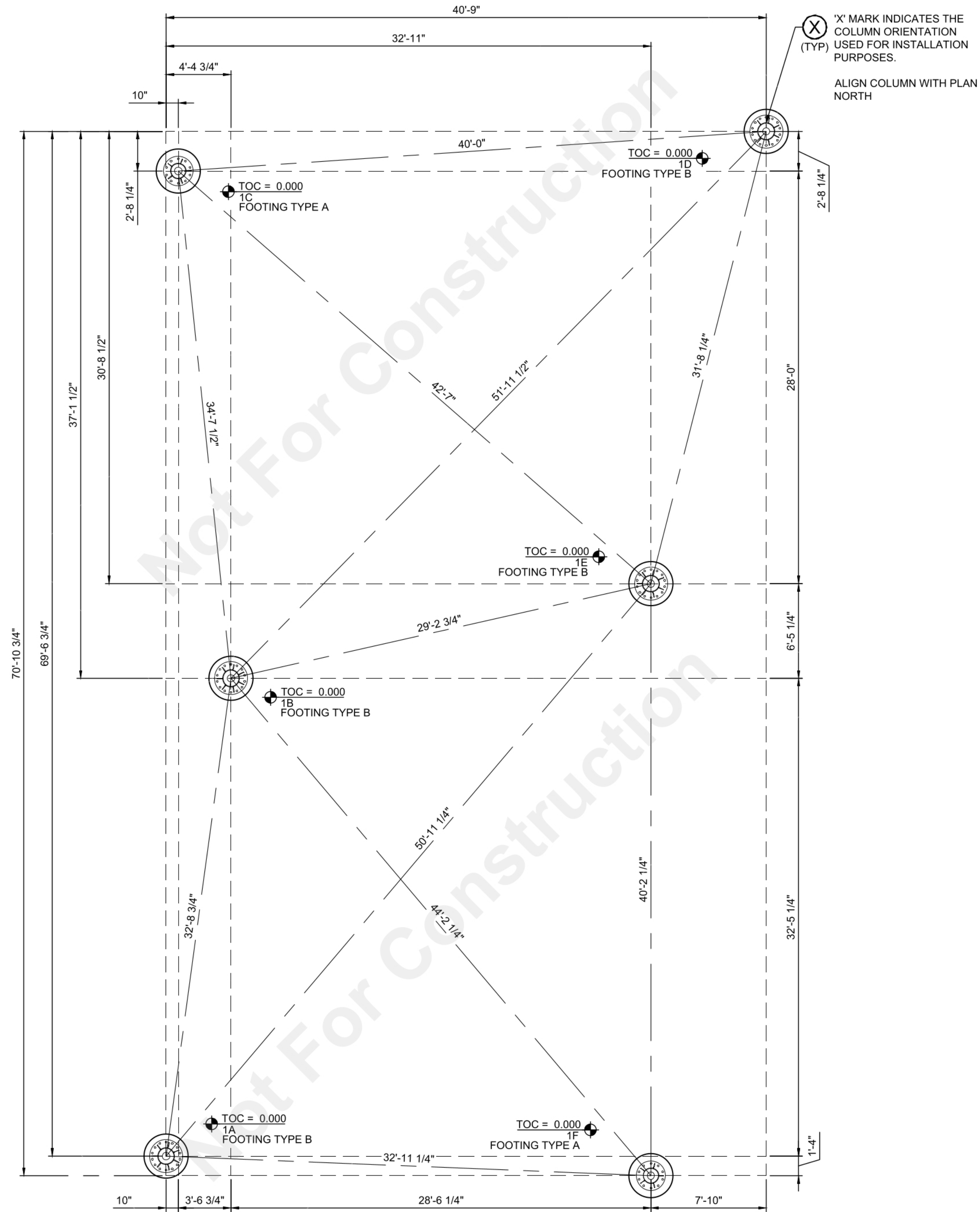
Patricia Setter

Reviewed and Approved By Patricia Setter
Program Coordinator
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit uatcalfire.gov/motus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1



PLAN NORTH
 FOR TRUE NORTH
 SEE CUSTOMER'S
 SITE PLAN

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 2580 ESTERS BLVD., SUITE 100
 DFW AIRPORT, TX 75261
 800-966-5005

CERTIFICATIONS:
 IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
 PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
 CA**
PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
 FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

REV	DATE	DRW	CHK	ENG	DESCRIPTION
	08/12/25				FULL CUSTOM

Eng. By : MHB 08/12/25
 Design By : MSM 08/12/25
 Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
SPREAD FOOTING

DWG. **96049-2.0**

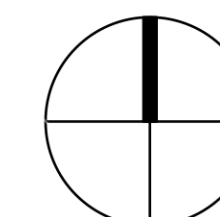
PAGE **3001**

REV. **NC**

REINFORCED CONCRETE NOTES

- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:
 - 28 DAY STRENGTH: 2500 PSI
 - SLUMP: 3-5
 - PORTLAND CEMENT SHALL CONFORM TO C-150
 - AGGREGATE SHALL CONFORM TO ASTM C-33
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- SOIL PARAMETERS FOR FOOTING ANALYSIS: TABLE 1806.2, CLASS : 5

PLAN NORTH



FOR TRUE NORTH
SEE CUSTOMER'S
SITE PLAN

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
CA**

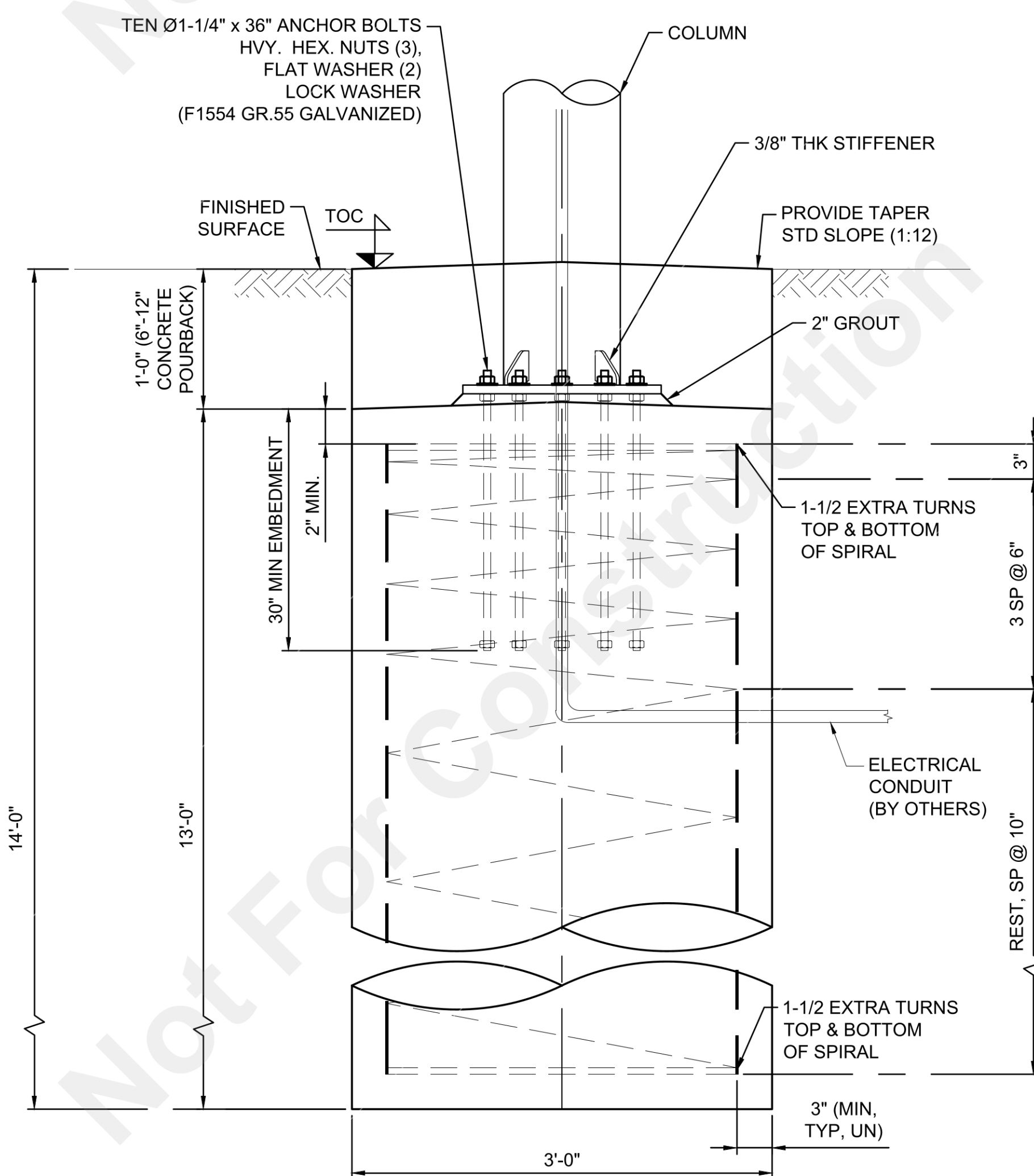
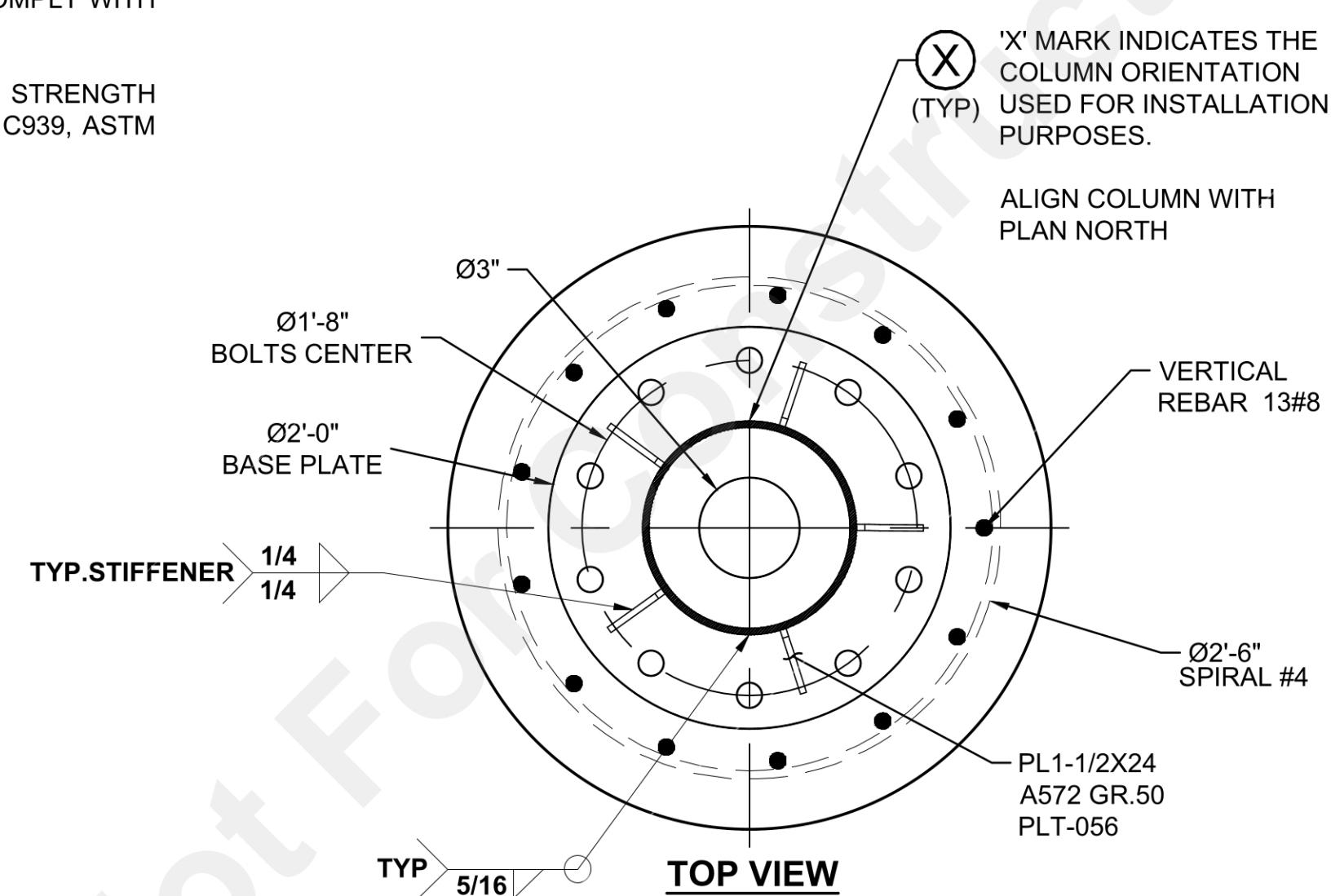
PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
FULL CUSTOM**

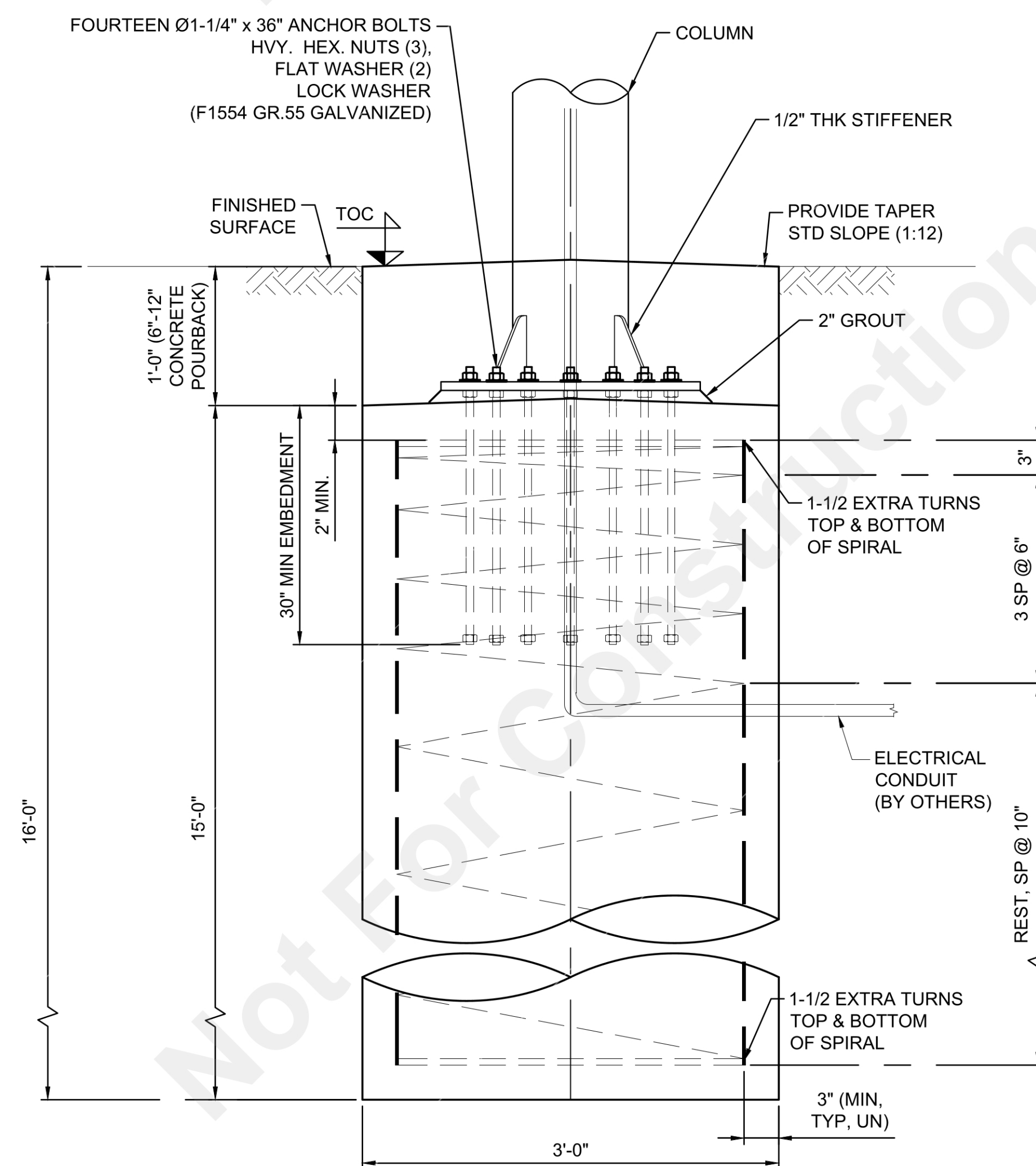
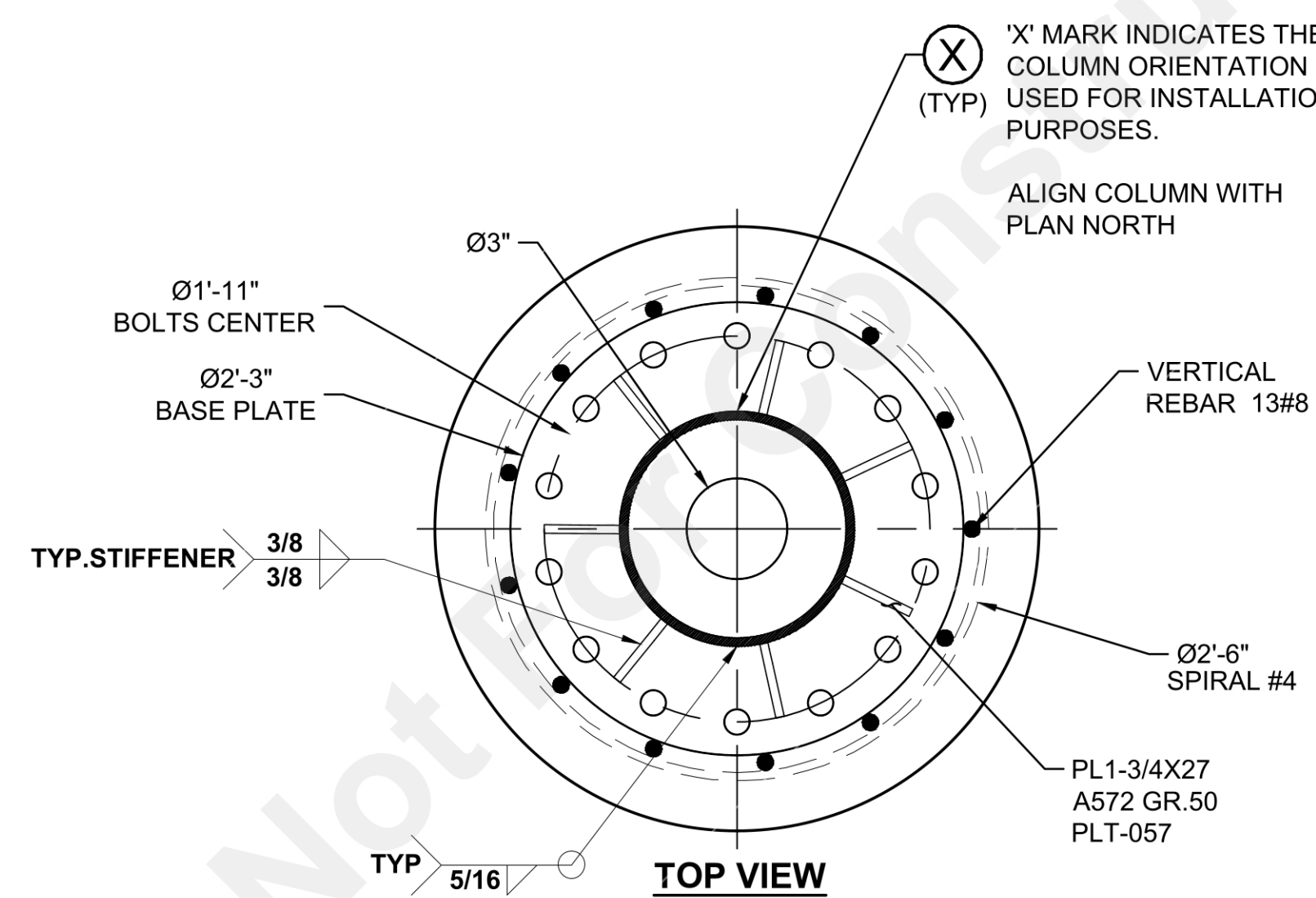
SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B



FOOTING TYPE A Ø3'-0" X 13'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES



FOOTING TYPE B Ø3'-0" X 15'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES

REV	DATE	DRW	CHK	ENG
NC	08/12/25	MSM	RM	MHB

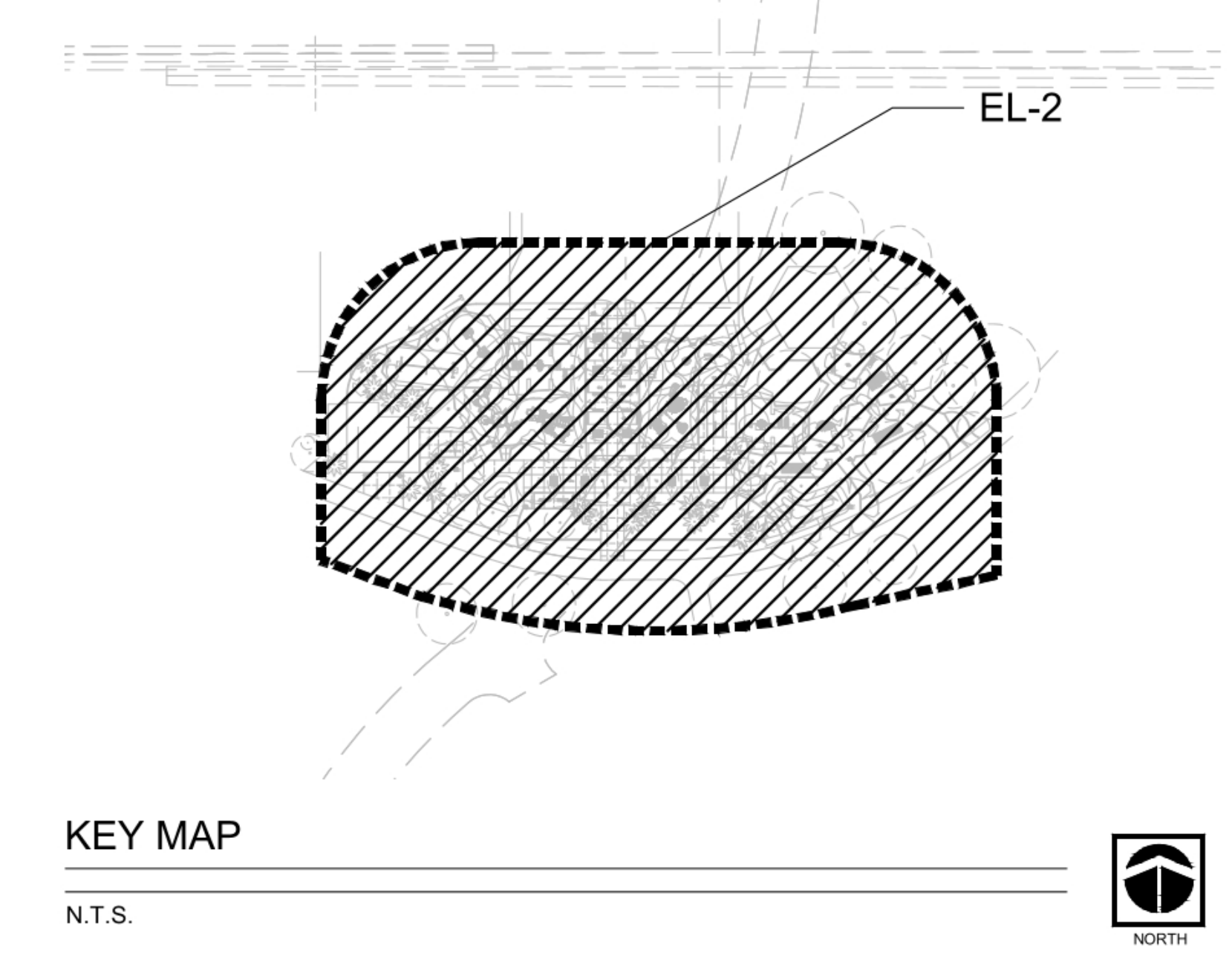
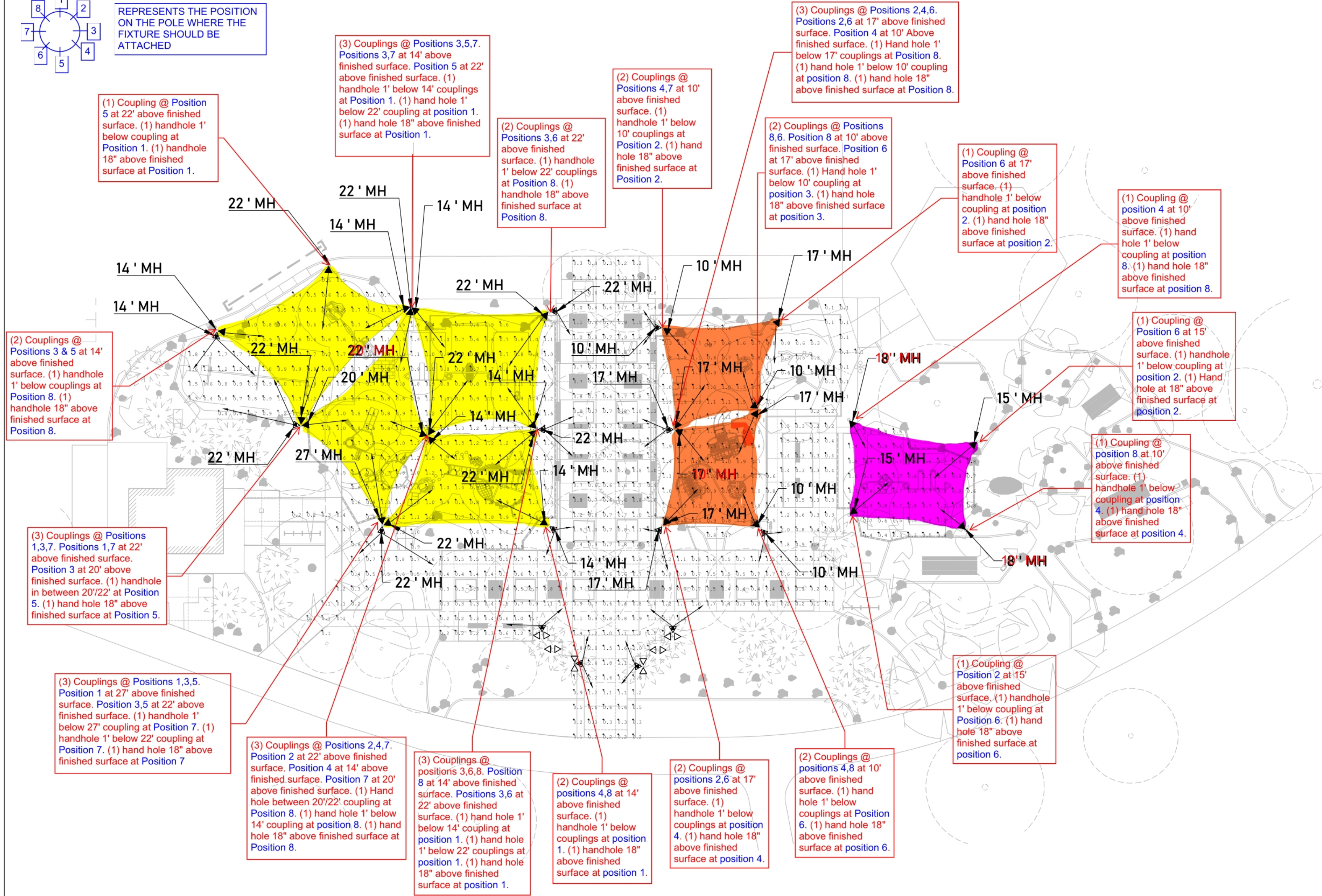
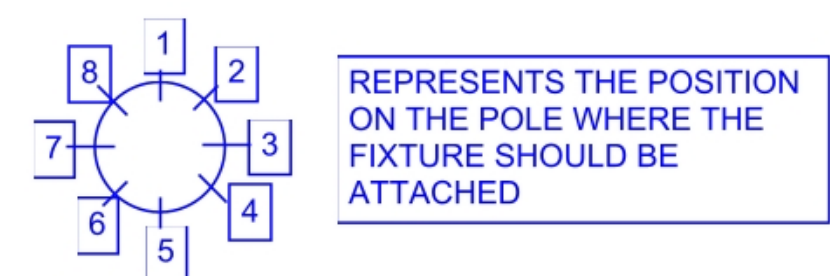
Eng. By :	MHB	08/12/25
Design By :	MSM	08/12/25
Approved By :	RM-HH	08/12/25

DRAWING DESCRIPTION:
FOOTING DETAILS

DWG. **96049-2.0**

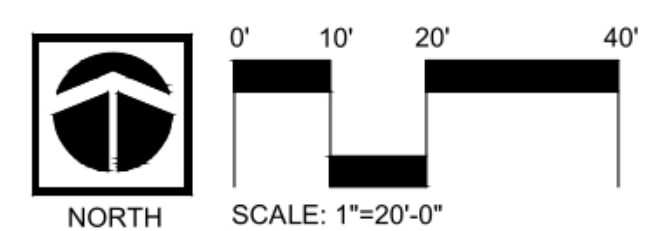
PAGE **3000**

REV. **NC**



- All hand holes to be 6"x4" (if column diameter allows)
- All columns to have a hand hole at 18" above finished surface.
- All Couplings to be Female 1/2" NPT.
- All Couplings to protrude from each respective column by 1/2"
- All Couplings to be 3' below each respective fabric connection

PHOTOMETRIC STUDY



SEE SHEET 1 OF CIVIL PLANS
BENCHMARK AND BASIS OF BEARINGS
INFORMATION

ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



VCL
Visual Concepts Lighting
PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE DATE: _____
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE: _____

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PHOTOMETRIC STUDY
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET EL-3
OF SHEETS 5
CITY FILE NUMBER
PG XX-XXXX

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	130 MPH ¹ 3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

1.- 130 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 101 MPH ACCORDING TO ASCE 7-16 AND IBC 2021 EQ 16-17.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:
 SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE
 ROUND PIPE 50,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS:
 ROUND TUBE 50,000 PSI YIELD / 56,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4.- ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

10.- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS

FABRIC SPECIFICATION

1.- FABRIC SHALL BE COMMERCIAL HEAVY 430FR, A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND LOCK-STITCH KNITTED.

2.- FABRIC SPECIFICATIONS:

-TENSILE STRENGTH	WARP 282 LBS	WEFT 362 LBS
-TEAR STRENGTH	WARP 55.8 LBS	WEFT 48.7 LBS
-BURST STRENGTH	376 LBS	
-LIFE EXPECTANCY	A MINIMUM OF 10-YEARS CONTINUOUS EXPOSURE TO THE SUN	

3.- FIRE TEST ON FABRIC: ASTM E84 19B CLASS A. SPREAD OF FLAME INDEX: 8. SMOKE DEVELOPED INDEX: 7

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

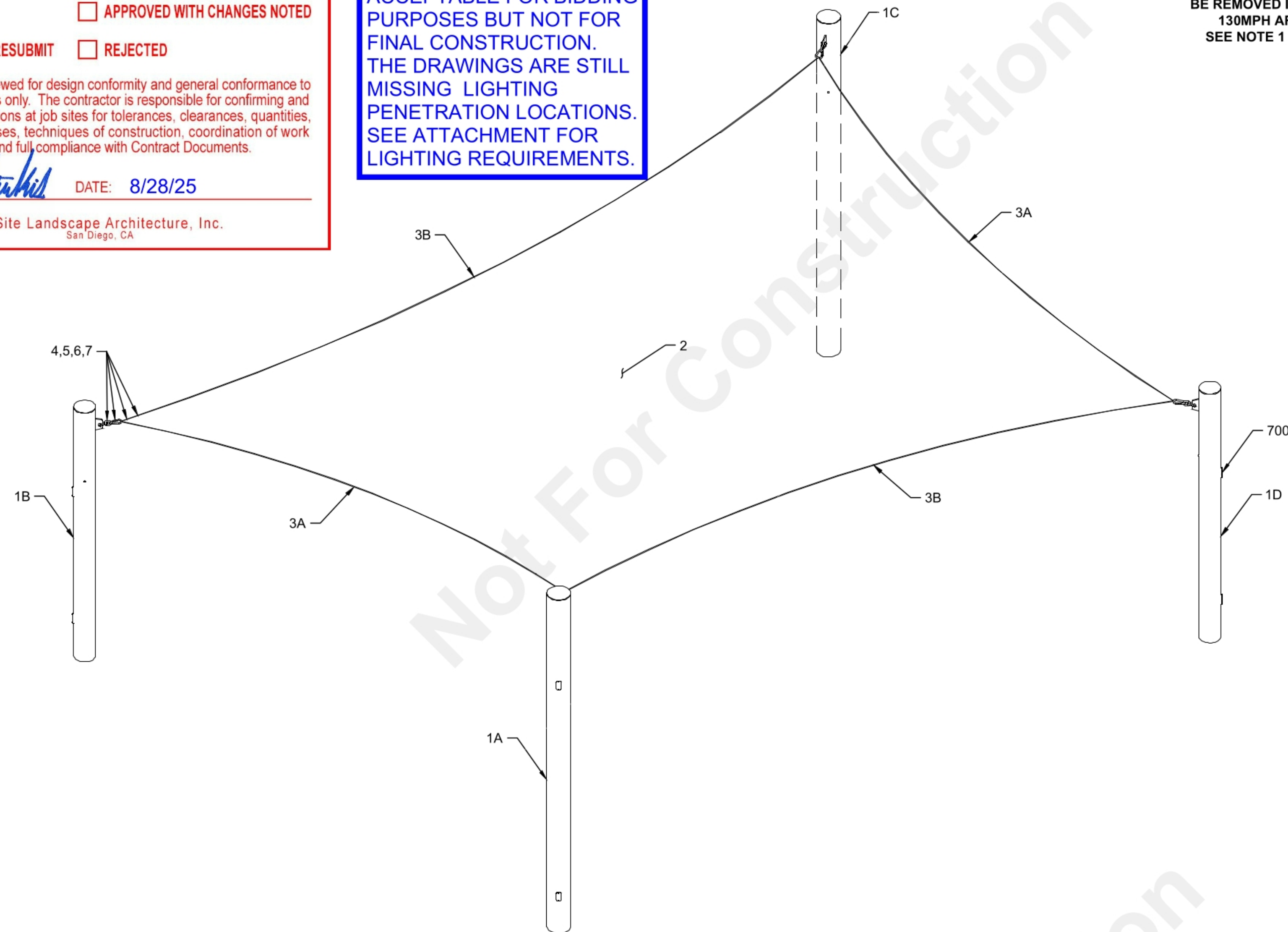
SHOP DRAWING / SUBMITTAL REVIEW

- APPROVED APPROVED WITH CHANGES NOTED
 REVISE AND RESUBMIT REJECTED

Submittal was reviewed for design conformity and general conformance to contract documents only. The contractor is responsible for confirming and correlating dimensions at job sites for tolerances, clearances, quantities, fabrication processes, techniques of construction, coordination of work with other trades, and full compliance with Contract Documents.

By: *[Signature]* DATE: 8/28/25
 In-Site Landscape Architecture, Inc.
 San Diego, CA

THESE DRAWINGS ARE ACCEPTABLE FOR BIDDING PURPOSES BUT NOT FOR FINAL CONSTRUCTION. THE DRAWINGS ARE STILL MISSING LIGHTING PENETRATION LOCATIONS. SEE ATTACHMENT FOR LIGHTING REQUIREMENTS.



ISOMETRIC VIEW

LIST OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
STEEL AND BOLTS				
1A	1	COLUMN	HSS Ø14.00 x 0.375	N/A (ELECTRICAL)
1B	1	COLUMN	HSS Ø12.75 x 0.375	N/A (ELECTRICAL)
1C	1	COLUMN	HSS Ø14.00 x 0.375	N/A (ELECTRICAL)
1D	1	COLUMN	HSS Ø12.75 x 0.375	N/A (ELECTRICAL)
700	8	HANDHOLE COVER KIT	6"x 4" H.H COVER KIT	HHCOV KIT-64
800	56	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55 (GALVANIZED)	307615
FABRIC AND HARDWARE				
2	1	FABRIC (CUSTOM)	COMMERCIAL_HEAVY 430_FR	AREA: 943 SQF, WEIGHT: 57 LBS
3A	2	45 FT OF Ø3/8" STEEL CABLE	GALVANIZED CABLE	308175
3B	2	55 FT OF Ø3/8" STEEL CABLE	GALVANIZED CABLE	308175
4	8	Ø3/8" THIMBLE	GALVANIZED	308064
5	16	Ø3/8" CABLE CLAMP	GALVANIZED	307629
6	4	3/4" SWIVEL JAW END	GALVANIZED	308586
7	4	3/4" QUICK LINK	ZINC PLATED	308205

CODE ANALYSIS				
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD
SHADE STRUCTURE	U	V-B	1302	N/A
SEE PAGE 2000				

NOTICE

FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF IS ANTICIPATED

FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 130MPH ARE ANTICIPATED, SEE NOTE 1 OF DESIGN LOADS

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
 2580 ESTERS BLVD., SUITE 100
 DFW AIRPORT, TX 75261
 800-966-5005

CERTIFICATIONS:
 IAS CERTIFICATION No: FA-428
 CLARK COUNTY MANUFACTURER
 CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
 PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
 CA**
 PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
 FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

FULL CUSTOM	DESCRIPTION	08/12/25	DATE	DRW	CHK	ENG
		MSM	RM	MHB	NC	REV

Eng. By : MHB 08/12/25
 Design By : MSM 08/12/25
 Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
NOTES/ LOM

DWG. **96049-3.0**

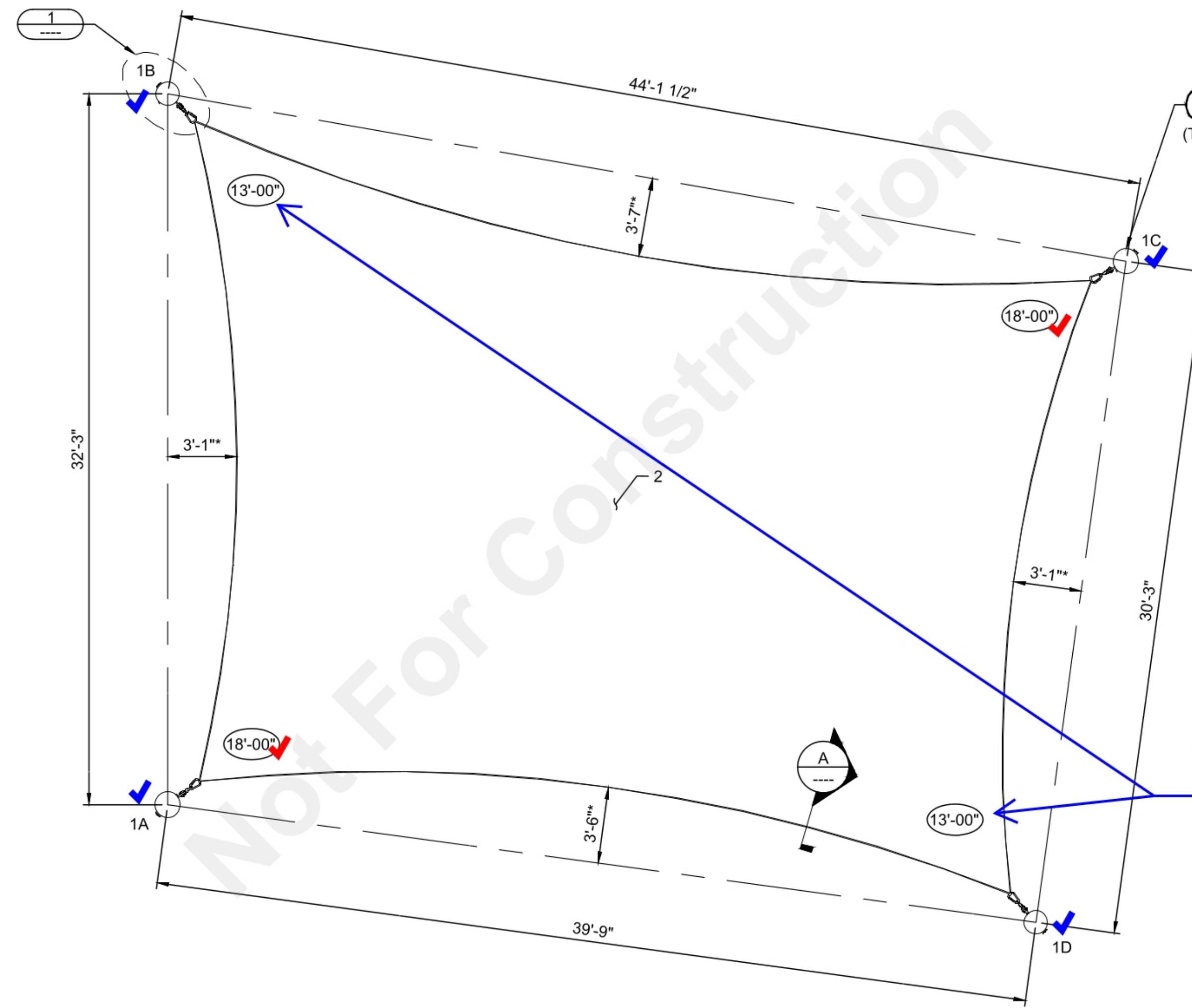
PAGE **1000**

REV. **NC**

SYMBOLOLOGY

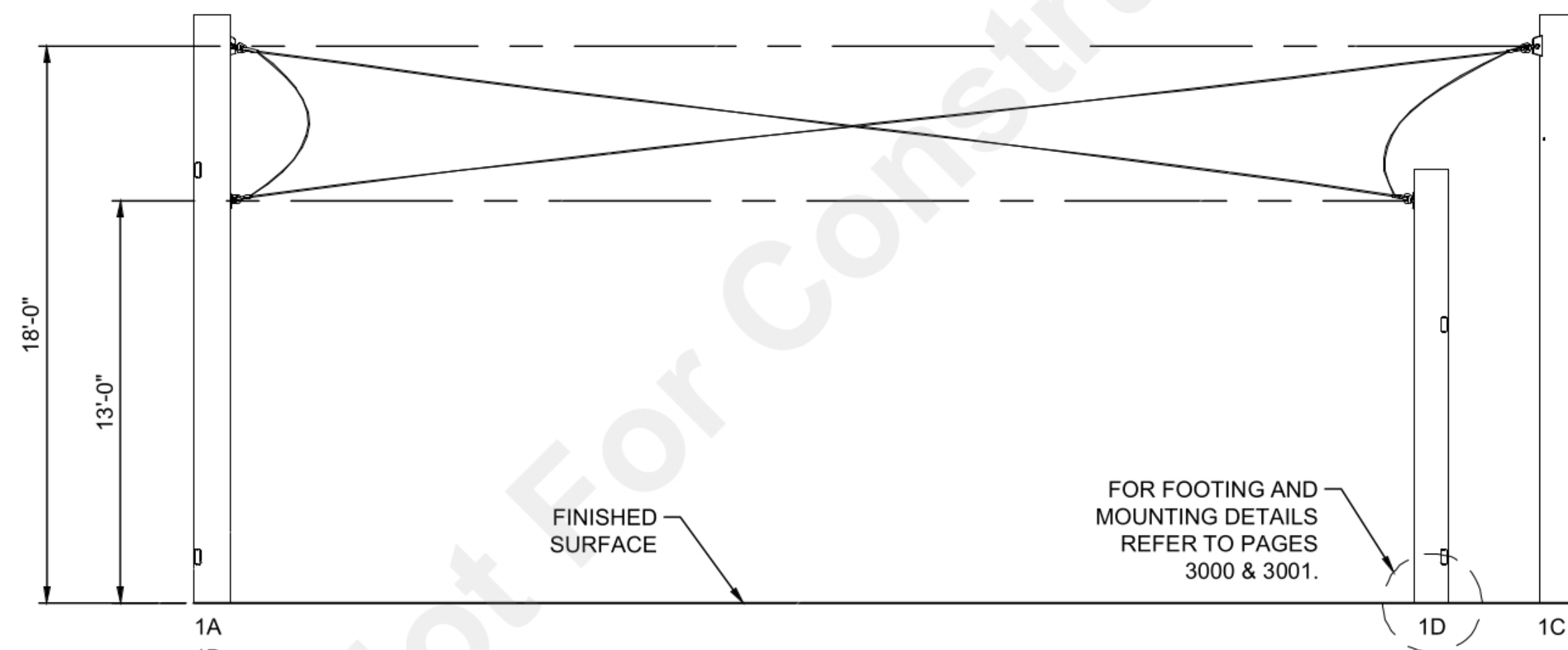
(00'-00") CONNECTION'S LEVEL (MEASURED FROM FINISHED SURFACE)

* APPROXIMATELY

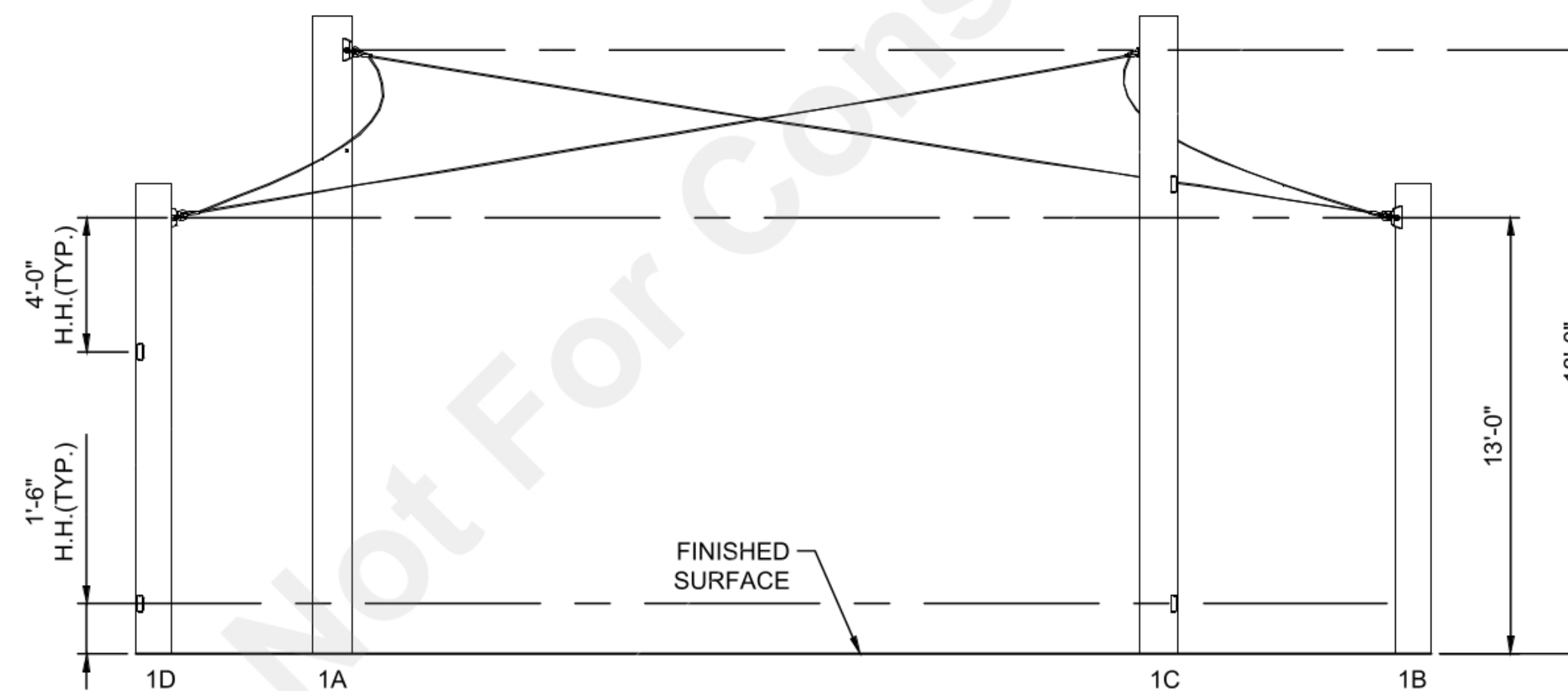


X MARK INDICATES THE COLUMN ORIENTATION USED FOR INSTALLATION PURPOSES. ALIGN COLUMN WITH PLAN NORTH

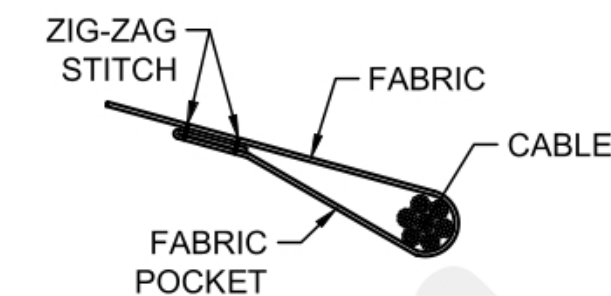
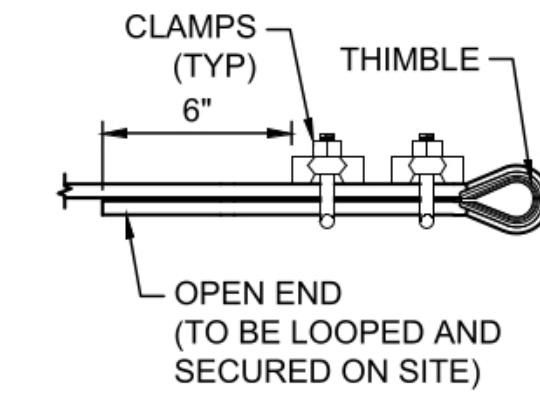
IN-SITE COORDINATION EXHIBIT DATED 5/7/25 SHOWS THIS AS 11' HT. BUT WE ARE AMENABLE TO THE 13' HT.



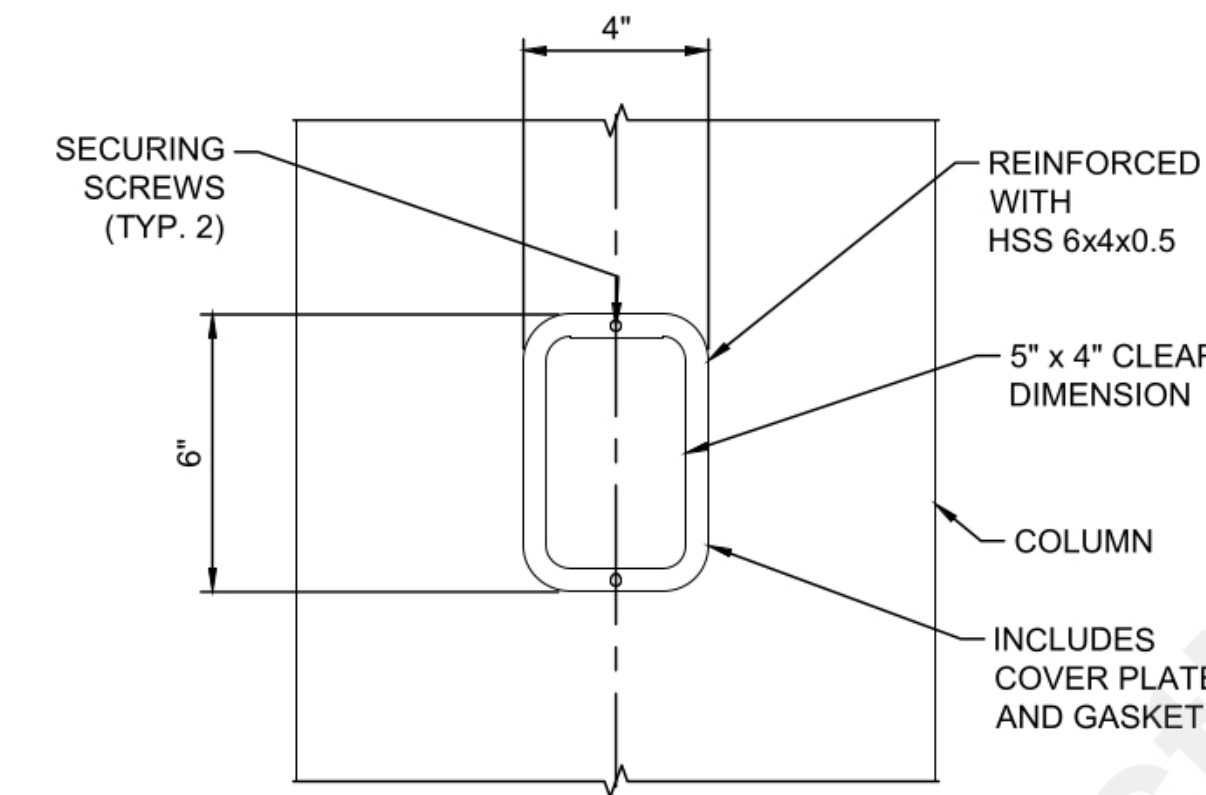
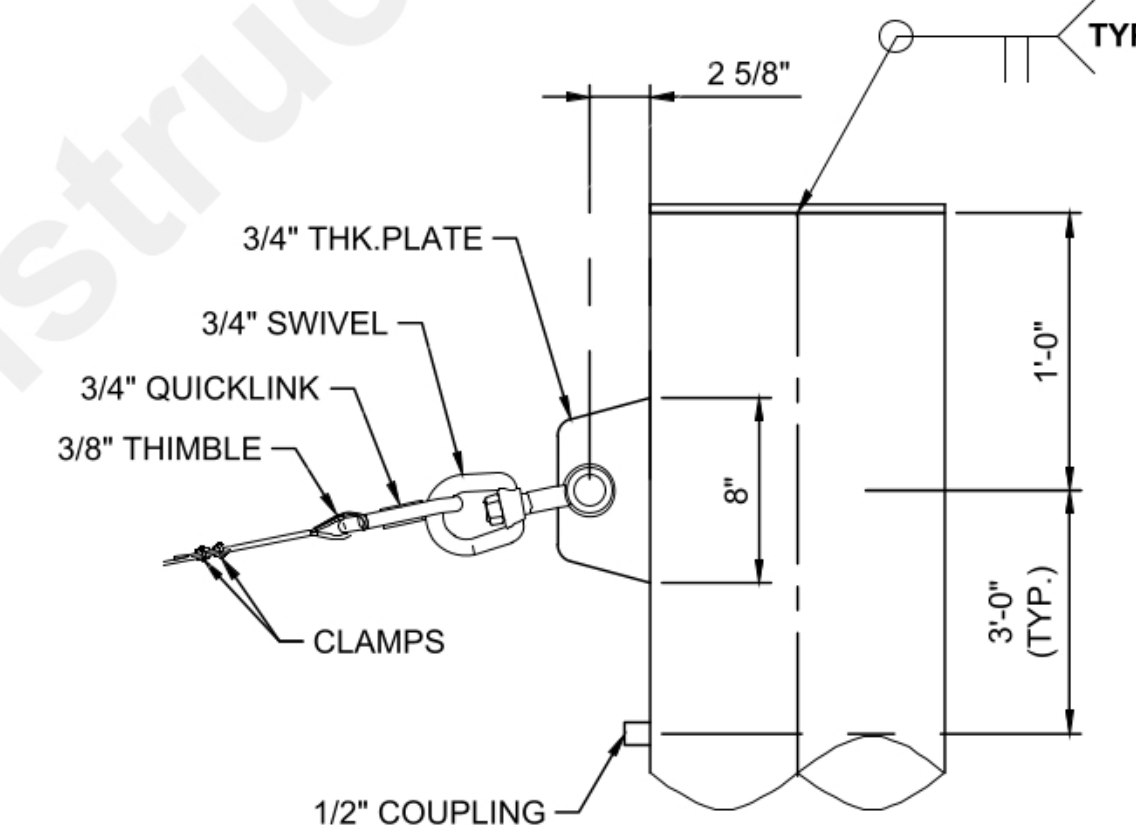
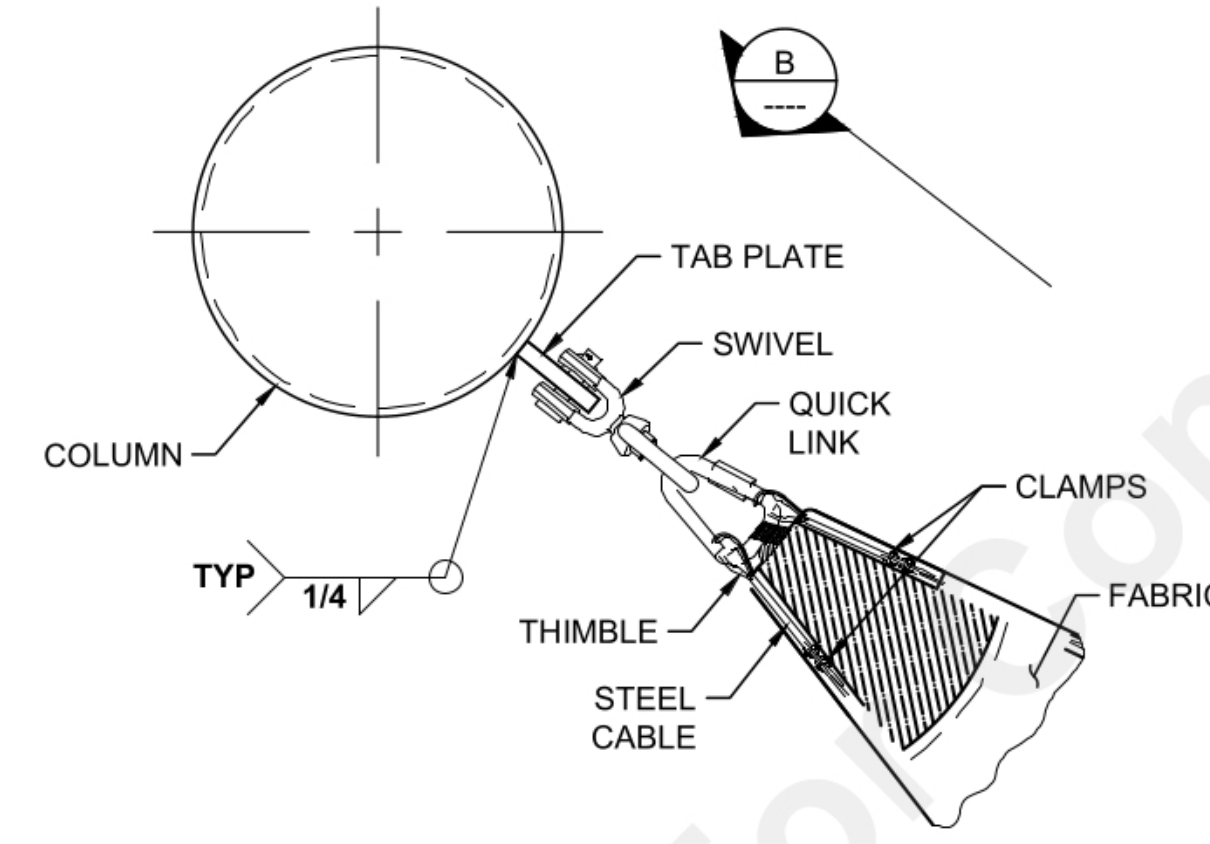
FRONT ELEVATION



SIDE ELEVATION



PLAN NORTH
FOR TRUE NORTH SEE CUSTOMER'S SITE PLAN



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
CIVIC CENTER PARK-SUPPLY (PALM DESERT)

LOCATION:
PALM DESERT CA

PROJECT NUMBER:
96049

STRUCTURE TYPE:
JOINED 4-PT. SAILS FULL CUSTOM

SIZE:
SEE PAGE 2000

SCALE: AS NOTED

DRAWING SIZE: **B**

REV	DATE	DRW	CHK	ENG	MHB	RM	MSM	DESCRIPTION	
								NC	REV
	08/12/25							FULL CUSTOM	

Eng. By : MHB 08/12/25
Design By : MSM 08/12/25
Approved By : RM-HH 08/12/25

DRAWING DESCRIPTION:
VIEWS AND DETAILS

DWG. **96049-3.0**

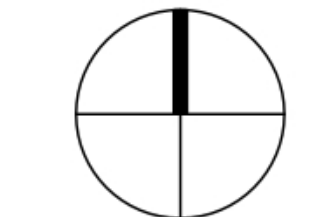
PAGE **2000**

REV. **NC**

REINFORCED CONCRETE NOTES

- CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS, SHALL BE AS FOLLOWS:
 - 28 DAY STRENGTH: 2500 PSI
 - SLUMP: 3-5
 - PORTLAND CEMENT SHALL CONFORM TO C-150
 - AGGREGATE SHALL CONFORM TO ASTM C-33
- ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 5

PLAN NORTH



FOR TRUE NORTH
SEE CUSTOMER'S
SITE PLAN

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
CITY OF PALM DESERT

PROJECT NAME:
**CIVIC CENTER
PARK-SUPPLY (PALM DESERT)**

LOCATION:
**PALM DESERT
CA**

PROJECT NUMBER:
96049

STRUCTURE TYPE:
**JOINED 4-PT.SAILS
FULL CUSTOM**

SIZE:
SEE PAGE 2000

SCALE : AS NOTED

DRAWING SIZE:
B

FLAME RETARDANT

Fabric Registration
LICENSE NUMBER: F-027701
COMMERCIAL HEAVY 430 FR

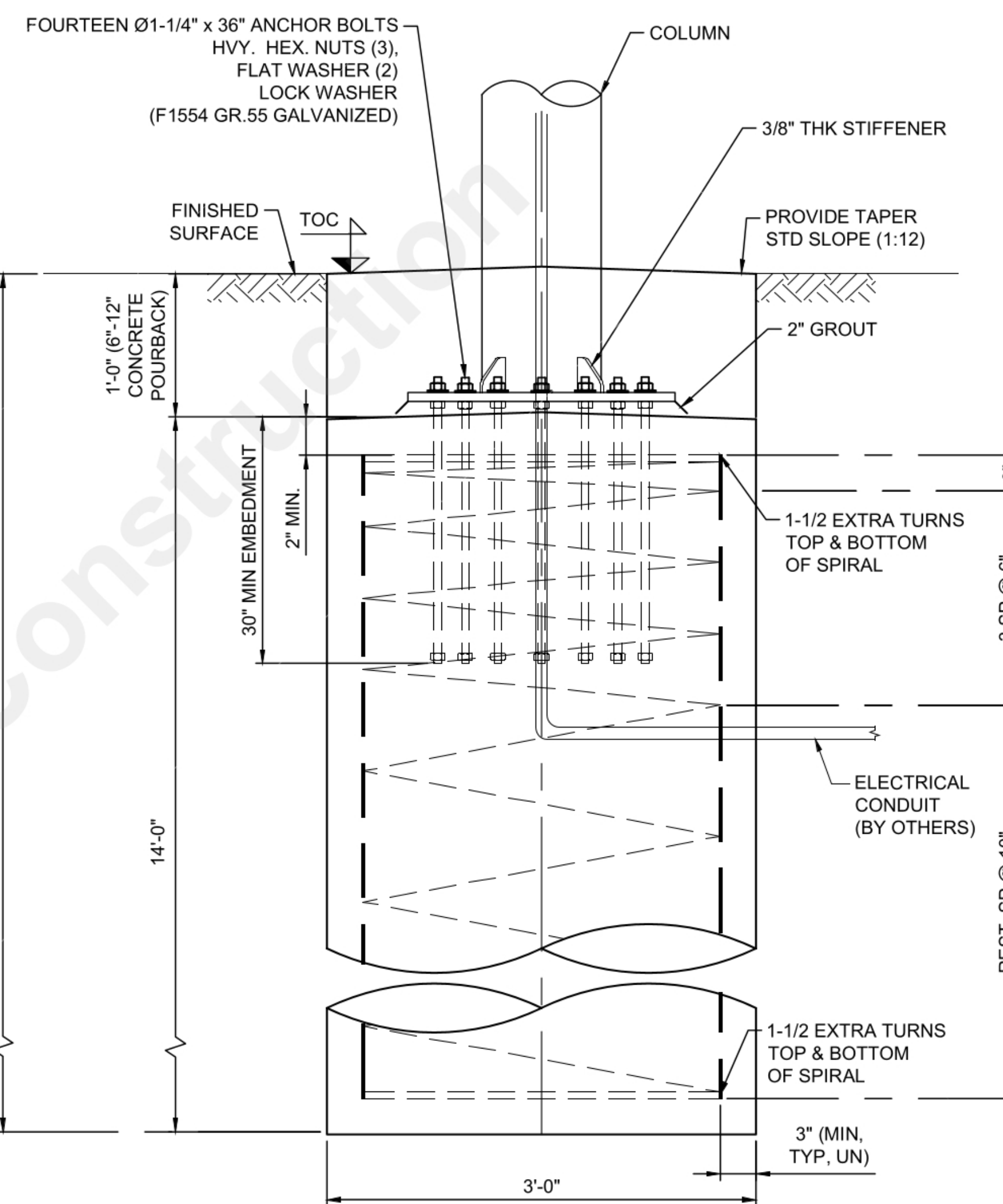
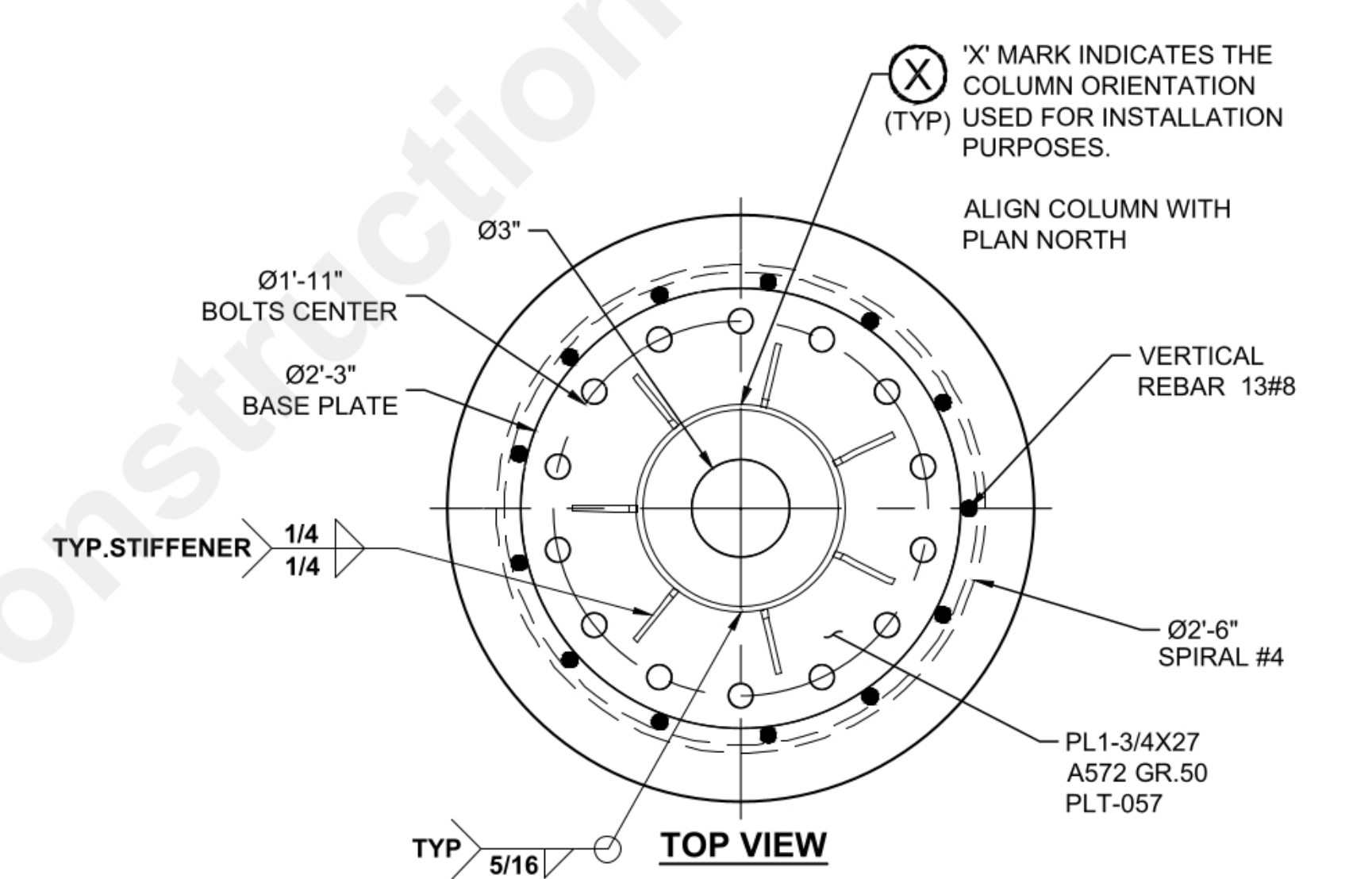
Product Marketed by:
GALE PACIFIC LTD
 145 WOODLANDS DRIVE
 BRAESIDE, AUSTRALIA 3195, Issue Date : 04/09/2025
 Expiration Date : 06/30/2026

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

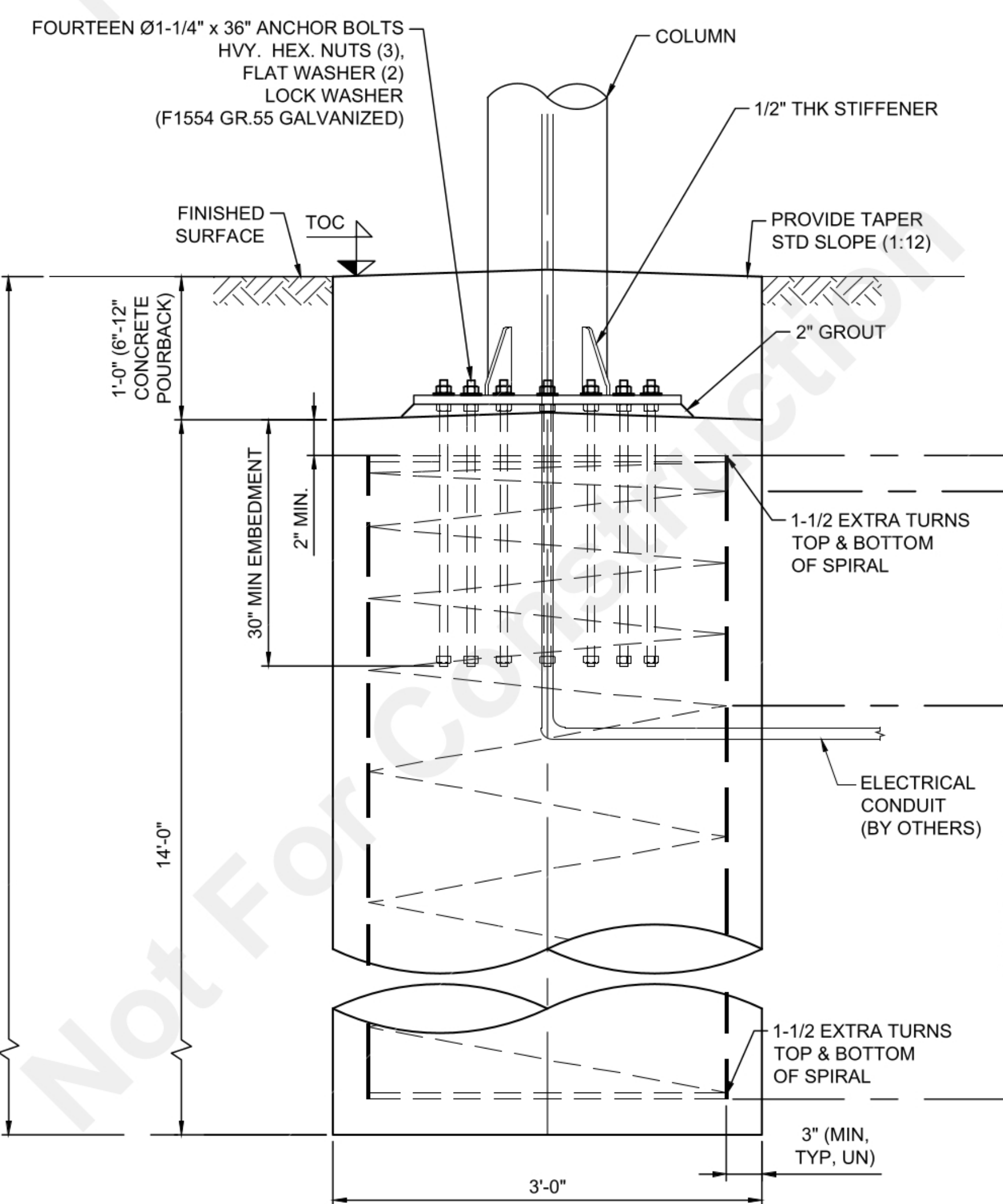
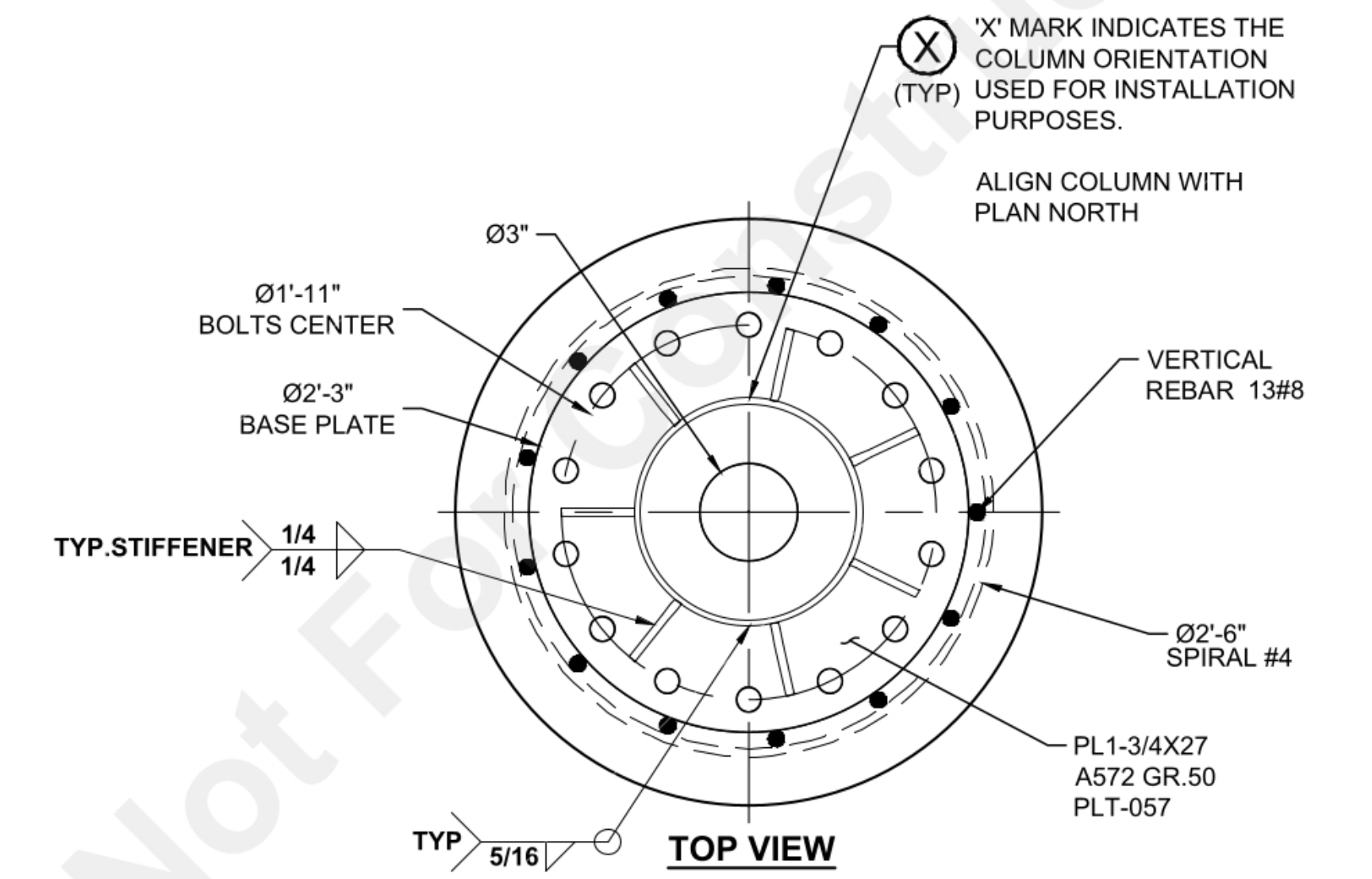
CWalker
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Patricia Setter
Reviewed and Approved By Patricia Setter
Program Coordinator
Fire Engineering & Investigations Division

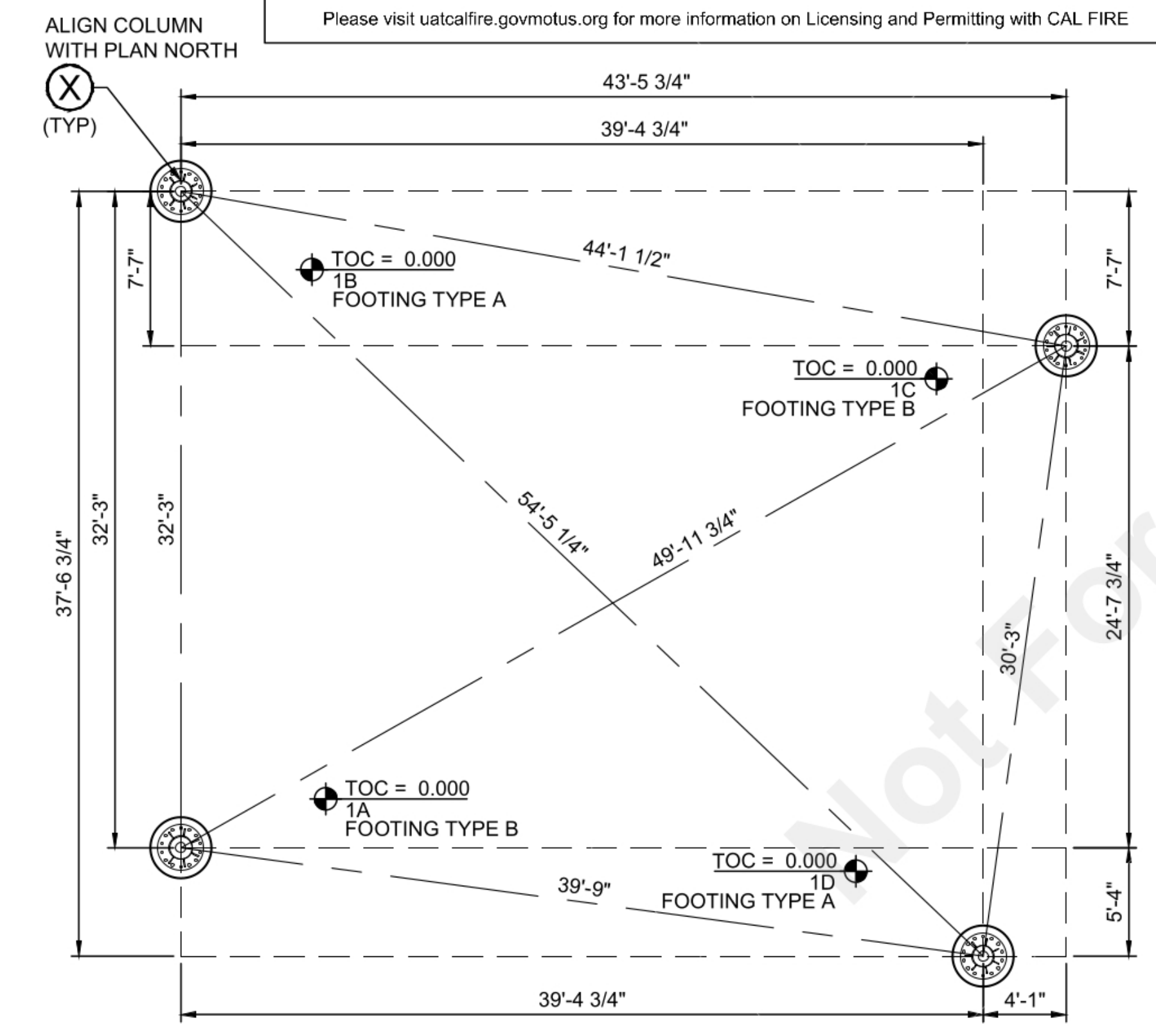
OFFICE OF THE STATE FIRE MARSHAL
Please visit uatcalfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE



FOOTING TYPE A Ø3'-0" X 14'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES

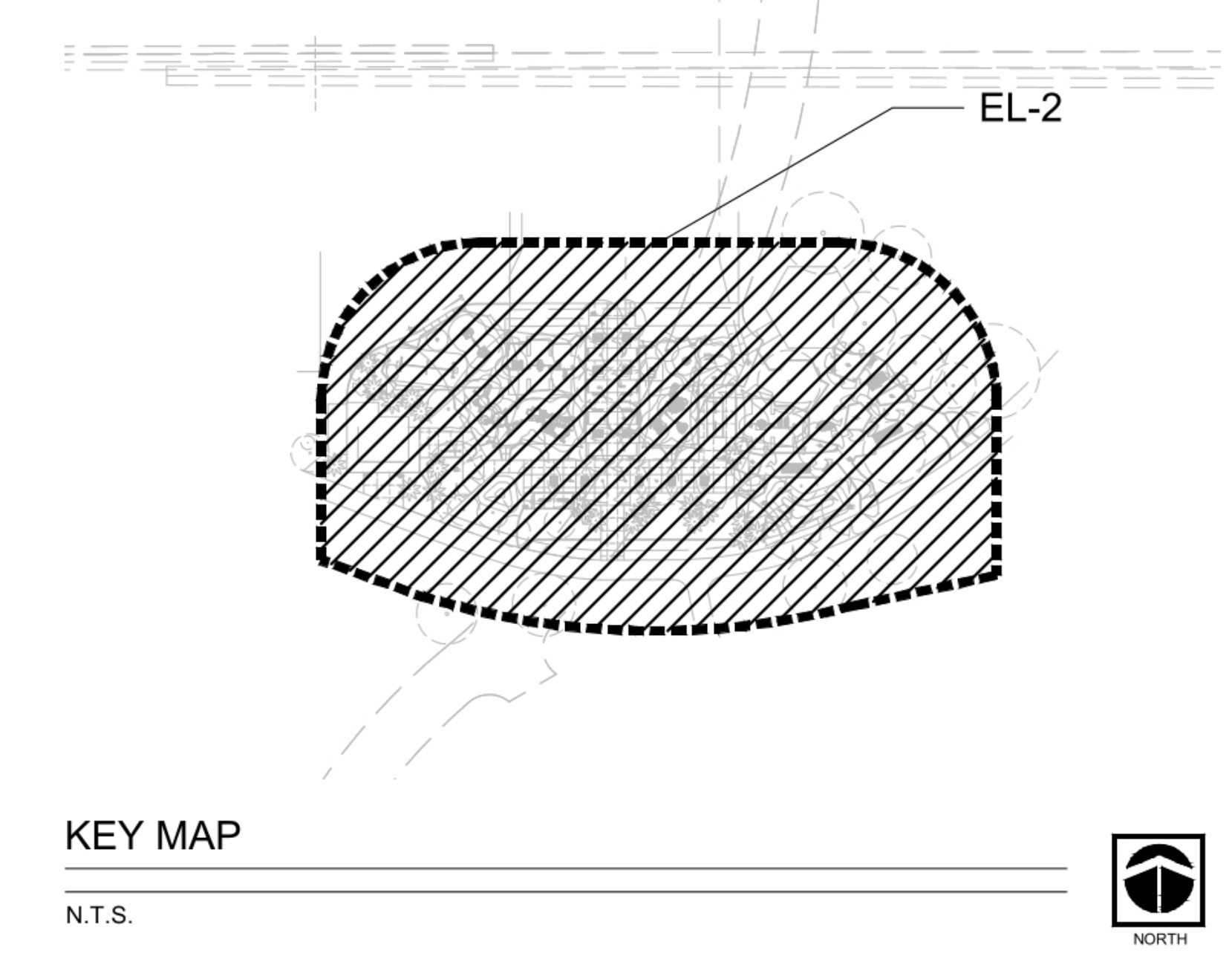
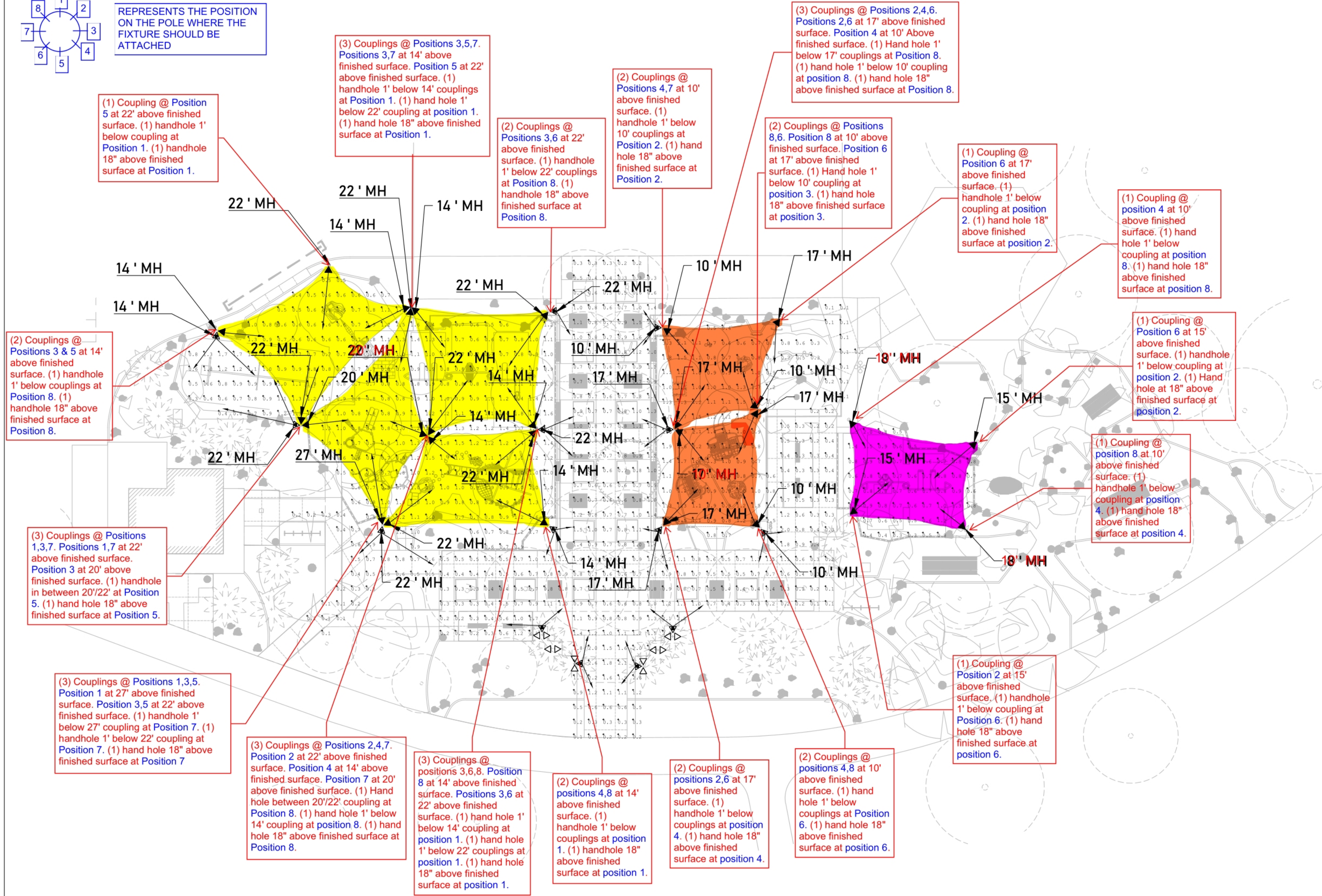
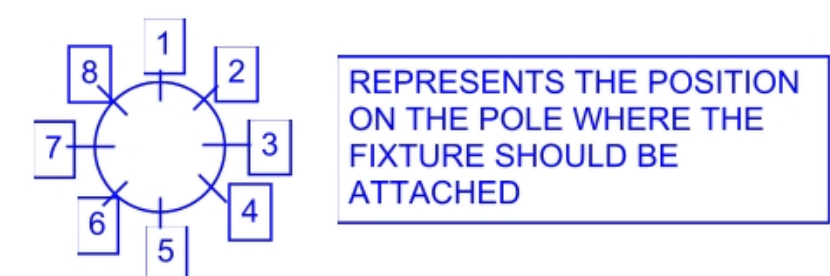


FOOTING TYPE B Ø3'-0" X 14'-0" S D
(RBP-RECESSED BASE PLATE)
USE FOR NON-CONSTRAINED CASES



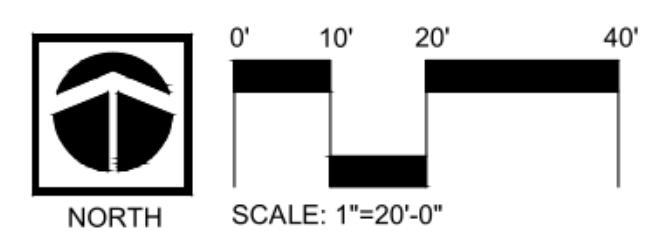
FOUNDATION LOCATION LAYOUT
(ELEVATIONS ARE IN FEET)
(FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS)

REV	DATE	DRW	CHK	ENG
08/12/25				
NC				
Eng. By : MHB 08/12/25 Design By : MSM 08/12/25 Approved By : RM-HH 08/12/25				
DRAWING DESCRIPTION:				
FOOTING DETAILS				
DWG.		96049-3.0		
PAGE		3000		
REV.		NC		



- All hand holes to be 6"x4" (if column diameter allows)
- All columns to have a hand hole at 18" above finished surface.
- All Couplings to be Female 1/2" NPT.
- All Couplings to protrude from each respective column by 1/2"
- All Couplings to be 3' below each respective fabric connection

PHOTOMETRIC STUDY



SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	



VCL
Visual Concepts Lighting
PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE DATE:
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE:

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PHOTOMETRIC STUDY
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET EL-3
OF SHEETS 5
CITY FILE NUMBER PG XX-XXXX

CITY OF PALM DESERT

CIVIC CENTER PARK

PLAYGROUND IMPROVEMENTS

CIVIC CENTER DRIVE, PALM DESERT, CA 92211

PROJECT DIRECTORY

OWNER:
 CITY OF PALM DESERT
 SHAWN MUIR, COMMUNITY SERVICES MANAGER
 760-776-6481
 EMAIL: SMUIR@PALMDESERT.GOV
 73510 FRED WARING DRIVE
 PALM DESERT, CA, 92260

LANDSCAPE ARCHITECT:
 IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 SHELTER ISLAND DRIVE #105-417
 SAN DIEGO, CA 92106
 619-795-7603
 CONTACT: TIM JACHLEWSKI
 EMAIL: TIM@INSITELANDARCH.COM
 ALEX KOUTZOUKIS
 EMAIL: ALEX@INSITELANDARCH.COM

CIVIL ENGINEER:
 MICHAEL BAKER INTERNATIONAL
 75-410 GERALD FORD DRIVE
 PALM DESERT, CA
 PHONE: 760-535-7186
 CONTACT: FRANCISCO ALCOCER
 EMAIL: FRANCISCO.ALCOCER@MBAKERINTL.COM

SHEET INDEX

DWG NO.	SHEET NO.	DESCRIPTION
1	L.0-1	TITLE SHEET
2	L.1-1	LANDSCAPE CONSTRUCTION PLAN
3	L.1-2	LANDSCAPE CONSTRUCTION PLAN
4	L.1-3	LANDSCAPE CONSTRUCTION DETAILS
5	L.1-4	LANDSCAPE CONSTRUCTION DETAILS
6	L.1-5	LANDSCAPE CONSTRUCTION DETAILS
7	L.1-6	PLAY EQUIPMENT PLAN
8	L.1-7	SHADE SAIL PLAN
9	L.1-8	STRUCTURE PAINTING PLAN
10	L.1-9	STRUCTURE PAINTING TYPICAL DETAIL
11	L.1-10	LANDSCAPE CONSTRUCTION SPECS.
12	L.2-1	LANDSCAPE PLANTING PLAN
13	L.2-2	LANDSCAPE PLANTING PLAN
14	L.2-3	LANDSCAPE PLANTING SCHEDULE & NOTES
15	L.2-4	LANDSCAPE PLANTING DETAILS
16	L.2-5	LANDSCAPE PLANTING SPECIFICATIONS
17	L.2-6	LANDSCAPE PLANTING SPECIFICATIONS
18	L.2-7	LANDSCAPE MAINTENANCE SPECIFICATIONS
19	L.2-8	LANDSCAPE MAINTENANCE SPECIFICATIONS
20	L.3-1	IRRIGATION PLAN
21	L.3-2	IRRIGATION PLAN
22	L.3-3	IRRIGATION LEGEND, CALCS, & NOTES
23	L.3-4	IRRIGATION DETAILS
24	L.3-5	IRRIGATION DETAILS
25	L.3-6	IRRIGATION SPECIFICATIONS
26	L.3-7	IRRIGATION SPECIFICATIONS

REFER TO PRECISE GRADING AND DRAINAGE PLANS FOR DEMOLITION SHEETS AND GRADING AND DRAINAGE SHEETS
 REFER SITE LIGHTING AND ELECTRICAL PLANS FOR LIGHTING AND ELECTRICAL

ATTACHMENTS:

- MANUFACTURER'S ENGINEERED SHOP DRAWINGS FOR SHADE SAILS
- MANUFACTURER'S ENGINEERED SHOP DRAWINGS FOR PLAYGROUND EQUIPMENT

CITY PLAN REVIEW SUBMITTAL DATES:

04/10/25	1ST	CONCEPTUAL PLAN
04/23/25	2ND	30% CDS
05/02/25	3RD	90% CDS (R1)
05/15/25	4TH	95% CDS (R2)
05/20/25	5TH	95% CDS (R3)
06/11/25	6TH	100% CDS
06/16/25	7TH	100% CDS (R1)
06/23/25	8TH	100% CDS (R2)

SCOPE OF WORK:

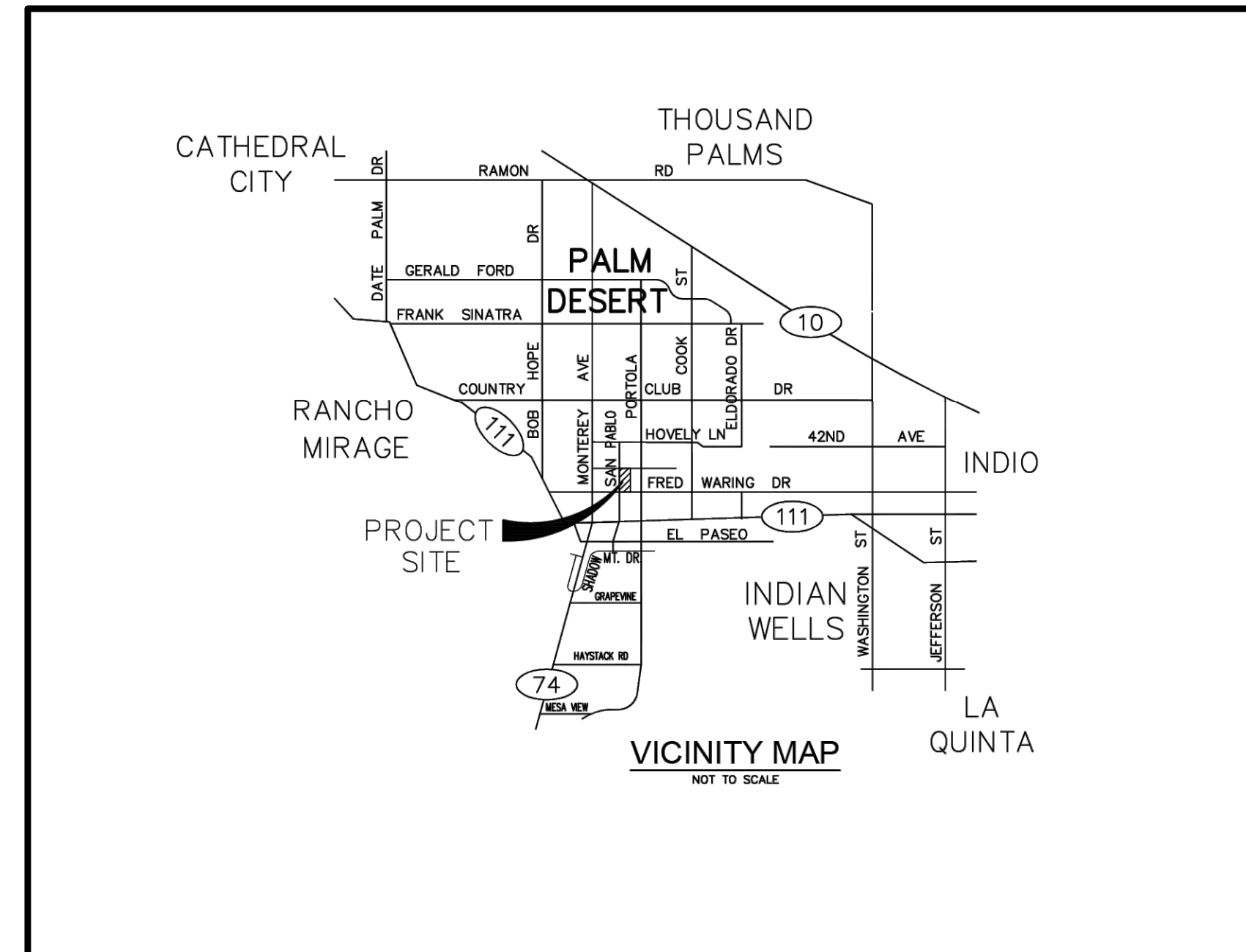
INSTALLATION OF A NEW PLAY EQUIPMENT, SHADE SAILS, BBQ GRILLS, TRASH RECEPTACLES, BENCHES, PICNIC TABLES, NEW CONCRETE WALKWAYS

NOTE: THE PROJECT IS SUBJECT TO 2022 CALIFORNIA FIRE CODE AND BUILDING CODE.

L.0-1

APN NUMBERS

LEGAL DESCRIPTION



VICINITY MAP
NOT TO SCALE

CONSTRUCTION OBSERVATION SCHEDULE

LANDSCAPE CONSTRUCTION OBSERVATIONS:	NOTIFICATION TIME
1. PRE-CONSTRUCTION CONFERENCE	7 DAYS
2. CONCRETE FORMWORK AND SUB-GRADE	48 HOURS
3. CONCRETE FOOTINGS	48 HOURS
4. CONCRETE FINISH AND ELEVATIONS	48 HOURS
5. UTILITY TRENCHES	48 HOURS
6. FINAL PUNCH WALK	7 DAYS

CONTRACTOR MUST BE ON SITE FOR ALL OBSERVATIONS.

AT THEIR DISCRETION, THE LANDSCAPE ARCHITECT MAY WAIVE OBSERVATIONS AND MAY INSTEAD REQUEST DIGITAL PHOTOS FROM THE CONTRACTOR.

MANUFACTURER LEAD TIMES

CONTRACTOR SHALL VERIFY LEAD TIMES WITH ALL MANUFACTURERS UPON RECEIPT OF CONTRACT AND SHALL ORDER ALL PRODUCTS WITH AMPLE TIME TO MEET SCHEDULE UPON THE CONSULTANT AND CITY APPROVAL OF THE PRODUCT SUBMITTALS.

CITY PURCHASED ITEMS

THE FOLLOWING ITEMS HAVE BEEN PRE-PURCHASED BY THE CITY OF PALM DESERT:

- USA SHADE - SHADE SAILS
- LANDSCAPE STRUCTURES PLAY EQUIPMENT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE SHIPMENTS OF THE ITEMS DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ASSEMBLY AND INSTALLATION INCLUDING CONCRETE FOOTINGS, REINFORCEMENT, BOLTS, ACCESSORIES AND ANY AND ALL OTHER ITEMS AND LABOR NECESSARY FOR A COMPLETE AND FINISHED INSTALLATION OF THE ITEMS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.

AMERICANS WITH DISABILITIES ACT COMPLIANCE

- ALL SLOPES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE AMERICANS WITH DISABILITY ACT ACCESS GUIDE (A.D.A.A.G.) IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH A.D.A.A.G. AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE ENGINEER BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO A.D.A.A.G. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY A.D.A.A.G. ARE SUBJECT TO REJECTIONS BY THE OWNER AND MAY BE REQUIRED TO BE REMOVED AND REPLACED.
- SINCE THE CIVIL ENGINEER, LANDSCAPE ARCHITECT, OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUB-CONTRACTOR DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER, LANDSCAPE ARCHITECT, OR SURVEYOR ASSUMES NO RESPONSIBILITY FOR FINAL ACCEPTANCE OF A.D.A.A.G. RELATED ITEMS OF THIS PROJECT BY THE OWNER, ANY OTHER AUTHORITY OR OTHER AFFECTED PARTIES.

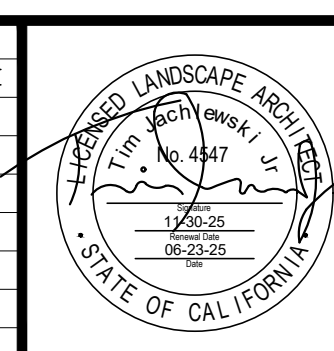
COMPLIANCE WITH A.D.A.A.G. CONSTRUCTION REQUIREMENTS WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THEIR SUB-CONTRACTOR(S).

HOLD HARMLESS & INDEMNIFICATION CLAUSE

CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER/DEVELOPER, THE COUNTY/CITY OF LOCAL JURISDICTION AND THE LANDSCAPE ARCHITECT AND ITS CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER/DEVELOPER, COUNTY/CITY OF LOCAL JURISDICTION AND THE LANDSCAPE ARCHITECT AND ITS CONSULTANTS.



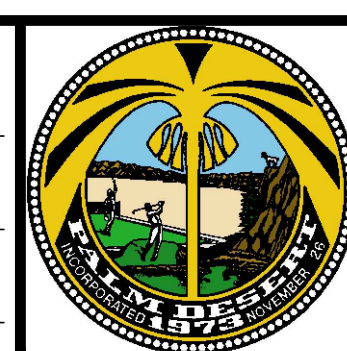
ENGINEER			CITY	
MARK	BY	DATE	APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JACHLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP: 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24 DATE: _____
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

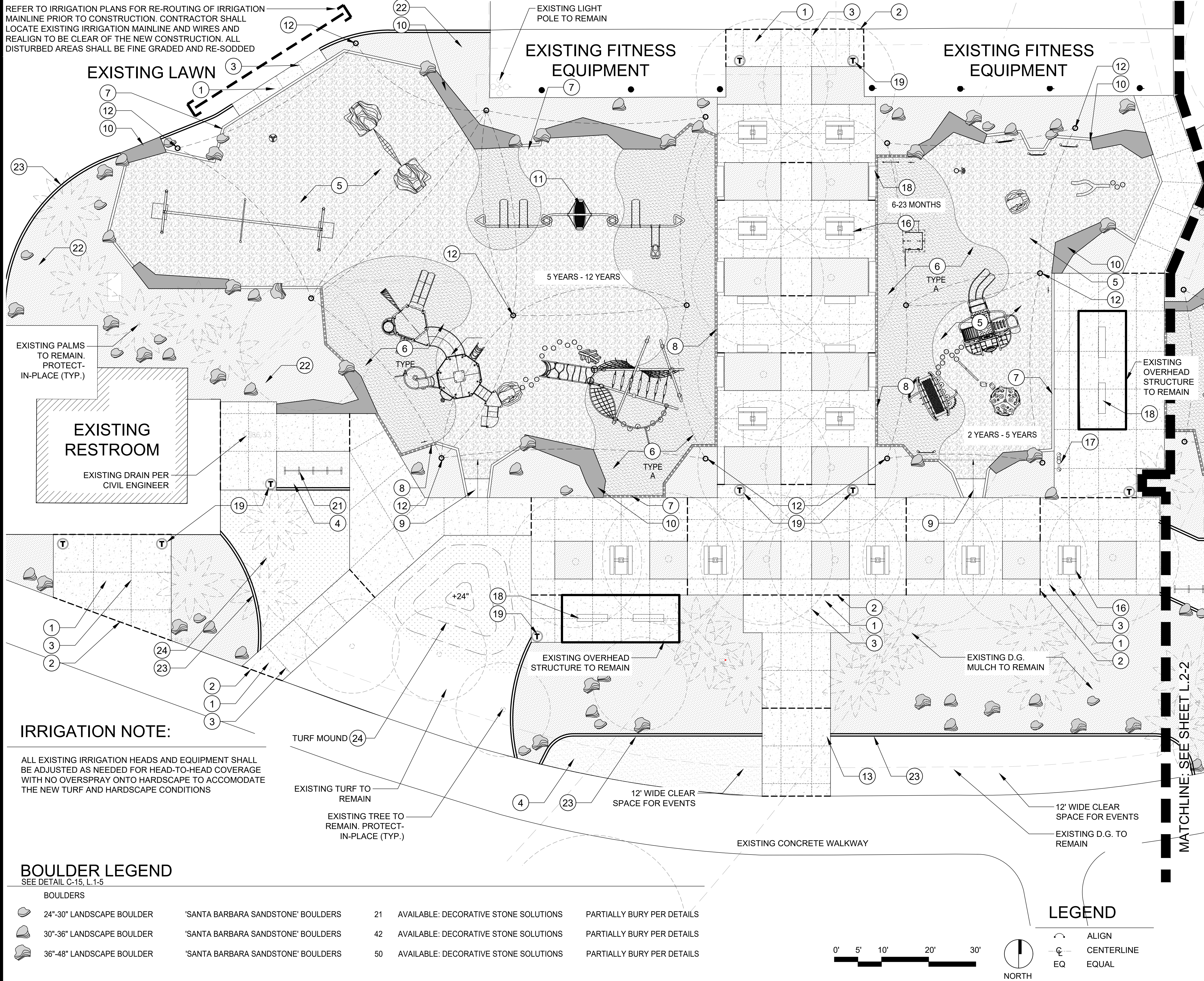
PLAN CHECKED BY:
 CIVIL _____
 TRAFFIC _____
 LANDSCAPE _____



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE TITLE SHEET
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET 1 OF SHEETS 26
 CITY FILE NUMBER PG XX-XXXX

REFER TO IRRIGATION PLANS FOR RE-ROUTING OF IRRIGATION MAINLINE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL LOCATE EXISTING IRRIGATION MAINLINE AND WIRES AND REALIGN TO BE CLEAR OF THE NEW CONSTRUCTION. ALL DISTURBED AREAS SHALL BE FINE GRADED AND RE-SODDED



CONSTRUCTION CALLOUTS

CALLOUT	DESCRIPTION	APPROXIMATE QUANTITY*
1	PAVING - CONCRETE TYPE 'A', COLOR: 'NATURAL GRAY', FINISH: TOPCAST #01, SEE DETAIL C-01, SHEET L.1-3	9,017 S.F.
2	PAVING - EXPANSION JOINT, SEE DETAIL C-02, SHEET L.1-3	LUMP SUM
3	PAVING - SAWCUT CONTROL JOINT, SEE DETAIL C-03, SHEET L.1-3	LUMP SUM
4	PAVING - STABILIZED DECOMPOSED GRANITE, COLOR: 'MATCH EXISTING', SEE DETAIL C-04, SHEET L.1-3	2,392 S.F.
5	SURFACING - ENGINEERED WOOD FIBER SAFETY SURFACE, SEE DETAIL C-06, SHEET L.1-4	6,416 S.F.
6	SURFACING - RUBBERIZED SAFETY SURFACE, SEE DETAIL C-09, SHEET L.1-4	4,381 S.F. 583 S.F.
7	PLAY AREA CURB AT WOOD FIBER SURFACE SEE DETAIL C-06, SHEET L.1-4	256 L.F.
8	PLAY AREA CURB AT RUBBERIZED SAFETY SURFACE SEE DETAIL C-09, SHEET L.1-4	345 L.F.
9	PLAY AREA RAMP SEE DETAIL C-07, SHEET L.1-4	LUMP SUM
10	POURED IN PLACE SEAT WALLS SEE DETAIL C-08, SHEET L.1-4	678 S.F.
11	PLAY EQUIPMENT BY LANDSCAPE STRUCTURES SEE DETAIL C-16, SHEET L.1-6	LUMP SUM
12	SHADE SAILS & POSTS BY USA SHADE SEE DETAIL C-17, SHEET L.1-7	LUMP SUM
13	INSTALL WIND TURBINE BENCH FEATURE PROVIDED BY CITY	1
14	FURNISHING - HOT COAL RECEPTACLE SEE DETAIL C-12, SHEET L.1-5	3
15	SALVAGE AND RELOCATE EXISTING CONCRETE PICNIC TABLES	8
16	FURNISHING - PICNIC TABLE SEE DETAIL C-13, SHEET L.1-5	7 NEW 4 SALVAGED
17	FURNISHING - DRINKING FOUNTAIN SEE DETAIL C-10 & C-11, SHEET L.1-4	1
18	FURNISHING - BENCH WITHOUT BACK SEE DETAIL C-14, SHEET L.1-5	14
19	SALVAGE AND RELOCATE TRASH RECEPTACLE	11
20	SALVAGE AND RELOCATE EXISTING BARBECUE	3
21	SALVAGE AND RELOCATE EXISTING BIKE RACKS INSTALL ON 8" W. BY 12" DEPTH CONCRETE HEADER	2
22	MULCH - NON-STABILIZED DECOMPOSED GRANITE, COLOR: 'BODIE' (OR APPROVED EQUAL) BY DECORATIVE STONE SOLUTIONS, SEE DETAIL C-05, SHEET L.1-3	40,764 S.F. 13,831
23	CONCRETE HEADER SEE DETAILS C-04, L.1-3	1,022 L.F.
24	TURF - SOD (PER CITY STANDARD SPECIES)	3,331 S.F.

* QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION.

CONSTRUCTION NOTES

- THESE PLANS WERE PREPARED USING THE SURVEY AND BASE INFORMATION PROVIDED BY MBI. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE PLANS COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF RECORD TO WORK OUT A SOLUTION AGREEABLE TO THE OWNER. IF THE CONTRACTOR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT OF RECORD OF THE DISCREPANCIES PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE LANDSCAPE ARCHITECT OF RECORD TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. THE CONTRACTOR SHALL CLEARLY MARK ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PRESERVING ALL UTILITIES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRING DAMAGED UTILITIES AT NO ADDITIONAL COST TO OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION WITHIN OR OUTSIDE THE PROJECT LIMIT OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL CONDUIT AND IRRIGATION SLEEVES WITH OTHER CONSTRUCTION TRADE CONTRACTORS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

L.1-1

IRRIGATION NOTE:

ALL EXISTING IRRIGATION HEADS AND EQUIPMENT SHALL BE ADJUSTED AS NEEDED FOR HEAD-TO-HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE TO ACCOMMODATE THE NEW TURF AND HARDSCAPE CONDITIONS

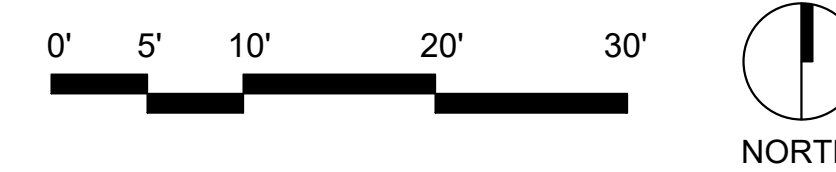
BOULDER LEGEND

SEE DETAIL C-15, L.1-5

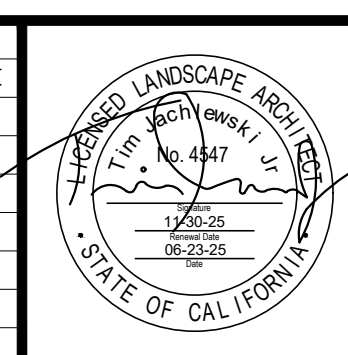
BOULDERS	DESCRIPTION	QUANTITY	NOTES
24"-30" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	21	AVAILABLE: DECORATIVE STONE SOLUTIONS PARTIALLY BURY PER DETAILS
30"-36" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	42	AVAILABLE: DECORATIVE STONE SOLUTIONS PARTIALLY BURY PER DETAILS
36"-48" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	50	AVAILABLE: DECORATIVE STONE SOLUTIONS PARTIALLY BURY PER DETAILS

LEGEND

- ALIGN
- CENTERLINE
- EQUAL



ENGINEER	MARK	BY	DATE	REVISIONS	CITY	APPR.	DATE



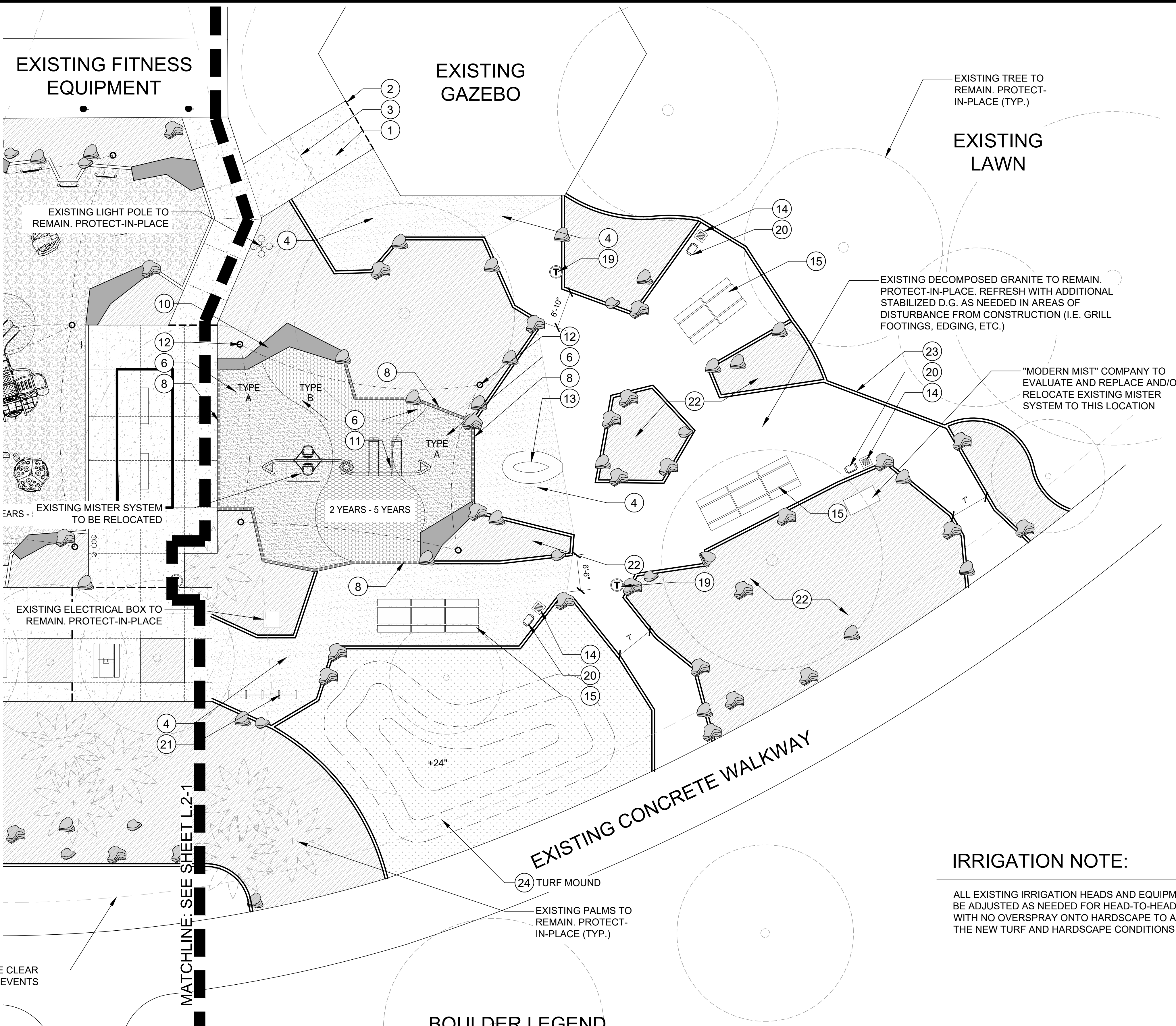
IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.in-sitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JADLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:
 CIVIL _____
 TRAFFIC _____
 LANDSCAPE _____

CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET **2**
 OF SHEETS **26**
 CITY FILE NUMBER
 PG XX-XXXX



CONSTRUCTION CALLOUTS

Symbol	Description	APPROXIMATE QUANTITY*
[Pattern 1]	1 PAVING - CONCRETE TYPE 'A', COLOR: 'NATURAL GRAY', FINISH: TOPCAST #01, SEE DETAIL C-01, SHEET L.1-3	9,017 S.F.
[Pattern 2]	2 PAVING - EXPANSION JOINT, SEE DETAIL C-02, SHEET L.1-3	LUMP SUM
[Pattern 3]	3 PAVING - SAWCUT CONTROL JOINT, SEE DETAIL C-03, SHEET L.1-3	LUMP SUM
[Pattern 4]	4 PAVING - STABILIZED DECOMPOSED GRANITE, COLOR: 'MATCH EXISTING', SEE DETAIL C-04, SHEET L.1-3	2,392 S.F.
[Pattern 5]	5 SURFACING - ENGINEERED WOOD FIBER SAFETY SURFACE, SEE DETAIL C-06, SHEET L.1-4	6,416 S.F.
[Pattern 6]	6 SURFACING - RUBBERIZED SAFETY SURFACE, SEE DETAIL C-09, SHEET L.1-4	4,381 S.F. 583 S.F.
[Pattern 7]	7 PLAY AREA CURB AT WOOD FIBER SURFACE SEE DETAIL C-06, SHEET L.1-4	256 L.F.
[Pattern 8]	8 PLAY AREA CURB AT RUBBERIZED SAFETY SURFACE SEE DETAIL C-09, SHEET L.1-4	345 L.F.
[Pattern 9]	9 PLAY AREA RAMP SEE DETAIL C-07, SHEET L.1-4	LUMP SUM
[Pattern 10]	10 POURED IN PLACE SEAT WALLS SEE DETAIL C-08, SHEET L.1-4	678 S.F.
[Pattern 11]	11 PLAY EQUIPMENT BY LANDSCAPE STRUCTURES SEE DETAIL C-16, SHEET L.1-6	LUMP SUM
[Pattern 12]	12 SHADE SAILS & POSTS BY USA SHADE SEE DETAIL C-17, SHEET L.1-7	LUMP SUM
[Pattern 13]	13 INSTALL WIND TURBINE BENCH FEATURE PROVIDED BY CITY	1
[Pattern 14]	14 FURNISHING - HOT COAL RECEPTACLE SEE DETAIL C-12, SHEET L.1-5	3
[Pattern 15]	15 SALVAGE AND RELOCATE EXISTING CONCRETE PICNIC TABLES	8
[Pattern 16]	16 FURNISHING - PICNIC TABLE SEE DETAIL C-13, SHEET L.1-5	7 NEW 4 SALVAGED
[Pattern 17]	17 FURNISHING - DRINKING FOUNTAIN SEE DETAIL C-10 & C-11, SHEET L.1-4	1
[Pattern 18]	18 FURNISHING - BENCH WITHOUT BACK SEE DETAIL C-14, SHEET L.1-5	14
[Pattern 19]	19 SALVAGE AND RELOCATE TRASH RECEPTACLE	11
[Pattern 20]	20 SALVAGE AND RELOCATE EXISTING BARBECUE	3
[Pattern 21]	21 SALVAGE AND RELOCATE EXISTING BIKE RACKS INSTALL ON 8" W. BY 12" DEPTH CONCRETE HEADER	2
[Pattern 22]	22 MULCH - NON-STABILIZED DECOMPOSED GRANITE, COLOR: 'BODIE' (OR APPROVED EQUAL) BY DECORATIVE STONE SOLUTIONS, SEE DETAIL C-05, SHEET L.1-3	13,751 S.F.
[Pattern 23]	23 CONCRETE HEADER SEE DETAILS C-04, L.1-3	1,022 L.F.
[Pattern 24]	24 TURF - SOD (PER CITY STANDARD SPECIES)	3,331 S.F.

* QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION.

CONSTRUCTION NOTES

- THESE PLANS WERE PREPARED USING THE SURVEY AND BASE INFORMATION PROVIDED BY MBI. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE PLANS COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF RECORD TO WORK OUT A SOLUTION AGREEABLE TO THE OWNER. IF THE CONTRACTOR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT OF RECORD OF THE DISCREPANCIES PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE LANDSCAPE ARCHITECT OF RECORD TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. THE CONTRACTOR SHALL CLEARLY MARK ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PRESERVING ALL UTILITIES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRING DAMAGED UTILITIES AT NO ADDITIONAL COST TO OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION WITHIN OR OUTSIDE THE PROJECT LIMIT OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL CONDUIT AND IRRIGATION SLEEVES WITH OTHER CONSTRUCTION TRADE CONTRACTORS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

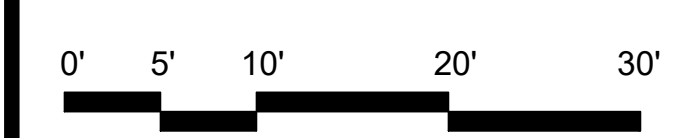
IRRIGATION NOTE:

ALL EXISTING IRRIGATION HEADS AND EQUIPMENT SHALL BE ADJUSTED AS NEEDED FOR HEAD-TO-HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE TO ACCOMMODATE THE NEW TURF AND HARDSCAPE CONDITIONS

BOULDER LEGEND

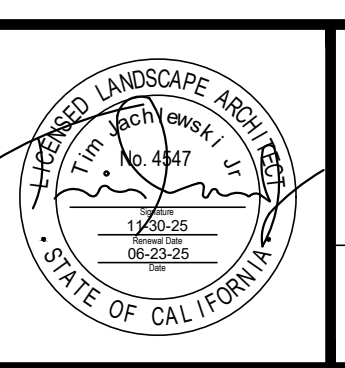
SEE DETAIL C-15, L.1-5

BOULDERS					
[Symbol]	24"-30" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	21	AVAILABLE: DECORATIVE STONE SOLUTIONS	PARTIALLY BURY PER DETAILS
[Symbol]	30"-36" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	42	AVAILABLE: DECORATIVE STONE SOLUTIONS	PARTIALLY BURY PER DETAILS
[Symbol]	36"-48" LANDSCAPE BOULDER	'SANTA BARBARA SANDSTONE' BOULDERS	50	AVAILABLE: DECORATIVE STONE SOLUTIONS	PARTIALLY BURY PER DETAILS



DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE CALL 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

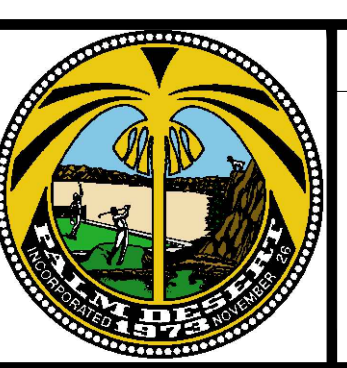
ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	



IN-SITE LANDSCAPE ARCHITECTURE, INC.
2907 Shelter Island Drive #105-417
San Diego, CA 92106 619-795-7603
www.insitelandscape.com
PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY JADLEWSKI, R. LLA #4547 DATE: 06-23-25
EXP. 11-30-25

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: _____ DATE: _____

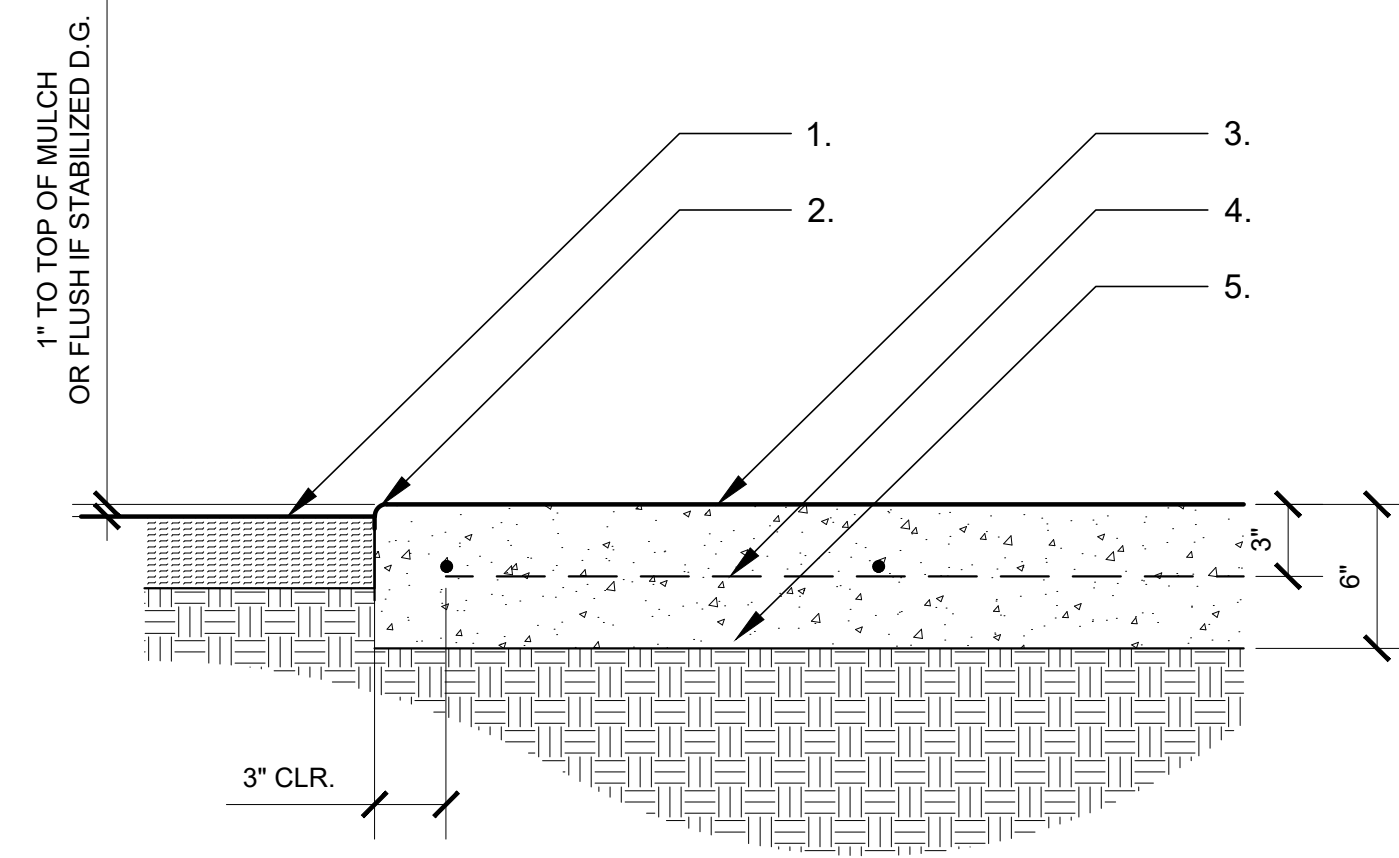
PLAN CHECKED BY:	
CIVIL	_____
TRAFFIC	_____
LANDSCAPE	_____



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION PLAN
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	3
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

L.1-2

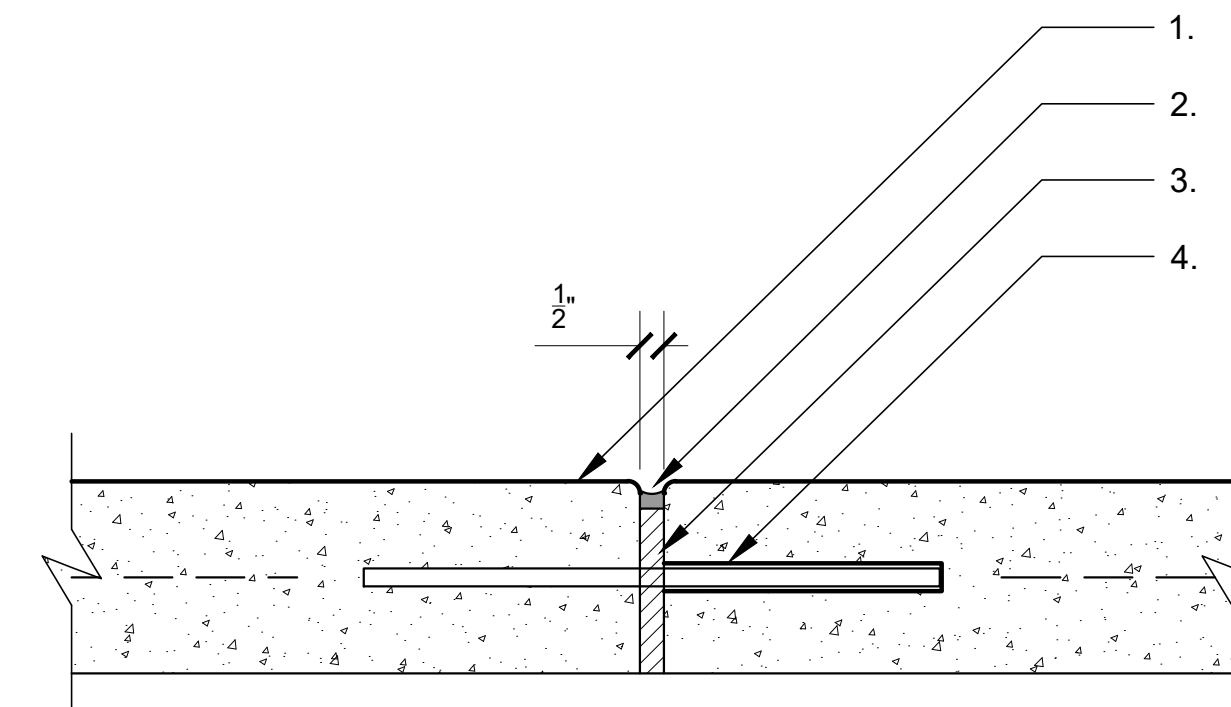


1. PLANTING AREA - TOP OF MULCH 1" LOWER THAN CONCRETE FINISH GRADE (OR FLUSH IF STABILIZED D.G.)
2. 1/2" RADIUS
3. CAST-IN-PLACE CONCRETE SLAB, SEE PLANS FOR FINISH AND COLOR
4. #3 REBAR @ 18" O.C. BOTH WAYS, CENTERED IN SLAB
5. SUBGRADE PREPARATION AND COMPACTION PER GEOTECHNICAL ENGINEERING REPORT

CONCRETE PAVEMENT

C-01

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



1. CAST-IN-PLACE CONCRETE PAVING, 1/4" RADIUS AT JOINT
2. JOINT SEALANT, SIKAFLEX-2C NS TG OR APPROVED EQUAL, COLOR TO MATCH PAVEMENT, INSTALL PER MANUFACTURER'S REQUIREMENTS, APPLY LIGHT SILICA SAND FINISH FOLLOWING INSTALLATION
3. COMPRESSIBLE FELT JOINT FILLER (FULL DEPTH OF PAVEMENT, JOINT SHALL BE STRAIGHT AND TRUE)
4. 12" LONG #3 STEEL DOWELS 24" O.C., SLEEVE OR GREASE ONE END, (OMIT DOWELS AT SITE AND BUILDING WALLS UNLESS REQUIRED BY GEOTECHNICAL ENGINEERING REPORT)

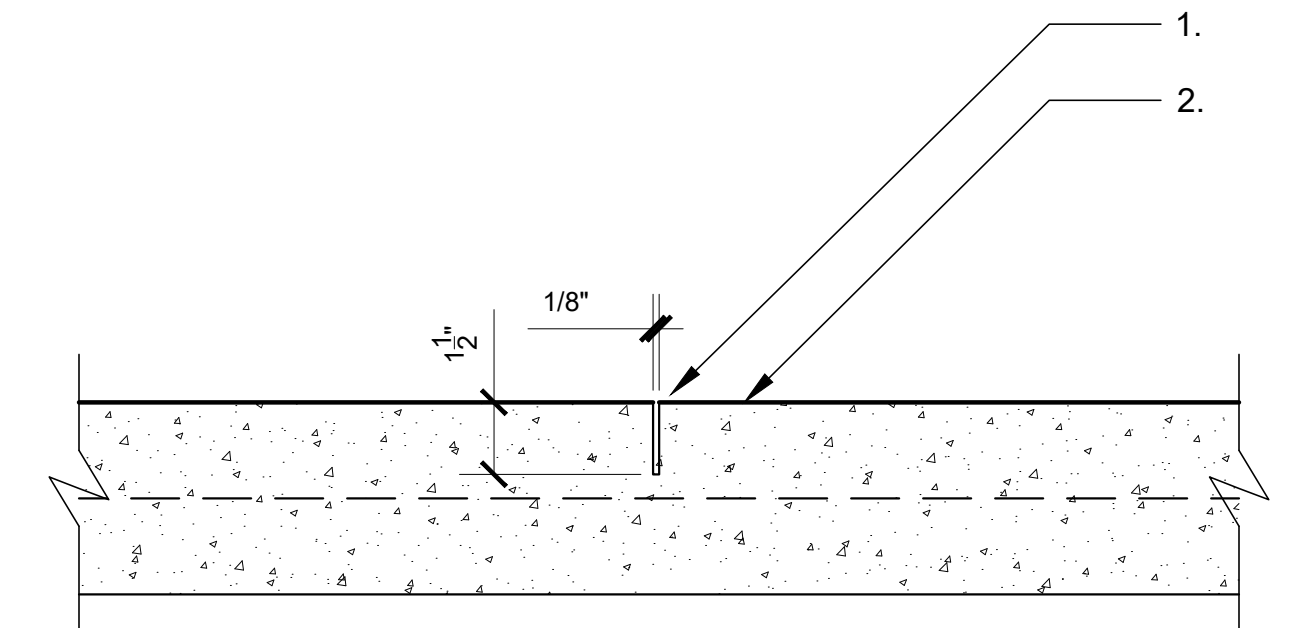
NOTE: IF NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, CORE DRILL EXISTING CONCRETE TO SET STEEL DOWELS

EXPANSION JOINT

IN CONCRETE PAVEMENT

C-02

SCALE: 3" = 1'-0"



1. SAWCUT SCORE JOINT, STRAIGHT AND TRUE
2. CAST-IN-PLACE CONCRETE PAVING

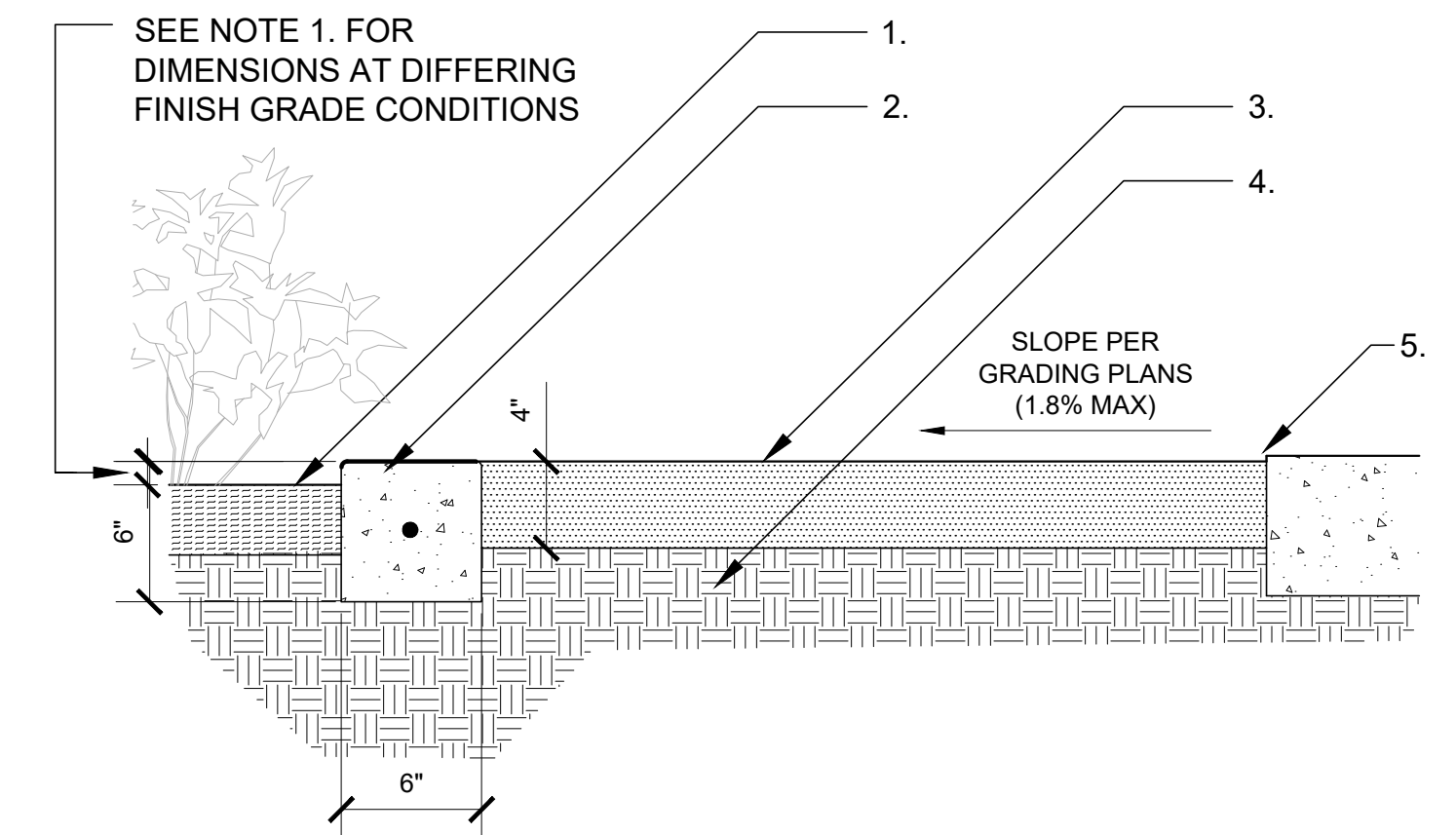
NOTE: SAWCUTTING SHALL BE COMPLETED AFTER CONCRETE CAN SUPPORT EQUIPMENT FOR A CLEAN CUT, BUT BEFORE SHRINKAGE CRACKING OCCURS

SAWCUT CONTROL JOINT (1/8")

IN CONCRETE PAVEMENT

C-03

SCALE: 3" = 1'-0"



1. ADJACENT CONDITIONS AT LANDSCAPE OR LAWN AREAS
A. TOP OF LOOSE D.G. MULCH: 1" LOWER THAN TOP OF EDGING
B. FINISH GRADE OF LAWN: 1" LOWER THAN TOP OF EDGING
2. CONCRETE HEADER WITH #3 REBAR CONTINUOUS FLUSH WITH D.G.
3. STABILIZED DECOMPOSED GRANITE (D.G.) PAVING, SEE PLANS FOR COLOR
4. SUBGRADE PREPARATION AND COMPACTION PER GEOTECHNICAL ENGINEERING REPORT
5. 1/8" MIN. TO 1/4" MAX. LOWER THAN ADJACENT SIDEWALK OR HARDSCAPE (AFTER INSTALLATION / COMPACTION)

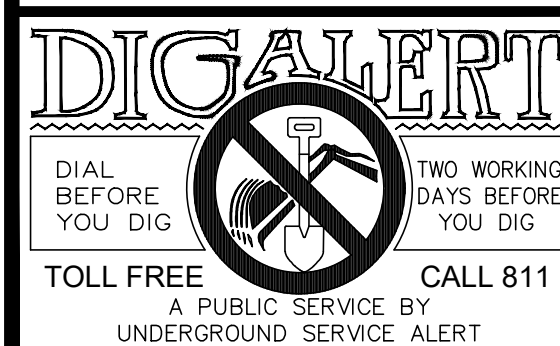
STABILIZED DECOMPOSED GRANITE

WITH CONCRETE HEADER

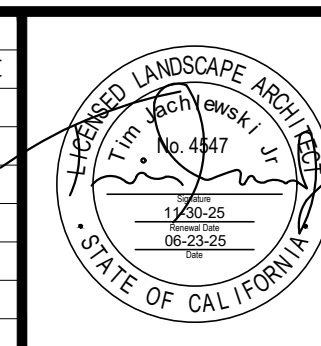
C-04

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

L.1-3



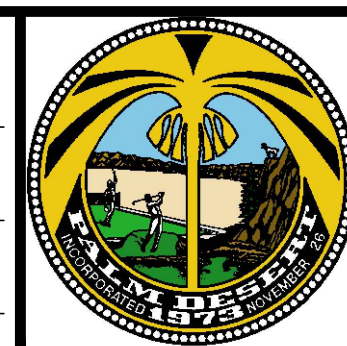
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

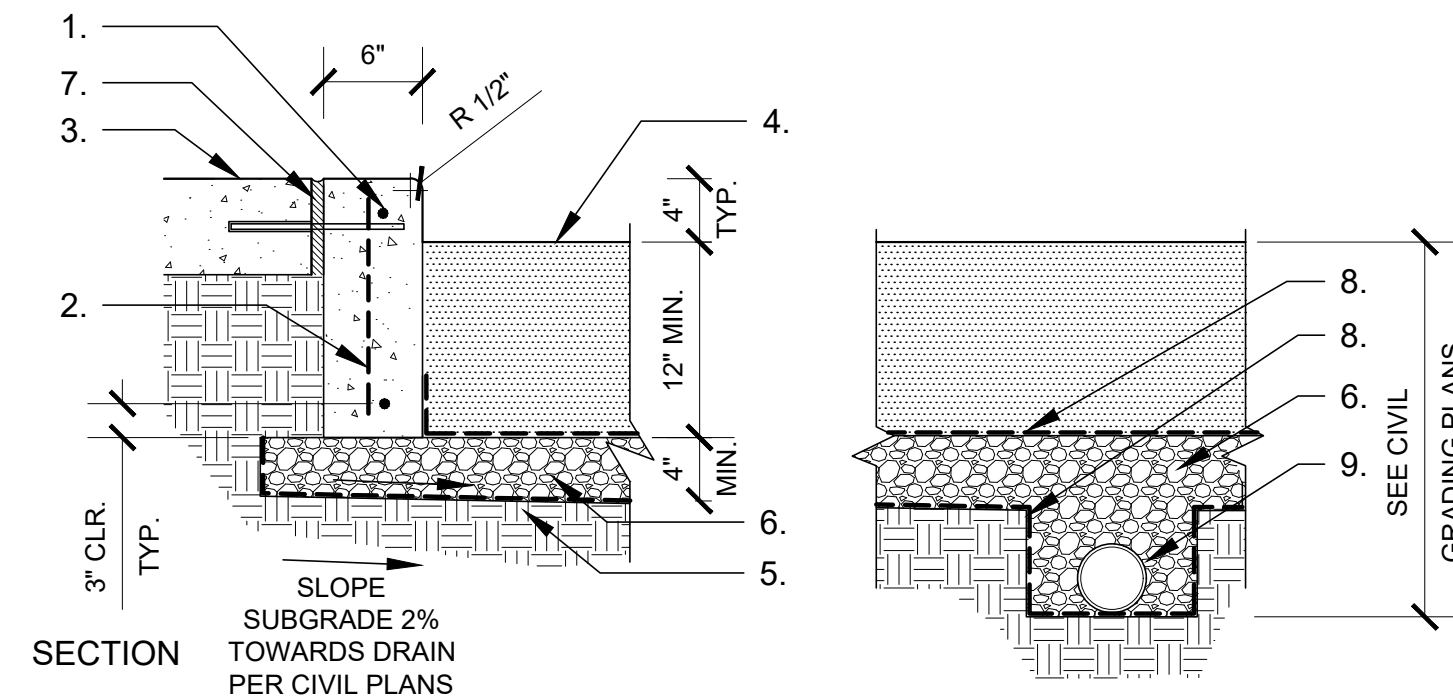
CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION DETAILS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S66M)

SHEET	4
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



1. CONCRETE CURB WITH #4 REBAR CONTINUOUS (TOP AND BOTTOM)
2. #4 REBAR @ 16" O.C.
3. FINISHED SURFACE FLUSH WITH CURB SEE PLANS
4. ENGINEERED WOOD FIBER SAFETY SURFACE
5. SUBGRADE PREPARATION AND COMPACTION PER GEOTECHNICAL ENGINEERING REPORT
6. COMPACTED NO. 57 GRAVEL BASE (SLOPE SUBSURFACE OF GRAVEL BASE AT 2% MIN. TOWARDS DRAIN LINES)
7. EXPANSION JOINT WITH STEEL DOWEL PER DETAIL, THIS SHEET
8. MIRAFI N SERIES FILTER FABRIC
9. DRAIN LINE PER GRADING PLANS

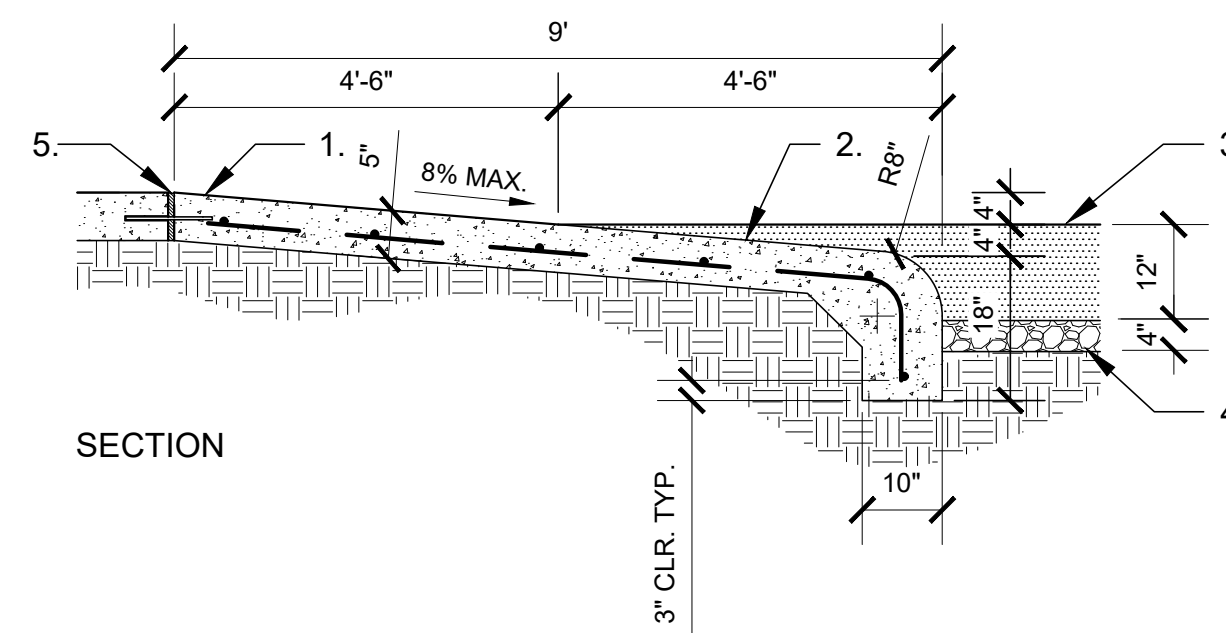
NOTE: PROVIDE MEDIUM BROOM FINISH ON TOP OF CONCRETE CURB

CURB & WOOD FIBER SAFETY SURFACE

AT PLAY AREA

C-06

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



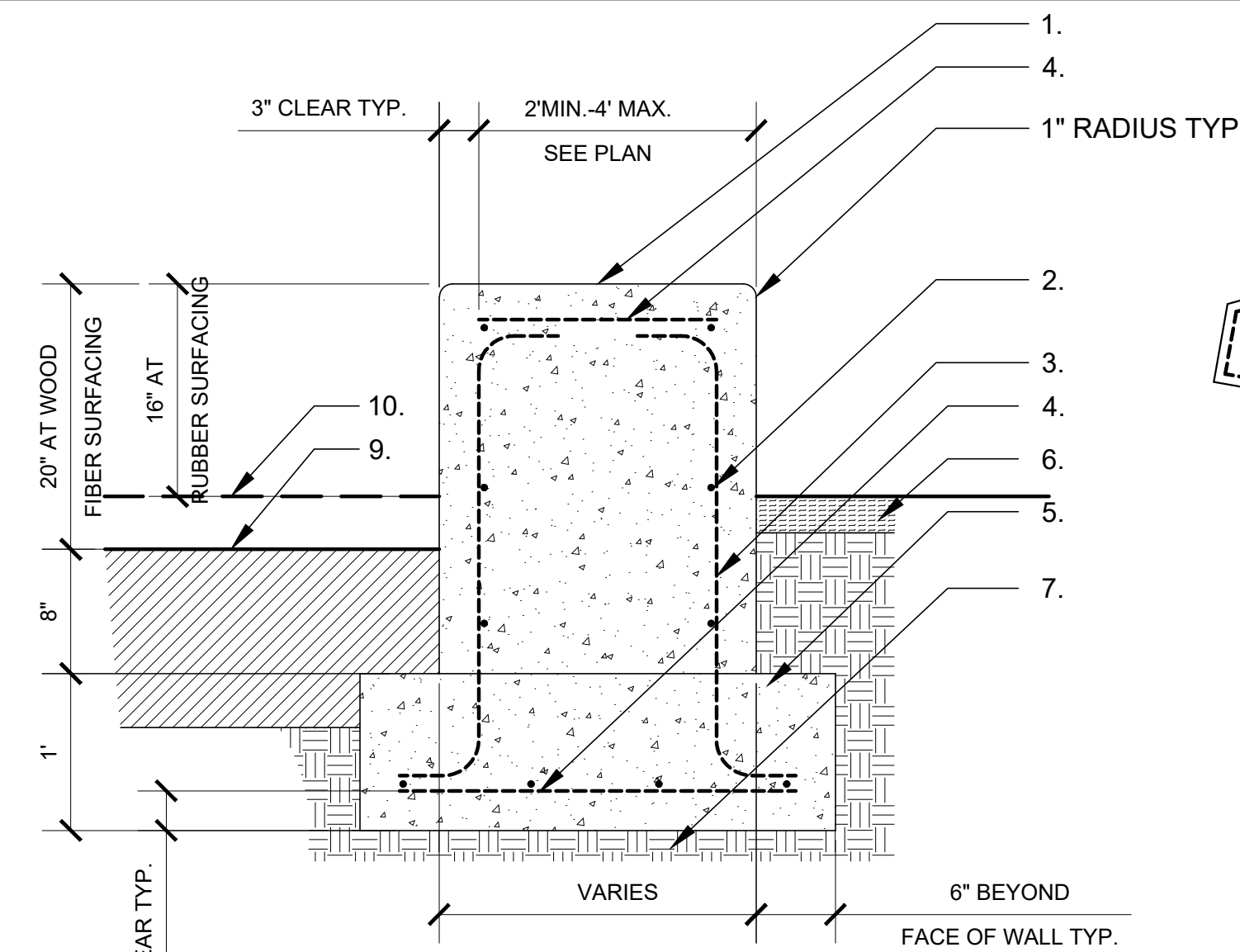
1. CONCRETE RAMP (MEDIUM BROOM FINISH PERPENDICULAR TO SLOPE)
2. CONCRETE RAMP BELOW WOOD FIBER SAFETY SURFACE
3. ENGINEERED WOOD FIBER SAFETY SURFACE PER DETAIL
4. COMPACTED AGGREGATE BASE PER DETAIL
5. EXPANSION JOINT WITH STEEL DOWEL PER DETAIL

RAMP AT PLAY AREA

CONCRETE TO SAFETY SURFACE

C-07

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



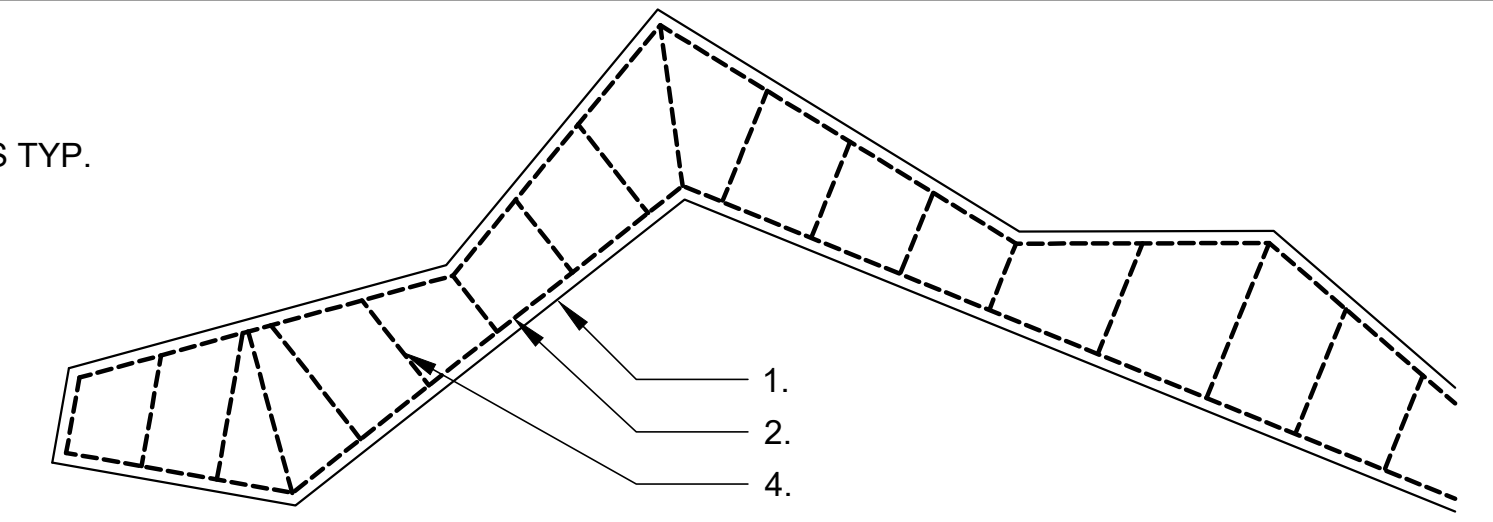
1. CAST-IN-PLACE CONCRETE SEATWALL. SACK AND PATCH FINISH, INTEGRAL COLOR DAVIS COLORS 'SANDSTONE' - 1" RADIUS EDGE AROUND ALL TOP EDGES
2. #4 BARS CONTINUOUS (6 PLACES IN WALL AND 4 PLACES IN FOOTING)
3. #4 VERTICAL BARS @ 24" O.C. (BEND AND EXTEND INTO FOOTING AND TOP OF WALL)
4. #4 HORIZONTAL BARS @ 24" O.C. (IN FOOTING AND TOP OF WALL)
5. CONCRETE FOOTING

CAST-IN-PLACE SEATWALL

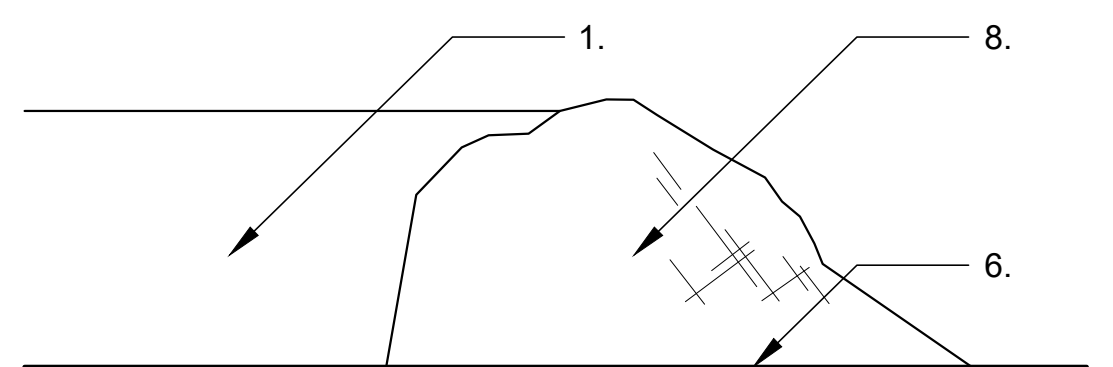
SECTION AND ELEVATION

C-08

SCALE: 1" = 1'-0"



TYPICAL REBAR LAYOUT (1/4"=1'-0")



ELEVATION @ BOULDER END

6. FINISH GRADE / PAVING OR LANDSCAPE AREA PER PLANS
7. COMPACTED SUBGRADE PER GEOTECHNICAL ENGINEERING REPORT
8. BOULDER PER PLANS
9. ADJACENT WOOD FIBER PLAYGROUND SURFACING PER PLAN
10. ADJACENT RUBBER PLAYGROUND SURFACING PER PLAN

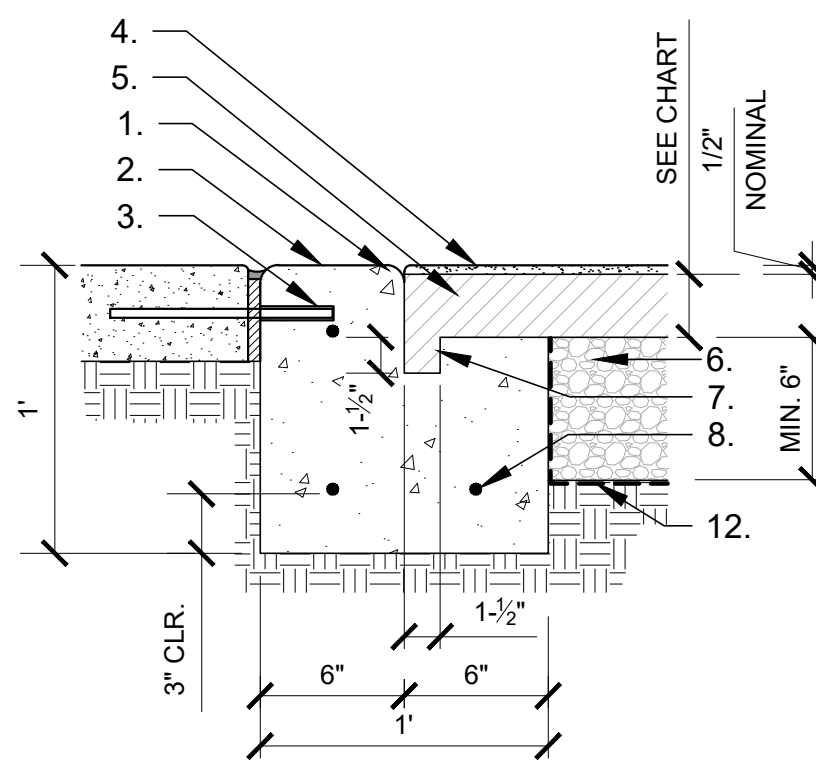
NOTES:

- A. ENDS OF SEATWALLS WHERE THEY MEET BOULDERS SHALL BE FORMED INTO BOULDER LOCATIONS
- B. COORDINATE INSTALLATION OF BOULDERS PER PLANTING PLAN WITH CONCRETE FORM TO POUR AROUND BOULDERS

FALL HEIGHT	4'	5'	6'	8'	9'	12'
MIN. SYSTEM DEPTH	2"	2.5"	3"	3.5"	4"	5"

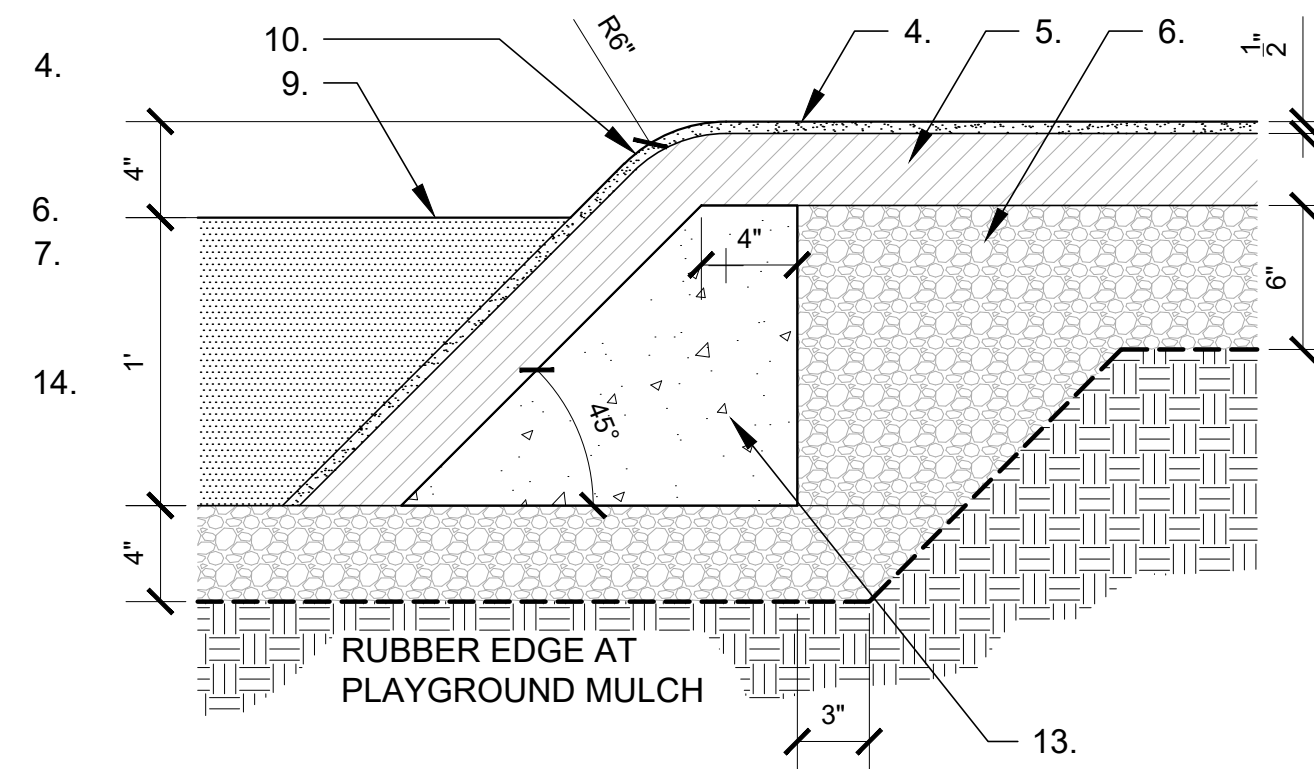
(SYSTEM DEPTH = 1/2" SURFACE COURSE PLUS SHOCK COURSE)

SEE SHEET L.1-6 FOR REQUIRED MINIMUM SYSTEM DEPTH BASED ON SPECIFIC FALL HEIGHTS

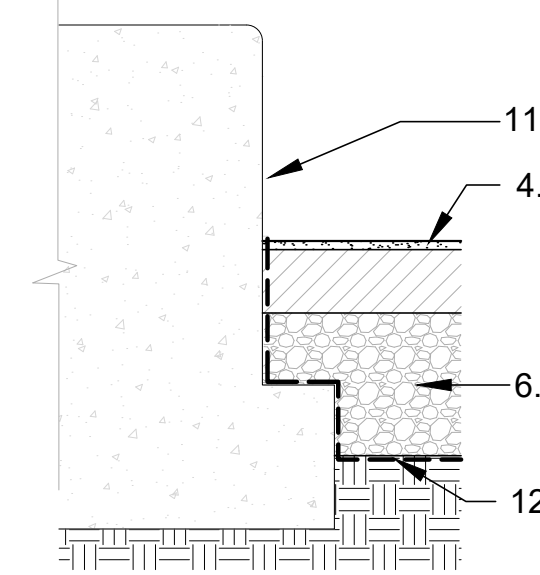


RUBBER AT FLUSH CONCRETE CURB (EASTERN PLAYGROUND AREA)

1. 1/2" RADIUS ON EXPOSED CONCRETE EDGES
2. FLUSH CONCRETE CURB WITH 1 1/2" X 1 1/2" CONTINUOUS KEYWAY (MEDIUM BROOM FINISH AT TOP SURFACE)
3. 9" LONG #3 STEEL DOWELS 24" O.C.
4. EPDM RUBBER SURFACE COURSE PER SPECIFICATIONS
5. RUBBER SHOCK COURSE PER SPECIFICATIONS
6. CLASS II BASE - 95% STANDARD PROCTOR COMPACTION PER ASTM TEST
7. NO RADIUS AT KEYWAY
8. (3) #3 REBAR CONTINUOUS
9. WOOD FIBER PLAYGROUND MULCH



10. TURNED DOWN RUBBER SURFACE TO TERMINATE EDGE AT PLAYGROUND MULCH AREA
11. POURED IN PLACE WALL - SEE DETAIL
12. MIRAFI N SERIES FILTER FABRIC
13. HIDDEN CONCRETE CURB



RUBBER EDGE AT POURED IN PLACE WALLS

ALL RUBBER SURFACING TO BE:
ROSEHILL TPV
AVAILABLE THROUGH:
AMERICAN RECYCLING CENTER, INC.
ROCEHELLE MILLER
@AMERICANRECYCLING.COM
800.234.5414
PROVIDE SAMPLES TO CITY & LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, DESIGN & INSTALLATION

COLOR 'A' - CUSTOM BLEND
25% TURQUOISE (RH26)
15% STANDARD BLUE (RH20)
60% LIGHT BLUE (RH22)

COLOR 'B' - CUSTOM BLEND
30% STANDARD BEIGE (RH30)
70% CREAM (RH31)

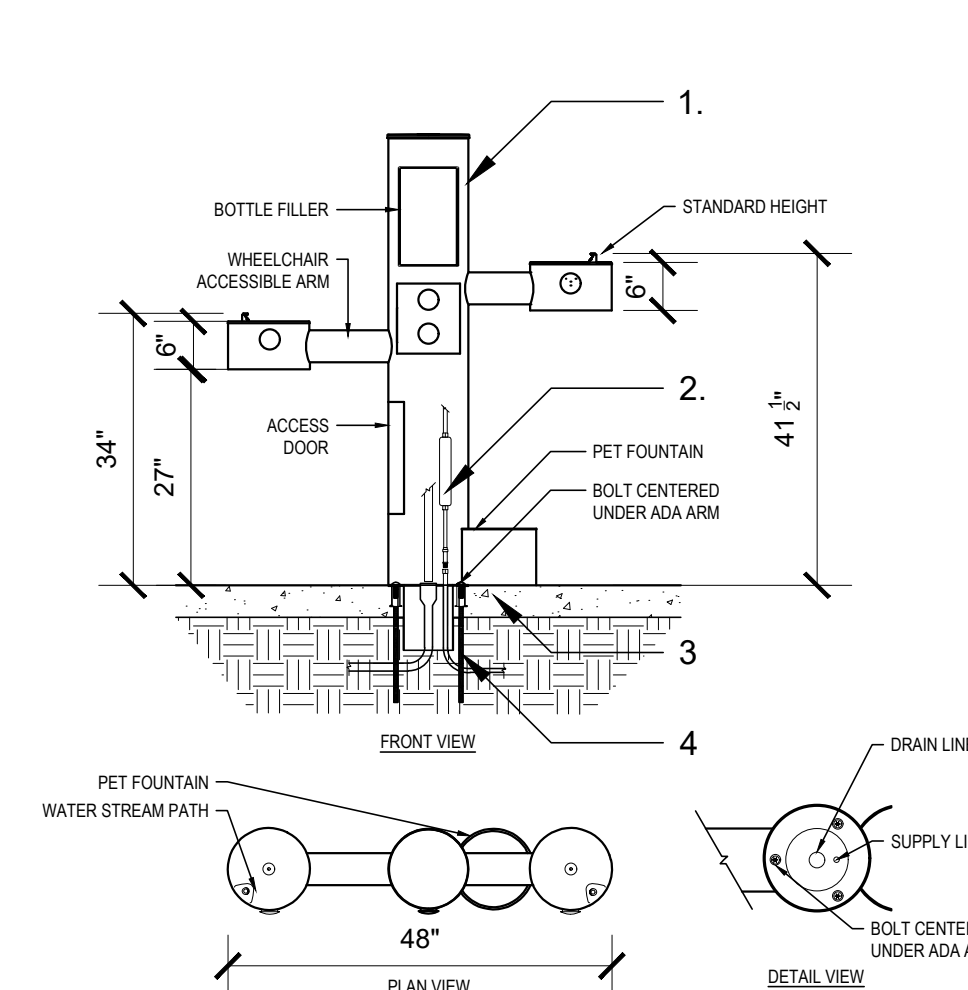
NOTE: BINDER SHALL BE NON-YELLOWING ALIPHATIC BINDER

RUBBER SAFETY SURFACING

POURED-IN-PLACE

C-09

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



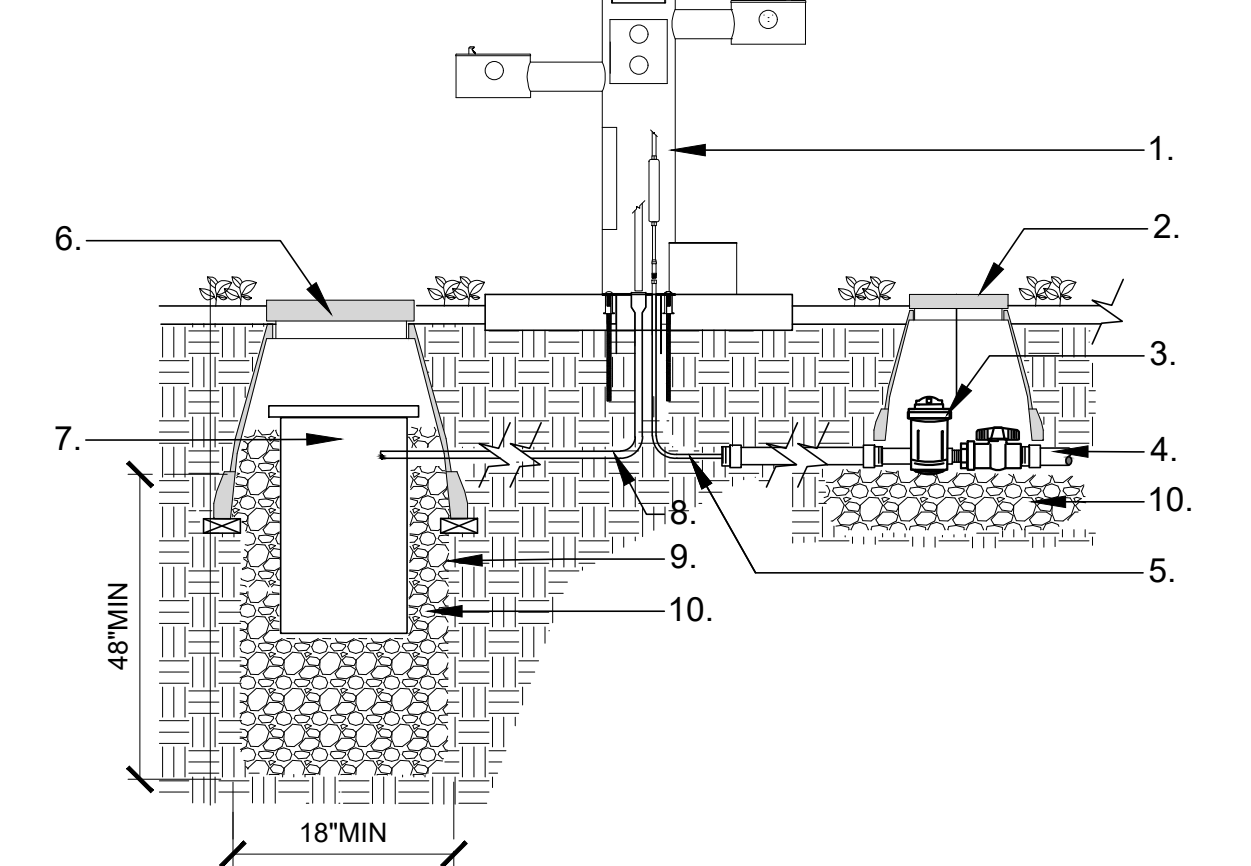
1. WATER FOUNTAIN WITH WATER BOTTLE FILLER & PET BOWL BY MOST DEPENDABLE FOUNTAINS - MODEL 10145 SMSSFA 901-867-0039 - MOSTDEPENDABLE.COM
2. WATER SUPPLY LINE AND DRAIN LINE PER DETAIL THIS SHEET
3. CONCRETE PAVING
4. CARRIER RODS TO SECURE MOUNTING RING DURING INSTALLATION (TEMPLATE #10), BOLT TO CONCRETE PAD AND INSTALL PER MANUFACTURER INSTRUCTIONS

DRINKING FOUNTAIN

WITH WATER BOTTLE FILLER & PET BOWL

C-10

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



1. WATER FOUNTAIN PER PLAN.
2. CONCRETE RECTANGLE VALVE BOX WITH LOCKING SS BOLT WITH SHUT OFF VALVE. INSTALL IN ADJACENT PLANTING AREA.
3. RAINBIRD QUICKCHECK FILTER (WITH 120 MESH)
4. DOMESTIC WATER LINE PER CIVIL PLANS
5. 1/2" IPS SUPPLY
6. HAWS #6611 IN-GROUND SAND TRAP
7. JUMBO RECTANGULAR VALVE BOX SAND TRAP INSTALL PER MANUFACTURER'S INSTRUCTIONS IN ADJACENT PLANTING AREA
8. 1-1/2" SCH 40 DRAIN LINE
9. MIRAFI N SERIES FILTER FABRIC (WRAP ENTIRE AREA)
10. 3/4" CRUSHED GRAVEL

DRINKING FOUNTAIN - VALVE BOXES

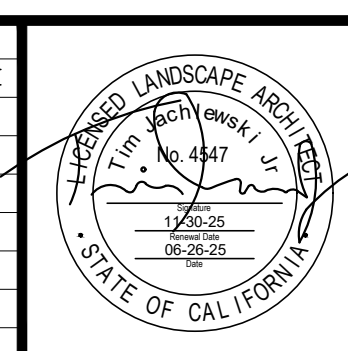
WATER SUPPLY & DRAIN

C-11

SCALE: N.T.S.



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



APPROVED BY:
MICHAEL S. ROWE, PE
CITY ENGINEER
R.C.E. 56069, EXP. 12/31/24

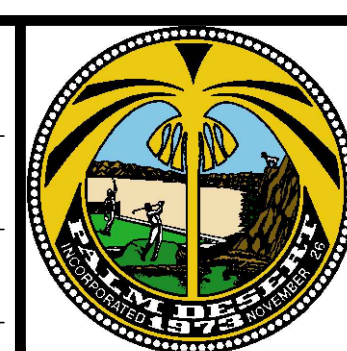
REVIEWED AND RECOMMENDED BY: _____ DATE: _____

CITY OF PALM DESERT

APPROVED BY: _____ DATE: _____

REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION DETAILS
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET 5 OF SHEETS 26
CITY FILE NUMBER PG XX-XXXX

MODEL #300CR CONCRETE HOT COAL RECEPTACLE	OUTDOOR CREATIONS, INC. DATE:	SCALE: 1" = 24" DRAWN BY: MNC
---	----------------------------------	----------------------------------

SIDE ELEVATION

Cleanout Door

Cast in "HOT COALS" Flame logo on (2) opposing sides

PLAN

Laser-Cut, Non-welded Grill System - 1/4" Thickness
Grill is a single layer guard to the hot coals contained below. NOT FOR COOKING.

SIDE ELEVATION (Side 2)

Concealed hinge allows door to be raised and locked in upright position for ash removal

NOTES:

- Concrete mix design to include a mixture of Portland Cement, water, coarse and fine aggregates, pure mineral oxide coloring agents (when applicable) to yield a minimum compressive strength of 5000 psi.
- Final product shall be reinforced with #4 and #5 rebar grid.
- Product is cast in 1-piece with no assembly required.
- Healing cracks may develop over time. These are not structural failures, but inherent characteristics of the material itself.
- Air pockets are a common occurrence in precast products. The frequency and size of air pockets are variable and to be expected, especially on vertical surfaces.
- Concrete corners and edges will chip if not handled according to guidelines. Patch kits are available but may or may not blend and can be variable.
- There is a level of care and maintenance associated with your product and is the responsibility of the end user. Choosing the right sealer can help minimize those costs.

WEIGHT: 1750 LBS
TEXTURE:
COLOR:
SEALER:

2270 Barney Street
Anderson, CA 96007
(530) 365-6106
FAX (530) 365-6129

MANUFACTURER: OUTDOOR CREATIONS INC.
MODEL: #300CR CONCRETE HOT COAL RECEPTACLE
COLOR / FINISH: TO MATCH CITY STANDARD BENCH COLOR PER DETAIL C-15
NOTES: INSTALL PER MANUFACTURER RECOMMENDATIONS

HOT COAL RECEPTACLE

SITE FURNISHINGS

C-12

SCALE: N/A

TOP AND SEATS ARE #9 X 3/4" EXPANDED METAL W/ 2 3/4" X 1/8" FORMED BORDER COATED W/ VINYLAST PLASTISOL

SEAT SUPPORT TUBE

WALL OF MAIN POST

1/2" X 1 1/4" CARRIAGE BOLT

1/2" LOCKWASHER & NUT

OUTSIDE ONLY SMOOTH CARR. BOLT HEADS ARE EXPOSED THE LOCKWASHERS & NUTS ARE ON THE INSIDE OF THE MAIN POST SO WHEN THE TABLE IS FULLY ASSEMBLED THEY ARE NOT ACCESSIBLE

FRAME IS HOT DIP GALV. AFTER FABRICATION

THE SIZE OF THE CONCRETE BASE IS ONLY A SUGGESTION YOUR LOCAL SOIL CONDITIONS SHOULD DETERMINE WHAT IS NECESSARY TO ENSURE A STABLE MOUNTING

REVISED	KAY PARK	
LCB-10/97	MODEL	6SPTGVP
	DATE	7/7/94
	SCALE	NONE
	BY	LCB
	DATE	7/7/94
	SCALE	NONE
	FILE NO.	6SPTGVP

WEIGHT: 381 lbs

MANUFACTURER: KAY PARK
MODEL: #6SPTGVP PICNIC TABLE (WITH SURFACE MOUNTING PLATE)
COLOR / FINISH: BLUE TO MATCH CITY OF PALM DESERT STANDARD
NOTES: SURFACE MOUNT PER MANUFACTURER RECOMMENDATIONS

METAL PICNIC TABLE

SITE FURNISHINGS

C-13

SCALE: N/A

CUSTOM FLAT BENCH - 18" x 18" x 78" CITY OF PALM DESERT, CA	OUTDOOR CREATIONS, INC. CUSTOMER APPROVAL x	SCALE: 1" = 18" DRAWN BY: MNC	MAN. TOL. +/- 1/4" 3/8/24
--	--	----------------------------------	------------------------------

ELEVATION

Anti-skate indents on both sides of bench

SECTION

1/2" Radius on all edges

Anti Skate Indentation Profile

NOTES:

- Concrete mix design to include a mixture of Portland Cement, water, coarse and fine aggregates, pure mineral oxide coloring agents (when applicable) to yield a minimum compressive strength of 5000 psi.
- Final product shall be reinforced with #4 and #5 rebar grid.
- Product is cast in 1-piece with no assembly required.
- Healing cracks may develop over time. These are not structural failures, but inherent characteristics of the material itself.
- Air pockets are a common occurrence in precast products. The frequency and size of air pockets are variable and to be expected, especially on vertical surfaces.
- Concrete corners and edges will chip if not handled according to guidelines. Patch kits are available but may or may not blend and can be variable.
- There is a level of care and maintenance associated with your product and is the responsibility of the end user. Choosing the right sealer can help minimize those costs.

WEIGHT: 1200 LBS
TEXTURE: Medium Sandblast
COLOR: ODC Light Gray
SEALER: Standard Acrylic

*Threaded inserts in legs for mounting dowels (1 per leg).
(2) 3/4" x 8" coilrods provided per bench for mounting.

BENCH INSTALLATION:
This bench model will have cast in threaded inserts in the bottom of each leg. Bench will be supplied with colored for mechanical attachment, as an additional security method.
**Bench requires epoxy applied to cover bottom of entire leg. Epoxy adhesive should be checked periodically to ensure continued adhesion.

*Paint colors:
Black
Tan: PPG 1090-6 Allegro

2270 Barney Street
Anderson, CA 96007
(530) 365-6106
FAX (530) 365-6129

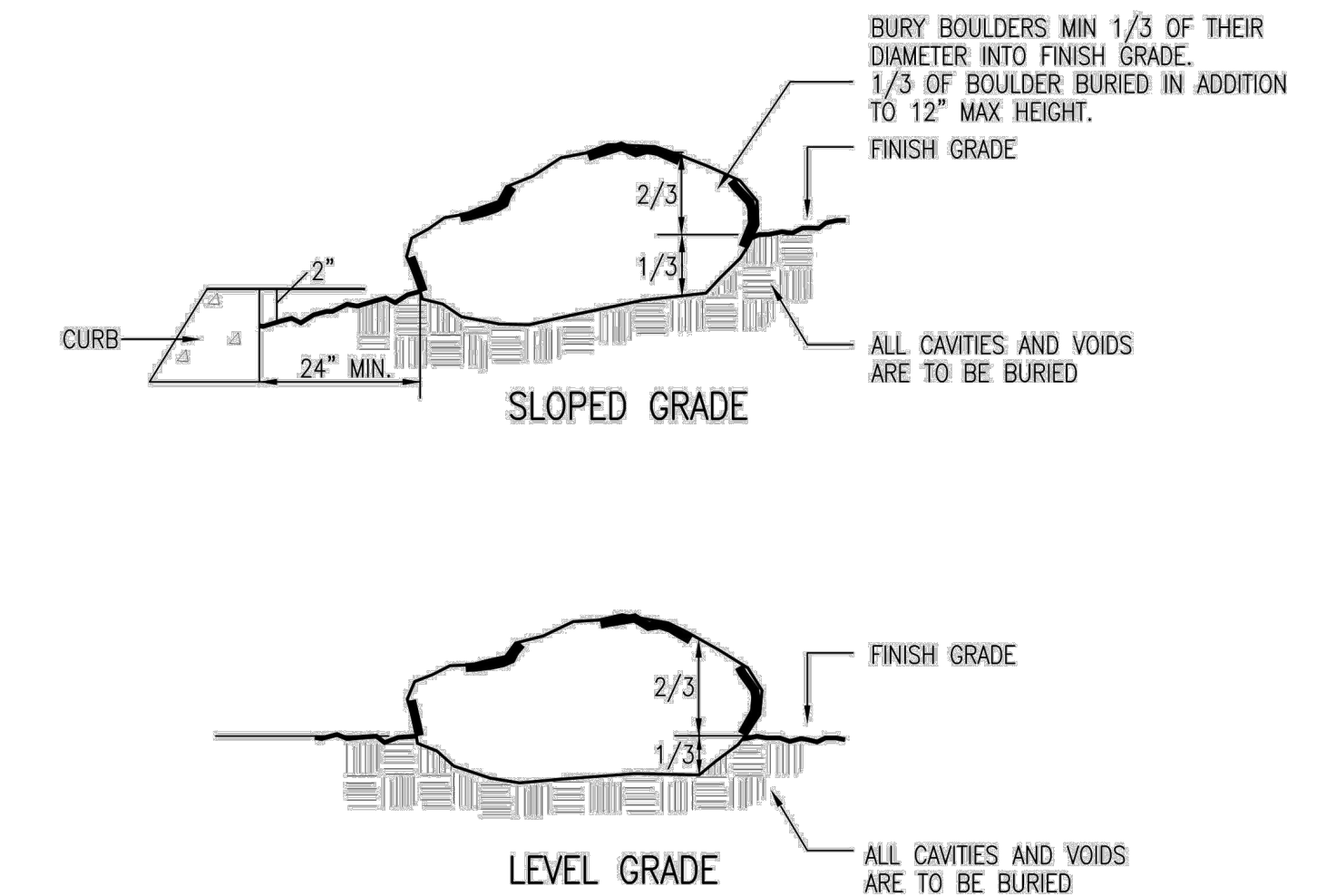
MANUFACTURER: OUTDOOR CREATIONS INC.
MODEL: CUSTOM FLAT BENCH FOR CITY OF PALM DESERT
COLOR / FINISH: PER DETAIL
NOTES: INSTALL PER MANUFACTURER RECOMMENDATIONS

BENCH WITHOUT BACK

SITE FURNISHINGS

C-14

SCALE: N/A



NOTES:

ALL BOULDERS TO BE A MINIMUM 24" FROM CURB/HARDSCAPE UNLESS NOTED ON PLAN
BOULDERS IN CLUSTERS TO BE SET AT VARIOUS HEIGHTS PER CITY APPROVAL

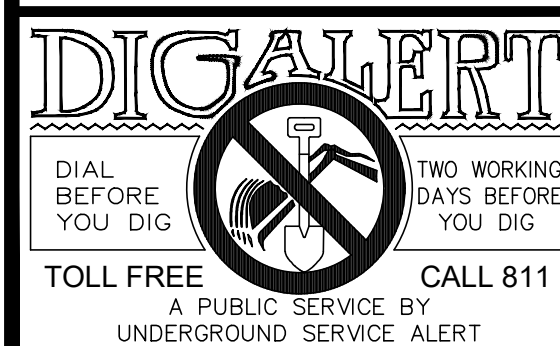
BOULDER

WITHIN LANDSCAPE

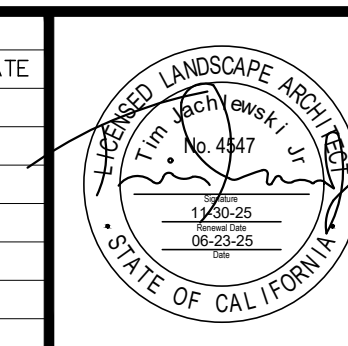
C-15

SCALE: 1" = 1'-0"

L.1-5



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.

2907 Shelter Island Drive #105-417
San Diego, CA 92106 619-795-7603
www.insitelandscape.com

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP: 11-30-25

CITY OF PALM DESERT

APPROVED BY:

MICHAEL S. ROWE, PE DATE
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24

REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:

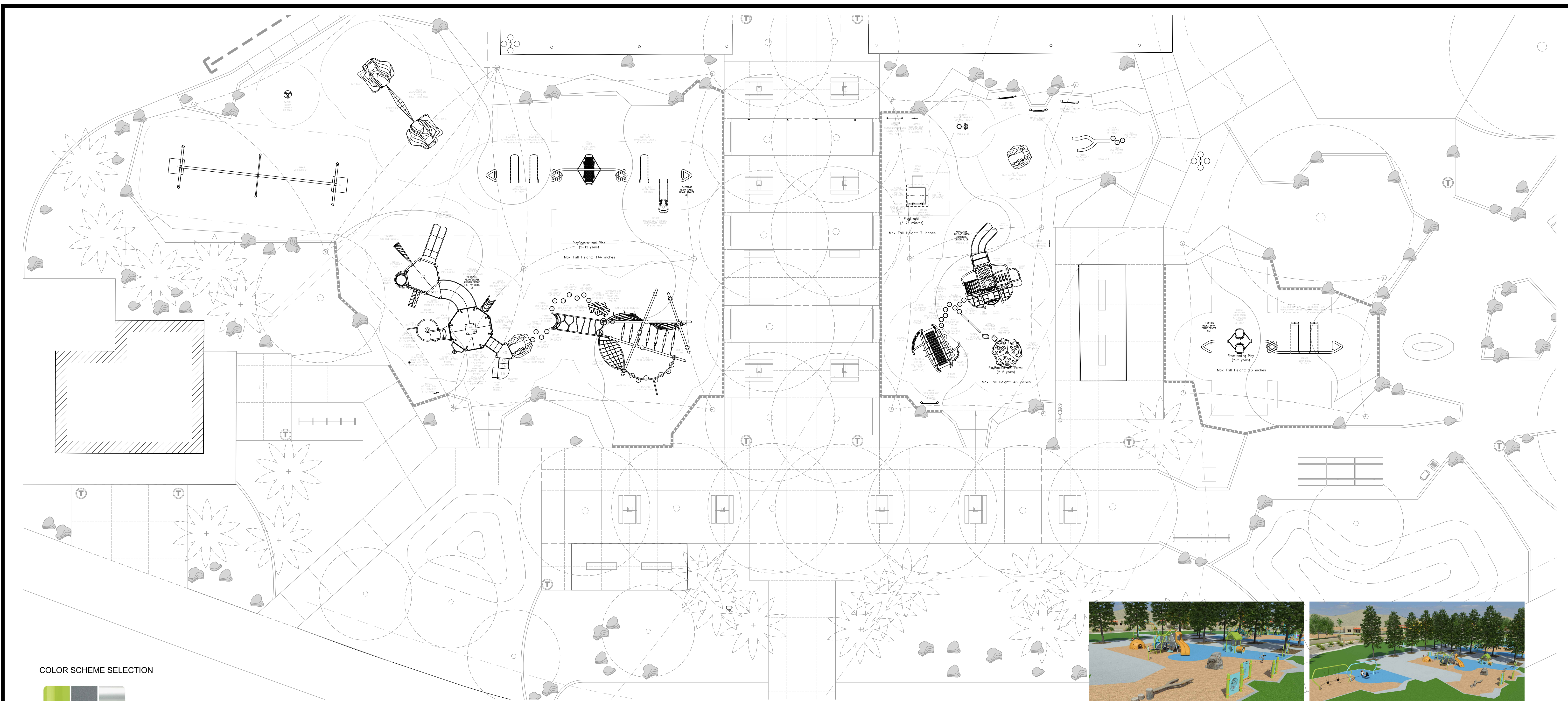
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT

LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION DETAILS

LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET 6
OF SHEETS 26
CITY FILE NUMBER PG XX-XXXX



COLOR SCHEME SELECTION



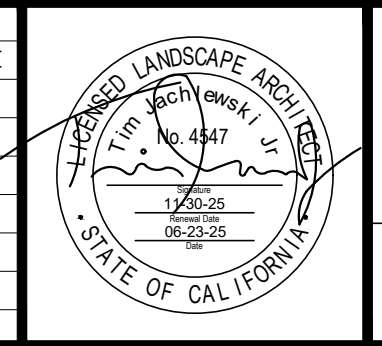
MANUFACTURER: LANDSCAPE STRUCTURES.
 MODEL: PER LSI PLANS
 COLOR / FINISH: PER LSI PLANS

PLAY EQUIPMENT
 BY LANDSCAPE STRUCTURES

C-16
 SCALE: 1"=10'



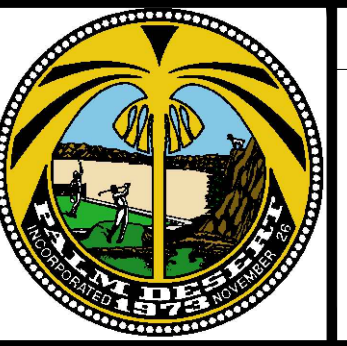
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY J. APPLEBY, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

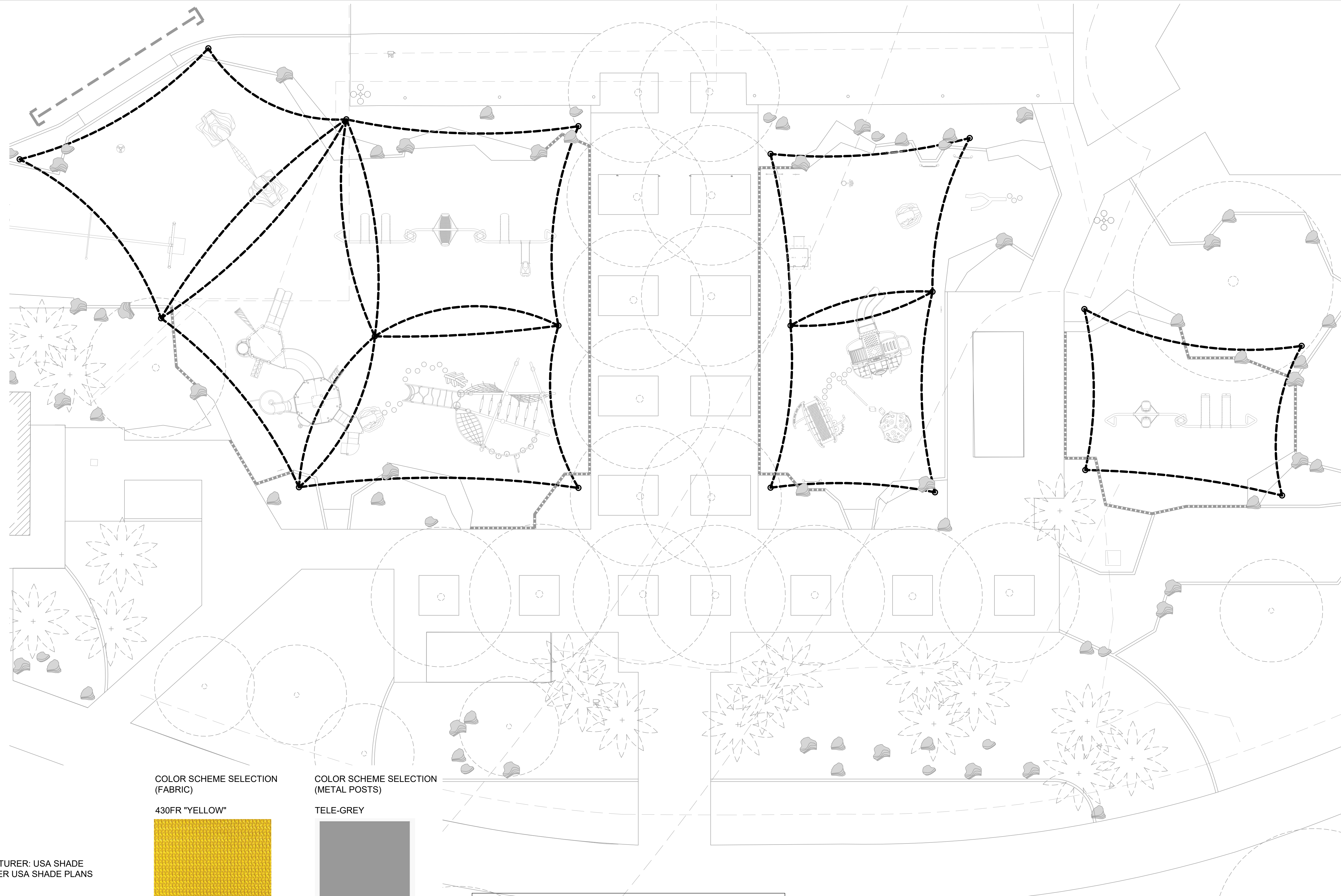
CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE
 CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE



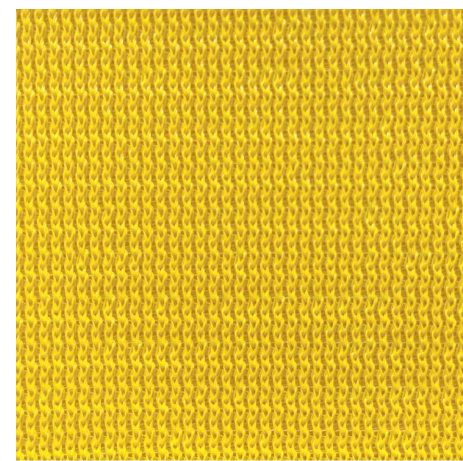
CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PLAY EQUIPMENT PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET 7
 OF SHEETS 26
 CITY FILE NUMBER PG XX-XXXX



COLOR SCHEME SELECTION
(FABRIC)

430FR "YELLOW"



COLOR SCHEME SELECTION
(METAL POSTS)

TELE-GRAY



Tele-Gray
115892

SEE ATTACHMENT FOR
MANUFACTURER SHOP DRAWINGS

MANUFACTURER: USA SHADE
MODEL: PER USA SHADE PLANS

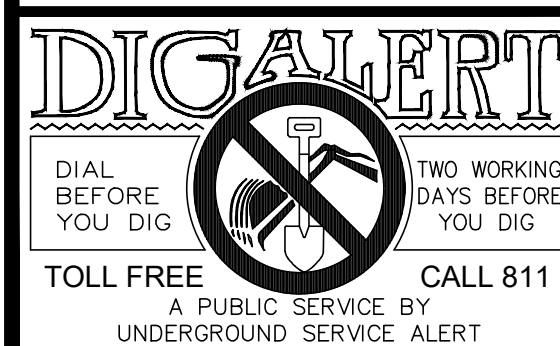
SHADE SAILS

BY USA SHADE

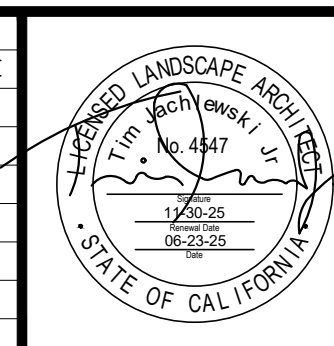
C-17

SCALE: N/A

L.1-7



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE

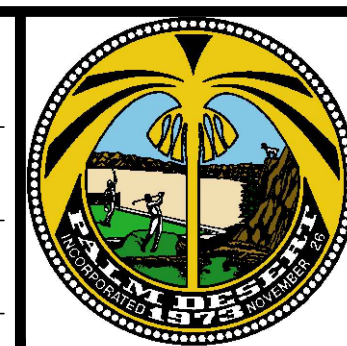


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25
 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE: _____
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE: _____

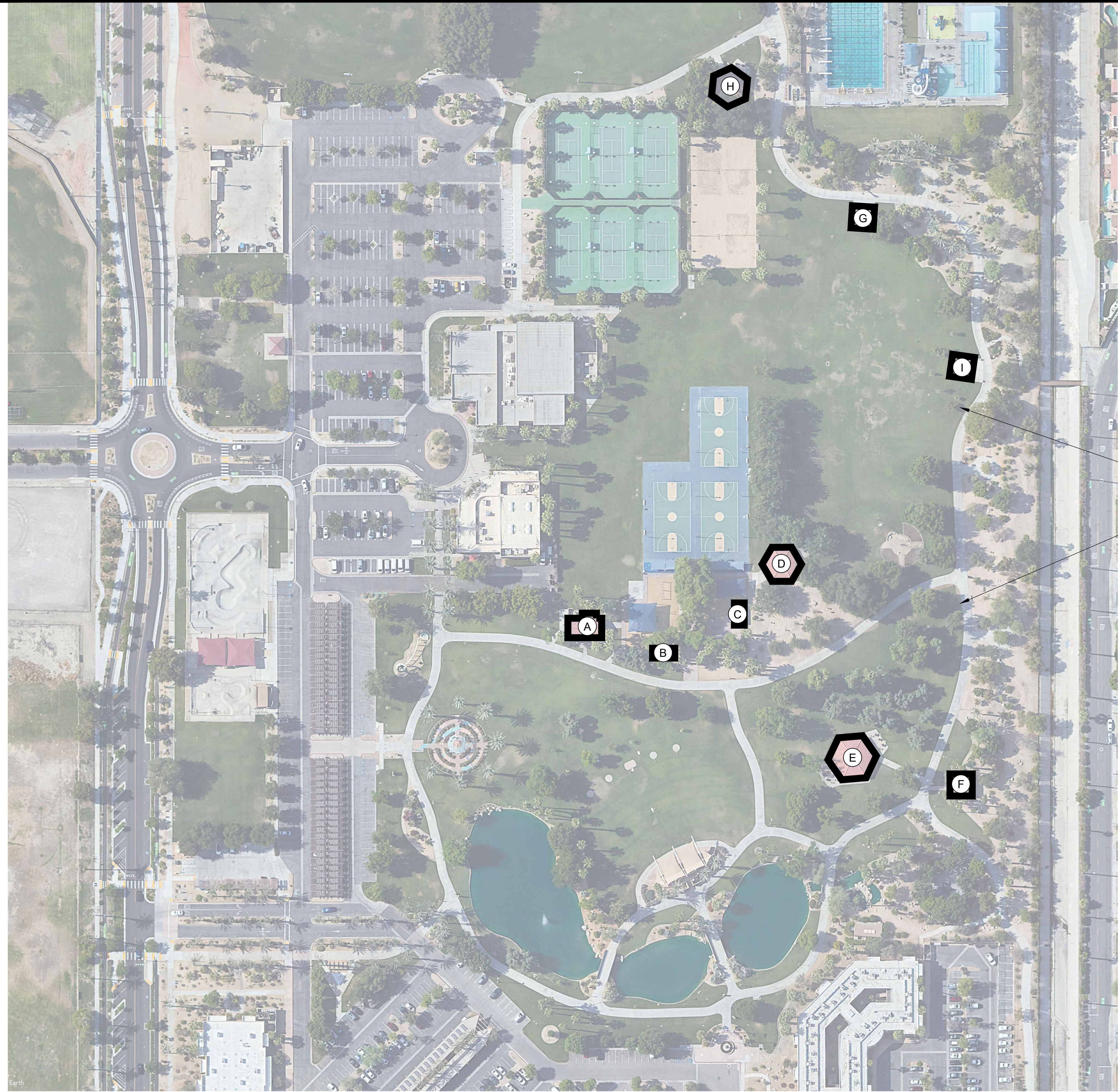
PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
SHADE SAIL PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8BM)

SHEET	8
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



EXISTING STRUCTURES TO BE PAINTED

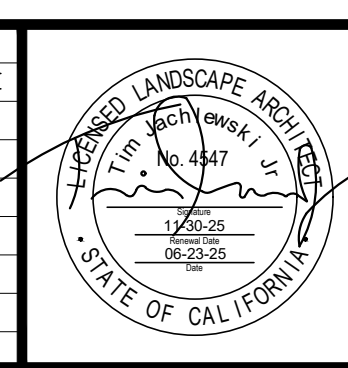
LETTER	DESCRIPTION
(A)	EXISTING RESTROOM
(B)	EXISTING RECTANGLE SHADE STRUCTURE
(C)	EXISTING RECTANGLE SHADE STRUCTURE
(D)	EXISTING GAZEBO
(E)	EXISTING GAZEBO
(F)	EXISTING SQUARE SHADE STRUCTURE
(G)	EXISTING SQUARE SHADE STRUCTURE
(H)	EXISTING GAZEBO
(I)	EXISTING SQUARE SHADE STRUCTURE

PARK STRUCTURES TO BE RE-PAINTED. REFER TO PAINT SCHEME ON SHEET L.1-9.

CONTRACTOR TO VERIFY SQUARE FOOTAGE AND QUANTITY OF STRUCTURES TO BE REPAINTED



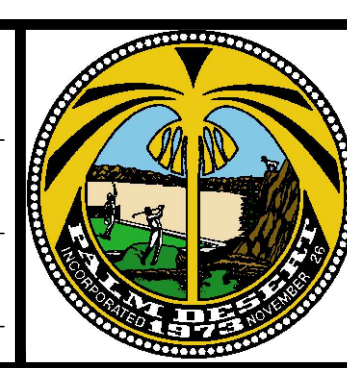
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JADLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24 DATE: _____
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:	
CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
 LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 STRUCTURE PAINTING PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8BM)

SHEET OF SHEETS	9 / 26
CITY FILE NUMBER	PG XX-XXXX



- ROOF TO REMAIN. PROTECT-IN-PLACE
- PAINT GUTTERS SHERWIN WILLIAMS COLOR: SW 9112 SONG THRUSH
- PAINT STUCCO SHERWIN WILLIAMS COLOR: SW 9112 SONG THRUSH
- SPLITFACE BLOCK TO REMAIN. PROTECT-IN-PLACE



- ROOF TO REMAIN. PROTECT-IN-PLACE
- PAINT WOOD FASCIA SHERWIN WILLIAMS COLOR: SW 9112 SONG THRUSH
- PAINT WOOD CEILING SHERWIN WILLIAMS COLOR: SW 9112 SONG THRUSH
- PAINT METAL POSTS SHERWIN WILLIAMS COLOR: SW 9112 SONG THRUSH



SW 9112
Song Thrush

PAINT COLOR:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 9112 SONG THRUSH (CITY TO APPROVE FINAL COLOR)
NOTE: CONTRACTOR SHALL USE MANUFACTURER'S RECOMMENDED PAINT FOR THE APPLICABLE SURFACE (WOOD, STEEL, OR STUCCO). PREPARE SURFACES, PRIME, AND PAINT PER MANUFACTURER'S SPECIFICATIONS FOR EACH APPLICABLE SURFACE.

PROVIDE SUBMITTAL FOR APPROVAL FOR ALL PAINT RELATED ITEMS

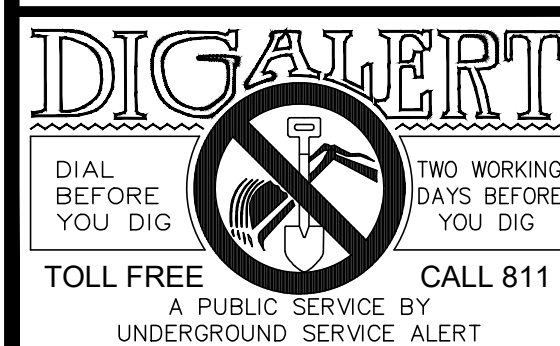
TYPICAL PAINT COLOR SCHEME - APPLY TO STRUCTURES AROUND PARK AS NECESSARY

PARK STRUCTURES

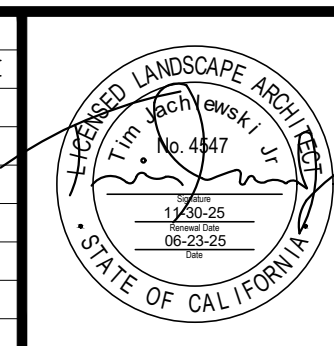
C-18

SCALE: N/A

L.1-9



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE

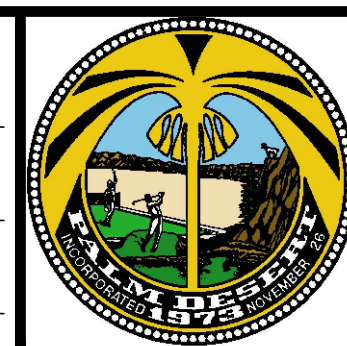


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAPLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24 DATE: _____
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
STRUCTURE PAINTING SCHEME
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S88M)

SHEET	10
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

TECHNICAL SPECIFICATIONS

The "Standard Specifications" are contained in the latest edition of the Standard Specifications for Public Works Construction, including all supplements, popularly known as the "Green Book", as written and promulgated by the Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and the Southern California District of the Associated General Contractors of California. Copies of the Standard Specifications are available from the publisher, Building News Inc., as follows:

Bookstore Locations: see website for Southern California locations
Website: www.bnibooks.com

The Standard Specifications shall prevail in all cases except where a Contract Document of a higher order, provides a different requirement on a given topic or topic aspect. All language in the Standard Specifications that is not in conflict with the language in the prevailing Contract Documents on a given topic or topic aspect shall remain in full force and effect, unless the language in the prevailing Contract Document specifically cites the section number in the Standard Specification and says said provision is in lieu that Standard Specification section.

The project drawings and details are considered as part of these specifications, and any work or materials shown on the drawings and not mentioned in the specifications, or vice versa, are executed as if specifically mentioned in both.

The Greenbook sections listed below are the sections that specifically have deviations, substitutions, deletions, or additions as noted below in lieu of that Standard Specification section:

GREENBOOK PART 2 - CONSTRUCTION MATERIALS (deviations, substitutions, deletions, or additions):

SECTION 200 - Rock Materials

[Add the following]
Refer to Site Construction Plans for the following additional landscape-related rock materials:

- a) Stabilized Decomposed Granite Pavement
- b) Non-Stabilized Decomposed Granite Mulch
- c) Landscape Boulders

SECTION 201 - Concrete, Mortar and Related Materials

[Add the following]
a) Concrete for walls or footings shall be 4,500 PSI concrete, Type V cement, max. water-cement ratio of .45 (by weight).

[Add the following]
Concrete Pavement Mixes with Surface Retarder and Finishing Aids (Specified on Plans as "Topcast Finish"). Concrete Submittal PDF Data Sheets shall comply to all criteria listed below:

- a) Exposed Sand Finishes (Topcast #01): Use Ready Mixed "concrete unless otherwise approved or specified; in accordance with ASTM C94. Expose Sand finishes should meet or exceed the following criteria.
 1. Compressive Strength: Minimum 3,500 psi at 28 days
 2. Fly Ash is prohibited
 3. Concrete shall be gap-graded with weathered round coarse aggregate consisting of not more than 45%-50% maximum content
 4. Water/Cement Ratio: not greater than .55 by weight
 5. Slump: not greater than 5 inches
 6. Air Content: Between 4 1/2% - 7 1/2%
- b) Admixtures
 1. Use water-reducing admixtures in all concrete.
 2. Use air-entraining admixture in all exterior exposed concrete.
- c) Topcast Finish: Spray Applied, film forming top surface retarder designed for specific sized aggregates and finish requirements. Color Coded to allow for ease of application and verification of etch level being used as well as even and complete coverage
 1. Acceptable Material: Top Cast Surface Retarders by GCP Applied Technologies.
 2. See Site Construction Plans for Topcast Finish #s.
- d) Protective Coating: Spray Applied and film forming protective coating for adjacent masonry and concrete surfaces
 1. Acceptable Materials: Top Cast SS 100 by GCP Applied Technologies. Top Cast Surface Retarders and Top Cast SS-100 distributed by Dayton Superior Corporation. 1125 Byers Road Miamisburg, OH 45342 Dayton Superior Customer Service: 888-977-9600 www.daytonsuperior.com

[Add the following]
a) Mock-up Panels: Contractor shall prepare mock-up panels at the project site to demonstrate proficiency of the contractor as well as determine the best procedures and degree of sand or aggregate exposure. Mock-up panels shall be a minimum of 4' x 4'. Contractor shall use the methods and materials proposed for use on the final installation. Uniformity in appearance of each panel shall be the responsibility of the contractor. The approved mock-up panel shall serve as a standard of appearance for the final work to be produced. The Local Topcast Technical representative shall be present and/or involved with the mock up to review proper preparation, application and removal processes (if possible).

[Add the following]
Expansion Joint Sealer
a) Refer to Site Construction Plans for expansion joint sealer requirements.

SECTION 210 - Paint and Protective Coatings

[Add the following]
Refer to Site Construction Plans for colors and finishes.

GREENBOOK PART 3 - CONSTRUCTION METHODS (deviations, substitutions, deletions, or additions):

SECTION 300 - Earthwork

[Add the following]
300-1 CLEARING AND GRUBBING
Clearing and Grubbing shall conform to the provisions in Section 300-1, "Clearing and Grubbing", of the Standard Specifications and these Special Provisions:
a) Contractor shall field verify existing grades and shall accept site as is, for no other grading shall be performed by the City.

[Add the following]
300-1.1.1 General
a) All materials removed shall be disposed of in a legal manner at an appropriate Disposal Site.

SECTION 301 - Subgrade Preparation, Treated Materials and Placement of Base Materials

[Add the following]:
301-1.2.1 PREPARATION SUBGRADE
a) Over excavation shall comply with the existing Geotechnical Report for the park.
b) Subgrade within landscape areas shall be excavated to accommodate the surface materials and clearances below adjacent finish grade of pavements to the depths indicated on the plans for the following:
1. Lawn Areas: 3" lower than adjacent finish grade of pavement (to accommodate 2" of compost amendments and 1" of sod.)
2. Stabilized D.G. Pavement: 4" lower than adjacent finish grade of pavement.
3. Non-Stabilized D.G. Mulch: 4" lower than adjacent finish grade of pavement. (to accommodate 3" of D.G. mulch and 1" of clearance.)

[Add the following]:
301-1.3 Relative Compaction
a) Relative Compaction shall comply with the existing Geotechnical Report for the park.

SECTION 303 - Concrete and Masonry Construction

[Add the following]:
303-1.1.1 Concrete construction shall conform to Section 201, "Concrete, Mortar, and Related Materials," and Section 303, "Concrete and Masonry Construction," of the Standard Specifications and these Special Provisions.
a) Concrete shall comply with the existing Geotechnical Report for the park.
b) Concrete inspections shall be made with three separate actions per section 1400 unless otherwise waived by the City: subgrade preparation; forming; and pouring.

[Add the following]:
303-5.1.1 Concrete pavement construction shall conform to Section 201, "Concrete, Mortar, and Related Materials," and Section 303, "Concrete and Masonry Construction," of the Standard Specifications and these Special Provisions.
a) Concrete shall comply the existing Geotechnical Report for the park.
b) Concrete mixes for integral colored pavements shall be procured from the same plant and installed in the same time period for each complete sidewalk area or plaza area of pavement to avoid integral color variations and aggregate variations.
c) Preparation of existing native subgrade in areas where Portland Cement Concrete improvement will be constructed shall conform with Section 301-1, "Subgrade Preparation," of the Standard Specifications.
d) All pull boxes, water meter boxes, valve boxes and other utilities indicated on the plans shall be adjusted to the proposed finish grade and approved by the City prior to the placement of concrete.

[Add the following]:
303-5.4.2.1 Expansion Joint Sealant for decorative concrete pavement as specified on plans shall be installed per manufacturer's instructions.

[Add the following]:
303-5.5 Finishing.
a) Concrete curbs shall have a broom finish.
b) Concrete walkways and ramps shall be finished as indicated on plans.

[Add the following]:
303-5.5.3 Topcast Finishes
a) Exposed Sand Finishes (Topcast #01): The use of a rolling tamper, jitterbug or rolling jitterbug shall be considered when producing micro etched concrete surfaces. This will enable the finisher to create a denser surface paste with no obstruction due to the appearance of coarse aggregate, allowing for a uniform sand texture.
1. Protect all areas, aluminum trim, curbs, borders and adjacent concrete and masonry surfaces, pavers, stones etc. that are not to receive retarder finish prior to concrete placement and retarder application using GCP Applied Technologies Top Cast SS 100 Surface Protectant. Distributed by Dayton Superior
2. Place concrete in the manner prescribed in the Standard Specifications. Screenshot or strike off the surface in two (2) directions using a wooden or metal straight edge to achieve the proper elevation in a sawing motion back and forth.
3. Allow the bleed water to evaporate the surface. It can then be floated using a wooden hand float or a bull-float preferably wooden to close the surface and surround the coarse aggregate with cement paste. Float to a uniform appearance. Follow float operations with hand trowels or Fresno steel trowels to create tight dense smooth surface. (This may require two or three passes depending upon mix design and/or desired finish to be achieved)
4. To reduce the rate of evaporation of moisture from the concrete use AquaFilm® J74RTU during the finishing process, his reduction of moisture loss allows time for proper finishing.
NOTE: Do not burnish the surface or allow the micro etched surface to prematurely dry prior to the application of Top Cast.
b) Concrete Surface Retarders: Spray Applied, film forming top surface retarder, designed for specific sized aggregates and finish requirements. Color coded to allow for ease of application and verification of grade being used as well as even and complete coverage.
1. Soon after the final seal finish has been completed spray GCP Applied

Technologies "Top Cast" surface retarder using a low-pressure sprayer with a 0.5gpm tip at a rate of 200-350 sq./ft. per gallon in a full hiding coat.
i. Once dry GCP Applied Technologies "Top Cast" will yield a coating that provides intermittent rain protection. Once completely dry it can be covered to protect the surface if heavy extended rains are predicted.

Retarder Selection Guide
Number / Aggregate Size to Expose / Color
01 / Light Acid Wash / white
2. Wash surface with water rinse using stiff brooms and water hose or by high pressure washing with power equipment as early as 4-16 depending on weather conditions. Retarder removal intervals are dependent upon strength of the concrete mix, aggregate size and desired washing techniques. Earlier washing on the light etches may be necessary. Verify in accordance with the mock-up approval detailed herein.
3. Rinse water and cement matrix removal shall be in accordance with local codes and should not be allowed to be washed or flow down to arroyos, storm sewers, ponds, streams or sanitary sewers by precipitation or other surface flows.
4. Prior to completion of the project, remove wash water residue from the site to location approved by the City.

[Add the following]:
303-5.4.3b Control Joint.
a) Refer to plans for sawcut control joints in concrete pavement.

SECTION 304 - Metal Fabrication and Construction

[Add the following]:
303-1.4. Steel Structures
a) Refer to manufacturer's shop drawings, specifications, and instructions for shade sails, and playground equipment.
b) Refer to electrical and lighting plans for lighting and electrical outlets integral to the steel shade structures.
c) Measurement and Payment shall be at the contract unit bid price per Each Structure and shall include full compensation for providing this item of work, complete in place, and no additional compensation will be allowed.

PART 8 - LANDSCAPING AND IRRIGATION

SECTION 800 - Materials

[Add the following]:
800-1 LANDSCAPE MATERIALS
Submittals
a) Submit certificates of compliance/ manufacturer cut sheets in one pdf file of:
1. Stabilized D.G. Pavement
2. Non Stabilized D.G. Mulch
3. Gravel Mulch
4. Rubble Mulch
5. Edging materials
6. Landscape Boulders
7. Edging Boulders (at playground)
b) The following written certifications are required to be submitted to the City upon delivery of the respective materials to the job site:
1. Total quantity of Decomposed Granite, Crushed Rock, Rubble and Boulders by type
c) All submitted products may only be used when approved by the Landscape Architect and City. Substitution of materials must receive prior, written authorization from the Landscape Architect and City before delivery to the site.

[Add subsection]
800-1.2.5 Mulch
Type 7 - Decomposed Granite Fines
a) All planting areas to be covered with 3/4" crushed rock, 3/8" minus decomposed granite, or rubble as per plan.
b) Color shall be per plan.
c) Available from Southwest Boulder and Stone, Phone (800) 540-1147 or equal. Contractor to submit one physical sample of each type in additional to the PDF photo submittal for approval prior to installation.

800-1.5.2 Headers
"Headers shall be Concrete Headers/Mow Curbing - Concrete shall be 5 sack mix with a maximum slump test of four inches (4"). Provide sufficient concrete forming and stakes (maximum 3' o.c.) to provide continuous line without waving."

[Add subsection]
800-1.6 Boulders
a) Size and quantity shall be as shown on the plans. Boulder surface to be free of cracks, disfragments, and broken or cracked edges. Boulder type shall be per plans. Sample photos shall in PDF format shall be submitted to Landscape Architect and City for approval or a site visit will be performed by the City.

SECTION 801 - Installation

[Add the following]:
801-1 General
a. Landscape installation shall conform to the provisions of Section 308 of the Standard Specifications and their provisions.
a. Contractor shall have appropriate licenses, bonds, insurance and City Business license.
b. Contractor to coordinate with other trades.
b. The CONTRACTOR shall visit the construction site and shall take all measurements and obtain any other information as may be necessary for a complete and conclusive bid.
c. The work required is indicated on the drawings and includes, but is not necessarily limited to: soil preparation, providing and placing decomposed

granite, cobble,
d. Landscape workmanship and materials shall be of the highest standards and quality.
e. All aluminum edging and rock/cobble locations to be laid out for approval prior to installation of irrigation lines and re-marked prior to placement of rock, cobble or other material. Layout shall be approved by City and/or Landscape Architect prior to installation of irrigation and/or material.

[Add subsection]:
801-1.1 Inspections
a. Inspections ensure compliance with the drawings and specifications. The Contractor will contact the City's representative at least 48 hours (two working days) in advance of each inspection. No work will proceed until the City has inspected and verbally approved the work activity. An inspection is required at each of the following steps including but not limited to:

1. Inspection of rough grade.
2. Layout and acceptance of D.G., cobble, and crushed rock areas.
3. Completion of hardscape work.

[Add subsection]:
801-1.3 Boulders
a. Bury boulders 1/3 of boulder dimension so that they appear in natural state. Orientation of boulder shall expose most surface area possible set as approved by Engineer.

[Add subsection]:
801-1.5 3/8" Minus Stabilized Decomposed Granite Pavement
a. Decomposed Granite will be an imported material screened to include stone particle 3/8" minus Stabilizer Solutions Stabilizer Binder for Aggregate Pathways (or approved equal).
b. Prior to placing decomposed granite, fine grade area, removing rocks greater than 1" diameter, moisture condition and compact sub-grade material.
c. Install 3/8" minus with Stabilizer Solutions Binder for Aggregate Pathways according to manufacturer's recommendations and per plan. Toll Free Phone number: 800-336-2468.
d. Stabilizer® shall be thoroughly pre-mixed with aggregate at the rate of 15-lbs of Stabilizer® per 1-ton of aggregate. Verify with manufacturer correct Stabilizer® rate for climate. Drop spreading of Stabilizer over pre-placed aggregate or mixing by rototilling is not acceptable. Stabilizer shall be mechanically per-mixed per manufacturer's recommendations using an approved mechanical blending unit to adequately blend Stabilizer with aggregate (Bucket blending is not and approved blending apparatus). Always blend Stabilizer and aggregate dry.
e. After pre-blending, place Stabilized Aggregate directly on prepared sub-grade. Level to desired grade and cross section.
f. Water heavily for full depth moisture penetration of profile. Water activates Stabilizer®. Apply 25 to 45-gallons of water per 1-ton to achieve saturation. Randomly test for depth using a probing device, which reaches full depth.
g. Contractor shall wait a minimum of 6-72 hours or until such time that the Stabilized Aggregate is able to accept compaction from a 1 to 5-ton roller without separation, plowing or any other physical compromise of the aggregate.
h. If surface aggregate dries significantly quicker than subsurface material, lightly mist surface before compaction.
i. Compact Stabilized Aggregate to 85% relative compaction by equipment such as; a 2 to 5-ton double drum roller making 3 to 2 passes. Do not begin compaction for 6 hours after placement and up to 72 hours. DO NOT use a vibratory plate compactor or vibration feature on roller, as vibration separates large aggregate particles. If pumping or pancaking of surface occurs, surface is still too wet to roll.

j. Take care in compacting surface when adjacent to planting and irrigation systems, use 8" or 10" hand tamp. Installation of Stabilized Aggregate more than 3" thick shall be installed in lifts. If 4" thick compacted (2) 2" lifts. If 5" thick compacted (2) 2.5" lifts. If Stabilized Aggregate is pre-moistened before installation entire 4" or 5" lift may be installed.
k. Lightly spray surface area following compaction. Do not disturb aggregate surface with spray action.
l. Finished surface shall be smooth, uniform and solid with no evidence of chipping or cracking. Cured and compacted pathway shall be firm throughout profile with no spongy areas. Loose material shall not be present on surface after installation, but may appear after use and according to environmental conditions. Pathway shall remain stable underneath loose granite on top with a "natural" look. Any significant irregularities in path surface shall be repaired to the uniformity of entire installation.
m. Contractor shall furnish and install construction fence around new surface to prevent public access. Fencing shall be maintained in place for a minimum of 12-72 hours after completion of installation, or as directed by the City. Drying period may take longer due to weather conditions.
n. Contractor shall notify City that landscape irrigation shall be restricted near Stabilized Aggregate surface until drying period is complete. Standing water on surface and adjacent to path shall be restricted at all times.

801-2 EARTHWORK

[Add the following]:
801-2.1 General
a. All grading, mounding and all weed control measures shall be completed prior to irrigation and planting. This work shall not commence until the agronomic soil test has been completed. Should 30 calendar days elapse between completion of soil preparation and commencement of planting, all areas will be prepared again.
b. Excess soil will be placed on top of exposed wall footings and compacted to 90% as required to cover 6" of footing with soil. City will employ Soils Engineer to provide compaction testing. Contractor shall notify City 48 hours' notice to request soils testing.
c. Remove rocks, sticks, grass and other undesirable objects unsuitable to plants.

[Add the following]:
801-2.3 Finished Grading
a. All landscape areas will be graded to finish grades, reestablishing flow lines as approved prior to amending the soil. Finish grades will be inspected upon completion. The contractor will not proceed with planting work until finish

grades have been inspected and accepted by the City.

[Add Subsection]:
801-6 MAINTENANCE AND PLANT ESTABLISHMENT
801-6.1 General
a. The Contractor shall maintain all landscaped areas for a minimum plant establishment period of not less than ninety (90) days from the date of written acceptance of the project.

[Add subsection]:
801-6.2 Maintenance Tasks
a. During the contract period and up to final formal acceptance by the city, the Contractor shall provide weekly maintenance within the work limits of the contract including, but not limited to: 1) removing trash a minimum of once a week; 2) checking and repairing irrigation systems weekly; and 3) all gravel and non-stabilized decomposed granite areas shall be raked weekly to the satisfaction of the City. Note: Do not prune trees or shrubs without first advising the City.

[Add subsection]
801-6.5 Weekly Reports
a. The Contractor, as part of this contract, shall submit reports and schedules as requested. Failure to submit reports and schedules in the time specified may result in a Performance Deficiency Deduction. The City will supply the format for these forms. Such reports must be filled out in detail. The following is a breakdown of required forms and schedules.
b. The contractor shall submit these reports as they are completed. Weekly reports shall be filled out by Friday of every week. Payments due shall not be disbursed unless all reports have been submitted to the City.

[Add subsection]:
801-6.5.1 Schedule of Weekly Maintenance
a. Contractor shall provide a schedule of weekly maintenance identifying areas to be maintained and a breakdown of when each function shall be performed.
b. The City will assume that the Contractor will adhere to the schedule. The City must receive notification of changes at least 12 hours in advance.

[Add subsection]:
801-6.5.3 Weekly Activity Report
a. Indicating the following:

1. Litter pickup
2. Weed control
3. Chemical maintenance - herbicides and pesticide applications
4. Incident/Accident

[Add subsection]:
801-6.6 Performance Deficiencies and Reduction in Payments Due
a. The City of Palm Desert has set up very specific criteria in which to evaluate the performance of the Contractor on a weekly basis. If performance by the Contractor is deficient, the City reserves the right to subtract costs from the monthly billing and/or hire another contractor to provide the service and deduct the expense from the contract retention. Since it is difficult to quantify and assess a value to every aspect of the work, the City shall implement a standard \$100 cost per incident. The following describes deficiencies:
1. Lack of compliance to specifications (i.e., pick up litter, sweep/rake, weed)
2. Failure to provide specified reports or to falsify reports.
3. Failure to supply adequate equipment, labor or supervision.
4. Failure to comply with schedules. Variances may be approved by request. Delays in part acquisition or adverse weather conditions will be taken into consideration.
5. Failure to protect public health and safety.
b. The City reserves the right to cancel and/or assume maintenance duties and remaining contract amounts shall be deducted from remaining fiscal commitment.

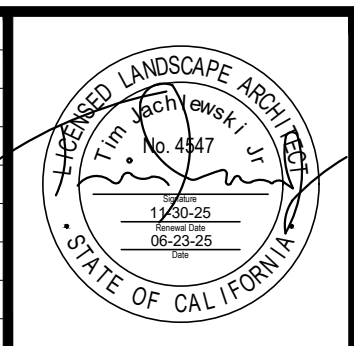
[Add subsection]:
801-6.7 End of Establishment Period
a. Approximately one week prior to the end of the establishment period, the City will conduct a walk-through of the area, noting deficiencies and problems to be resolved. The Contractor will be required to resolve all noted items. If the items cannot be resolved within the time remaining, the establishment period will be extended, without cost to the City, until the items are corrected.

[Add subsection]:
SITE AMENITIES
a. Contractor shall provide and install all site amenities per the project plans and manufacturer instructions, specifications, and approved shop drawings.
b. Measurement and Payment shall be at the contract unit bid price per Each and shall include full compensation for providing this item of work, complete in place, and no additional compensation will be allowed.



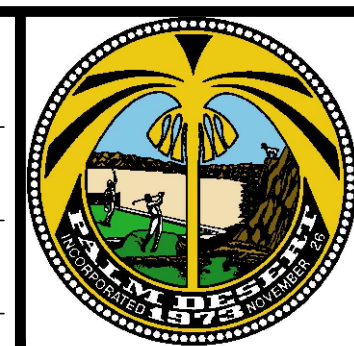
ENGINEER			CITY		
MARK	BY	DATE	APPR.	DATE	

REVISIONS		



CITY OF PALM DESERT	
APPROVED BY:	DATE
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24	
REVIEWED AND RECOMMENDED BY:	DATE

PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE CONSTRUCTION SPECS.
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET	11
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

PLANT SCHEDULE

SCIENTIFIC NAME

TREES

DALBERGIA SISSOO
(EXCLUDE FROM BID -CITY
TO INSTALL SEPARATELY)

QUERCUS VIRGINIANA 'CATHEDRAL'

QUERCUS VIRGINIANA 'HERITAGE'

EXISTING TREE OR PALM TO REMAIN
(PROTECT IN PLACE)

SHRUBS

ASCLEPIAS SUBULATA

BOUTELOUA GRACILIS 'BLOND AMBITION'

CAESALPINIA PULCHERRIMA

EREMOPHILA HYGROPHANA 'BLUE BELLS'

HESPERALOE X 'PERFU' 'PINK PARADE'

LEUCOPHYLLUM LAN. 'LYNN'S LEGACY'

LEUCOPHYLLUM ZYGOPHYLLUM CIMARRON

MUHLENBERGIA CAPILLARIS 'REGAL MIST'

POLIOMINTHA MADERENSIS 'LAVENDER SPICE'

SALVIA GREGGII SIERRA LINDA

TURF - SOD (PER CITY STANDARD SPECIES)

EXISTING LAWN

EXISTING FITNESS
EQUIPMENT

EXISTING FITNESS
EQUIPMENT

EXISTING
RESTROOM

5 YEARS - 12 YEARS

6-23 MONTHS

2 YEARS - 5 YEARS

EXISTING PALMS TO
REMAIN. PROTECT-
IN-PLACE (TYP.)

EXISTING
SIDEWALK
TO REMAIN.

TURF MOUND
EXISTING TURF TO
REMAIN
EXISTING TREE TO
REMAIN. PROTECT-
IN-PLACE (TYP.)

BOULDER PER LANDSCAPE
CONSTRUCTION PLAN (TYP.)

EXISTING CONCRETE WALKWAY

APPLY MULCH PER LANDSCAPE
CONSTRUCTION PLANS, TYP.

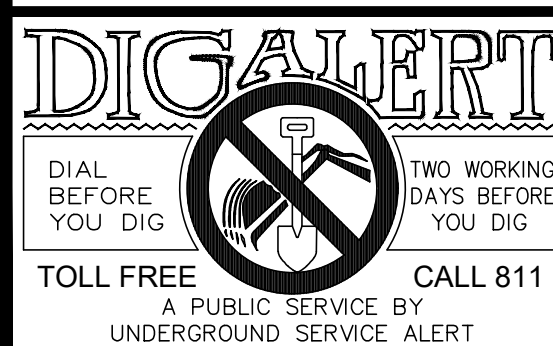
MATCHLINE: SEE SHEET L.2-2

0' 5' 10' 20' 30'

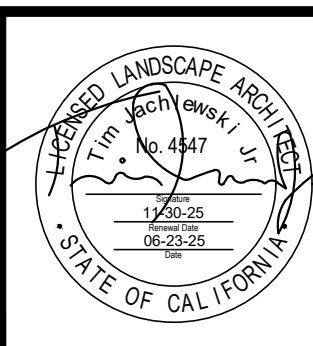


NORTH

L.2-1



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE

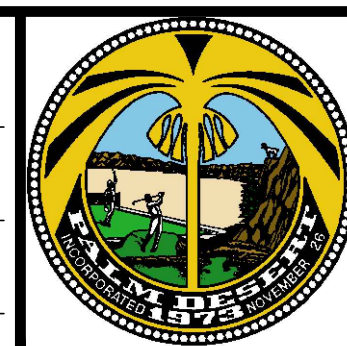


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25
 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



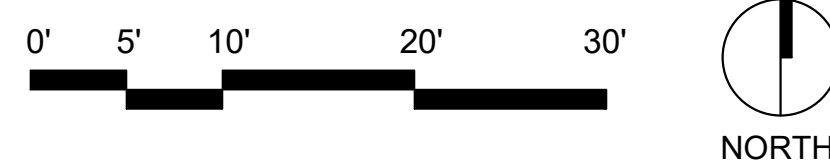
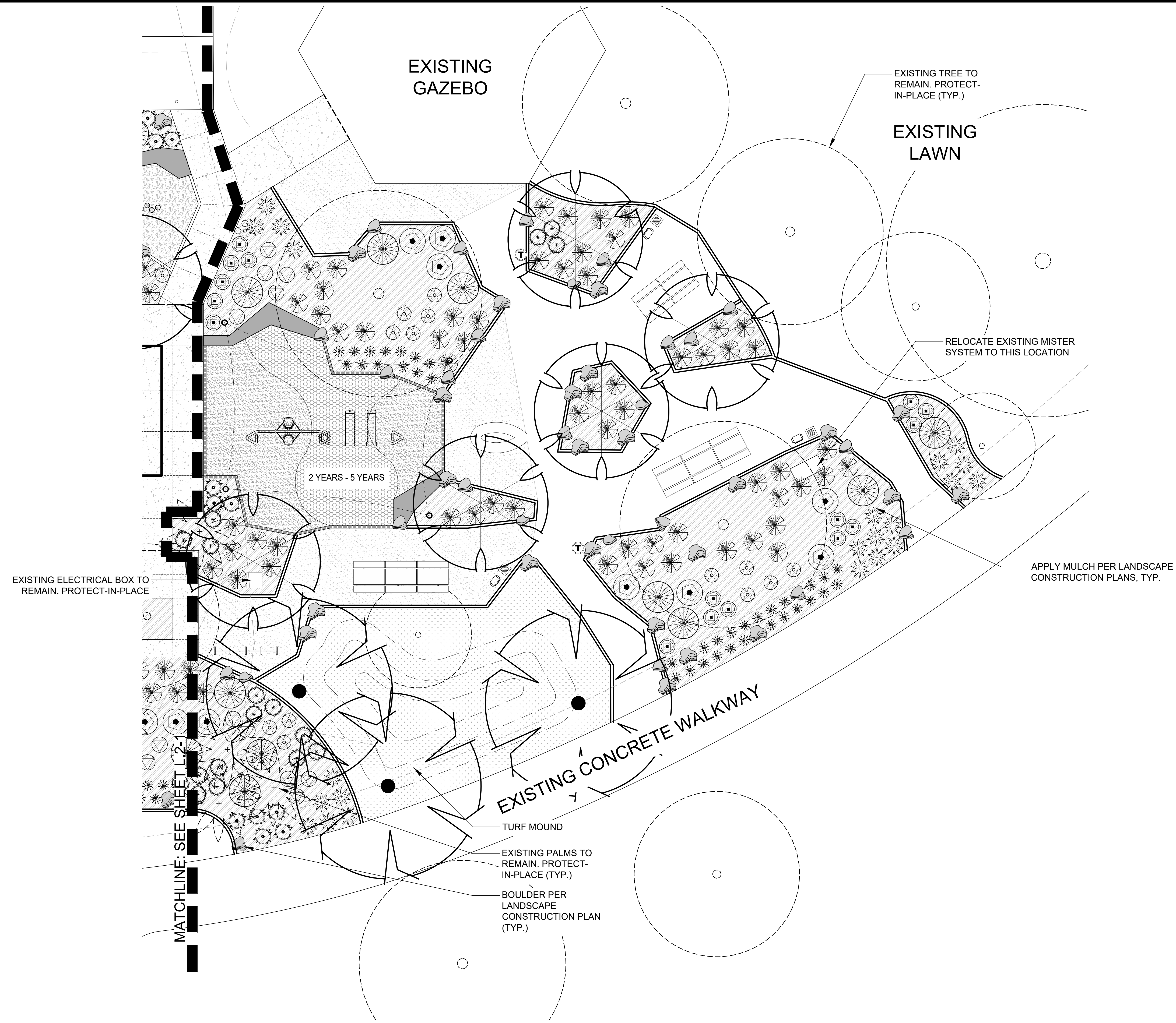
CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE PLANTING PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	12
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

PLANT SCHEDULE

SCIENTIFIC NAME	COMMON NAME
TREES	
DALBERGIA SISSOO (EXCLUDE FROM BID -CITY TO INSTALL SEPARATELY)	SISSOO TREE
QUERCUS VIRGINIANA 'CATHEDRAL'	SOUTHERN LIVE OAK
QUERCUS VIRGINIANA 'HERITAGE'	SOUTHERN LIVE OAK
EXISTING TREE OR PALM TO REMAIN (PROTECT IN PLACE)	

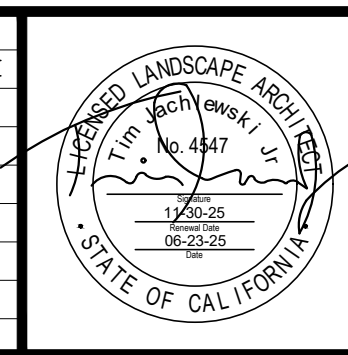
SHRUBS	
ASCLEPIAS SUBULATA	DESERT MILKWEED
BOUTELOUA GRACILIS 'BLOND AMBITION'	BLOND AMBITION BLUE GRAMA
CAESALPINIA PULCHERRIMA	RED BIRD OF PARADISE
EREMOPHILA HYGROPHANA 'BLUE BELLS'	BLUE BELLS EMU BUSH
HESPERALOE X 'PERFU' 'PINK PARADE'	PINK PARADE RED YUCCA
LEUCOPHYLLUM LAN. 'LYNN'S LEGACY'	LYNN'S LEGACY TX RANGER
LEUCOPHYLLUM ZYGOPHYLLUM CIMARRON	CIMARRON TEXAS RANGER
MUHLENBERGIA CAPILLARIS 'REGAL MIST'	REGAL MIST MUHLENBERGIA
POLIOMINTHA MADERENSIS LAVENDER SPICE	MEXICAN OREGANO
SALVIA GREGGII SIERRA LINDA	AUTUMN SAGE
TURF - SOD (PER CITY STANDARD SPECIES)	



L.2-2



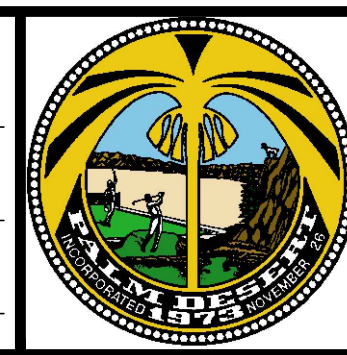
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE		APPR.	DATE	



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: _____ DATE: _____
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

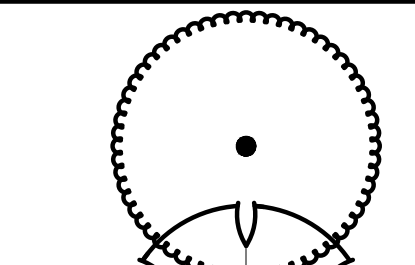
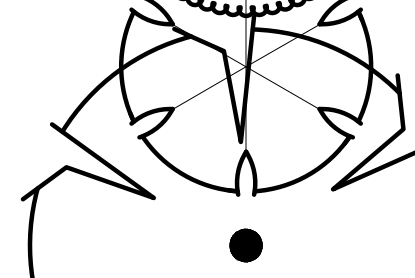


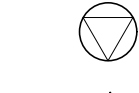




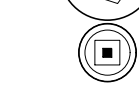


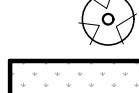


PLAN CHECKED BY:	
CIVIL	_____
TRAFFIC	_____
LANDSCAPE	_____



CITY OF PALM DESERT
 LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 LANDSCAPE PLANTING PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET	13
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

PLANT SCHEDULE

SCIENTIFIC NAME	COMMON NAME	QUANTITY	SIZE	SPACING	REMARKS	WATER USE (WUCOLS-Z3)	MATURE HEIGHT	MATURE WIDTH	INST (H x
TREES									
 DALBERGIA SISSOO (EXCLUDE FROM BID -CITY TO INSTALL SEPARATELY)	SISSOO TREE	1	48" BOX	PER PLAN		MED	30'-50'		
 QUERCUS VIRGINIANA 'CATHEDRAL'	SOUTHERN LIVE OAK	6	36" BOX	PER PLAN		MED	40'-80'	80'	
 QUERCUS VIRGINIANA 'HERITAGE'	SOUTHERN LIVE OAK	3	36" BOX	PER PLAN		MED	40'-80'	80'	
 EXISTING TREE OR PALM TO REMAIN (PROTECT IN PLACE)									
SHRUBS									
 ASCLEPIAS SUBULATA	DESERT MILKWEED	44	5 GAL.	PER PLAN		LOW	1.5'-3'	1'-2'	
 BOUTELOUA GRACILIS 'BLOND AMBITION'	BLOND AMBITION BLUE GRAMA	74	5 GAL.	PER PLAN		MED	2.5'-3'	1'-2'	
 CAESALPINIA PULCHERRIMA	RED BIRD OF PARADISE	22	15 GAL.	PER PLAN		LOW	6'	6'	
 EREMOPHILA HYGROPHANA 'BLUE BELLS'	BLUE BELLS EMU BUSH	61	5 GAL.	PER PLAN		LOW	2'-3'	3'	
 HESPERALOE X 'PERFU' 'PINK PARADE'	PINK PARADE RED YUCCA	45	5 GAL.	PER PLAN		LOW	3'-4'	3'-4'	
 LEUCOPHYLLUM LAN. 'LYNN'S LEGACY'	LYNN'S LEGACY TX RANGER	29	5 GAL.	PER PLAN		LOW	5'	5'	
 LEUCOPHYLLUM ZYGOPHYLLUM CIMARRON	CIMARRON TEXAS RANGER	16	5 GAL.	PER PLAN		LOW	3'	4'	
 MUHLENBERGIA CAPILLARIS 'REGAL MIST'	REGAL MIST MUHLENBERGIA	167	5 GAL.	PER PLAN		MED	3'	3'	
 POLIOMINTHA MADERENSIS LAVENDER SPICE	MEXICAN OREGANO	31	5 GAL.	PER PLAN		MED	3'	3'	
 SALVIA GREGGII SIERRA LINDA	AUTUMN SAGE	49	5 GAL.	PER PLAN		MED	3'	3'	
 TURF - SOD (PER CITY STANDARD SPECIES)									

PLANTING NOTES

- THESE PLANS WERE PREPARED USING THE SURVEY AND BASE INFORMATION PROVIDED BY MBI. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE PLANS COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND OWNER TO WORK OUT A SOLUTION AGREEABLE TO THE OWNER. IF THE CONTRACTOR FAILS TO NOTIFY THE LANDSCAPE ARCHITECT AND OWNER OF THE DISCREPANCIES PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. THE CONTRACTOR SHALL CLEARLY MARK ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PRESERVING ALL UTILITIES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRING DAMAGED UTILITIES AT NO ADDITIONAL COST TO OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION WITHIN OR OUTSIDE THE PROJECT LIMIT OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL CONDUIT AND IRRIGATION SLEEVES WITH OTHER CONSTRUCTION TRADE CONTRACTORS.
- THE CONTRACTOR SHALL PROTECT ALL TREES AND THE DRIPLINE AREA OF ALL TREES FROM FROM STOCKPILING, MATERIAL STORAGE, EQUIPMENT, VEHICLE PARKING, DRIVING, CHEMICALS, RUNOFF, EXCESS WATER OR ANY OTHER CIRCUMSTANCE THAT WOULD INJURE OR KILL THE TREE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE TREES DURING THE COURSE OF CONSTRUCTION. ANY TREES THAT ARE DAMAGED OR KILLED SHALL BE REPLACED BY THE CONTRACTOR WITH A NEW TREE OF EQUAL SPECIES AND SIZE.
- THE PLANTING PLAN IS DIAGRAMMATIC. ALL PLANT QUANTITIES AND SQUARE FOOTAGES ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIELD CONDITIONS AND SHALL PROVIDE THE NECESSARY PLANTS TO FULFILL THE INTENT OF THE PLANS.
- CONTRACTOR SHALL OBTAIN A HORTICULTURAL SOILS TEST AND RECOMMENDATIONS BASED ON THE EXISTING SITE SOILS AND BASED ON THE PROPOSED PLANT LIST. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS REPORT, AND AT A MINIMUM, AMEND THE TOP 6" OF SOIL WITH 2" OF HUMIC COMPOST (EXCLUDING SLOPES 2:1 AND STEEPER) AND THE TOP 12" OF THE PLANTING BACKFILL WITH 25% HUMIC COMPOST MANUFACTURED BY AGRI-SERVICE, INC. OR APPROVED EQUAL.
- PRIOR TO DIGGING HOLES, CONTRACTOR SHALL LOCATE AND SET OUT ALL PLANT MATERIAL IN BOXES/ CONTAINERS PER PLAN FOR LANDSCAPE ARCHITECT REVIEW PRIOR TO PLANTING. CONTRACTOR SHALL ADJUST PLANT LOCATIONS, IF-NEEDED, AS DIRECTED BY LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.
- TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 7 FEET ABOVE THE WALKWAY GRADE AND SO THAT ALL BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 14 FEET ABOVE THE GRADE OF THE TRAVEL WAY.
- ROOT BARRIER SHALL BE INSTALLED FOR ALL TREES WITHIN 6' OF HARDSCAPE PER DETAILS.
- CONTRACTOR SHALL PROVIDE MUCLH PER LANDSCAPE CONSTRUCTION PLAN.
- SEE SHEET L.2-4 FOR PLANTING DETAILS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

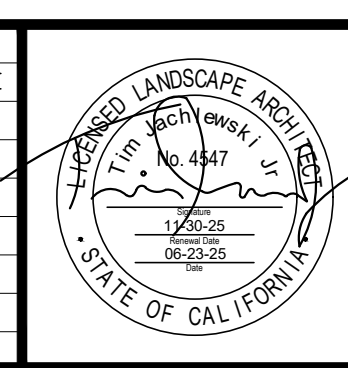
MINIMUM TREE SEPARATION DISTANCE

IMPROVEMENT	DISTANCE
TRAFFIC SIGNAL, STOP SIGN	20 FEET
UNDERGROUND UTILITY LINES (EXCEPT SEWER)	5 FEET
SEWER LINES	10 FEET
ABOVE GROUND UTILITY STRUCTURES (TRANSFORMERS, HYDRANTS, UTILITY POLES, ETC.)	10 FEET
DRIVEWAYS	10 FEET
INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS)	25 FEET

L.2-3



ENGINEER			REVISIONS			CITY		
MARK	BY	DATE				APPR.	DATE	



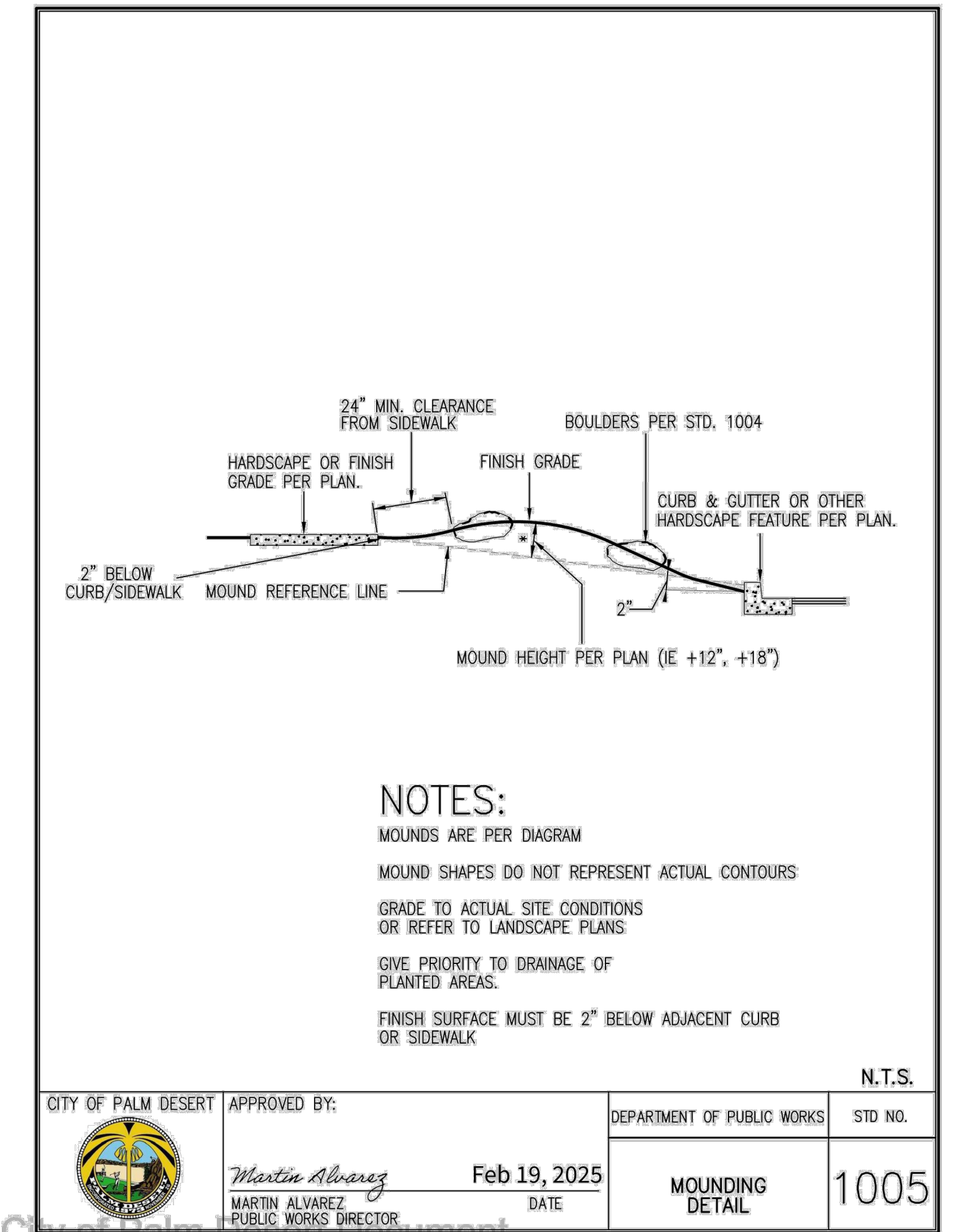
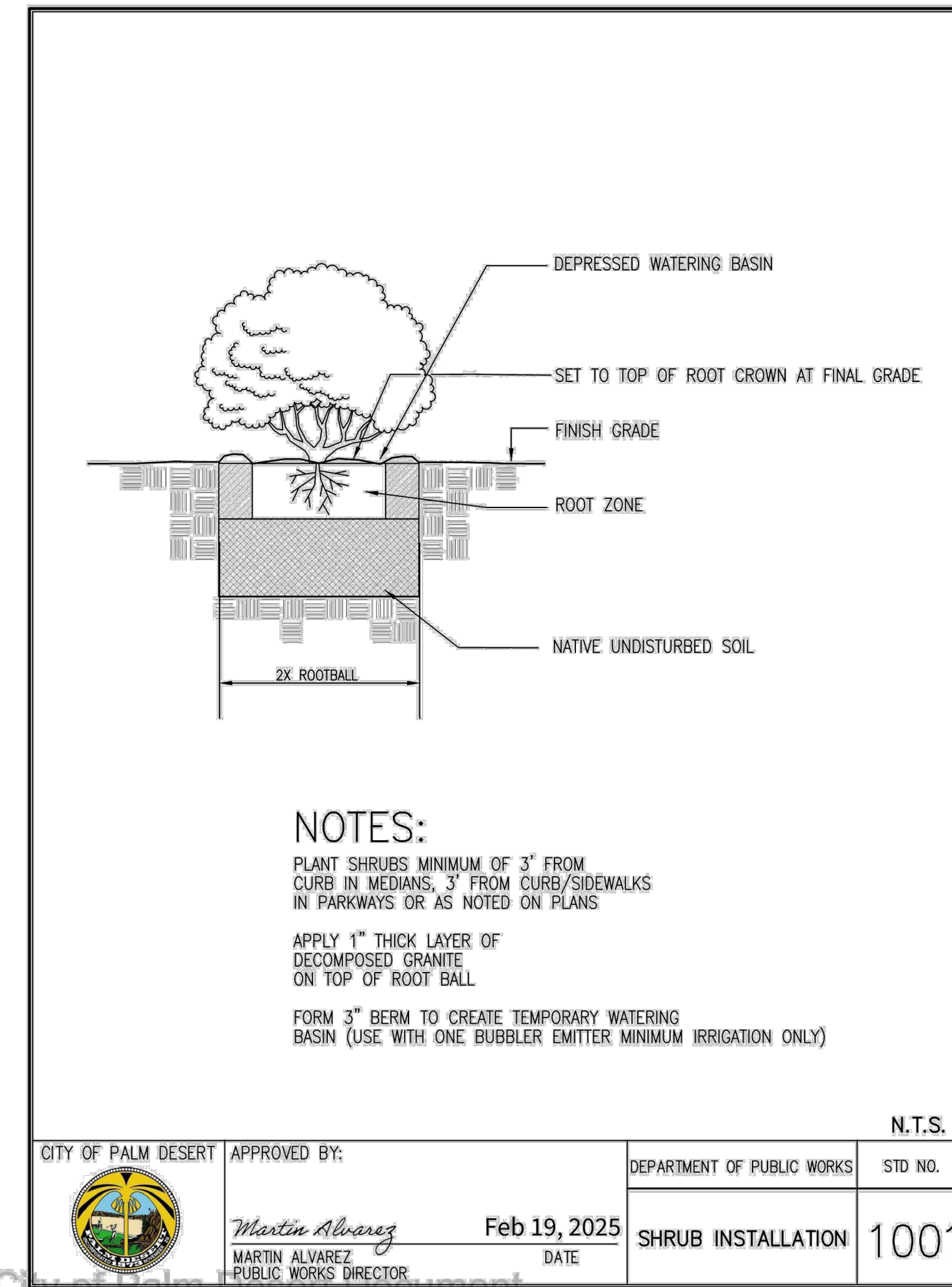
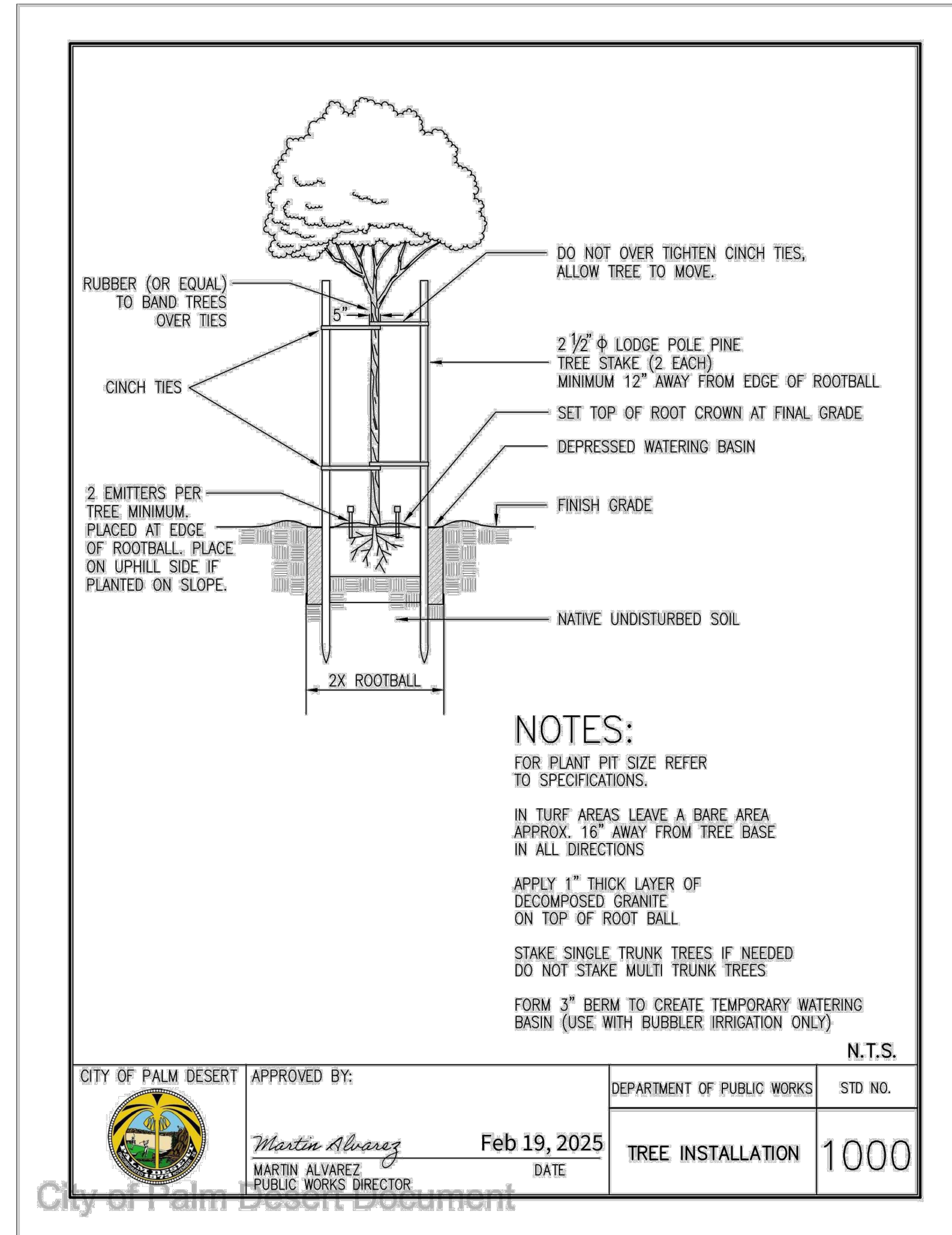
IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.in-sitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24 DATE: _____
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

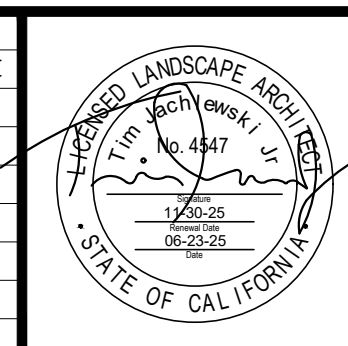
PLAN CHECKED BY: _____
 CIVIL _____
 TRAFFIC _____
 LANDSCAPE _____

CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE PLANTING LEGEND & NOTES
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET 14 OF SHEETS 26
 CITY FILE NUMBER PG XX-XXXX



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.

2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com

PREPARED UNDER THE DIRECT SUPERVISION OF:

 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT

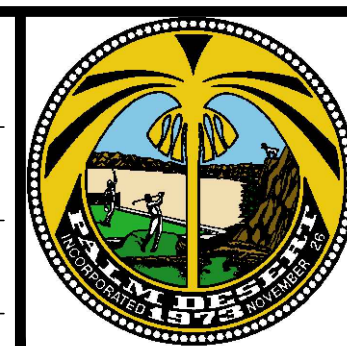
APPROVED BY:

MICHAEL S. ROWE, PE DATE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24

REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT

LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 LANDSCAPE PLANTING DETAILS

LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	15
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

**SECTION 329300
LANDSCAPING**

PART 1 - GENERAL

1.01 SUMMARY:

- A. The work includes all services, labor, materials, transportation and equipment necessary to perform the work indicated on the Drawings and as specified. The conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

1.02 RELATED REQUIREMENTS:

- A. Section 328400 Irrigation System
- B. Section 320533 Landscape Maintenance

1.03 SUBMITTALS:

- A. Submit the following for tree, shrub, and plant samples: Provide one PDF file illustrating one typical photo labeled with scientific name, cultivar, and size of each plant species and every species listed as 'specimen' in the Plant Schedule on the Plans. Digital Photos will be used as a baseline standard for plant size, fullness, and condition and will be used to compare the remainder of the plant materials for the project at the project site during installation. At the Contractor's option and expense, he may retain the services of the Landscape Architect to review trees tagged at the nursery or at its place of growth.
- B. Submit certificates of compliance/ manufacturer cut sheets in one pdf file of:
 - 1. Soil amendments
 - 2. Fertilizers
 - 3. Root barrier
 - 4. Tree stakes
 - 5. Tree ties
 - 6. Compost material
 - 7. Mulch materials
 - 8. Edging materials (if specified on plans)
 - 9. Boulders, cobble or other materials (if specified on plans)
- C. Submit horticultural soils report and recommendations report as one PDF file (based on the proposed plant palette per Section 1.08.)

1.04 GUARANTEES AND REPLACEMENTS:

- A. Shrubs, vines and groundcovers shall be guaranteed to remain healthy and vigorously growing for a period of ninety (90) days from date of final acceptance of Maintenance Period of project.
- B. Trees shall be guaranteed to live in a healthy condition for a period of one (1) year from date of final acceptance of Maintenance Period of project.
- C. Plants found to be dead or not in a vigorous condition within the Maintenance and Guarantee Periods shall be replaced within fourteen (14) days at Contractor's expense.
- D. Plants used for replacement shall be the same kind and size as specified in the plant list. They shall be furnished, planted and fertilized as originally specified. The expense of all repair work on existing improvements damaged during replacement shall be borne by the Contractor.

1.05 QUALITY ASSURANCE:

- A. Reviews herein specified shall be made by the Landscape architect or Landscape Inspector. The Contractor shall request review in writing a minimum of five business days in advance, for the following parts of work:
 - 1. Pre-job meeting to introduce Landscape architect, Landscape Inspector, Contractor, job project manager and job superintendent and to discuss the particular requirements of the job.
 - 2. Incorporation of soil conditioning and fertilizing into the soil. Observation shall begin prior to amendments being rototilled into the soil. Amendment materials shall be distributed in piles around the site in quantities corresponding to the soils analysis recommendations "per 1,000 sq. ft.". Invoices showing materials and quantities purchased shall be available for review.
 - 3. When trees, shrubs and vines are spotted in place (in their containers or boxes) for planting, but before planting holes are excavated.
 - 4. Upon completion of finish grades and planting.
 - 5. When planting, and all other indicated and specified work, except the Maintenance Period, has been completed. Acceptance, in writing, shall establish beginning of the Maintenance Period.
 - 6. Final review at the completion of the Maintenance Period. Contingent on acceptance, this review shall establish the beginning date for the Guarantee Period.

1.06 MAINTENANCE:

- A. The Contractor shall continuously maintain all involved areas during the progress of the work and during the maintenance period until the final acceptance of the work.
- B. The Maintenance Period begins on the first day after written acceptance of planting operations is received from the Landscape architect, and shall continue thereafter for no less than ninety (90) continuous calendar days.
- C. The contract completion date of the contract maintenance period will be extended, at the contractor's expense, when in the opinion of the Landscape Architect or Owner, improper maintenance or possible poor or unhealthy condition of planted material or poorly established areas are evident at the

termination of the scheduled maintenance period. The Contractor shall be responsible for additional maintenance of the work until work is completed and acceptable.

- D. See Section 320533 for specific Maintenance Requirements.

1.07 GENERAL REQUIREMENTS:

- A. The term "Planting Area" shall mean all areas to be planted with trees, shrubs, groundcovers, sod and seed.
- B. Actual planting shall be performed during those periods when weather and soil conditions are suitable in accordance with locally accepted horticultural practice.
- C. All rock and other growth or debris accumulated during the duration of the project shall be removed from the site.
- D. Prior to excavation for planting or placing of plant materials, locate all underground improvements, utility lines, etc. and take proper precautions to avoid damage. In the event of a conflict between such lines and plant locations, notify Landscape architect and receive direction prior to proceeding. The Contractor assumes responsibility for making repairs for damages resulting from work as herein specified.
- E. Grading and soil preparation work shall be performed only during the period when beneficial and optimum results may be obtained. If the moisture content of the soil should reach such a level that working it would destroy soil structure, spreading and grading operations shall be suspended until the moisture content is increased or reduced to acceptable levels and the desired results are likely to be obtained.
- F. Scaled dimensions are approximate. Before proceeding with work, carefully check and verify dimensions and immediately inform the Landscape architect of discrepancies between the drawings and specifications and actual conditions.
- G. Quantities for plant materials are shown for convenience only, and not guaranteed. Contractor shall check and verify count and supply the sufficient number to fulfill intent of drawings.
- H. Adequately stake, barricade, and protect irrigation equipment, manholes, utility lines, and other existing property during all phases of the soil amending and grading operations.
- I. Rejection and Substitution: Plants not conforming to the requirements herein specified shall be considered defective, and such plants, whether in place or not, shall be marked as rejected and be immediately removed from the site of the work and replaced with acceptable plant materials. The plant materials shall meet all applicable inspections required by law. Plants shall be of the species, variety, size, age, flower color and condition as specified herein and/or as indicated on the drawings. Under no condition will there be any substitution of plant species, variety, or reduced sizes for those listed on the accompanying drawings, except with the expressed written consent of the Landscape architect.
- J. All utilities (water and electricity) used during the installation and maintenance of the landscaping and irrigation systems for this project shall be paid for by the Owner.

1.08 FINAL SOIL AMENDMENT QUANTITIES:

- A. Upon completion of all rough grading operations of planted areas, a minimum of six (6) representative samples (or 1 soil sampling per every 7 lots for home developments) of existing soil found in the planting areas shall be taken by the Contractor and at his/her expense sent to an independent soil testing laboratory for an Horticultural suitability analysis and recommendations.
- B. In order to reduce runoff and encourage healthy plant growth, a soil management report shall be completed as follows:
 - 1. Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants.
 - 2. The soil analysis shall include:
 - a. Soil texture
 - b. Infiltration rate determined by laboratory test or soil texture infiltration rate table
 - c. Soil pH
 - d. Total soluble salts
 - e. Sodium
 - f. Percent organic matter
 - 3. The soil report shall include recommendations for quantity and application rate of amendments and any corrective measures required to adjust items a. through f. listed above to acceptable levels BASED ON THE PROPOSED PLANT SCHEDULE. The recommendations shall be based on organic-based fertilizers, amendments and best-practices. These recommendations shall then be compared with those listed in Paragraphs 2.02 and 3.01 and the contract modified accordingly.

1.09 SOIL PREPARATION CONFORMANCE

Amendment materials shall be distributed in piles around the site in quantities corresponding to the soils analysis "per 1,000 sq. ft." recommendations. Invoices showing materials and quantities purchased shall be available for review. The Landscape architect may visually compare the distribution piles and total quantities of each material furnished against the soils analysis recommendations, but it is the responsibility of the contractor to fulfill and verify compliance with the recommendations of the soil analysis report. After visual observation by the Landscape architect and verification by the contractor of the distribution and quantities of soil amendments, the Contractor may then commence with soil conditioning operations per section 3.01

1.10 PLANT MATERIAL QUANTITY CONFORMANCE

- A. After installation of plant materials, and coinciding with the pre-maintenance observation, the Landscape architect, with the heretofore specified signed copies of the required certificates, trip slips and invoices for the plant materials and related items, may inventory such material and observe the total area and/or the amounts specified. It is the contractor's responsibility to verify all quantities have been installed per plans. If the required amounts have not been furnished, the Landscape architect may require the installation of additional materials to fulfill the minimum requirements specified.

PART 2 - PRODUCTS

2.01 SOIL AMENDMENT AND FERTILIZER:

- A. Soil Conditioner: Composted Derivatives equivalent to "Humic Compost" manufactured by Agri-Service, Inc. and having the following properties: Humic Compost shall have fine texture and a dark brown color. Compost feedstock shall be clean yard trimmings generated from source-separated landscape maintenance. No animal wastes or sludge wastes shall be added. The shredded yard trimmings shall be composted for a minimum period of one month, with peak temperatures reaching between 132° to 155° F throughout the thermophilic stage. Composting shall be done by the windrow method with regular turning to expose all parts of the pile to high temperatures in order to achieve weed seed and pathogen kill. Product shall be processed according to Title 14 regulations for composted green waste. Curing phase shall be up to two months. Moisture content at time of delivery shall be approximately 25%. One cubic yard of compost shall weigh an average of 950 to 1150 pounds. Finished compost shall be screened through a 3/8 inch mesh.
- B. Gypsum shall be commercially processed and packaged gypsum (CaSo, 2H 0) with minimum 80% grade containing 14% minimum combined sulfur.
- C. Iron Sulphate: Ferric or ferrous sulphate in pelleted or granular form containing not less than 18 percent metallic iron. Material shall conform to the Horticultural Code of the State of California.
- D. Pre-plant fertilizer for incorporation with rototilling or plant pit backfill mix shall be of a uniform 'beaded' homogeneous Organic granular composition suitable for application with approved equipment and shall contain the following minimum available percentages by weight of plant food:

1. Nitrogen	5% minimum
2. Phosphoric acid	3% minimum
3. Potash	1% minimum
4. Iron	1%
5. Manganese	.05%
6. Zinc	.05%
7. Humic Acids (derived from compost)	15%
8. Soil Penetrant (alkyl naphthalene sodium sulfonate)	15%
- E. Post-planting Fertilizer for Maintenance Period Fertilization: Organic base, long lasting, non-burning, controlled slow release, free flowing, uniform in composition, suitable for application with approved equipment, and shall contain the following minimum available percentages of weight of plant food :

1. Nitrogen	12% minimum
2. Phosphoric acid	8% minimum
3. Potash	8% minimum
4. Sulphur	7%
5. Iron	2%
6. Manganese	.05%
7. Zinc	.05%
8. Humic Acids (derived from compost)	5%

WARNING: Some fertilizers contain chelated iron which may cause staining of concrete surfaces. Contractor shall use extreme caution when applying fertilizers adjacent to concrete and hardscape areas. All hardscape shall be swept immediately after application. Contractor shall be responsible for removing all iron stains from concrete or Hardscape by sandblasting, or replacement of Hardscape/concrete, as directed by landscape architect, at no additional cost to the Owner.
- F. Planting Tablets: Tightly compressed organic chip type commercial grade planting tablets of varying weighted sizes with the following available percentages by weight of plant food:

1. Nitrogen	20% minimum
2. Phosphoric acid	10% minimum
3. Potash	5% minimum
- G. Post-planting Fertilizer for Palms: Organic base, long lasting, non-burning, controlled slow release, free flowing, uniform in composition, suitable for application with approved equipment, and shall contain the following minimum available percentages of weight of plant food :

1. Nitrogen	3% minimum
2. Phosphoric acid	1% minimum
3. Potash	3% minimum

A micro-nutrient foliar spray for palm fronds is recommended to avoid micro-nutrient deficiencies. It is the responsibility of the contractor to ensure plant health.
- H. Fertilizer Storage: Fertilizer shall be stored in watertight container to minimize

contact with stormwater runoff.

- I. Herbicide Storage: Herbicide shall be stored in watertight container to minimize contact with stormwater runoff.

2.02 PLANTING BACKFILL FOR TREES:

- A. Planting backfill shall be a thoroughly blended mixture of topsoil amendments. The following materials and quantities are to be used as a basis for bidding, and shall be modified based on soil analysis results:

1. Soil Conditioner (Humic Compost)	1 part (top 12" of backfill only)
2. Stock-piled on site soil	3 parts
3. Iron sulphate	2 lbs/per cu. yd. of mix
4. Gypsum	10 lbs/per cu. yd. of mix
5. Pre-plant fertilizer	4 lbs/per cu. yd. of mix

Soil to be used as planting medium for the project shall be fertile, well-drained, of uniform quality, free of stones over 1 inch diameter, sticks, oils, chemicals, plaster, concrete and other deleterious materials. On-site soil may be stockpiled in piles under 4' in height for re-use provided it meets all requirements.

B. Planting Backfill for Date Palms:

- 1. Pure, washed plaster sand only. Do not incorporate fertilizer into backfill mix. Apply post-planting fertilizer only.

2.03 PLANT MATERIALS:

- A. Nomenclature: The scientific and common names of plants herein specified conform with the approved names given in "Sunset Western Garden Book", published by Lane Publishing Company, Menlo Park, California, latest edition.
- B. See list of plant material on drawings.
- C. Quality and size of all plants shall be No. 1, of Pinto Tag stock. They shall be vigorous, of normal growth, free from disease, insects, insect eggs, and/or exceed the measurements specified or the American Standards for Nursery Stock. Pinto Tags shall be submitted to the Landscape architect.
- D. Container stock (1 gal., 5 gal., and 15 gal.) shall have grown in containers for at least six months, but not over two years. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted, except upon special approval. No trees with damaged roots or broken balls shall be planted and no shrubs, vines or groundcovers shall be planted that are "pot bound" or that have damaged roots.
- E. Pruning shall not be done, prior to delivery, except by written approval.
- F. Observation of Plant Materials, required by governing authorities, shall be a responsibility of the contractor, and where necessary, the contractor shall have secured permits or certificates prior to delivery of plants to site.
- G. Plants shall be subject to observation and approval or rejection, at the project site at any time before or during progress of work, for size, variety, condition, latent defects and injuries. Rejected plants shall be removed from the project site immediately.
- H. Substitutions will not be permitted except that if proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size, variety and cost.
- I. Quantities shall be furnished as needed to complete work as shown on drawings.
- J. The Landscape architect reserves the right to observe root condition of any species, particularly those grown from seed, and if found defective, to reject the plants represented by the defective sample.
- K. Identify plant species or varieties correctly on legible, weather-proof labels attached securely at the job site. There shall be a minimum of one labeled plant for each 5 plants in a lot.
- L. Groundcover plants shall be healthy cuttings grown in flats until transplanting.

2.04 HERBICIDE:

Weed Contact Spray, post emergent, systemic product with no soil residual activity formulated as a water soluble liquid containing 50% glyphosate and 14.5% surfactant with surfactant additive. (Use only on noxious weeds that cannot be successfully eradicated with hand weeding.)

2.05 HYDROSEED:

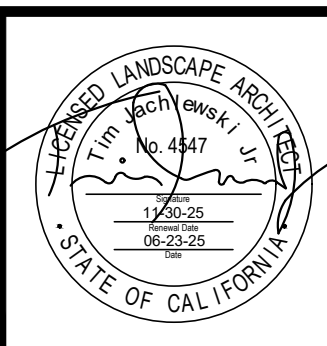
- A. See drawings for hydroseed schedules.

2.06 MULCHING MATERIAL:

- A. Mulching materials shall be per Landscape Construction Plans



ENGINEER			REVISIONS	CITY	
MARK	BY	DATE		APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.in-sitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 [Signature] DATE: 06-23-25
 TIMOTHY JAGLEWSKI, R. LLA #4547 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE:
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE:
 LANDSCAPE

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE

CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PLANTING SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET 16
 OF SHEETS 26
 CITY FILE NUMBER
 PG XX-XXXX

- 2.07 STAKING MATERIALS FOR TREES:
- A. Double staking for 15 gal. and 24" box trees (triple staking for high wind areas) and triple staking for 36" box size trees:
 - 1. Stakes shall be of Lodgepole Pine. These shall be straight shafts, shaved and cut clean and bare of branches and stubs, of uniform thickness with a minimum diameter of 2 inches (3 inches in high wind exposure areas), free of loose knots, splits or bends. Stakes shall be no less than eight (8) feet in length.
 - B. Tree Tie Materials shall be one of the following:
 - 1. Hose wires used for stabilizing trees with stakes, shall be 12 gauge galvanized wire with ultra-violet resistant precut hoses to 10 1/2" and wire precut to 27" or 36" the length as necessary per details.
 - 2. Cinch Ties manufactured by V.I.T. products with the following criteria:
 - (a) Cinch-Tie 24" for 15 gal. single or double stakes
 - (b) Cinch-Tie 32" for 24" box or larger
 - 3. Twist Braces shall be used in areas with high wind exposure, utilizing twist brace stability bars with the following criteria:
 - (a) 4 1/2" loop diameter by 24" length for 24" box trees
 - (b) 4 1/2" loop diameter by 36" length for 36" box trees
- 2.08 GUYING MATERIALS FOR TREES 48" BOX SIZE AND GREATER:
- A. Guy wires shall be of pliable, zinc-coated steel of No. 12 gauge.
 - B. Anchors (deadman) for holding guy wires shall be of 4 inch by 4 inch (4" x 4") solid lumber, 1'-6" in length, or "duckbill" style anchor materials as shown on the details on the drawings.
 - C. Hose for covering wire shall be of 2-ply reinforced rubber, used or new, garden hose type of at least 1/2 inch in diameter.
 - D. Warning indicators, to be attached to guys, shall be of 1/2" PVC pipe and four feet long.
 - E. Tree ties shall be as stated in section 2.08 above.
- 2.09 TRIM GUARDS FOR TREES IN TURF AREAS:
- A. Trim Guards shall be made from quality polyethylene with ultra violet inhibitors and ratcheting latching device.
- 2.10 ROOT BARRIERS FOR TREES:
- A. #UB-24-2 root barriers as manufactured by Deep Root Corp. or approved equal.

PART 3 - EXECUTION

3.01 SOIL CONDITIONING, ROTOTILLING AND FERTILIZING:

- I. After the areas have been graded, follow the Soil Preparation Conformance procedures per section 1.09. Deep water leaching shall be performed if recommended and as specified in the Horticultural Soil Analysis Report. After approval by the Landscape architect of the requirements in section 1.09, the soil conditioning and amendment materials shall be evenly spread over all planting areas and shall be thoroughly scarified to an average depth of six (6) inches by rototilling a minimum of two (2) alternating passes (excluding 2:1 slopes or steeper):
The following materials and quantities are to be used as a basis for bidding, and shall be modified based on soil analysis results:
 - 1. Soil Conditioner (Humic Compost): 6 cu. yd. per 1,000 sq. ft. (2" deep)*
*Minimum required unless soils report states at least 33% organic matter exists within the top six inches of soil.
 - 2. Soil sulphur: 20 lbs/per 1,000 sq. ft.
 - 3. Iron sulphate: 20 lbs/per 1,000 sq. ft.
 - 4. Gypsum: 100 lbs/per 1,000 sq. ft.
 - 5. Pre-plant fertilizer: 20 lbs/per 1,000 sq. ft.
 - (a) Amendments shall be incorporated into the top six (6) inches of finish grade.
 - (b) The thoroughness and completeness of the rototilling and incorporation of the soil conditioners/amendments shall be accepted by the landscape architect in writing, prior to digging planting pits. For slopes 2:1 and steeper, or as per the drawings, omit rototilling.

3.02 FINISH GRADING:

- A. Finish grades shall be as indicated on landscape or civil drawings. Contractor shall notify Landscape architect for a decision should any discrepancies exist between the drawings and site conditions.
- B. Finish grades shall be measured as the final water compacted and settled surface grades and shall be within + 0.1 foot of the spot elevations and grade lines indicated. Grades adjacent to hardscape shall be within +/- .01 feet of the grades indicated on the grading plans.
- C. Molding and rounding of the grades shall be provided at all changes in slope.
- D. All undulations and irregularities in the planting surfaces resulting from tillage, rototilling and all other operations shall be leveled and floated out before planting operations are initiated.
- E. Take every precaution to protect and avoid damage to erosion control materials, sprinkler heads, irrigation lines, and other underground utilities during grading

and conditioning operations.

- F. Final finish grades shall insure positive drainage of the site with all surface drainage away from buildings, walls, and toward swales, basins, roadways, drains and catch basins.
- G. Final grades shall be accepted by the Landscape architect/Owner's representative in writing on company letterhead prior to digging planting pits and/or before planting operations will be allowed to begin.
- H. Planting surfaces shall be graded with no less than 2 percent surface slope for positive drainage unless otherwise indicated on grading plans.

3.03 PLANTING:

- A. The layout of locations for plants and outlines of groundcover beds to be planted shall be accepted by the Landscape architect in writing prior to digging plant pits for planting. All such locations shall be checked by the contractor for possible interference with existing underground piping prior to excavation of holes. If underground construction or utility lines are encountered in the excavation of planting areas, other locations for the planting may be selected by the landscape architect at no additional cost to the owner. Damage to existing utilities shall be the responsibility of the contractor.
- B. Planting Trees, Shrubs and Vines:
 - 1. All excavated holes shall have vertical sides with roughened surfaces and shall be of the minimum sizes indicated on drawings. Holes shall be, in all cases, large enough to permit handling and planting without injury or breakage of root balls or roots.
 - 2. Excavation shall include the stripping and stacking of all acceptable soil encountered within the areas to be excavated for plant pits and planting beds. Protect all areas that are to be trucked over and upon which soil is to be temporarily stacked pending its re-use for the filling of holes, pits and beds.
 - 3. Excess soil, generated from the planting holes shall be spread evenly on the site within the tolerances indicated in section 3.02, or as directed by the Landscape architect. Excess soil (beyond the tolerances indicated in section 3.02) shall be removed from the site.
 - 4. The plants shall be planted at approved locations with the heretofore specified plant pit fertilizer and soil planting backfill. Place plant pit fertilizer after two thirds of backfill material is installed at the rates specified by the manufacturer and soils report.
 - 5. The plants shall be placed in the planting pits, which have been hand tamped, and water settled to the rootball base levels prior to the placement of the plants. After setting the plants, the remaining backfill material shall be carefully tamped and settled around each rootball to fill all voids. Each tree and shrub shall be placed in the center of the hole and shall be set plumb and held rigidly in position until the planting backfill has been tamped around each rootball.
 - 6. All plants shall be set at such a level that after settling they bear the same relationship to the surrounding finish grade as they bore to the soil line grade in the container, unless otherwise noted.
 - 7. No plant will be accepted if the rootball is broken or cracked, either before, during, or after the process of installation.
 - 8. Plants shall be thoroughly watered into the full depth of each planting hole immediately after planting.
 - 9. Install shrubs and vines as shown on the drawings.
 - 10. For 1 gallon trees, utilize pre-installed nursery stakes if stakes are in good condition as described above. Broken, cracked and/or unsecured nursery stakes will not be allowed. If new stakes are required, install stakes with materials as specified as shown on the drawings.
 - 11. For trees up to 36" Box size, install tree stakes with materials specified and as shown on the drawings. The stakes shall be driven in plumb and secure. Special care shall be taken that the driving in of the stake does not damage the tree roots or rootball. Tree ties shall be fastened to each stake by tacking the wire tie to the stake. Protective hoses shall be in contact with all tree trunk or branch areas per the details on the drawings.
 - 12. For trees 48" Box size and greater, guy all trees with the materials specified and as shown on the drawings.
 - 13. The staking and guying shall be accomplished in such a manner as to insure the proper and healthy growth and the safety of the plants, property, and the public.
 - 14. The contractor shall be responsible for all surface and subsurface drainage required which may affect his guarantee of the trees, shrubs, and vines.
 - 15. Pruning after planting shall be required on all trees, shrubs, and vines when necessary to provide the specified or approved standard shapes, form and/or sizes characteristic to each plant. Pruning may include thinning, and/or cutting and shall be under the direction of the landscape architect or certified arborist.
 - 16. Install tree guards on all trees within turf areas.
- C. Planting Groundcovers:
 - 1. Groundcovers shall be planted in the areas indicated on the drawings. The groundcover plants shall be rooted cuttings grown in flats and shall remain in those flats until transplanting.
 - 2. All groundcover plants shall be planted with soil around roots in staggered

row, evenly spaced at the intervals called out on the drawings.

- 3. The groundcover plants shall be planted sufficiently deep to cover all roots.
- 4. The groundcover planting area shall be hand smoothed after planting to provide an even, smooth final finish grade.

3.04 HYDROSEEDING:

- A. Hydroseeding shall be applied in the areas indicated on the drawings in accordance with the mix specified on the drawings.
- B. Hydroseeding Equipment: Hydraulic equipment used for the application of fertilizer, seed, and slurry of prepared wood pulp or fiber with tackifiers as specified on the drawings. This equipment shall have a built-in agitation system with an operating capacity sufficient to agitate, suspend, and homogeneously mix a slurry containing 1,200 pounds of mulch and seed. The slurry distribution lines shall be large enough to prevent stoppage and shall provide even distribution of the slurry. The slurry tank shall have a minimum capacity of 1,350 gallons and shall be mounted on a traveling unit, which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be sprayed so as to provide uniform distribution without waste.
- C. Application Method: Using the wood pulp as a guide, spray the soil with a uniform visible coat of slurry. The slurry shall be applied in a sweeping motion, in an arched stream, so as to fall like rain allowing the wood fibers and tackifiers to build upon each other, until a complete, even coverage coat is achieved.
- D. Hydroseeded areas shall be kept moist at all times 20-24 days after planting or until the new growth of the plants are sufficiently well established.
- E. Hydroseeded areas shall be protected against foot traffic and other use immediately after hydroseeding is completed by placing warning signs and temporary twine and flagging around the areas.
- F. Re-hydroseeding of bare areas shall be done 30 days after initial application at no additional cost to the owner.

3.05 HERBICIDE APPLICATION:

- A. Herbicide or pesticide applications shall be performed only when necessary for noxious weed eradication only after all hand weeding operations have failed and only by personnel licensed for such work by the State of California.
- B. Herbicide shall not be applied within 48 hours of a forecast rain event.

3.06 MULCHING:

- A. Landscape areas other than those hydroseeded or planted with turf shall be covered with the specified mulching material to the minimum depth indicated on the drawings.

3.07 CLEAN-UP:

- A. As the project progresses on a daily basis, the contractor shall maintain all areas in a neat manner and remove unsightly debris as necessary, remove all debris and containers used in accomplishing work and sweep and clean all sidewalks, asphalt, and concrete areas adjacent to plantings.

3.08 SITE OBSERVATION & WALK-THROUGHS FOR SUBSTANTIAL COMPLETION:

- A. General Observation: The Landscape architect will visit the construction site at interim times during the construction process to access construction progress regarding installation of landscape material to be in compliance with the drawings, details, specifications and site conditions. The Landscape architect will prepare a site report after each visit noting progress of installation, verbal communication with the contractor and identifying any field adjustments necessary that require modifications to the designed landscape. A copy of this site report will be delivered to both the owner and the contractor. The contractor is responsible to immediately address each item on the site report before proceeding with further construction.
- B. Walk Through For Substantial Completion (Punch List #1):
 - 1. Before requesting a walk through for substantial completion the following requirements must be entirely satisfied:
 - (a) The entire planting area is completely installed, and when letters of acceptance as described above have been obtained from the Landscape architect and/or owner's representative. If the contractor failed to notify the Landscape architect for any of the above items as listed above than the contractor assumes full responsibility for any design modifications directed by the Landscape architect during the walk through for substantial completion any of these issues at no additional cost to the owner.
 - (b) All invoices, pinto tags and receipts have been delivered to the owner or owner's representative.
 - 2. Once the above requirements have been met a walk through for substantial completion may be requested. The following procedures will be used during the walk through:
 - (a) A visual walk through of the entire site will take place consisting of an examination of planting areas as compared to the drawings, and installation procedures as shown on the details and specifications. A punch list will be established for deficiencies in the construction and workmanship of the landscaped area as compared to the construction drawings, details, and specifications.
 - 3. Once the Walk Through for Substantial Completion has been completed the Landscape architect will provide a copy of all punch list items to the owner for review and distribution to the contractor. It is the contractor's

responsibility to repair, replace, and adjust all items on the punch prior to requesting a final walk through.

C. Final Walk Through:

- 1. Before commencement of a final walk through is requested, each item on the walk through for substantial completion (punch list #1) must be thoroughly satisfied, addressed, and resolved by the contractor.
- 2. Once the above requirement has been met a final walk through may be requested. The following procedures will be used:
 - (a) This visual walk through will consist of walking through the punch list items created at the time of the walk through for substantial completion, and examining outstanding items. Any remaining deficiencies in the construction and workmanship of the landscape as compared to the punch list generated at the time of the walk through for substantial completion, construction drawings, details and specifications shall be corrected by the contractor.

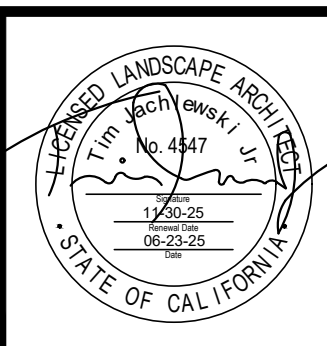
3.09 MAINTENANCE PERIOD:

- A. The Maintenance Period shall last for ninety (90) days after written notification from the Landscape architect to the owner of a successful final walk through. The notification shall take place once all items on the final walk through punch list have been satisfactorily addressed by the contractor.
 - 1. The contractor is responsible for obtaining and following any maintenance manuals created specifically for the project from the owner at the beginning of the maintenance period.
 - 2. Once the contractor has fulfilled all maintenance agreement obligations the maintenance period will end see section 320533 Landscape Maintenance, for maintenance responsibilities.

END OF SECTION 329300



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 DATE: 06-23-25
 TIMOTHY JAGLEWSKI, R. LLA #4547 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: _____ DATE: _____
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PLANTING SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8BM)

SHEET 17
 OF SHEETS 26
 CITY FILE NUMBER
 PG XX-XXXX

**SECTION 320533
LANDSCAPE MAINTENANCE**

PART 1 - GENERAL

1.01 SUMMARY

- A. The work includes all services, labor, materials, transportation and equipment necessary to perform the work indicated on the Drawings and as specified. The conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

1.02 RELATED REQUIREMENTS:

- A. Section 328400 Irrigation System
- B. Section 329300 Landscaping

1.03 DEFINITIONS:

- A. Pesticide: Includes any of the following:
 - 1. Fumigant
 - 2. Herbicide
 - 3. Insecticide
 - 4. Fungicide
 - 5. Rodent repellents.

- B. Planting Bed: An area comprised of trees, shrubs, flowers, and ground cover, excluding grass.

1.04 DELIVERY:

- A. Fertilizer, Gypsum, and Iron Sulphate: Deliver to the site in original containers bearing manufacturer's chemical analysis, name, trade name, or trademark, and indication of conformance to state and federal laws. Instead of containers, fertilizer, and gypsum may be furnished in bulk with a certificate indicating the above information.
- B. Pesticides: Deliver to the site in original containers with legible label indicating Environmental Protection Agency (EPA) registration number and manufacturer's registered uses.

1.05 STORAGE:

- A. Fertilizer, Gypsum, Iron Sulphate, and Mulch: Store in dry locations away from contaminants in water-tight containers.
- B. Pesticides: Do not store with other maintenance material. Store herbicides "downwind," relative to the airflow from other pesticides in water-tight containers.

1.06 HANDLING:

- A. Do not drop or dump materials from vehicles.

PART 2 - PRODUCTS

2.01 PH ADJUSTERS:

- A. See Specification Section: 329300 Landscaping

2.02 SOIL CONDITIONERS:

- A. See Specification Section: 329300 Landscaping

2.03 PLANTING BACKFILL:

- A. See Specification Section: 329300 Landscaping

2.04 FERTILIZERS:

- A. See Specification Section: 329300 Landscaping

2.05 WATER:

- A. See Specification Section: 329300 Landscaping

2.06 PESTICIDES:

- A. See Specification Section: 329300 Landscaping

PART 3 - EXECUTION

3.01 MAINTENANCE REQUIREMENTS DURING THE NINETY (90) DAY MAINTENANCE PERIOD:

- A. Shrubs, and Vines:

1. The contractor is responsible for the restoration and maintenance of all vegetation included in these specifications for the duration of the maintenance period. During the first two weeks of the maintenance period, the contractor shall conduct a survey of all areas and identify by quantity, species, and location, all dead, dying, and diseased vegetation. The contractor shall be responsible for restoring dying and diseased vegetation to a healthy state in accordance with accepted Horticultural Practice and Treatment. The landscape architect and/or owner's representative will be the final authority in determining which vegetation is considered dead or irreparably damaged. Restoration and replacement of vegetation is considered routine maintenance and shall be accomplished as often as necessary during the maintenance period. Vegetation replacement shall be accomplished within 5 days after the contractor discovers or has been notified of the situation. Diseased or dead vegetation shall be removed and replaced with healthy plants of the same species. All replacement plants must be approved by the landscape architect and/or owner's representative before planting.

2. Planting beds shall be cultivated, pruned, trimmed, weeded, irrigated, fertilized, mulched, and otherwise maintained in a manner that presents a professionally landscaped appearance at all times. Plant beds shall be kept weed, gopher, squirrel, rabbit and pest free through best management practices. Ground cover shall not be allowed to grow into flowers, shrubs or trees. Planting beds shall be maintained in a manner that provides balance between the various types of vegetation, and prevents dominance of any one species.

3. The contractor shall provide and maintain a minimum of three-inch layer of mulch in all planting areas that were originally mulched (one and one half-inch for flatted groundcover areas). Mulch shall be kept 3" clear from all tree, shrub, and groundcover trunks and stems.

4. The contractor shall provide for the special needs of various species. Diseased or dead vegetation shall be removed and replaced with healthy plants of the same species.

5. The contractor shall maintain the soil level in the plant beds, and ensure all surface root systems and irrigation piping are covered as required. The contractor shall be responsible for damage caused by contractor operations at no additional cost to the owner.

6. Shrubs and Vines shall not be allowed to encroach into turf areas. A definite break shall be maintained between grass and shrub areas. In such areas the contractor shall maintain a healthy and well balanced landscape.

7. All shrubs, vines, and other cultivated plants shall be trimmed and pruned ACCORDING TO THEIR NATURAL GROWTH CHARACTERISTICS (accept for hedges) for proper health and attractive appearance. ALLOW SHRUBS TO GROW IN AND COMPLETELY FILL THE PLANTING AREAS (DO NOT SHEAR INTO BALLS OR OTHER SHAPES.) All clippings shall be removed and disposed of by the end of each day. Pruning shall be accomplished as necessary in accordance with conditions (a) through (d) specified below. Shrubs and vines shall be trimmed to shape for aesthetic appearance and health at the frequency specified in this section.
 - (a) Remove growth in front of windows, over entrance ways or walks, and any growth which will obstruct vision at street intersections. Shrubs around perimeter of buildings shall be trimmed to maintain natural growth characteristics.
 - (b) Remove dead, damaged or diseased branches or limbs and crossing, rubbing and interfering branches.
 - (c) Evenly form and balance the shrub to natural growth characteristics. Hedges are to be trimmed to maintain their natural growth characteristics and not allowed to obstruct pedestrian walkways. Shrubs shall be allowed to completely fill planter beds. Shrubs, hedges and vines shall not be trimmed into round, square and/or geometric shapes unless specified in the Plant Schedule. Side growth shall be allowed to grow unless growth is in front of windows, over entrance ways, streets, driveways, parking area or walks, and/or any growth which will obstruct vision at street intersections.
 - (d) Remove growth against or over structures and into any type of electrical or telephone lines (leave vine growth on block walls if applicable).

8. Shrubs shall be pruned to evenly form and balance plant to natural growth characteristics. Shoots, suckers, and branches of shrubs not conforming to desired shape and size shall be removed. Retain typical growth habit of individual plants with as much height and spread as is practical. Shrubs shall be allowed to completely fill planter beds.

9. Any depression or mound around the base of shrubs intended to retain water in place for proper irrigation shall be maintained in good condition to permit the most efficient application of water and reduce waste.

B. Trees:

1. Tree maintenance and care is considered routine ongoing maintenance and shall be accomplished as specified or as often as necessary during the maintenance period. Tree maintenance and care includes, staking trees, adjustment of ties and supports, removal of stakes, watering, fertilization, pest control, pruning, turf clearance, mulch clearance, removal of broken limbs and branches, tree removal/replacement, and fall cleanup.
2. The contractor shall maintain and/or replace tree staking and guying as necessary as specified in section 329300 Landscaping for the duration of the maintenance period. Stakes, ties and supports shall be inspected and adjusted monthly to prevent girdling and rubbing, and to promote natural development of trees. Stakes, ties, and supports shall be removed when the tree becomes capable of supporting itself.
3. Trees shall be pruned according to their natural growth characteristics to evenly form and balance the tree and to promote proper health and growth in accordance with accepted standards and horticultural practices of the International Society of Arboriculture, Western Chapter. All tree maintenance must be performed in compliance with ANSI Z133.1 Safety Standards and ANSI A300 Standard Practices for Tree Care Operations. Tree pruning shall include all areas of the project, which are permanently and/or temporarily irrigated for the duration of the maintenance period. All sucker growth shall be removed from and around the trees. All trees are to be inspected monthly to identify pruning needs. Pruning or trimming shall be accomplished at any time during the maintenance period as required in accordance with conditions (a) through (h) below:

- (a) Remove dead, damaged or diseased wood, or structurally weak limbs that may cause a safety hazard. Remove interfering branches, crossing and rubbing branches.

- (b) Remove branches which endanger roofs, eaves, and windows or hang within eight feet of sidewalks, parking lot driveways, and which obstruct traffic signs or streetlights. This includes removal of dead or broken branches on the ground or still hanging in the tree.

- (c) Provide clearance for fire trucks, buses, moving vans and similar vehicles along streets.

- (d) Eliminate and prevent growth into electrical or telephone transmission lines. Anticipate the effects of wind on branches, which might fall on transmission lines. Shape the entire tree rather than notch the top.

- (e) Prevent growth of trees in front of windows, over entrances and walkways and which will obstruct vision at street intersections.

- (f) Remove partially attached broken limbs and branches from trees regardless of diameter or length. Provide stakes or braces as required for future protection.

- (g) "Skirting-Up" and "pollarding" a tree is prohibited.

- (h) Topping of trees is prohibited.

C. Weeds, Rodent and Pest Control:

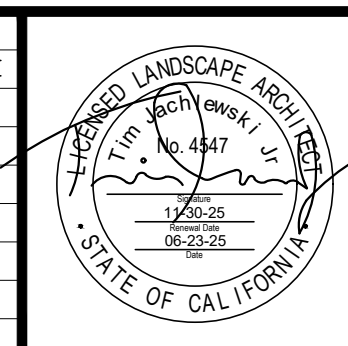
1. PESTICIDES MAY BE USED ONLY AS A LAST RESORT AFTER ALL NATURAL BEST MANAGEMENT PRACTICES ARE USED. Weed and pest control shall be performed to prevent encroachment of undesirable vegetation and noxious weeds, and infestation of pest (rodent, insect and fungus) into established landscapes, including lawns and around trees, shrubs, flower beds, etc. Noxious weeds in landscaped and natural growth areas, plant beds and landscaped areas shall not be allowed to establish themselves and be maintained weed free. Additionally, weed control is to be performed to eliminate grass and weeds in cracks and joints on all paved and concreted areas. Weed control is to be performed to prevent the encroachment of vegetation into perimeter fences. Rodent control shall be performed as required to maintain healthy vigorous plant growth. Live or dead rodents shall be removed within 24 hours from the project property and properly disposed of. Trees, shrubs, turf and vegetation shall be protected from all varieties of insect and rodent damage. Pesticides and herbicides shall be used in a manner, which will not affect landscape plants health.
2. All pesticides, including herbicides, insecticides, fungicides, etc., shall be applied only by persons holding a valid state license for each category of pest control work involved. Any required state, county, or local permits for possession, procurement, or use of any pesticide shall be obtained and complied with at no additional expense to the owner.
3. All pesticides shall be procured, transported, stored, handled, and applied in strict accordance with the manufacturer's label, which shall be registered with the Environmental Protection Agency and the State of California. The contractor shall comply with the requirements of the Federal Insecticide, Fungicide, and Rodenticide Act, 40 CFR 170-171, CCR Title 3, and CCR Title 8. All pesticide containers shall be managed in accordance with therequirements of CCR Title 3, Section 6684 and disposed of in accordance with CCR Title 22. Each pesticide formulation shall be registered for use under the particular environmental conditions under which it was applied. The contractor shall exercise extreme care to prevent any damage or illegal contamination by pesticides to vegetation, water, fish, animals, and humans. The contractor shall be held responsible and liable for all damage, contamination, and effects resulting from contractor's pesticide use.
4. Pesticide spraying shall be performed only on still days and will be stopped when unfavorable weather or other conditions exist which would unduly increase the hazard to personnel or desirable vegetation by drift, runoff, or leaching through the soil. Any project property or desirable vegetation damaged by the contractor due to pesticide applications shall be repaired or replaced at no additional cost to the owner.
5. Pesticide rinse water or excess pesticides from contractor operations shall be collected by the contractor in an appropriate receptacle and disposed of at an approved disposal site; or shall be applied to a similar target area to which the original application was made and in the same manner of application if allowed by the EPA registered label.
6. Job site pesticide applications shall be made by personnel capable of identifying the pest species to be controlled, knowledgeable of control techniques, and able to apply pesticide active ingredients at prescribed dosages and rates of application, as required by the label to achieve the required control under job site conditions, without danger to people, pets or other non-target animals, plants, or property.
7. The contractor shall be responsible for having a spill kit on service vehicles and for reporting and cleaning pesticide spills as required by state laws and regulations. The contractor shall submit a written report of spills on or in project property, within 8 hours of incident to the owner on company letterhead.

D. Irrigation and Irrigation System Maintenance:

1. The contractor shall plan and adjust irrigation schedules for automatic, hand or portable irrigation systems based on minimal water requirements with the following considerations:the precipitation rates of irrigation components
 - (a) soil water infiltration rate and holding capacity
 - (b) exposure
 - (c) plant material
 - (d) site climate conditions
 - (e) ET (Evapotranspiration) rate
 - (f) Slope
 It shall be the contractor's responsibility to adjust controllers and/or hand/portable irrigation application to compensate for weekly environmental changes for the duration of the maintenance period. The contractor shall perform irrigation in a manner that promotes the health, growth, color and appearance of cultivated vegetation while preventing over watering, water run-off, erosion and ponding.
2. CONTRACTOR SHALL ENSURE SMART CONTROLLER IS SET TO WEATHER-BASED OR SOIL MOISTURE BASED "AUTOMATIC ADJUSTMENT" 60 DAYS INTO THE MAINTENANCE PERIOD. CONTRACTOR SHALL ENSURE "AUTOMATIC ADJUSTMENT" IS FUNCTIONING PROPERLY BETWEEN DAY 60 THROUGH DAY 90 OF THE MAINTENANCE PERIOD AND FINE-TUNE EACH STATION AS NEEDED.
3. Irrigation includes watering of shrubs, vines, trees and plants for both permanently irrigated slopes and flat areas. Care shall be exercised by regulating the time and equipment to prevent wasting of water. Rotator heads shall be adjusted to prevent water spray on buildings, sidewalks, walls, sign monuments and adjacent hardscape. It shall be the contractor's responsibility to apply enough water to assure and maintain the health and vigor of all shrubs, trees, and planted areas. Irrigation controllers shall be programmed for no irrigation during periods of rain. Controllers shall also be checked and reset if necessary after power outages.
4. The contractor shall provide all equipment necessary to perform all irrigation operations. For temporarily irrigated slopes, flat areas and trees that require manual irrigation, the contractor shall provide hoses and irrigation equipment to adequately irrigate this plant material for the duration of the maintenance period. In the event that an area has no water supply due to a system failure, the contractor shall provide a supply by either hose or truck. All valves and valve box covers shall be kept closed at all times except when in actual use.
5. Irrigation equipment shall be kept clear of any obstructions including plant material. Dirt or other debris surrounding rotator heads, which prevents proper operation, shall be removed. The contractor shall be held responsible for any damage to project property caused by careless handling of irrigation equipment including slope failure at no additional cost to the owner.
6. The contractor is responsible for the maintenance and repair of all components of the irrigation system for the duration of the maintenance period. This includes irrigation equipment items as shown on the original irrigation drawings. Maintenance and repairs of irrigation equipment during the maintenance period shall be done at no additional cost to the owner. Maintenance shall include but not be limited to the following:
 - (a) Repair or replace broken, missing, or inoperative pop-up rotator heads, pop-up rotors, pop-up bubblers, and drip irrigation equipment.
 - (b) Repair or replace defective rotator head risers, rotors on risers, fittings, swing arms and breaks in piping. Adjust and align risers. Repairs shall include all fittings as specified in the original irrigation drawings.
 - (c) Clean and adjust pop-up rotator heads, pop-up rotors, rotator head risers and rotors on risers and their gears and/or mechanisms, check and adjust for proper coverage.
 - (d) Remove dirt and debris from around pop-up rotator heads and pop-up rotors.
 - (e) Repair or replace defective or malfunctioning control valves (Electric and/or Manual) flow sensors and master valves. Clean and service valves. The contractor shall replace any damaged or missing valve boxes or valve lids. Valve box lids shall be kept in place at all times. Barricades shall be placed over any valve boxes with missing lids until replaced. Valve boxes shall be kept level with existing grade as shown on the drawings.
 - (f) Flush drip irrigation system using manual flush valves.
 - (g) Maintain, service, repair or replace controller systems as specified by the product manufacturer.
 - (h) System repairs and replacement shall be accomplished with new parts and equipment that are identical to existing.
 - (i) The contractor is responsible for required irrigation by any means during the periods of system breakdown.
7. Fertilizer Application During the Maintenance Period:
 1. Apply fertilizer in a manner that promotes health, growth, color and appearance of cultivated vegetation at applications rates described in section 329300 Landscaping for the duration of the maintenance period.
 2. Fertilizer shall be applied to CA Native plants based on horticultural practices specifically for CA Native plants (typically no fertilizer or minimum organic, slow-release fertilizer.)



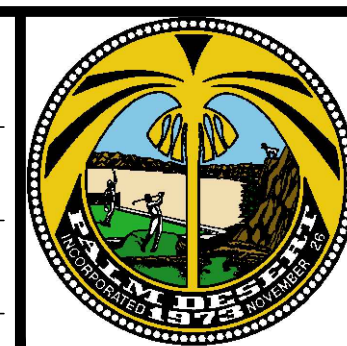
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JADLEWICKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE MAINTENANCE SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET **18**
 OF
 SHEETS **26**
 CITY FILE NUMBER
PG XX-XXXX

- F. Fallen Vegetation and Debris Removal:
- The contractor shall police the entire project area including all paved areas, planters, lawn areas, sidewalks and trash enclosures and collect fallen leaves, branches and limbs regardless of length or diameter, dead vegetation, paper, trash, cigarette butts, garbage, rocks, and any and all other debris to prevent unsightly and inordinate accumulations during normal maintenance working hours. Sidewalks shall be swept as necessary to keep free of trash and graffiti. Collected items shall be promptly removed and taken to a legal disposal site.
- G. Removal of Dead Animals:
- Removal and legal disposal of animal carcasses are considered a normal maintenance task for the duration of the maintenance period. Dead carcasses shall be legally removed immediately when discovered by the contractor.
- H. Erosion Control:
- The general contractor or the landscape contractor is responsible for all erosion control activities identified in the Storm Water Pollution Prevention Plan (SWPPP) and the Water Quality Management Plan (WQMP) including rain event inspections, water quality basin maintenance best management practices, prevention of silt entry, removal of silt, equipment and compaction prohibitions, and infiltration testing. Refer to the SWPPP and WQMP for additional requirements.
 - The contractor is responsible for daily visual inspection of slopes and immediately reporting areas experiencing erosion to the Landscape architect and/or owner's representative on the same day noticed. If the contractor fails to notify the Landscape architect and/or owner's representative of areas experiencing erosion on the same day noticed, then the contractor assumes full responsibility for any erosion control measures and/or repairs as directed by the landscape architect and/or owner's representative at no additional cost to the owner.
 - Upon notification and agreement of the applicable erosion control measure by the Landscape architect, the owner and the contractor, the contractor is responsible for immediately repairing and correcting any progressive rilling that may occur.
 - Erosion control measures may include but not be limited to:
 - Filling
 - Raking
 - Redirecting runoff
 - Properly programming irrigation operations
 - Replanting
 - Providing additional erosion control materials such as:
 - jut matting
 - filter fabric
 - hay bales
 - hay rolls
 - silt fencing
 - sand bags
 - and/or other erosion control items as required to maintain healthy plant material and stable slopes.

Additional erosion control measures required due to irrigation operations programmed by the contractor that did not take into account cycle and soak functions of the controller will be installed and/or repaired as directed by the Landscape architect and/or owner's representative at no additional cost to the owner.
- I. Frequency of Maintenance Operations:
- | TASK: | FREQUENCY: |
|--|---------------|
| 1. Mowing, Edging, Trimming: | Weekly |
| 2. Shrub and Vine Restoration and Replacement: | Within 5 days |
| 3. Weeding: | Weekly |
| 4. Pruning: | Monthly |
| 5. Tree Replacement: | Within 5 days |
| 6. Tree Staking: | As Required |
| 7. Best Management Practices: | As Required |
| 8. Debris Removal & Disposal: | As Required |
| 9. Irrigation System Maintenance: | As Required |
| 10. Fertilizer Application: | As Required |
| 11. Fallen Vegetation and Debris Removal: | As Required |
| 12. Removal of Dead Animals: | As Required |
| 13. Re-Mulching (Maintained at 3 Inches): | As Required |
| 14. Erosion Control: | As Required |
- J. At the end of the ninety (90) day maintenance period, the contractor shall request a post-maintenance walk through with the Landscape architect.
- K. Preliminary Post Maintenance Walk Through: Once the maintenance

requirements have been met a preliminary post maintenance walk through may be scheduled. At the preliminary post maintenance walk through, the following procedures will be used:

- Contractor must have (2) two personnel available with radio communication for the entire length of the walk through.
 - A visual walk through of the entire landscape area will take place consisting of an examination of planting areas and noting any remaining maintenance items to be completed.
 - Once the preliminary post maintenance walk through has been completed, the Landscape architect shall prepare a punch list of outstanding items to be completed and will provide a copy of this list to the owner and contractor for review and use. It is the contractor's responsibility to repair, replace, and adjust all items on the punch list prior to requesting a final post maintenance walk through.
- L. Final Post Maintenance Walk Through: Before commencement of a final post maintenance walk through, each item on the preliminary post maintenance walk through punch list must be thoroughly satisfied, addressed, and resolved by the contractor. Once the above requirement has been met a final post maintenance walk through may be requested. At the final post maintenance walk through, the following procedures will be used:
- Contractor must have (2) two personnel available with radio communication for the entire length of the walk through.
 - This visual walk through will consist of walking through the punch list items created at the time of the preliminary post maintenance walk through, and examining outstanding items. Any remaining deficiencies in the maintenance requirements will be noted.
 - Once the final post maintenance walk through is completed and any outstanding items created on the final punch list have been addressed the maintenance period may end. Any additional walk throughs required due to contractors' inability to address all issues on the punch lists described above will be provided at the contractor's expense.
- M. Certificate of Completion. Prior to the start of the ninety (90) day maintenance period, the Contractor shall coordinate and complete (with the owner and Landscape Architect as required) a Certificate of Completion including the following six (6) elements:
- Project information sheet that contains:
 - Date.
 - Project name.
 - Project applicant name, telephone, and mailing address.
 - Project address and location.
 - Property owner name, telephone, and mailing address.
 - Certification by the Landscape Architect that the landscape project has been installed per the approved Landscape Documentation Package;
 - Where there have been significant changes made in the field during construction, "as-built" or record drawings shall be included with the certification. Redlined plans shall be prepared by the Contractor and provided to the Landscape Architect for drafting.
 - A diagram prepared by the Contractor of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes. Two additional copies shall be provided to the Landscape Architect and to the Owner
 - Irrigation scheduling parameters used to set the controller. See Section 3.01-D.2 for additional information.
 - Landscape and irrigation maintenance schedule.
 - Irrigation Audit Report.
 - All landscape irrigation audits shall be conducted by a local agency landscape irrigation auditor or a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape. The Contractor shall retain and bear the expense of the Irrigation Auditor.
 - In large projects or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% will satisfy this requirement. The project applicant shall submit the irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming.
 - Soil analysis report and documentation verifying implementation of soil report recommendations.
- The project applicant shall:
- Submit the signed Certificate of Completion to the local agency for review
 - Ensure that copies of the approved Certificate of Completion are submitted to the local water purveyor and property owner or his or her designee.
- The local agency shall:
- Receive the signed Certificate of Completion from the project applicant

- Approve or deny the Certificate of Completion. If the Certificate of Completion is denied, the local agency shall provide information to the project applicant regarding reapplication, appeal, or other assistance.

Sample Certificate of Completion:

CERTIFICATE OF COMPLETION

This certificate is filled out by the project applicant upon completion of the landscape project.

PART 1. PROJECT INFORMATION SHEET

DATE _____
 PROJECT NAME _____
 NAME OF PROJECT APPLICANT _____ TELEPHONE NO. _____
 TITLE _____ EMAIL _____
 COMPANY _____ STREET ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____

PROJECT ADDRESS AND LOCATION:

STREET ADDRESS _____ TRACT NO. _____
 CITY _____
 STATE _____ ZIP CODE _____

PROPERTY OWNER OR HIS/ HER DESIGNEE:

NAME _____ TELEPHONE NO. _____
 TITLE _____ EMAIL _____
 COMPANY _____ STREET ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____

PROPERTY OWNER

"I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

PROPERTY OWNER SIGNATURE _____ DATE _____

PLEASE ANSWER THE FOLLOWING QUESTIONS BELOW:

- Date the Landscape Documentation Package was submitted to the local agency _____
- Date the Landscape Documentation Package was approved by the local agency _____
- Date that a copy of the Water Efficient Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor _____

PART 2. CERTIFICATION OF THE INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE

"I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planning and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package."

SIGNATURE* _____ DATE _____

NAME (PRINT) _____ TELEPHONE NO. _____

TITLE _____ EMAIL _____

LICENSE NO. OR CERTIFICATION NO. _____

COMPANY _____ STREET ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

* Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor.

PART 3. IRRIGATION SCHEDULING

Attach parameters for setting the irrigation schedule on controller

PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

Attach schedule of Landscape and Irrigation Maintenance

PART 5. LANDSCAPE IRRIGATION AUDIT REPORT

Attach Landscape Irrigation Audit Report

PART 6. SOIL MANAGEMENT REPORT

Attach soil analysis report

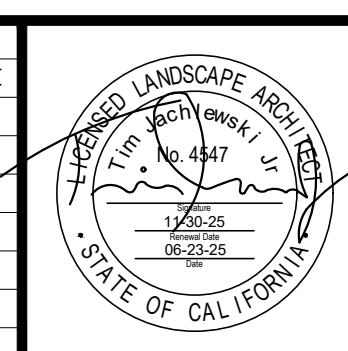
Attach documentation verifying implementation of recommendations from soil analysis report

END OF SECTION 320533

L.2-8



ENGINEER			CITY	
MARK	BY	DATE	APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 DATE: 06-23-25
 EXP: 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE _____
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE _____

PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LANDSCAPE MAINTENANCE SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	19
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

CAP AND DISCONNECT THE IRRIGATION HEADS AFFECTED BY THE PLAYGROUND EXPANSION. INSTALL SPRAY HEADS THAT MATCH THE EXISTING PRECIPITATION RATE. PLACE THE HEADS SO THERE WILL BE FULL HEAD TO HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE SURFACES (TYP.)

CONTRACTOR SHALL LOCATE THE EXISTING IRRIGATION MAINLINE AND WIRES AND REALIGN TO BE CLEAR OF THE NEW CONSTRUCTION. RECONNECT THE MAINLINE SO ALL VALVES OUTSIDE OF THE LIMIT OF WORK ARE OPERATIONAL. ALL DISTURBED AREAS SHALL BE FINE GRADED AND RE-SODDED

ADJUST THE LOCATION OF THE EXISTING ROTOR AND PLACE THE ROTOR SO THERE WILL BE FULL HEAD TO HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE SURFACES

EXISTING LAWN

EXISTING PALMS TO REMAIN. PROTECT-IN-PLACE (TYP.)

RECONNECT TO THE EXISTING VALVE AND INSTALL SPRAY HEADS THAT MATCH THE EXISTING PRECIPITATION RATE. PLACE THE HEADS SO THERE WILL BE FULL HEAD TO HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE SURFACES

EXISTING RESTROOM

TYPICAL FOR ALL EXISTING TREES AND PALMS TO REMAIN. THE EXISTING IRRIGATION EMITTERS SERVING THE TREES AND PALMS SHALL REMAIN. IF MISSING OR BROKEN, INSTALL ADDITIONAL EMITTER AS NEEDED FOR APPROPRIATE WATER NEEDS. CONTRACTOR SHALL MONITOR THE HEALTH OF THE TREES AND PALMS TO REMAIN AND MAKE THE IRRIGATION ZONE IS OPERATIONAL.

EXISTING TURF TO REMAIN

EXISTING TREE TO REMAIN. PROTECT-IN-PLACE (TYP.)

EXISTING CONCRETE WALKWAY



IRRIGATION LEGEND
(ABBREVIATED, SEE SHEET L.3-3 FOR FULL LEGEND)

- CONTROLLER
- CONTROL VALVE
- DRIP CONTROL VALVE
- EXISTING MAINLINE
- PRESSURE SUPPLY MAINLINE
- LATERAL LINE
- SLEEVE OR CONDUIT
- POINT TO POINT DRIP
- MANUAL FLUSH VALVE
- AIR RELIEF VALVE
- TURF ROTARY R-VAN14
- TURF ROTARY R-VAN18
- TURF ROTARY R-VAN24
- EXISTING ROTORS TO REMAIN
- EXISTING RAINBIRD SPRAY HEADS
- STATION X
- XX — GPM
XX — WATER USE
- VALVE SIZE

PIPE SIZING CHART

0 TO 5 GPM	3/4" SCH 40 PVC PIPE
5 TO 10 GPM	1" SCH 40 PVC PIPE
10 TO 15 GPM	1-1/4" SCH 40 PVC PIPE
15 TO 25 GPM	1.5" SCH 40 PVC PIPE

NOTE: CONTRACTOR SHALL SIZE ALL LATERAL LINES PER PIPE SIZING CHART. IN NO INSTANCE SHALL PIPE SIZE EXCEED DESIGNATED GPM RANGE.

IRRIGATION HYDROZONE

- HYDROZONE #1 DRIP SHRUB
- HYDROZONE #2 TURF MPR

NOTES:

NON OPERATIONAL VALVES SHALL BE REPLACED PER IRRIGATION PLANS

ALL EXISTING IRRIGATION EQUIPMENT FOR THE EXISTING TREES TO REMAIN SHALL REMAIN OPERATIONAL.

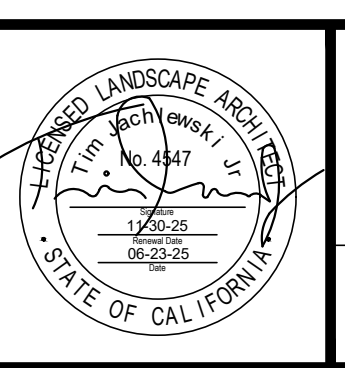
ALL EXISTING IRRIGATION HEADS AND EQUIPMENT SHALL BE ADJUSTED AS NEEDED FOR HEAD-TO-HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE TO ACCOMMODATE THE NEW TURF AND HARDSCAPE CONDITIONS

MATCHLINE: SEE SHEET L.3-2

L.3-1



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE

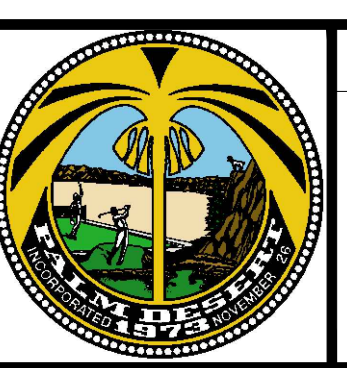


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitelandscape.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JADLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE: _____
 CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE: _____

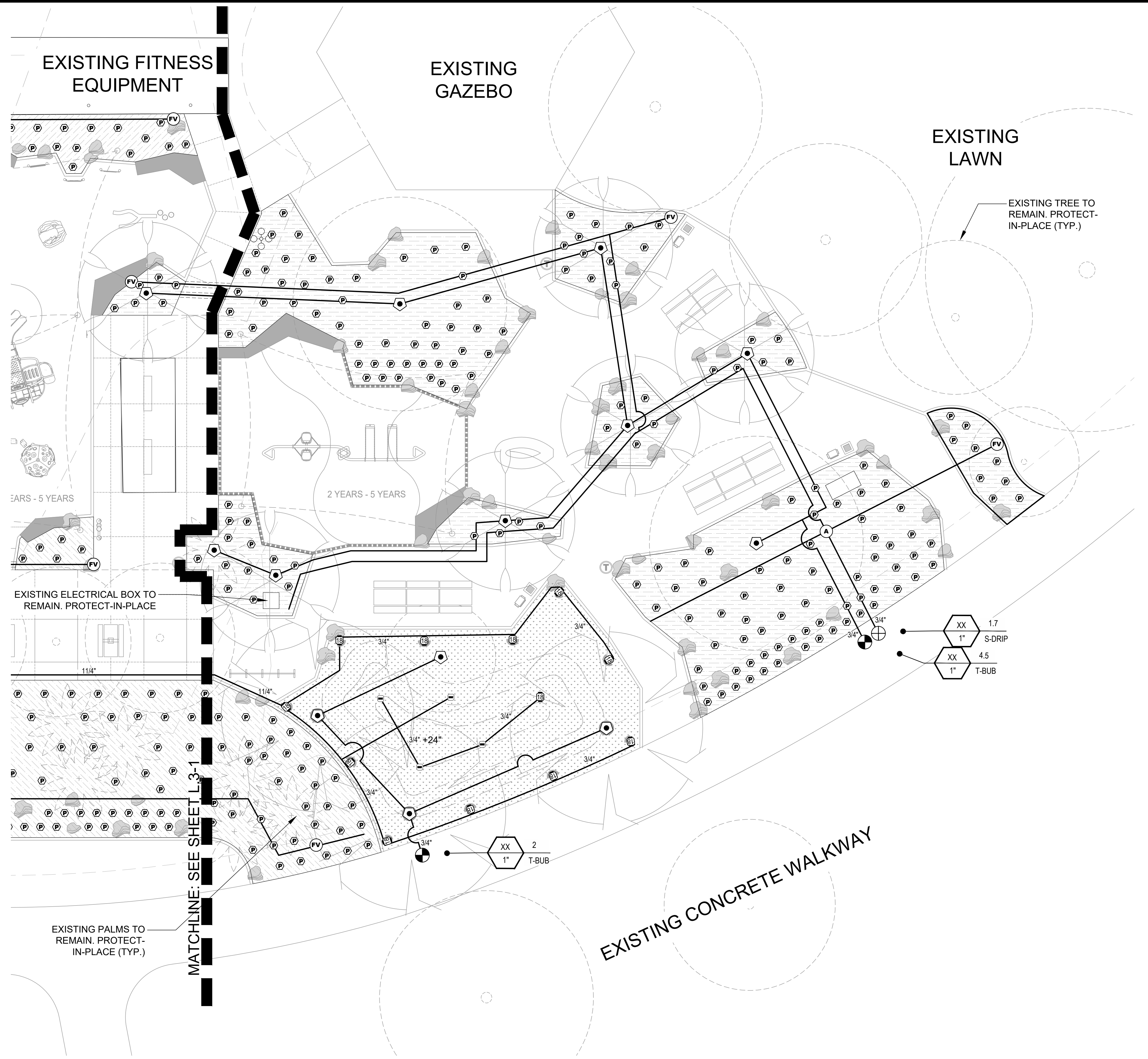
PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
IRRIGATION PLAN
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	20
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



IRRIGATION LEGEND
(ABBREVIATED, SEE SHEET L-3-3 FOR FULL LEGEND)

- CONTROLLER
- CONTROL VALVE
- DRIFT CONTROL VALVE
- EXISTING MAINLINE
- PRESSURE SUPPLY MAINLINE
- LATERAL LINE
- SLEEVE OR CONDUIT
- POINT TO POINT DRIFT
- MANUAL FLUSH VALVE
- AIR RELIEF VALVE
- TURF ROTARY R-VAN14
- TURF ROTARY R-VAN18
- TURF ROTARY R-VAN24
- EXISTING ROTORS TO REMAIN
- EXISTING RAINBIRD SPRAY HEADS
- STATION X
- XX — GPM
- XX — WATER USE
- VALVE SIZE

PIPE SIZING CHART

0 TO 5 GPM	3/4" SCH 40 PVC PIPE
5 TO 10 GPM	1" SCH 40 PVC PIPE
10 TO 15 GPM	1-1/4" SCH 40 PVC PIPE
15 TO 25 GPM	1.5" SCH 40 PVC PIPE

NOTE:
CONTRACTOR SHALL SIZE ALL LATERAL LINES PER PIPE SIZING CHART, IN NO INSTANCE SHALL PIPE SIZE EXCEED DESIGNATED GPM RANGE.

IRRIGATION HYDROZONE

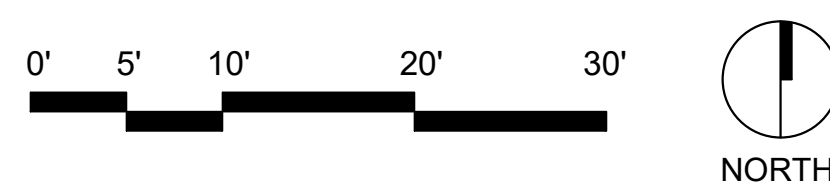
- HYDROZONE #1 DRIP SHRUB
- HYDROZONE #2 TURF MPR

NOTES:

NON OPERATIONAL VALVES SHALL BE REPLACED PER IRRIGATION PLANS

ALL EXISTING IRRIGATION EQUIPMENT FOR THE EXISTING TREES TO REMAIN SHALL REMAIN OPERATIONAL.

ALL EXISTING IRRIGATION HEADS AND EQUIPMENT SHALL BE ADJUSTED AS NEEDED FOR HEAD-TO-HEAD COVERAGE WITH NO OVERSPRAY ONTO HARDSCAPE TO ACCOMMODATE THE NEW TURF AND HARDSCAPE CONDITIONS

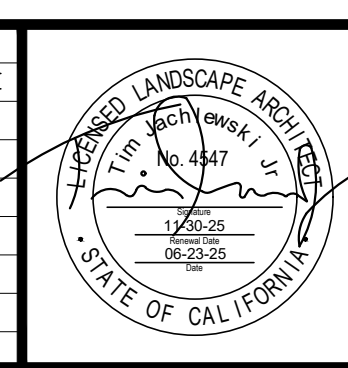


L-3-2

DIG ALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE CALL 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

ENGINEER	MARK	BY	DATE	REVISIONS	CITY	APPR.	DATE

REVISIONS	CITY

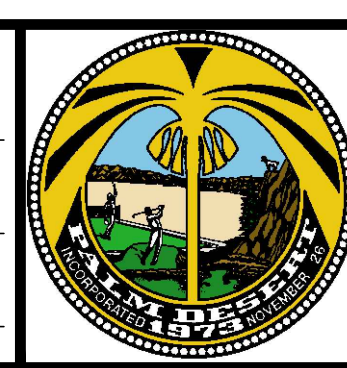


IN-SITE LANDSCAPE ARCHITECTURE, INC.
2907 Shelter Island Drive #105-417
San Diego, CA 92106 619-795-7603
www.insitelandscape.com
PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY JADLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: _____ DATE: _____

PLAN CHECKED BY:












CIVIL	
TRAFFIC	
LANDSCAPE	

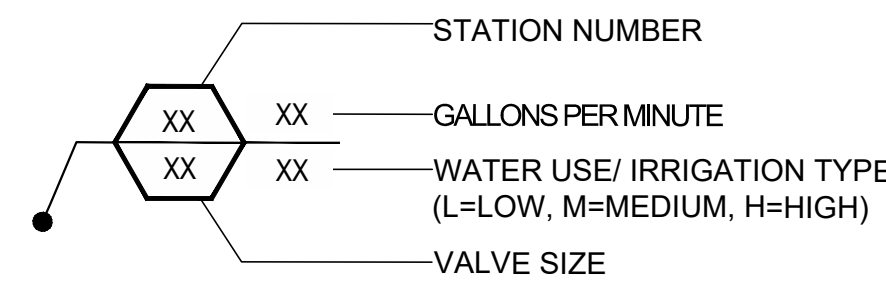


CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
IRRIGATION PLAN
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

SHEET	21
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

IRRIGATION LEGEND

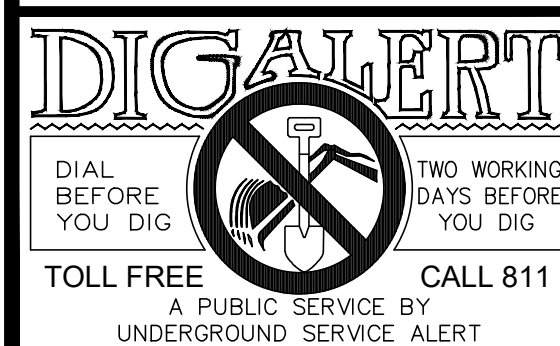
ITEM	MANUFACTURER	MODEL	DESCRIPTION
NO SYMBOL	ISOLATION BALL VALVE	APOLLO	102T-K SERIES 1"-3" IN SIZE 102T-K SERIES, THREADED CROSS TOP GATE VALVES, LINE SIZE. ISOLATION VALVES FOR REMOTE CONTROL VALVE MANIFOLDS AND QUICK COUPLERS SHALL BE THE SAME SIZE AS THE LARGEST REMOTE CONTROL VALVE ON A MANIFOLD.
	EXISTING IRRIGATION CONTROLLER		
<u>(THE IRRIGATION VALVES ARE SHOWN DIAGRAMMATICALLY, IF VALVE IS NOT WORKING PROPERLY, INSTALL A NEW VALVE PER THE SPECIFICATIONS BELOW)</u>			
	CONTROL VALVE	RAIN BIRD	100 PESB-PRS-D 150 PESB-PRS-D 1" PESB SERIES W/ PRESSURE REGULATOR (5 TO 20 GPM) 1.5" PESB SERIES W/ PRESSURE REGULATOR (20 TO 40 GPM)
	DRIP CONTROL VALVE	RAIN BIRD	XCZ-100-PRB-COM XCZ-150-PRB-COM 1" COMMERCIAL DRIP CONTROL ZONE KIT W/ BASKET FILTER AND PR (0.3 TO 20 GPM) 1.5" COMMERCIAL DRIP CONTROL ZONE KIT W/ BASKET FILTER AND PR(15 TO 40 GPM)
—	EXISTING IRRIGATION MAINLINE TO REMAIN		
- - - -	PRESSURE SUPPLY LINE	AS APPROVED	SCH 40 PVC (UNDER 2") CLASS 315 PVC (2.5" - 3") REFER TO DETAIL FOR INSTALLATION REFER TO DETAIL FOR INSTALLATION
—	LATERAL LINE	AS APPROVED	CLASS 315 & CLASS 200 REFER TO DETAIL FOR INSTALLATION DEPTH
- - - - -	SLEEVE OR CONDUIT	AS APPROVED	SCH 40 PVC PVC PIPE SHALL BE TWICE THE DIAMETER OF PIPE PLACE BELOW ALL PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. SLEEVE ALL DRIVEWAYS AND SIDEWALK CROSSINGS. EXTEND 1' PAST CURB EDGE.
NO SYMBOL	THRUST BLOCKS	AS APPROVED	INSTALL CONCRETE THRUST BLOCKS ON 2.5" - 3" MAINLINE AND JOINT RESTRAINTS
NO SYMBOL	WIRE CONNECTIONS	3M	DBR/Y-6 "DBY" OR "DBR" DIRECT BURY SPLICE KITS, FOR USE ON ALL WIRE CONNECTIONS. TO BE PRE-FILLED WITH MOISTURE RESISTING GEL OR SILICONE SEALANT OR APPROVED EQUAL.
	POINT TO POINT SHRUB DRIP DRIP EMITTER	BOWSMITH	SL 206 EMITTER REFER TO PLANTING PLAN FOR ACTUAL PLANT QUANTITY AND LOCATIONS. INSTALL (1) EMITTERS PER SHRUB ON THE HIGH SIDE OF THE PLANT. (0.6 GPH) (RISER LENGTH AS REQUIRED). VERIFY THE LAYOUT AND SPACING IN THE FIELD PRIOR TO STARTING WORK. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
	MANUAL FLUSH VALVE		MANUAL FLUSH VALVE
	AIR RELIEF VALVE	RAINBIRD	ARV050 INSTALL AIR RELIEF ASSEMBLY INSIDE A 6" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTED AREA AND MINIMUM 1 ARV PER 500' OF DISTRIBUTION TUBING. USING AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA.
	TURF ROTARY NOZZLES	RAIN BIRD	R-VAN14 1806-SAM-P45 TURF ROTARY, 8'-14' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 6.0" POP-UP
	TURF ROTARY NOZZLES	RAIN BIRD	R-VAN18 1806-SAM-P45 TURF ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 6.0" POP-UP
	TURF ROTARY NOZZLES	RAIN BIRD	R-VAN24 1806-SAM-P45 TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 6.0" POP-UP
	EXISTING TURF ROTOR	HUNTER	
	BUBBLER	RAINBIRD	1401 EMITTER REFER TO PLANTING PLAN FOR ACTUAL PLANT QUANTITY AND LOCATIONS. INSTALL (2) EMITTERS PER TREE ON THE HIGH SIDE OF THE PLANT. (0.25 GPM) VERIFY THE LAYOUT AND SPACING IN THE FIELD PRIOR TO STARTING WORK. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



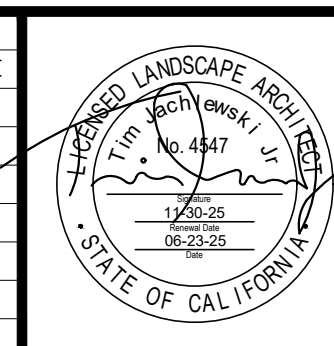
I HAVE COMPLIED WITH THE CRITERIA OF THE STATE AND LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION PLAN.

IRRIGATION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE PLANS COMPARED TO ACTUAL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. IF THERE ARE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER TO WORK OUT A SOLUTION AGREEABLE TO THE OWNER. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER OF THE DISCREPANCIES PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL LABOR AND MATERIALS AS DIRECTED BY THE OWNER TO RESOLVE SUCH DISCREPANCIES AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES PRIOR TO ORDERING MATERIALS AND BEGINNING WORK. THE CONTRACTOR SHALL CLEARLY MARK ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PRESERVING ALL UTILITIES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REPAIRING DAMAGED UTILITIES AT NO ADDITIONAL COST TO OWNER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION WITHIN OR OUTSIDE THE PROJECT LIMIT OF WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL CONDUIT AND IRRIGATION SLEEVING WITH OTHER CONSTRUCTION TRADE CONTRACTORS.
5. THE LANDSCAPE IRRIGATION SYSTEM SHALL BE DESIGNED AND MAINTAINED TO PREVENT SPRAY ON STRUCTURES. FIELD ADJUST ALL SPRINKLERS TO ELIMINATE OVERSPRAY ONTO BUILDINGS, STRUCTURES, WALLS, SIDEWALKS, DRIVEWAYS, OR HARDSCAPE.
6. OBTAIN A STATIC WATER PRESSURE READING AT THE POINT-OF-CONNECTION PRIOR TO PROCEEDING WITH INSTALLATION. IF THE WATER PRESSURE FOUND IS DIFFERENT THAN SHOWN ON PLANS, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF RECORD FOR FURTHER INSTRUCTIONS.
7. IRRIGATION PLAN IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE IRRIGATION SYSTEM PER MANUFACTURER'S RECOMMENDATIONS AND ADJUSTING THE SYSTEM AS-NEEDED TO ACHIEVE UNIFORM COVERAGE.
8. THE "SMART" CONTROLLER SHALL PROGRAMMED PER MANUFACTURER'S INSTRUCTIONS AND SHALL BE SET TO "AUTOMATICALLY ADJUST" BASED ON WEATHER ON OR PRIOR TO DAY 60 OF THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL CLOSELY MONITOR IRRIGATION AND FINE-TUNE THE CONTROLLER SETTINGS FOR EACH STATION DURING DAYS 61-90 OF THE MAINTENANCE PERIOD.
9. PROVIDE CONTROL SPARE WIRE FROM CONTROLLER TO END OF EACH PRESSURE SUPPLY MAINLINE IN EACH RUN. BUNDLE IN BOX.
10. PROVIDE WIRE SLEEVES AT EACH PRESSURE SUPPLY LINE SLEEVE PER DETAILS AND SPECIFICATIONS.
11. REDUCED PRESSURE BACKFLOW DEVICE SHALL BE CERTIFIED BY A STATE CERTIFIED BACKFLOW TESTOR.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
13. NO OVERHEAD IRRIGATION IS ALLOWED WITHIN 24" OF A NON-PERMEABLE SURFACE. FIELD ADJUST ALL SPRINKLERS TO ELIMINATE OVERSPRAY ONTO SIDEWALKS OR DRIVEWAYS.



ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE

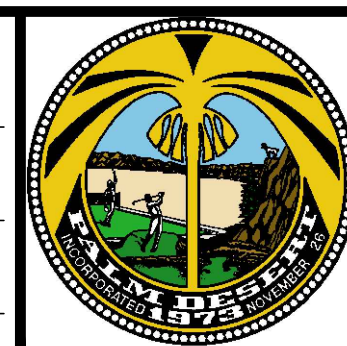


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 DATE: 06-23-25
 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE

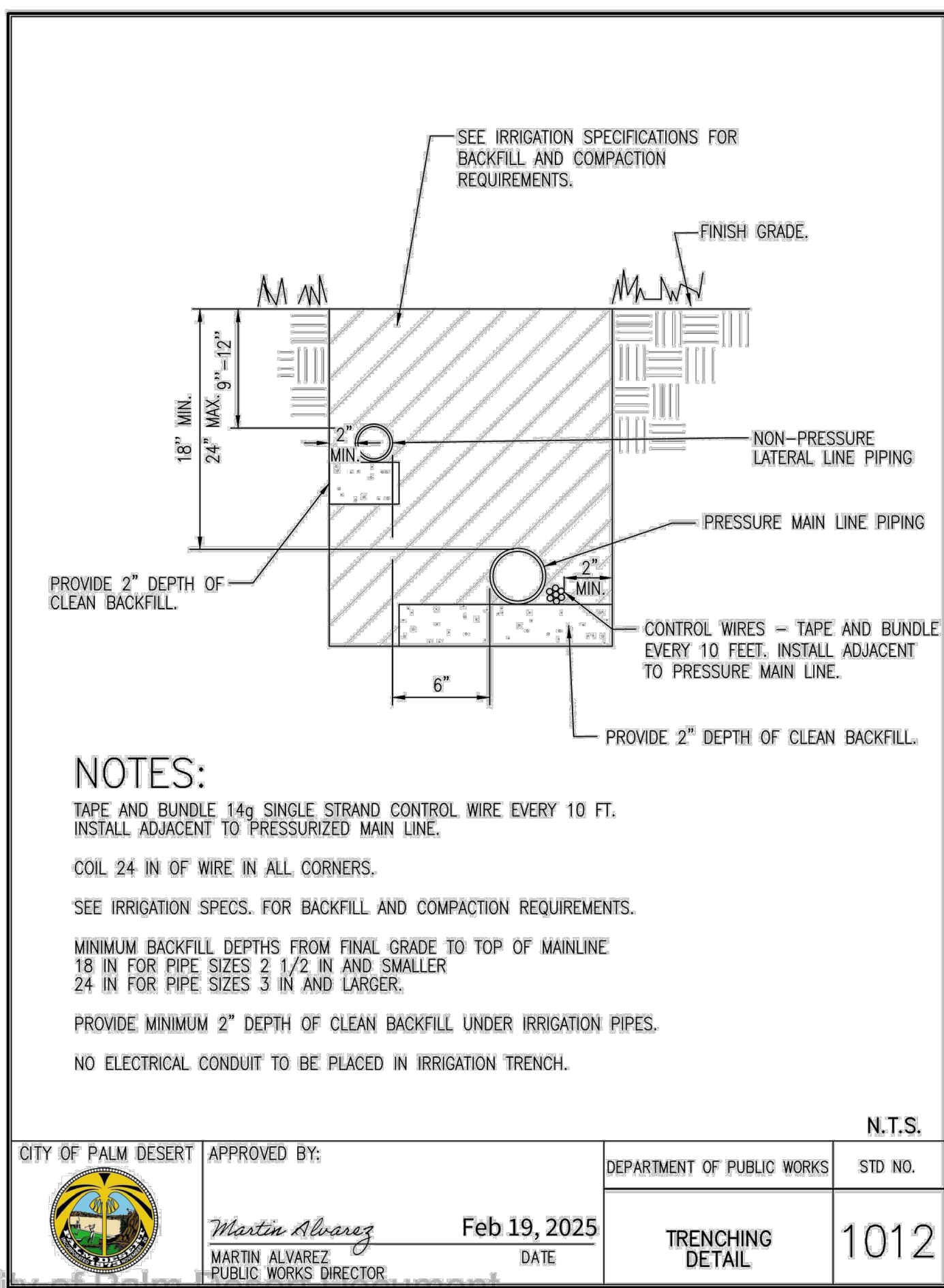
PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	



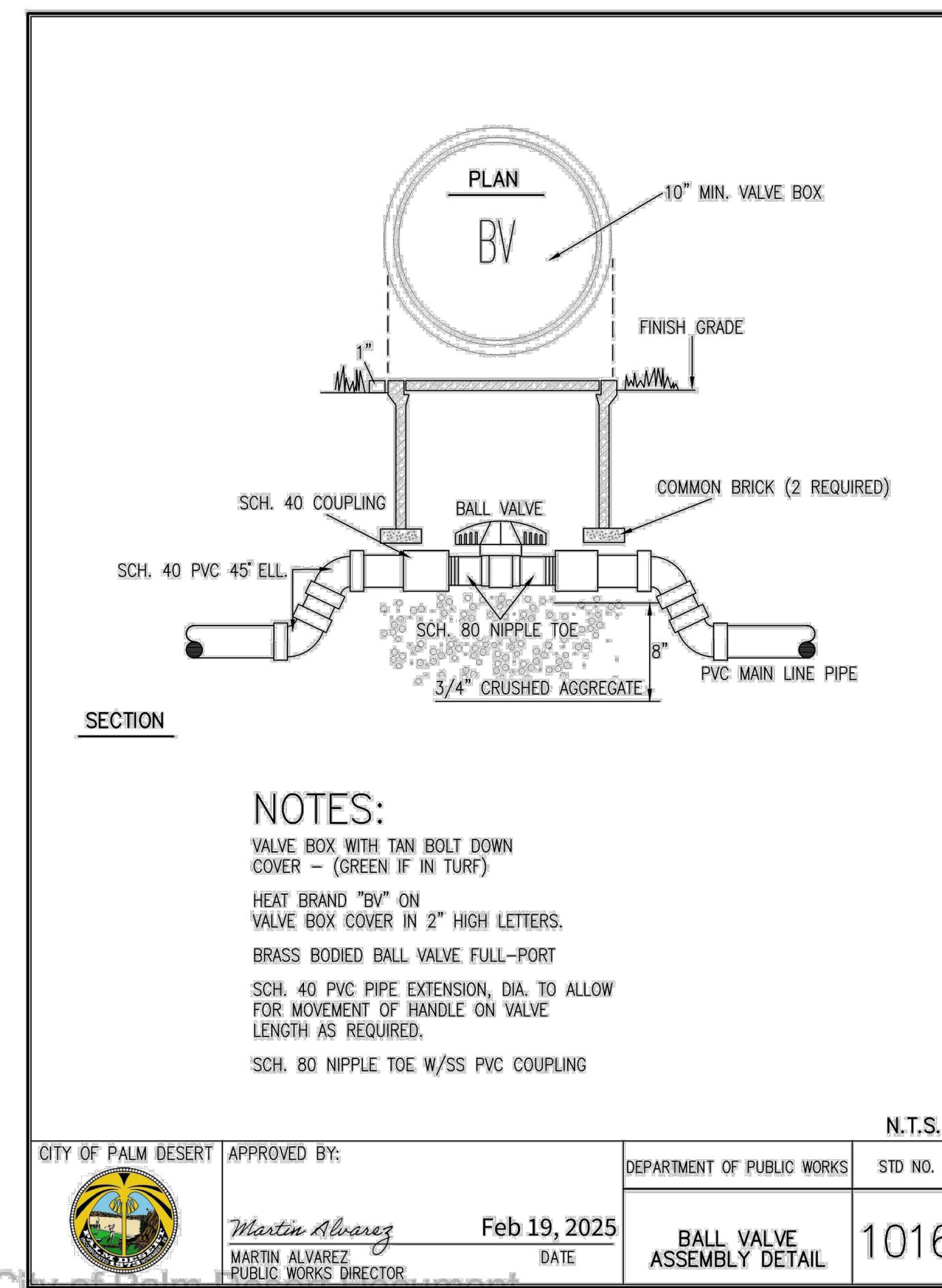
CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
IRRIGATION LEGEND, CALCS, & NOTES
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET	22
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



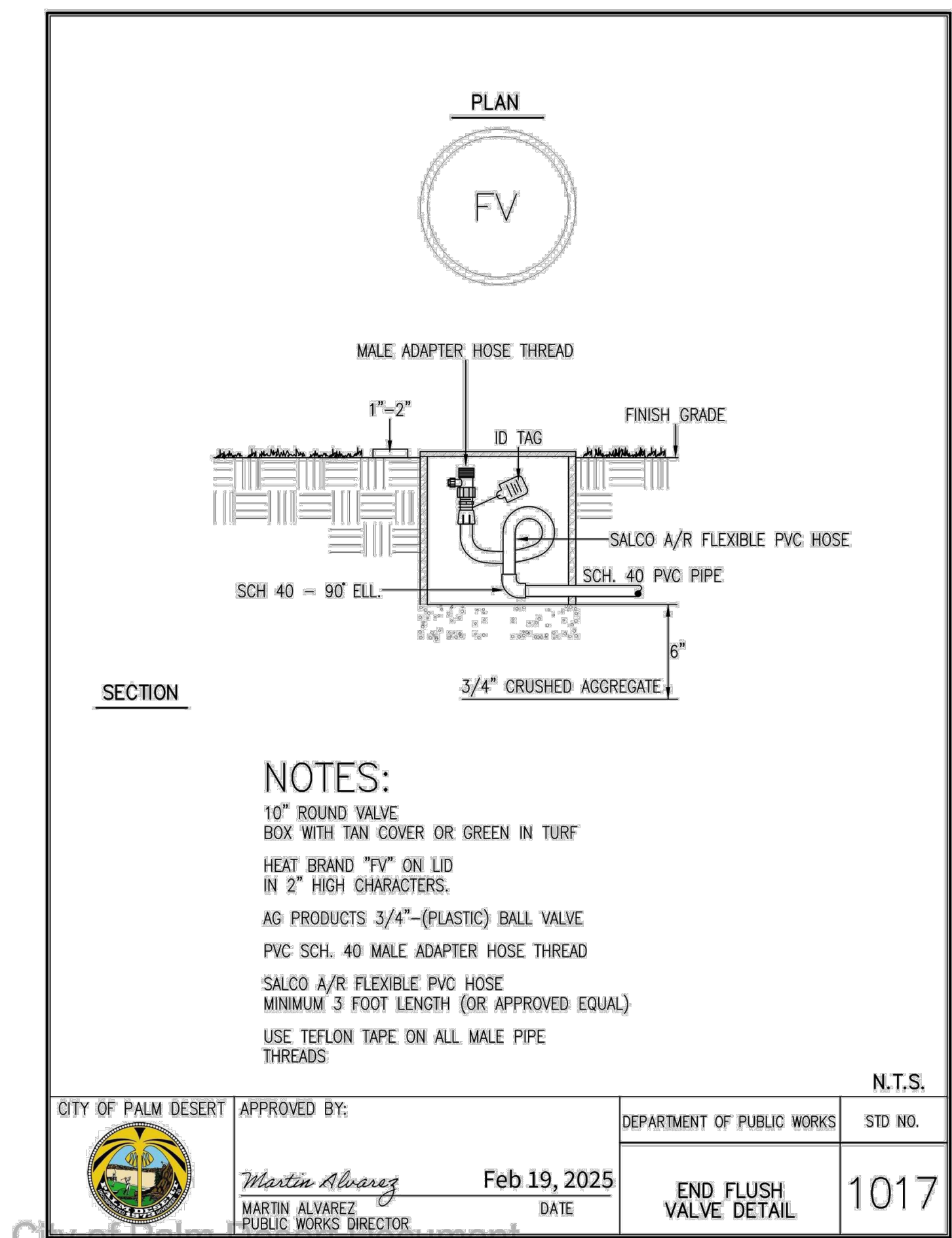
NOTES:
 TAPE AND BUNDLE 14g SINGLE STRAND CONTROL WIRE EVERY 10 FT. INSTALL ADJACENT TO PRESSURIZED MAIN LINE.
 COIL 24 IN OF WIRE IN ALL CORNERS.
 SEE IRRIGATION SPECS. FOR BACKFILL AND COMPACTION REQUIREMENTS.
 MINIMUM BACKFILL DEPTHS FROM FINAL GRADE TO TOP OF MAINLINE 18 IN FOR PIPE SIZES 2 1/2 IN AND SMALLER 24 IN FOR PIPE SIZES 3 IN AND LARGER.
 PROVIDE MINIMUM 2" DEPTH OF CLEAN BACKFILL UNDER IRRIGATION PIPES.
 NO ELECTRICAL CONDUIT TO BE PLACED IN IRRIGATION TRENCH.

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	TRENCHING DETAIL 1012



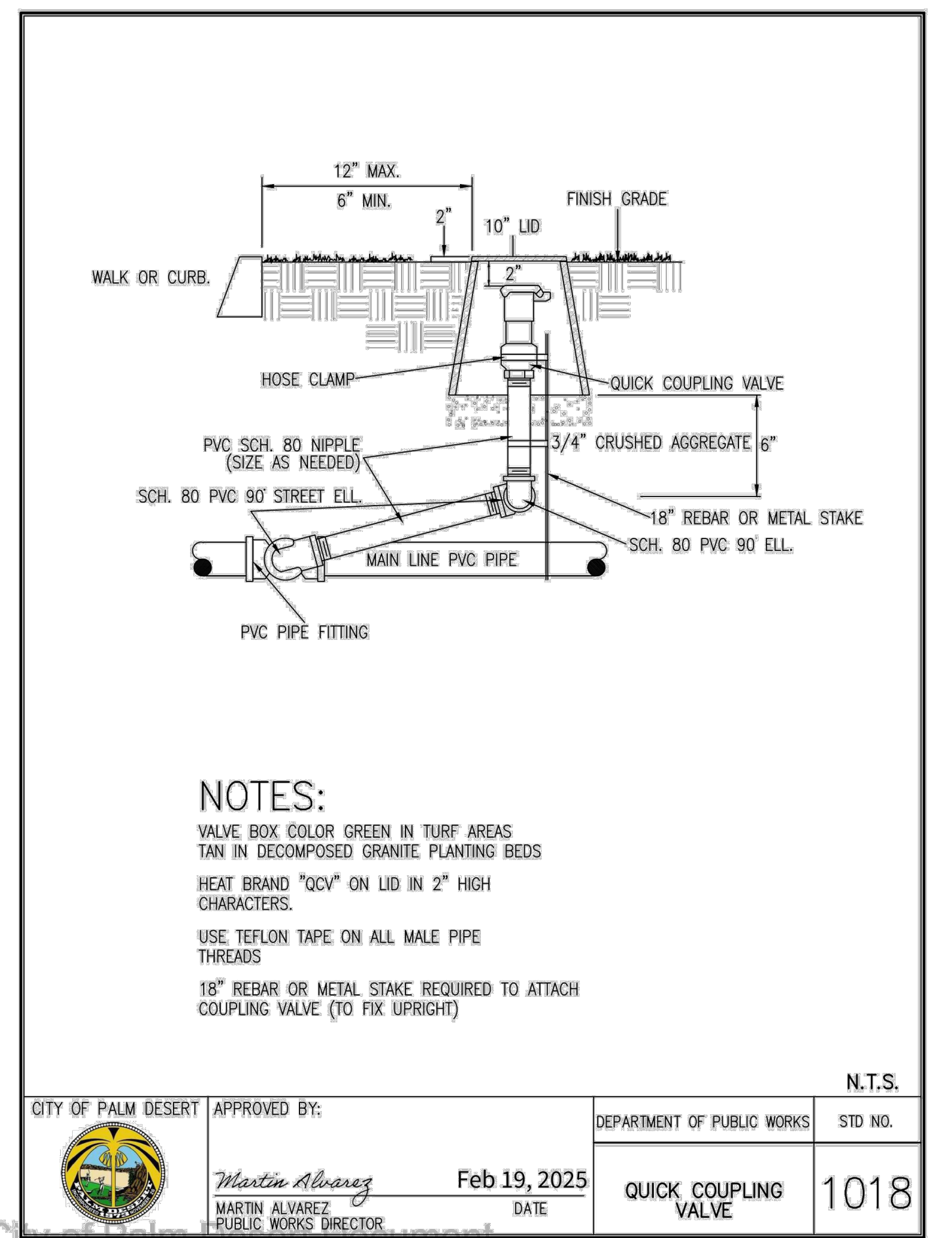
NOTES:
 VALVE BOX WITH TAN BOLT DOWN COVER - (GREEN IF IN TURF)
 HEAT BRAND "BV" ON VALVE BOX COVER IN 2" HIGH LETTERS.
 BRASS BODIED BALL VALVE FULL-PORT
 SCH. 40 PVC PIPE EXTENSION, DIA. TO ALLOW FOR MOVEMENT OF HANDLE ON VALVE LENGTH AS REQUIRED.
 SCH. 80 NIPPLE TOE W/SS PVC COUPLING

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	BALL VALVE ASSEMBLY DETAIL 1016



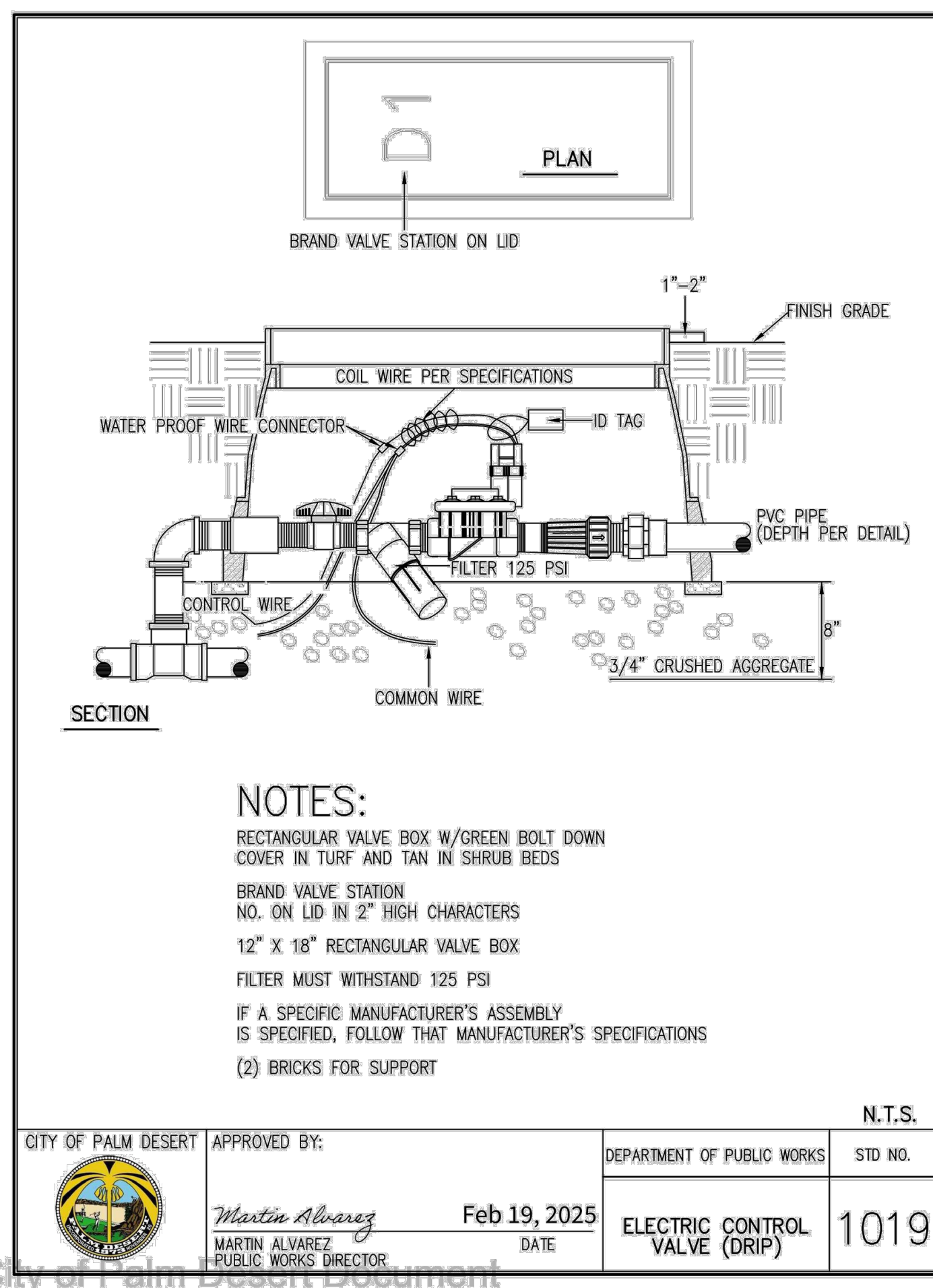
NOTES:
 10" ROUND VALVE BOX WITH TAN COVER OR GREEN IN TURF
 HEAT BRAND "FV" ON LID IN 2" HIGH CHARACTERS.
 AG PRODUCTS 3/4"-(PLASTIC) BALL VALVE
 PVC SCH. 40 MALE ADAPTER HOSE THREAD
 SALCO A/R FLEXIBLE PVC HOSE MINIMUM 3 FOOT LENGTH (OR APPROVED EQUAL)
 USE TEFLON TAPE ON ALL MALE PIPE THREADS

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	END FLUSH VALVE DETAIL 1017



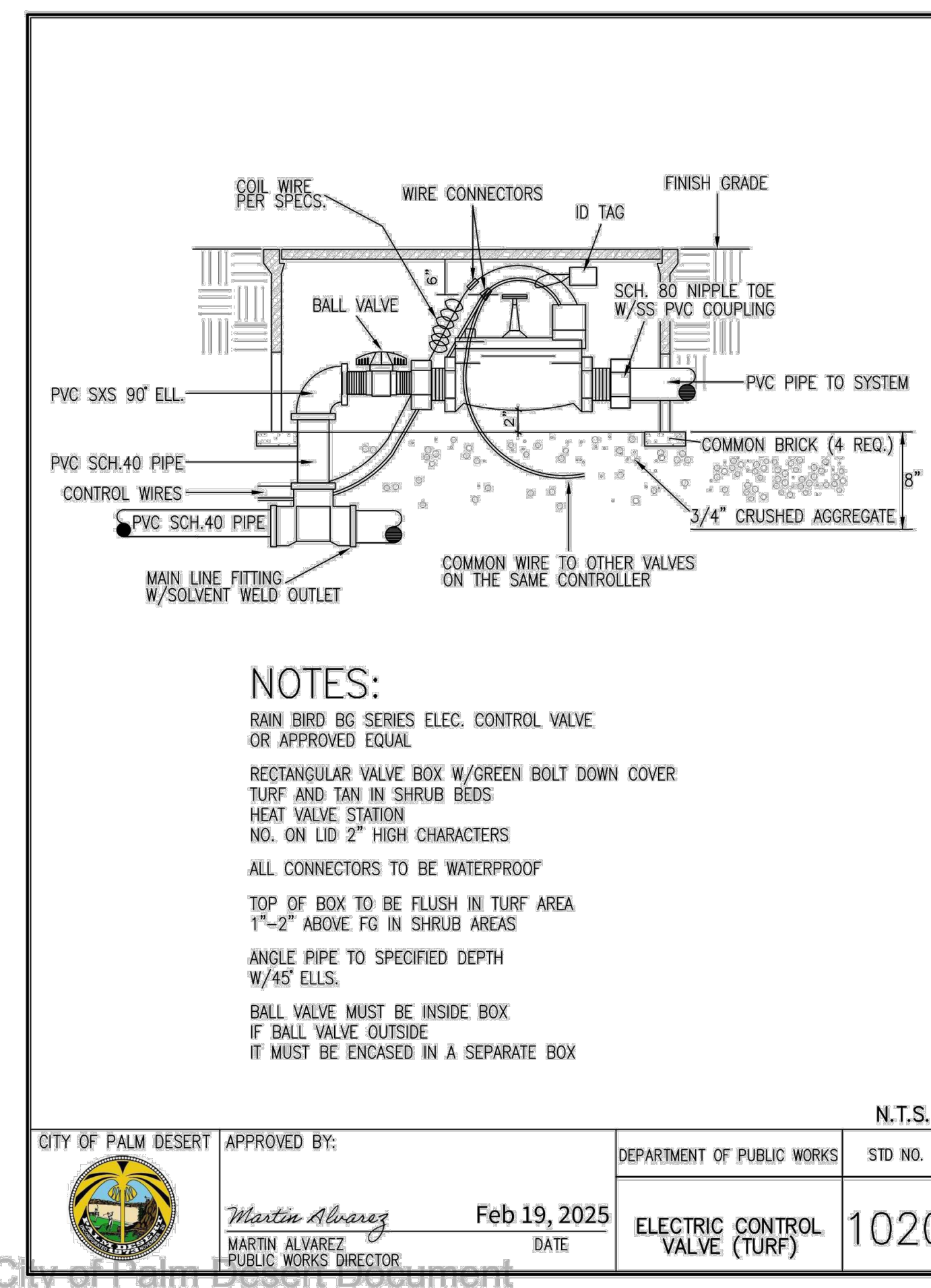
NOTES:
 VALVE BOX COLOR GREEN IN TURF AREAS TAN IN DECOMPOSED GRANITE PLANTING BEDS
 HEAT BRAND "QCV" ON LID IN 2" HIGH CHARACTERS.
 USE TEFLON TAPE ON ALL MALE PIPE THREADS
 18" REBAR OR METAL STAKE REQUIRED TO ATTACH COUPLING VALVE (TO FIX UPRIGHT)

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	QUICK COUPLING VALVE 1018



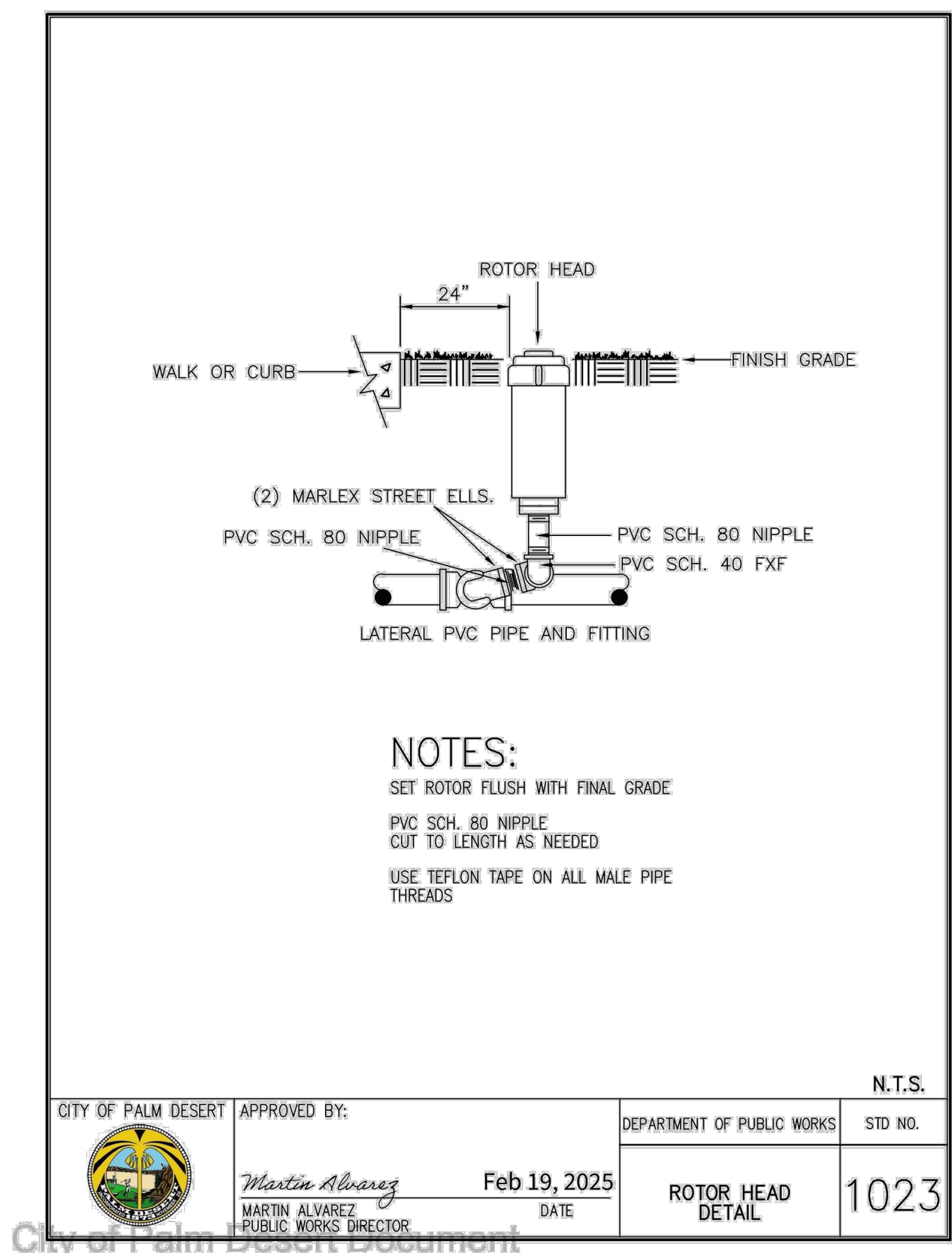
NOTES:
 RECTANGULAR VALVE BOX W/GREEN BOLT DOWN COVER IN TURF AND TAN IN SHRUB BEDS
 BRAND VALVE STATION NO. ON LID IN 2" HIGH CHARACTERS
 12" X 16" RECTANGULAR VALVE BOX
 FILTER MUST WITHSTAND 125 PSI
 IF A SPECIFIC MANUFACTURER'S ASSEMBLY IS SPECIFIED, FOLLOW THAT MANUFACTURER'S SPECIFICATIONS
 (2) BRICKS FOR SUPPORT

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	ELECTRIC CONTROL VALVE (DRIP) 1019



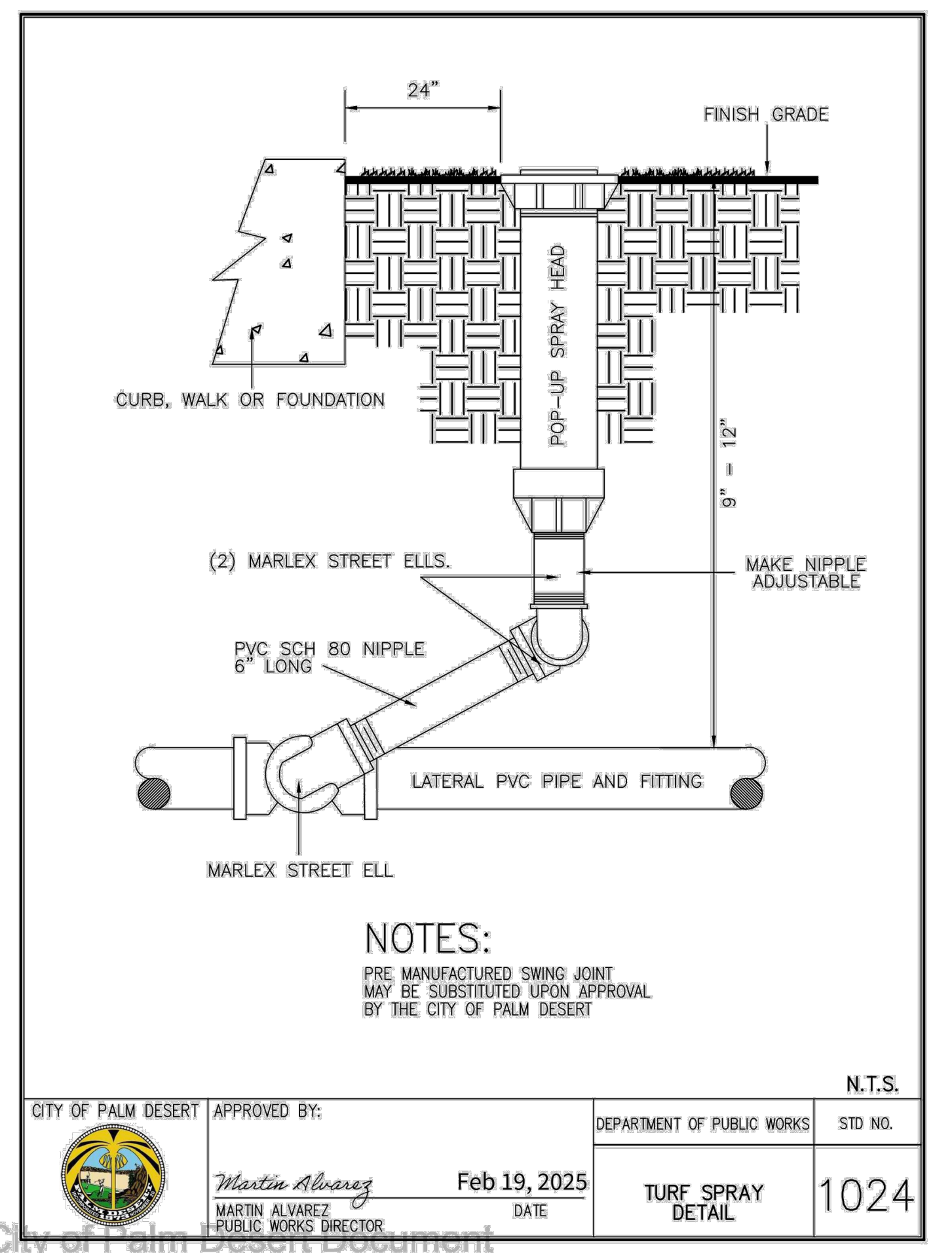
NOTES:
 RAIN BIRD BG SERIES ELEC. CONTROL VALVE OR APPROVED EQUAL
 RECTANGULAR VALVE BOX W/GREEN BOLT DOWN COVER IN TURF AND TAN IN SHRUB BEDS
 HEAT VALVE STATION NO. ON LID 2" HIGH CHARACTERS
 ALL CONNECTORS TO BE WATERPROOF
 TOP OF BOX TO BE FLUSH IN TURF AREA 1"-2" ABOVE FG IN SHRUB AREAS
 ANGLE PIPE TO SPECIFIED DEPTH W/45° ELLS.
 BALL VALVE MUST BE INSIDE BOX IF BALL VALVE OUTSIDE IT MUST BE ENCASED IN A SEPARATE BOX

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	ELECTRIC CONTROL VALVE (TURF) 1020



NOTES:
 SET ROTOR FLUSH WITH FINAL GRADE
 PVC SCH. 80 NIPPLE CUT TO LENGTH AS NEEDED
 USE TEFLON TAPE ON ALL MALE PIPE THREADS

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	ROTOR HEAD DETAIL 1023

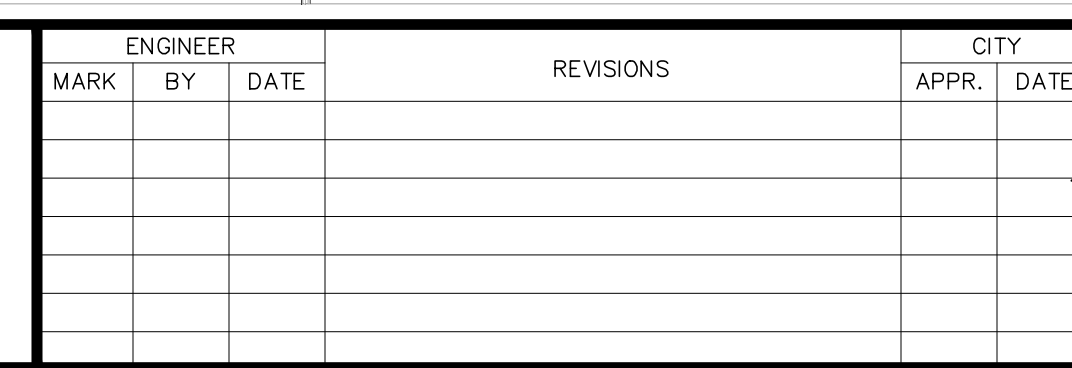


NOTES:
 PRE MANUFACTURED SWING JOINT MAY BE SUBSTITUTED UPON APPROVAL BY THE CITY OF PALM DESERT

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	Feb 19, 2025 DATE	TURF SPRAY DETAIL 1024

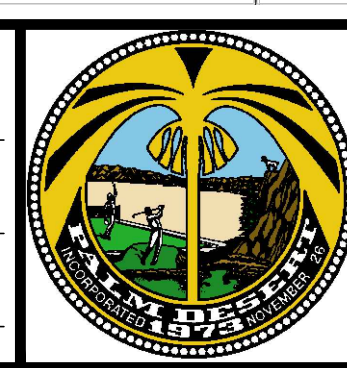


ENGINEER	MARK	BY	DATE	REVISIONS	CITY	APPR.	DATE



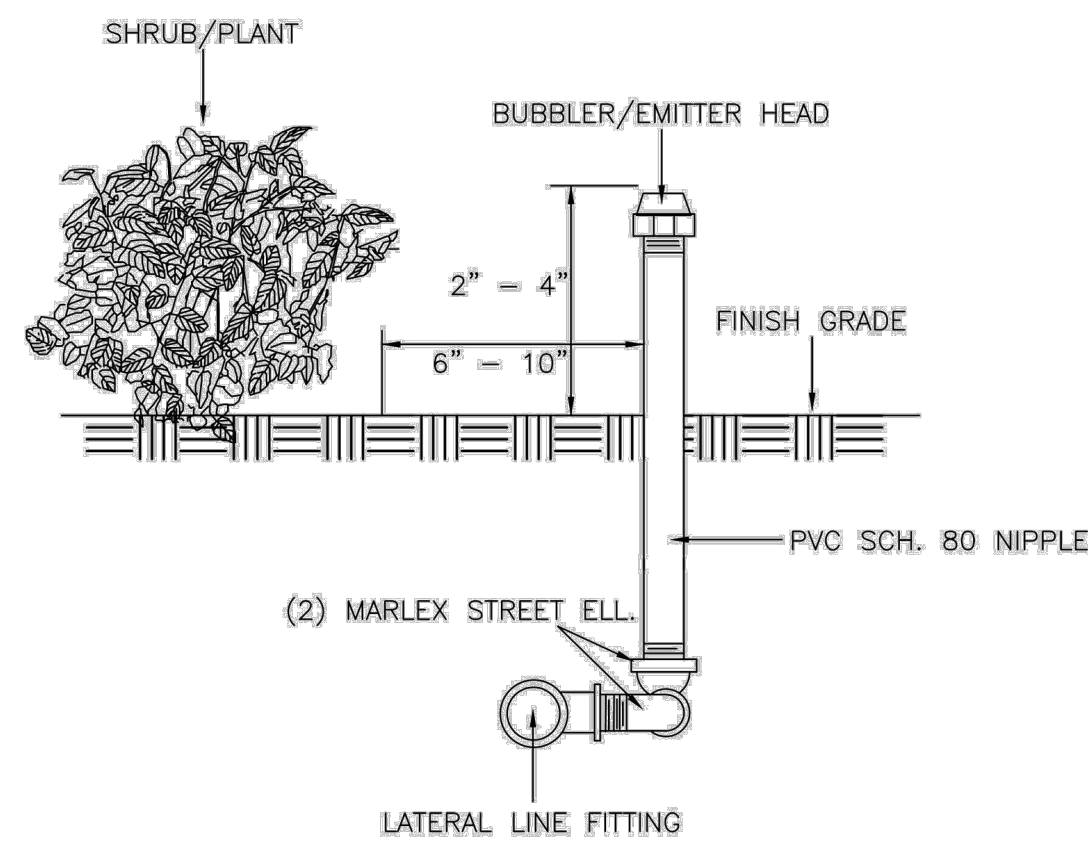
IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.in-sitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT	
APPROVED BY:	DATE
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24	
REVIEWED AND RECOMMENDED BY:	DATE



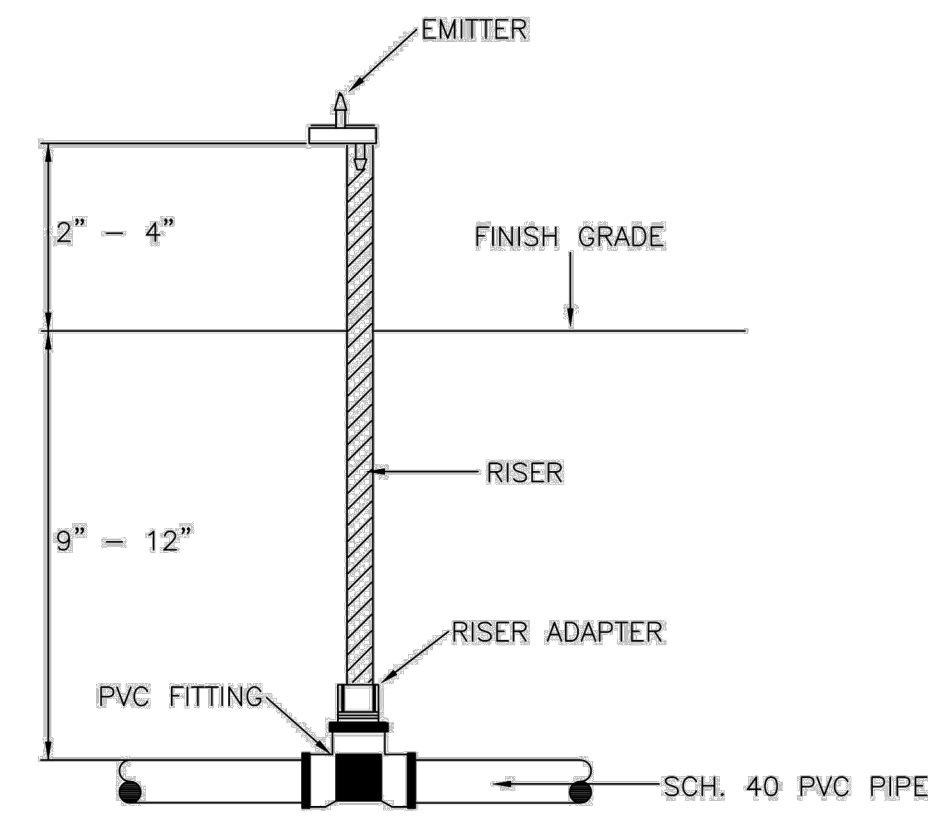
CITY OF PALM DESERT
 LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 IRRIGATION DETAILS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S96M)

SHEET	23
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



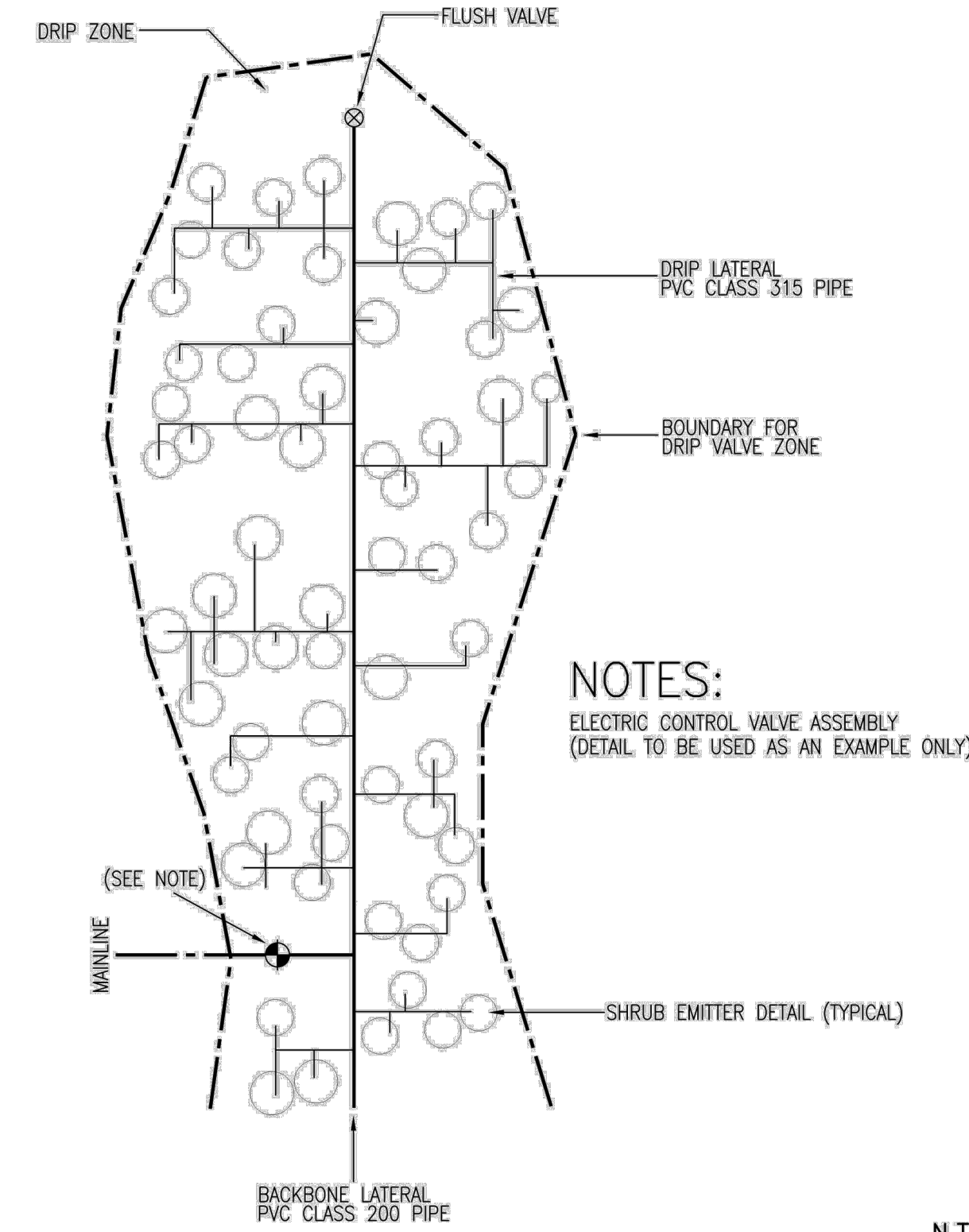
NOTES:
 HEADS 2" TO 4" ABOVE FINAL GRADE
 EMITTER TO BE 6" TO 10" AWAY FROM
 EDGE OF ROOTBALL OR PLANTS/SHRUBS
 ON HIGH SIDE OF PLANT

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD. NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	BUBBLER/EMITTER DETAIL	1025
	Feb 19, 2025 DATE		



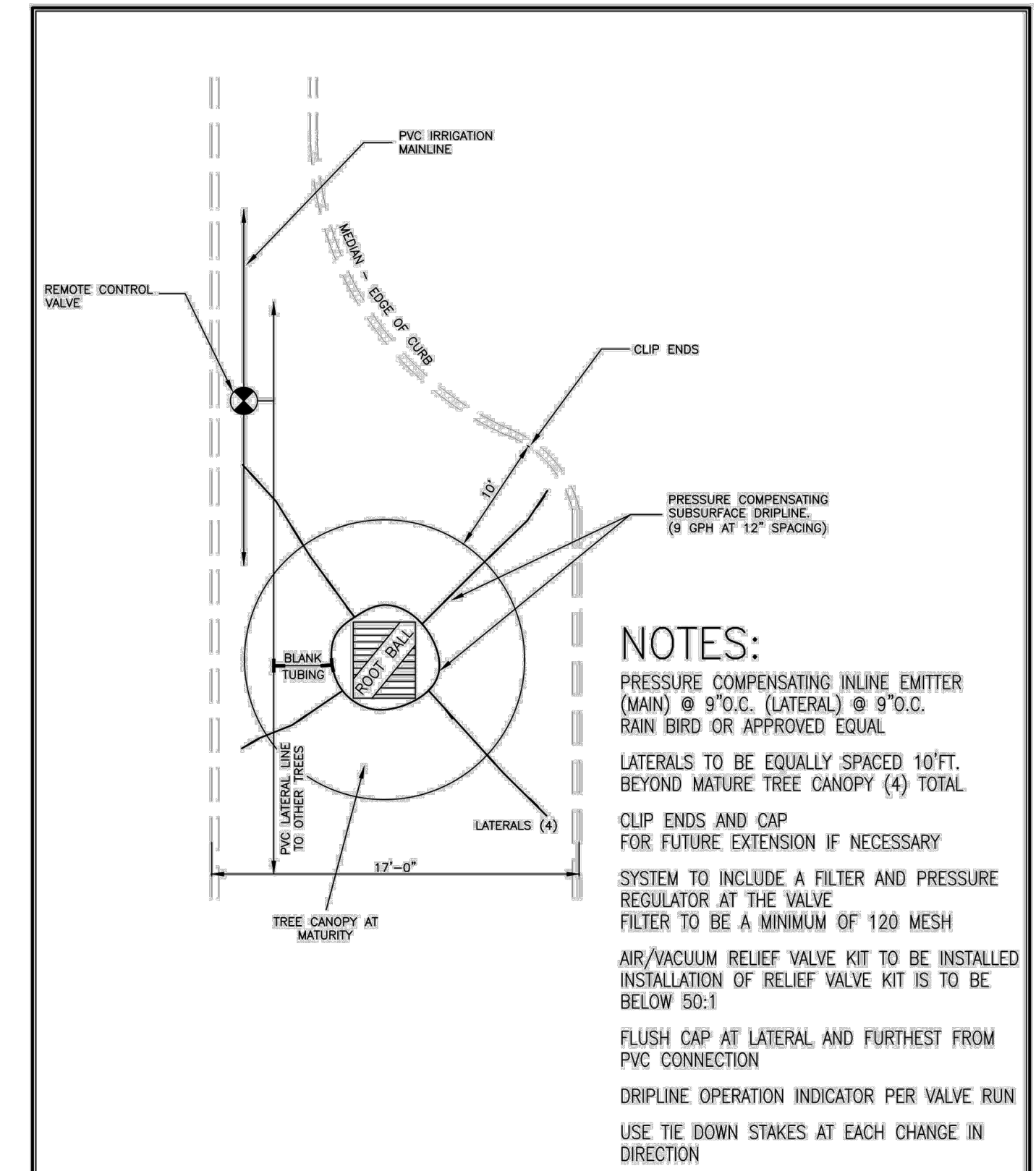
NOTES:
 POLY FLEX RISER 1/4"
 EMITTER TO HAVE DIFFUSER CAP IF NEEDED
 OR APPROVED EQUAL W/POLY FLEX RISER ADAPTER
 PVC FITTING (S X S X 1/2" FIPT.)
 PVC PIPE (DEPTH PER SPECIFICATIONS)

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD. NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	DRIP EMITTER DETAIL	1026
	Feb 19, 2025 DATE		



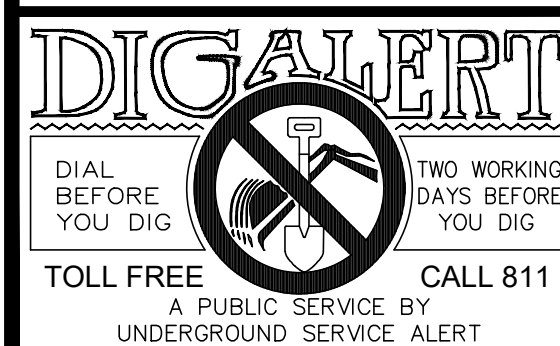
NOTES:
 ELECTRIC CONTROL VALVE ASSEMBLY
 (DETAIL TO BE USED AS AN EXAMPLE ONLY)

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD. NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	DRIP ZONE DETAIL	1027
	Feb 19, 2025 DATE		

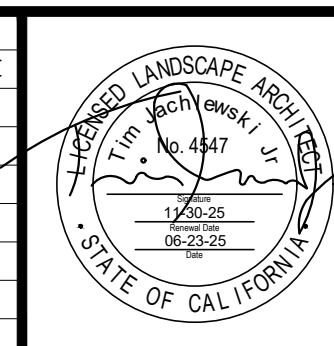


NOTES:
 PRESSURE COMPENSATING INLINE EMITTER
 (MAIN) @ 9" O.C. (LATERAL) @ 9" O.C.
 RAIN BIRD OR APPROVED EQUAL
 LATERALS TO BE EQUALLY SPACED 10' FT.
 BEYOND MATURE TREE CANOPY (4) TOTAL
 CLIP ENDS AND CAP
 FOR FUTURE EXTENSION IF NECESSARY
 SYSTEM TO INCLUDE A FILTER AND PRESSURE
 REGULATOR AT THE VALVE
 FILTER TO BE A MINIMUM OF 120 MESH
 AIR/VACUUM RELIEF VALVE KIT TO BE INSTALLED
 INSTALLATION OF RELIEF VALVE KIT IS TO BE
 BELOW 50:1
 FLUSH CAP AT LATERAL AND FURTHEST FROM
 PVC CONNECTION
 DRIPLINE OPERATION INDICATOR PER VALVE RUN
 USE TIE DOWN STAKES AT EACH CHANGE IN
 DIRECTION

CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD. NO.
	<i>Martin Alvarez</i> MARTIN ALVAREZ PUBLIC WORKS DIRECTOR	TREE EMITTER	1028
	Feb 19, 2025 DATE		



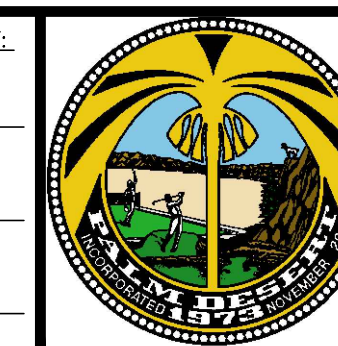
ENGINEER			REVISIONS		CITY	
MARK	BY	DATE			APPR.	DATE



IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JAGLEWSKI, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT	
APPROVED BY:	
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24	DATE
REVIEWED AND RECOMMENDED BY:	DATE

PLAN CHECKED BY:	
CIVIL	
TRAFFIC	
LANDSCAPE	



CITY OF PALM DESERT
 LANDSCAPE ARCHITECTURAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 IRRIGATION DETAILS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S68M)

**SECTION 328400
IRRIGATION SYSTEM**

PART 1 - GENERAL

1.01 SUMMARY:

- A. This section covers the furnishings of all materials and performing all operations to provide a complete operable landscape irrigation system as shown on the drawings including the following:
 - 1. Trenching, stockpiling excavated materials and refilling trenches.
 - 2. Irrigation system components including but not limited to: piping, backflow prevention devices and enclosures, valves, fittings, rotors, spray heads, controllers, wiring and final adjustments as determined by the landscape architect to insure efficient and uniform distribution.
 - 3. Pipe connections to irrigation pump stations, water meters and backflow prevention devices.
 - 4. Testing and inspection of irrigation system.
 - 5. Clean-up and maintenance
- B. The conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

1.02 RELATED REQUIREMENTS:

- A. Section 329300 Landscaping
- B. Section 320533 Landscape Maintenance

1.03 GENERAL REQUIREMENTS:

- A. Code Requirements shall be those of State and Municipal Codes and Regulations locally governing this work, providing that any requirements of the Drawings and Specifications, not conflicting therewith but exceeding the Code Requirements shall govern, unless written permission to the contrary is granted by the Landscape architect.
- B. Conform to the requirements of the reference information listed below except where more stringent requirements are shown or specified in the most current set of construction documents:
 - 1. American Society for Testing Material (ASTM), for test methods specifically referenced in this section.
 - 2. Underwriter's Laboratories (UL), for UL wires and cables.
- C. Work involving substantial plumbing for installation of brass piping, backflow prevention devices and other related work shall be executed by a licensed and bonded plumbing contractor. Any necessary permits shall be obtained prior to beginning work.
- D. Specified depths of pressure supply lines, laterals and pitch of pipes as stated in this section are minimums. Settlement of trenches lower than grades specified on the final grading plans is cause for removal of finish grade treatment, refilling trenches, recompacting and repairing of finish grade treatment.
- E. Follow current printed manufacturer's specifications and drawings for items or information not specified or graphically indicated in the most current set of construction drawings.
- F. Scaled dimensions are approximate and at times it is not possible to indicate offsets, fittings and other related equipment graphically on the construction drawings. Contractor shall be responsible for minor changes caused by actual site conditions. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions of related landscape architectural elements, utilities and landscaping and furnish and install required fittings.
- G. Do not install the irrigation system as shown on the construction drawings when it is obvious that actual field conditions such as physical obstructions, grading discrepancies and field dimensions vary from those recorded on the construction drawings. Immediately bring any such discrepancies to the attention of the landscape architect prior to proceeding with work. If immediate notification is not given and such discrepancies exist, the contractor shall assume full responsibility for necessary revisions, as determined by the landscape architect.

1.03 EXISTING FIELD CONDITIONS:

- A. Preserve and protect all existing trees, plants, monuments, structures, hardscape and landscape architectural elements from damage due to work in this section. In the event that damage does occur to inanimate object and structures, the contractor shall repair or replace such damage to the satisfaction of the owner or owner's representative. Damage or injury to living plant material shall be replaced by the contractor at the contractor's expense.
- B. Trenching or other work required in this section under the limb spread of existing trees shall be done by hand or by other methods so as to prevent damage or harm to limbs, branches and roots.
- C. Trenching in areas where root diameter exceeds 2 inches shall be done by hand. Exposed roots of this size shall be heavily wrapped with moistened burlap to avoid scarring or excessive drying. Where a trenching machine is operated in proximity to roots that are less than 2 inches, the wall of the trench shall be hand trimmed, making clean cuts through roots.
- D. Trenches adjacent to or under existing trees shall be closed within 24 hours, and when this is not possible, the side of trench closest to the tree or trees affected shall be covered with moistened burlap.
- E. Protect, maintain and coordinate work with other contracts, specifications, trades, and utilities. Extreme care shall be exercised in excavating and working in the area due to existing utilities. Contractor shall be responsible for damages caused by their operations. In the event that damage does occur, the costs of such repairs shall be paid by the contractor unless other arrangements have been made with the owner.
- F. Use caution where trenches and piping cross existing roadways, sidewalks, hardscape, paths or curbs. In the event that damage does occur, the contractor will repair such damage at the contractor's expense.

1.04 REQUIRED DOCUMENTS:

- A. Submittals
 - 1. Submit 1 (one) PDF file of all irrigation equipment to be used, manufacturer's brochures, service manuals, guarantees, and operating instructions for approval to the landscape architect prior to beginning work. Submittals should be in a bound form complete with table of contents. The contractor shall not proceed with work in the field until this submittal is approved in its entirety by the landscape architect.
- B. Service Manuals
 - 1. The Contractor shall furnish (4) four service manuals to the owner prior to scheduling a walk through for substantial completion. Manuals shall be submitted in a bound form complete with a table of contents, and workmanship form on company letterhead copy of contractor's warranty and shall contain complete enlarged drawings of all equipment installed showing component warranties and catalog numbers together with the manufacturer's name and address. Manuals shall include operation instructions. Manuals shall be subject to approval by the owner or owner's representative as to completeness.
- C. Record Drawings/As-Builts
 - 1. Prior to beginning work in the field the contractor shall secure a complete set of irrigation plans at the original scale complete with details and specifications. The contractor shall be responsible for making a set of prints for every week on the project. At the end of each working day, the contractor shall record all work accomplished for that day on the set of prints in red ink. These record drawings shall be brought up to date at the end of each work week by a qualified draftsman. The drawings should indicate the following:
 - (a) Any zoning changes.
 - (b) Dimension from two permanent points of reference (building corners, fixed hardscape corners, road intersections, or permanent existing utilities) the location of the following items:
 - (1) Water meters.
 - (2) Pump stations.
 - (3) Connection to existing water lines.
 - (4) Routing of pressure supply lines at every 100' along routing.
 - (5) Backflow Prevention Devices
 - (6) Flow Sensors
 - (7) Master Valves
 - (8) Isolation Ball Valves
 - (9) Quick Coupling Valves
 - (10) Air Release Valves
 - (11) Electric Control Valves
 - (12) Drip Valve Assemblies
 - (13) Flush Valve Assemblies
 - (14) Swing Check Valves
 - (15) Central Control System Controllers
 - (16) Grounding rods.
 - (17) Control wire routing (if routed separately from pressure supply line).
 - (18) Control wire splices that are outside of the controller.
 - (19) Weather Station Equipment
 - (20) Communication Equipment for Central Control System
 - (21) Other equipment as directed by the landscape architect.
 - 2. Prior to scheduling a walk through for substantial completion, provide a record set of field as-built drawings as described above to the landscape architect for review. After review, the landscape architect will return the as-built set to the field foreman requesting further information or will notify the owner that the record set of field as-builts drawings are complete. After approval from the owner, a walk through for substantial completion may be scheduled.
 - 3. Prior to scheduling the final walk through, the final set of irrigation as-built drawings shall be professionally drafted in AutoCAD by the landscape architect.
 - 4. The landscape architect and the contractor shall verify the final as-builts at the time of the final walk through and once successful the landscape architect shall deliver the final set of as-built drawings to the owner or owner's representative prior to initiating the maintenance period for the contractor.
- D. Controller Charts
 - 1. Prior to scheduling a walk through for substantial completion, provide a record set of field controller charts which have color coded each station within each controller to the landscape architect for review. After review, the landscape architect will return the controller charts to the field foreman requesting further information or will notify the owner that the record set of controller charts are complete. After approval from the owner, a walk through for substantial completion may be scheduled.
 - 2. Prior to scheduling a final walk through, one set of controller charts shall be professionally drafted by the contractor for each controller unit installed on the project. The controller drawings shall be an actual AutoCAD reduction of the area covered by that controller unit and shall be at the maximum allowable scale that will fit inside the controller door without folding the drawing.
 - 3. The landscape architect and the contractor shall verify each controller chart at the time of the final walk through and once successful, the contractor shall deliver the final set of controller charts to the owner or owner's representative (and one PDF file via email to the landscape architect and owner) prior to initiating the maintenance period for the contractor. The controller chart sent to the owner shall be hermetically sealed between two (2) pieces of minimum 20 mils thick plastic.

- 4. The contractor shall then permanently fix the controller chart to the inside of the applicable controller.

PART 2 - PRODUCTS

2.01 PIPING

- A. General Piping:
 - 1. Pipe sizes shown are nominal inside diameter unless otherwise noted.
 - 2. Pipe shall be identified with the following indelible markings:
 - (a) Manufacturer's name.
 - (b) Nominal pipe size.
 - (c) Schedule or class.
 - (d) Pressure rating.
 - (e) NSF (National Sanitation Foundation) seal of approval.
 - (f) Date of extrusion.
 - 3. All pipe shall be purple for Recycled Water points of connection.
- B. Solvent Weld Pressure Supply Line:
 - 1. Solvent Weld Pressure Supply Line: (downstream of Backflow prevention device) PVC CL315BE (1" - 3")
 - (a) Manufactured from virgin polyvinyl chloride (PVC) compound in accordance with ASTM D2241 and ASTM D1784; cell classification 12454-B.
 - (b) Type 1, Grade 1.
 - 2. Fittings: Standard weight, Schedule 40, injection molded PVC, complying with ASTM D1784 and D2466, cell classification 12454-B.
 - (a) Threads- Injection molded type (where required)
 - (b) Tees and Ells- side gated
 - 3. Threaded Nipples: ASTM D2464, Schedule 80 with molded threads.
 - 4. Joint Cement and Primer: Type as recommended by manufacturer of pipe and fittings.
- C. Non-Pressure Lines Below Grade:
 - 1. Non-Pressure Lines: (downstream of electric remote control valve) PVC SCH 40.
 - 2. Fittings: Standard weight, Schedule 40, injection molded PVC, complying with ASTM D1784 and D2466, cell classification 12454-B.
 - (a) Threads- Injection molded type (where required)
 - (b) Tees and Ells- side gated
 - (c) Threaded Nipples: ASTM D2464, Schedule 80 with molded threads.
 - 3. Joint Cement and Primer: Type as recommended by manufacturer of pipe and fittings.
- D. Sleeving and Conduit:
 - 1. All PVC sleeving for pressure supply line and non- pressure supply line shall be twice the nominal size of the pipe within and used for sleeves below grade as indicated in the following sleeve and conduit schedule:
 - (a) PVC SCH 40 for 1"-2 1/2" pressure supply line.
 - (b) PVC SCH 40 for 3" and larger pressure supply line.
 - (c) PVC SCH 40 for non- pressure lines.
 - (d) (1) one 3/4" PVC SCH. 40 conduit for up to 5 wires.
 - (e) (1) one 1" PVC SCH. 40 conduit for up to 8 wires.
 - (f) (1) one 1 1/4" PVC SCH. 40 conduit for up to 15 wires.
 - (g) (1) one 1 1/2" PVC SCH. 40 conduit for up to 20 wires.
 - (h) (1) one 2" PVC SCH 40 conduit for up to 30 wires.
 - (i) (1) one 2 1/2" PVC SCH 40 conduit for up to 35 wires.
 - (j) (1) one 3/4" PVC SCH 40 wire conduit for flow sensing cable.
 - (k) (1) one 3/4" PVC SCH 40 wire conduit for master valve wire.

2.02 BACKFLOW PREVENTION DEVICE

- A. Existing.

2.03 WYE STRAINER

- A. Existing.

2.04 PRESSURE REGULATING VALVE

- A. Existing.

2.05 MASTER VALVES

- A. Existing.

2.06 FLOW SENSORS

- A. Existing.

2.07 ISOLATION BALL VALVES FOR PRESSURE SUPPLY LINE

- A. Existing.

2.08 QUICK COUPLING VALVES

- A. Existing.

2.09 ELECTRIC CONTROL VALVES

- A. Existing.

2.10 DRIP VALVE ASSEMBLIES:

- A. Existing.

2.11 ALL IRRIGATION EMISSION DEVICES:

All irrigation emission devices must meet the requirements set in the American National Standards Institute (ANSI) standard, American Society of Agricultural and Biological

Engineers/International Code Council's (ASABE/ICC) 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard, All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.

2.12 HARD PIPED POINT TO POINT DRIP IRRIGATION:

- A. Riser Assembly For Hard Piped Point to Point Drip Irrigation:
 - 1. As specified on drawings.
- B. Emitters For Hard Piped Point to Point Drip Irrigation:
 - 1. As specified on drawings.

2.13 SUB SURFACE DRIP IRRIGATION:

- A. Drip Tubing For Subsurface Drip Tubing:
 - 1. As specified on drawings.
- B. Pressure Regulator Valves For Subsurface Drip Tubing:
 - 1. As specified on drawings.
- C. Air/Vacuum Relief Valves for Subsurface Drip Tubing:
 - 1. As specified on drawings.

2.14 CHECK VALVES:

- A. Existing.

2.15 FLUSH VALVE ASSEMBLIES:

- A. Existing.

2.16 VALVE BOXES:

- A. Rectangular valve boxes shall be 9-1/2 inch wide by 16 inch long and 11 inch high. Round valve boxes shall be 10-inch diameter and 10 1/4 inch. All valve boxes shall be constructed of rigid polyolefin.
- B. Valve boxes shall have locking covers secure with a 3/8-inch stainless steel bolt and washer.
- C. Rectangle valve boxes shall be used for control valves, master control valves, pressure regulators, flow sensors, wye strainers, filtration devices, ball valves and pull boxes.
- D. Round valve boxes shall be used for gate valves quick coupler valves, flush valve assemblies and spare wires.
- E. All valve boxes to be green in color unless otherwise specified for use of reclaimed water. All valve boxes for reclaimed water shall be purple in color and bare the reclaimed water warnings as well as the international "Do Not Drink" symbol.
- F. Heat brand all box lids with the appropriate two-inch high identification letters and/or numbers.
- G. All valve boxes shall receive landscape fabric. Landscape fabric shall be constructed of 5.0 oz. weight proven polypropylene weed barrier with burst strength of 225 P.S.I. and capable of 12 gallons per minute of water flow and puncture strength of 60 lbs. Dewitt Pro, Mirify or approved equal.
- H. All valve boxes shall receive 2 cubic feet of 3/4-inch gravel.
- I. Valve Tag: Manufactured from UV stabilized plastic with 180lbs pull out resistance and hot stamped for maximum visibility. Top hole shall be designed to pass a 16 gauge or smaller solenoid pigtail or attach with a nylon tie.

2.17 AUTOMATIC CONTROLLER UNIT

- A. Existing.

2.18 ELECTRIC CONTROL VALVE WIRE

- A. Low Voltage:
 - 1. AWG UF UL approved No. 14 direct burial copper wire for all control wires and No. 14 direct burial copper wire for all common wires.
 - 2. Wire Colors:
 - (a) Control Wires- As specified on drawings
 - (b) Common Wires- As specified on drawings.
 - (c) Master Valve Wires- Blue.
 - (d) Spare Wires- Green (labeled at termination)
 - 3. Wire Splice Connectors: 3M DBY Direct Bury Splice Kits.
- B. High Voltage:
 - 1. Type required by local codes and ordinances, of proper size to accommodate needs of equipment serviced.

2.19 PIPE JOINT RESTRAINTS

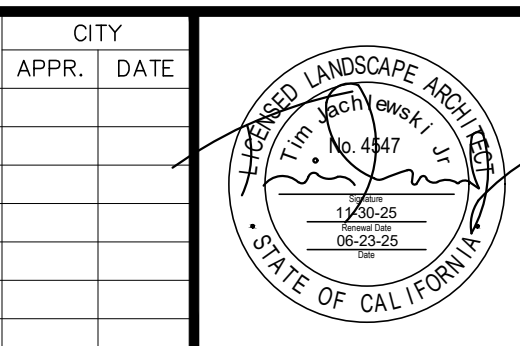
- A. All pressure line fittings 4 inch and larger shall be iron ductile deep bell type constructed of grade 65-45-12 and shall be in accordance with ASTM A536. Rubber for gaskets in fittings shall be in accordance with ASTM-477. All iron ductile fittings shall have stainless steel exterior lugs to secure a joint restraint system.

2.20 SAND BEDDING

Sand bedding shall be construction grade.



ENGINEER			REVISIONS			CITY	
MARK	BY	DATE				APPR.	DATE

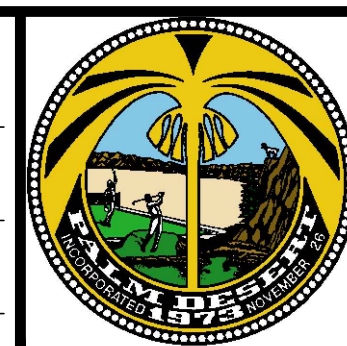


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.insitearch.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 [Signature]
 DATE: 06-23-25
 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:

CIVIL
TRAFFIC
LANDSCAPE



CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
IRRIGATION SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8BM)

SHEET	25
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX

PART 3 - EXECUTION

3.01 PREPARATION

- A. Examine field conditions prior to beginning work described in this section. Grading operations shall be completed and approved prior to beginning work.
- B. Verify all sleeve locations below future hardscape and/or across concrete v-ditches prior to beginning work in this section. Flag all existing sleeves and conduits installed by other trades. Report any conflicts and discrepancies to the landscape architect immediately.
- C. Irrigation system shall be constructed to the sizes and grades at the locations shown on the drawings. Mark with powdered lime or marking paint routing of pressure supply line and stake the location of each head, rotor, electric control valve and other related equipment for the first three zones. Landscape architect shall review staking and direct any necessary changes with the contractor prior to proceeding to other zones. This review does not in any way alleviate the contractor from the responsibilities associated with proper uniformity and distribution of head placement after staking.
- D. Install sleeves, to accommodate pipes and wires, under paving, hardscape areas, sidewalks, and paths prior to asphalt and concrete operations. Compact backfill around sleeves to 95% Modified Proctor Density within 2% of optimum moisture content in accordance with ASTM D1557.

3.02 EXCAVATION AND BACKFILLING OF TRENCHES

- A. Trench excavation shall as much as possible follow the layout shown on the drawings. Trenches shall be straight in alignment and support pipe continuously on bottom of trench. Remove rocks and debris greater than 1" in diameter. Over excavate as required for bedding material.
- B. Depth of Trench (in landscape areas):
 - 1. Pressure Supply Line: 24" from top of pipe to finish grade.
 - 2. Non-Pressure Line: 12" from top of pipe to finish grade.
 - 3. Control Wiring: directly at side and bottom of pressure supply line.
 - 4. Pressure Supply Line Locator Tape: 6" above top of pipe.
- C. Depth of Trench (under asphalt, paving, or concrete):
 - 1. Pressure Supply Line: 36" from top of pipe to finish grade.
 - 2. Non-Pressure Line: 24" from top of pipe to finish grade.
 - 3. Control Wiring: directly at side and bottom of pressure supply line.
 - 4. Pressure Supply Line Locator Tape: 6" above top of pipe.
 - (a) Piping located under asphalt paving or concrete shall be installed with the appropriate sized sleeve and backfilled with sand bedding (6" below pipe and 6" above pipe).
 - (b) Compact backfill material in 6" lifts at 90% maximum density determined in accordance with ASTM D1557 using manual or mechanical tamping device.
 - (c) Set in place, cap, and pressure test piping in the presence of the owner or owner's representative prior to backfilling.
- D. Width of Trench:
 - 1. Pipe Greater than 3": 14" minimum.
 - 2. Pipe Less than 3": 7" minimum.
- E. Width between Trenches:
 - 1. Irrigation Trench to Irrigation Trench: 6" minimum.
 - 2. Irrigation Trench and other Trade Trenches: 12" minimum.
- F. Boring: Boring will only be permitted where pipe must pass under an obstruction that cannot be avoided or removed. Backfill shall match surrounding soil density and grain. Boring under existing paving, sidewalks, or hardscape may be permitted at contractor's own risk. Contractor is responsible for any repairs or damage to such items at their own expense.
- G. Backfilling: Backfilling of trenches may not be done until all required testing for the irrigation system has been completed.
 - 1. Material: Excavated material is generally considered to be adequate for backfilling operations. Before beginning the backfilling operation, insure that backfill material is free from debris and rocks greater than 1" in diameter. These materials after separated from backfill, shall be legally disposed of at contractor's expense.
 - 2. Bedding: Bed pressure supply line with construction grade sand 6" above and 6" below pipe as shown on details. Remaining backfill may be as described above.
 - 3. Bed all electrical control wire trenched separate from pressure supply line, with construction grade sand 6" above and 6" below wires.
 - 4. When backfilling, slightly mound filled trenches for settlement after backfilling is compacted. Compact backfill to a 90% maximum density in accordance with ASTM D1557 with a mechanical tamper. Do not leave trenches open for a period greater than 48 hours. Open trenches shall be protected in accordance with current OSHA regulations.
 - 5. Smooth trenches to finish grade prior to requesting a walk through for substantial completion with the landscape architect.

3.03 POINT OF CONNECTION(S)

- A. Existing.

3.04 INSTALLATION OF SOLVENT WELD POLYVINYL CHLORIDE PIPE (PVC)

- A. Polyvinyl chloride pipe shall be cut with an approved PVC pipe cutter designed only for that purpose.
- B. All plastic-to-plastic solvent weld joints shall use only the solvent recommended by the pipe manufacturer. Do not install solvent weld pipe when temperature is below 40° F.
- C. Pipe ends and fittings shall be wiped with MEK, or approved equal, before welding solvent is applied. Welded joints shall be given a minimum of 15 minutes to set before moving or handling.

- D. Pipe shall be snaked from side-to-side on trench bottom to allow for expansion and contractions.
- E. All changes of direction over 15 degrees shall be made with appropriate fittings.
- F. When pipe laying is not in progress at the end of each working day, close pipe ends with tight plug or cap.
- G. Install pressure supply line locating tape along the entire length of pressure supply line.
- H. Coordinate pressure supply line with sand bedding operations.
- I. No water shall be permitted in the pipe until inspections have been completed and a period of at least 24 hours has elapsed for solvent weld setting and curing.
- J. Center load pipe with small amount of backfill to prevent arching and slipping under pressure. Leave joints exposed for inspection during testing.

3.05 CHECK VALVES

- A. Install swing check valves as specified on drawings.
- B. Install spring check valves as specified on drawings.

3.06 VALVE BOXES

- A. Install valve boxes with each type of irrigation equipment so that top of valve box is above finish grade as specified on the detail drawings. Valve box extensions are not acceptable.
- B. Place gravel sump below and around each valve box prior to installing valve box as specified on the drawings. Place remaining portion of gravel inside valve box allowing full access in and around all fittings. Valve box shall be fully supported by gravel sump. No wood supports are allowed.
- C. Brand valve box lid of associated equipment as follows:
 - 1. Electric control valve box lid with "Controller Letter and Station Number".
 - 2. Quick coupling valve box lid with the letters "QC".
 - 3. Isolation ball valve box lid with the letters "BV".
 - 4. Air relief valve box lid with the letters "AR".
 - 5. Spare Wire box lids with the letters "SW".
 - 6. Wire Splice box lid with the letters "WS".
 - (a) Letter and number size of brand shall be no less than 1" and no greater than 1 1/2" in height and shall be 1/8" maximum in depth. Provide sample branding to the owner or owner's representative prior to commencement of work.
- D. Walk through for substantial completion will not be allowed until all branding is complete.

3.07 ELECTRICAL WIRE

- A. Low Voltage Wiring:
 - 1. Bury control wiring in same trench as pressure supply line as specified.
 - 2. Bundle all 24 volt wires at 20' intervals with electrical tape.
 - 3. Provide expansion loops at every pressure supply line angle fitting, inside each electric remote control valve box, and at 250' length intervals along routing. Form expansion loop by wrapping wire a minimum of 10 times around a 3/4" pipe and withdrawing pipe as specified on the drawings.
 - 4. Limit splicing of electrical wiring. Provide each splice made at intervals or in electric control valve and drip valve assembly valve boxes with 3M DBY Direct Bury Splice Kits.
 - 5. Wire splices occurring at intervals outside electric control valve boxes shall be installed in a separate valve box.
 - 6. Provide (1) one electrical control wire for every electric control valve. Piggy backing like zones on the same electrical control wire is not allowed.
 - 7. Install (2) two spare #14-1 electrical control wires from the automatic controller unit pedestal to the last electric control valve on each leg of pressure supply line. Locate the spare wires in their own valve box. In addition to these spare wires, check the drawings for any additional wires that may be required and locate them in the same valve box as the spare wires.
- B. High Voltage Wiring:
 - 1. Install 120 volt power from power source to automatic controller unit following local governing codes and ordinances.

3.08 QUALITY CONTROL

- A. Preconstruction Meeting: The contractor is responsible for contacting the landscape architect prior to beginning construction and/or ordering materials to establish a meeting to review and discuss project objectives, concerns and to review the construction documents to insure a complete understanding of required installation procedures.
- B. General Observation: The landscape architect will visit the construction site at interim times during the construction process to access construction progress regarding installation of irrigation equipment to be in compliance with the drawings, details, specifications and site conditions. The landscape architect will prepare a site report after each visit noting progress of installation, verbal communication with the contractor and identifying any field adjustments necessary which require modifications to the designed irrigation system. A copy of this site report will be delivered to both the owner and the contractor. The contractor is responsible to immediately address each item on the site report before proceeding with further construction.
- C. Pressure Testing the Pressure Supply Line: After backfilling, flushing, and prior to the installation of each electric control valve, isolation ball valve and quick coupling valve the irrigation system shall be pressure tested.
 - 1. Pressure testing shall be performed in the presence of the landscape architect and owner or owner's representative utilizing the following procedure:
 - (a) Pressurize the irrigation system to 150 psi for a period of no less than 3 hours. The pressure gauge used for the pressure test shall not exceed readings greater than 300psi. Pressure pump and other equipment necessary for the test shall be furnished by the contractor.

- (b) Test is acceptable if no leakage occurs within the system for the duration of the testing period.
 - (c) If leaks occur, repair said leaks and begin pressure test again. Repeat this operation until no leaks occur in the irrigation system.
 - (d) Before requesting a walk through for substantial completion, the entire irrigation system shall remain under pressure for a period of no less than 48 hours.
2. The contractor is responsible for notifying the landscape architect three days in advance of the pressure test.

- D. Flushing: Center load all piping prior to flushing. After all new irrigation piping and risers are in place and connected and all necessary diversion work has been completed and prior to the installation of sprinkler heads, rotors and quick coupling valves, thoroughly flush piping system under full head of pressure. After the furthest riser from the point of connection begins to flush, continue flushing for a duration of five minutes. After the system is thoroughly flushed, cap all risers.

E. Walk Through For Substantial Completion:

- 1. Before requesting a walk through for substantial completion the following requirements must be entirely satisfied:
 - (a) The entire irrigation system is completely installed, flushed and satisfactorily pressure tested. If the contractor failed to notify the landscape architect for the pressure test and flushing procedures stated above than the contractor assumes full responsibility for any design modifications directed by the landscape architect during the walk through for substantial completion regarding pressure and flushing issues.
 - (b) All valve boxes have been branded.
 - (c) All automatic controllers are fully operable and communication has been certified in writing and checked at central control system by the central control system manufacturer on their letter head.
 - (d) Record as-built drawings have been submitted to the landscape architect for review as to completeness.
 - (e) (4) Four Services manuals have been delivered to the owner or owner's representative.
- 2. Once the above requirements have been met a walk through for substantial completion may be requested. The following procedures will be used during the walk through:
 - (a) Contractor must have (2) two personnel available with radio communication for the entire length of the walk through.
 - (b) All valve box lids shall be removed from valve boxes and placed face up adjacent to the valve box prior to beginning the walk through.
 - (c) The walk through will be divided into (2) two sections and proceed as follows:
 - (1) Visual Walk Through: This will consist of walking through the entire irrigation system and examining all components of the system without turning on zones. A punch list will be established of deficiencies in the construction and workmanship of the irrigation system as compared to the construction drawings, details, and specifications.
 - (2) Operational Walk Through: This will consist of walking through the entire irrigation system observing each zone in a fully operable condition. Valves must be activated from the automatic controller unit (Manual bleeding of individual electric control valves will not be acceptable). A punch list will be established of deficiencies in the operation of each zone in the irrigation system evaluating but not limited to head spacing, row spacing, nozzle sizing, correct radius of throw, correct stationing, as compared to the construction drawings, details, and specifications.
- 3. Once the Walk Through for Substantial Completion has been completed the landscape architect will provide a copy of all punch list items to the owner for review and distribution to the contractor. It is the contractor's responsibility to repair, replace, and adjust all items on the punch prior to requesting a final walk through.

F. Final Walk Through:

- 1. Before commencement of a final walk through is requested, the following requirements must be entirely satisfied:
 - (a) Each item on the walk through for substantial completion has been thoroughly addressed and resolved by the contractor.
 - (b) All final record as-built drawings and controller charts have been produced for review by the landscape architect and contractor at the final walk through.
- 2. Once the above requirements have been met a final walk through may be requested. The following procedures will be used:
 - (a) Contractor must have (2) two personnel available with radio communication for the entire length of the walk through.
 - (b) Only those valve box lids shall be removed from valve boxes as indicated on the walk through for substantial completion punch list. The valve box lids shall be placed faced up adjacent to the valve box prior to beginning the final walk through.
 - (c) The final walk through will be divided into (2) two sections and proceed as follows:
 - (1) Visual Walk Through: This will consist of walking through the punch list items created at the time of the walk through for substantial completion, examining all components of the system without turning on zones. Any remaining deficiencies in the construction and workmanship of the irrigation system as compared to the punch list generated at the time of the walk through for substantial completion, construction

drawings, details and specifications will be noted.

- (2) Operational Walk Through: This will consist of walking through the punch list items created at the time of the walk through for substantial completion and observing each zone in a fully operable condition. Valves must be activated from the automatic controller unit (Manual bleeding of individual electric control valves will not be acceptable). Any remaining deficiencies in the operation of each zone in the irrigation system including but not limited to head spacing, row spacing, nozzle sizing, correct radius of throw, correct stationing as compared to the punch list generated at the time of the walk through for substantial completion construction drawings, details, and specifications.

- 3. Once the Final Walk Through is completed and all items created on the final punch list have been addressed the maintenance period may begin. Any additional walk throughs required due to contractors' inability to address all issues on the punch lists described above will be provided at the contractor's expense.

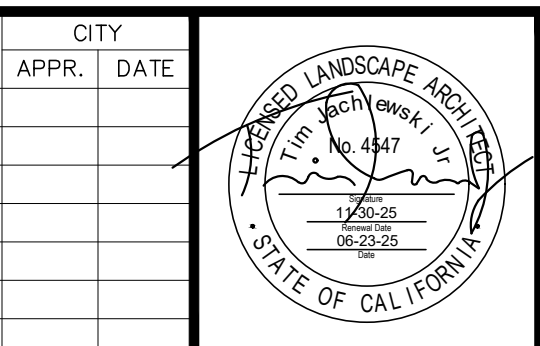
3.08 MAINTENANCE PERIOD

- A. The Maintenance Period shall be for ninety (90) days after notification from the landscape architect of a successful final walk through and will begin once all items on the final walk through punch list have been satisfactorily addressed by a written statement indicating such from the landscape architect to the owner.
 - 1. The contractor is responsible for obtaining and following any maintenance manuals created specifically for the project from the owner at the beginning of the maintenance period.
 - 2. At the end of the maintenance period and prior to turning the project over to the owner, the contractor shall deliver the following to the owner:
 - (a) Five (5) pop-up spray heads with nozzles of each type used, for every 100 pop-up spray heads installed on the project.
 - (b) Five (5) rotor heads with nozzles of each type used, for every 100 rotors installed on the project.
 - 3. Once the contractor has fulfilled all maintenance agreement obligations and has provided the above items to the owner, the maintenance period will end see section 320533 Landscape Maintenance, for maintenance responsibilities.
- B. Refer to the Maintenance Specifications for weather-based or soil moisture-based controller settings during the maintenance period.

END OF SECTION 328400



ENGINEER			REVISIONS			CITY	
MARK	BY	DATE				APPR.	DATE

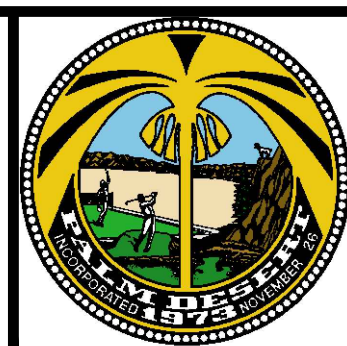


IN-SITE LANDSCAPE ARCHITECTURE, INC.
 2907 Shelter Island Drive #105-417
 San Diego, CA 92106 619-795-7603
 www.in-sitedesign.com
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 TIMOTHY JADLEWSKY, R. LLA #4547 DATE: 06-23-25 EXP. 11-30-25

CITY OF PALM DESERT
 APPROVED BY: MICHAEL S. ROWE, PE DATE: _____
 CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: _____ DATE: _____

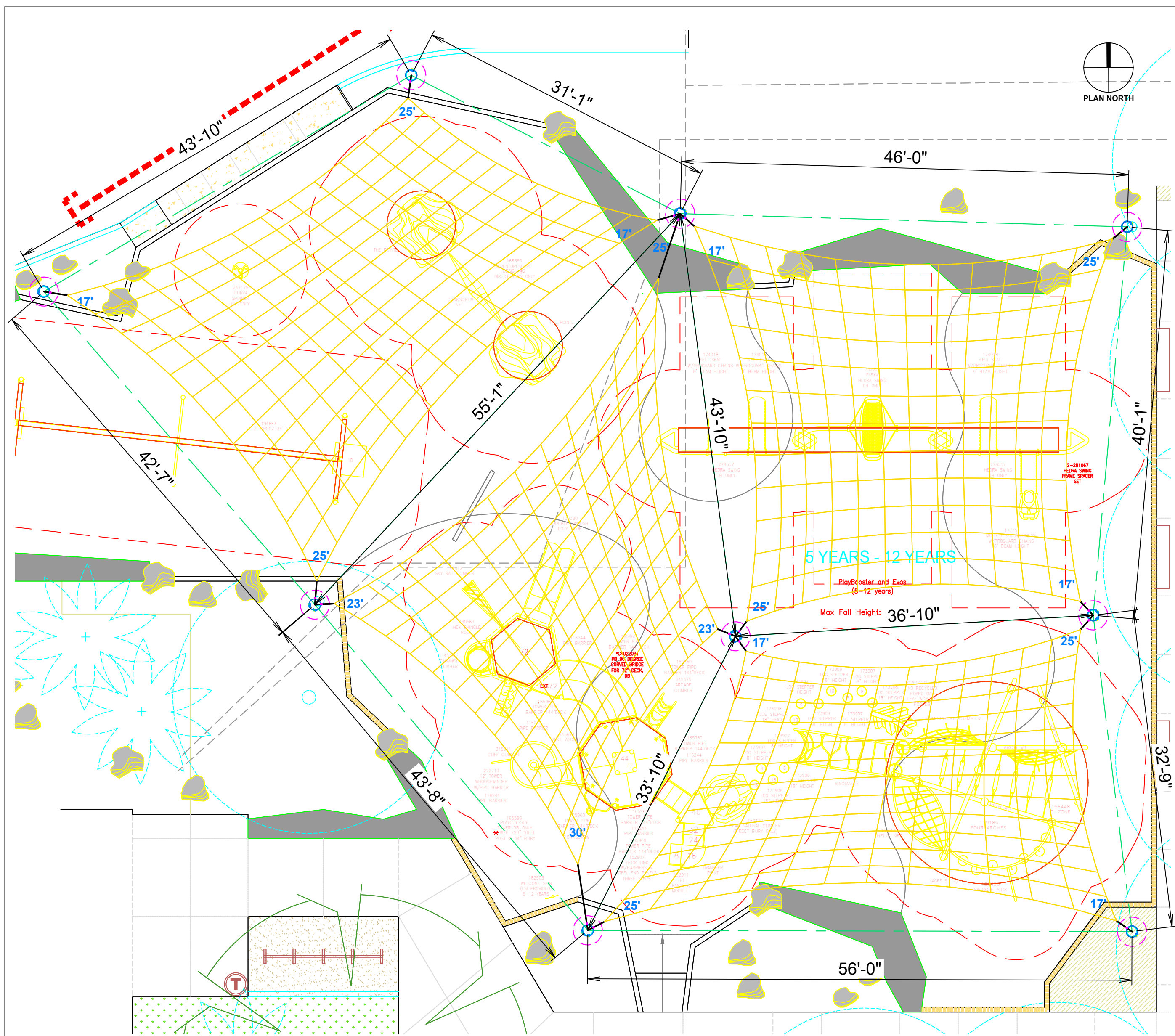
PLAN CHECKED BY:

CIVIL	
TRAFFIC	
LANDSCAPE	

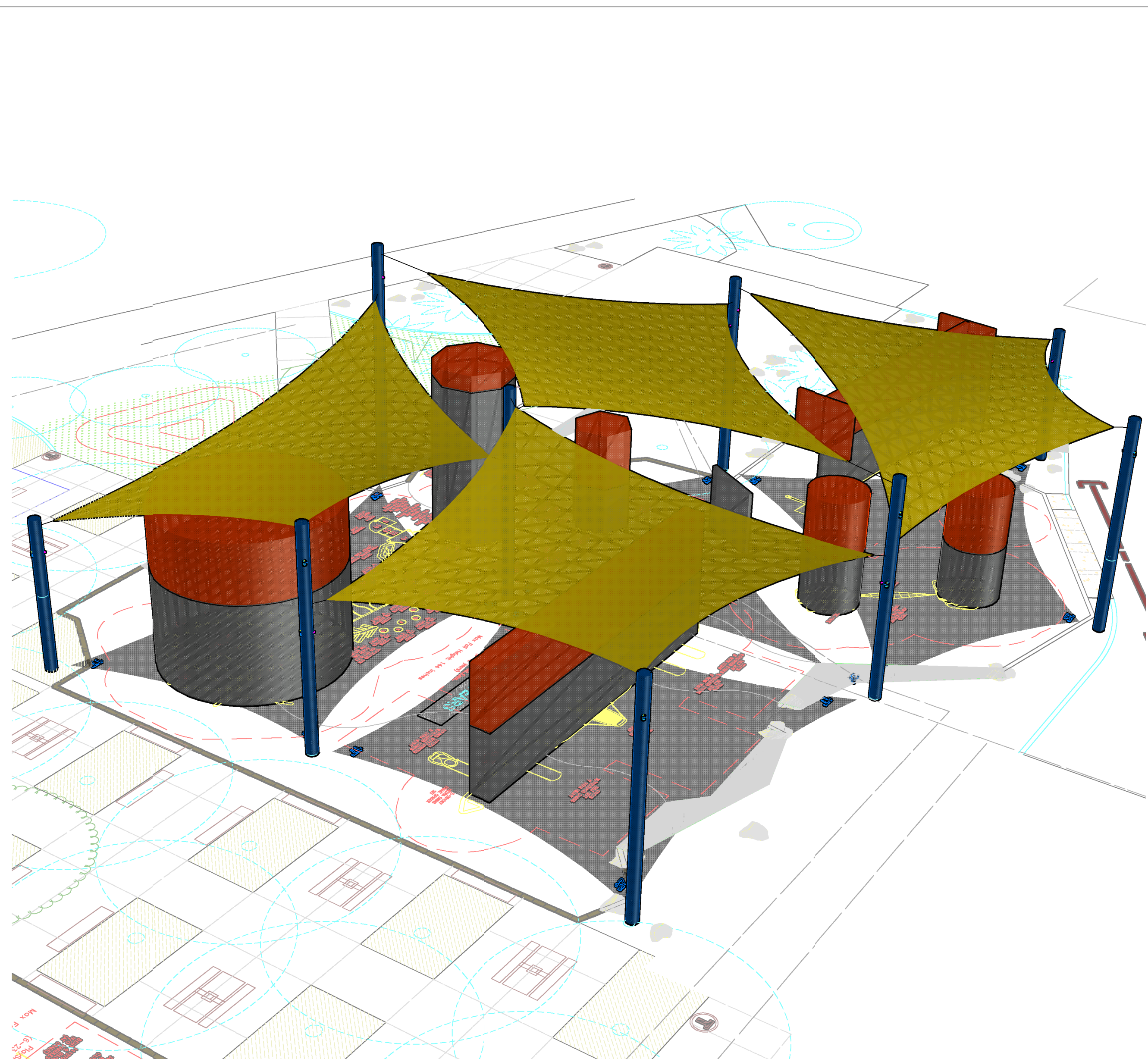


CITY OF PALM DESERT
LANDSCAPE ARCHITECTURAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
IRRIGATION SPECIFICATIONS
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S98M)

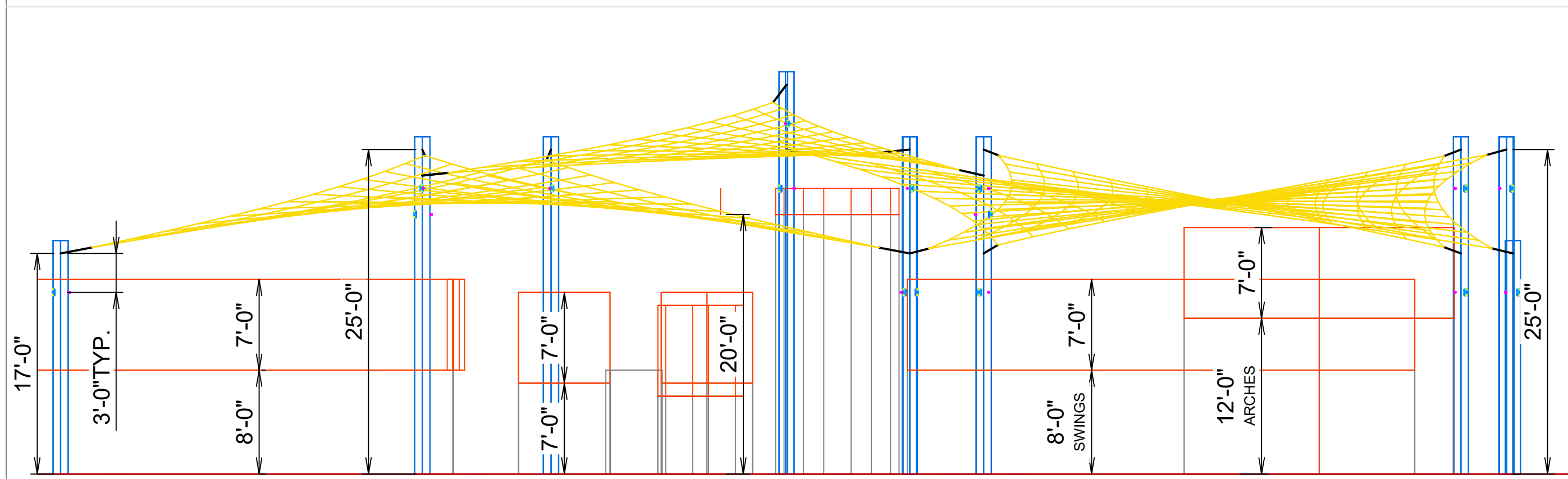
SHEET	26
OF SHEETS	26
CITY FILE NUMBER	PG XX-XXXX



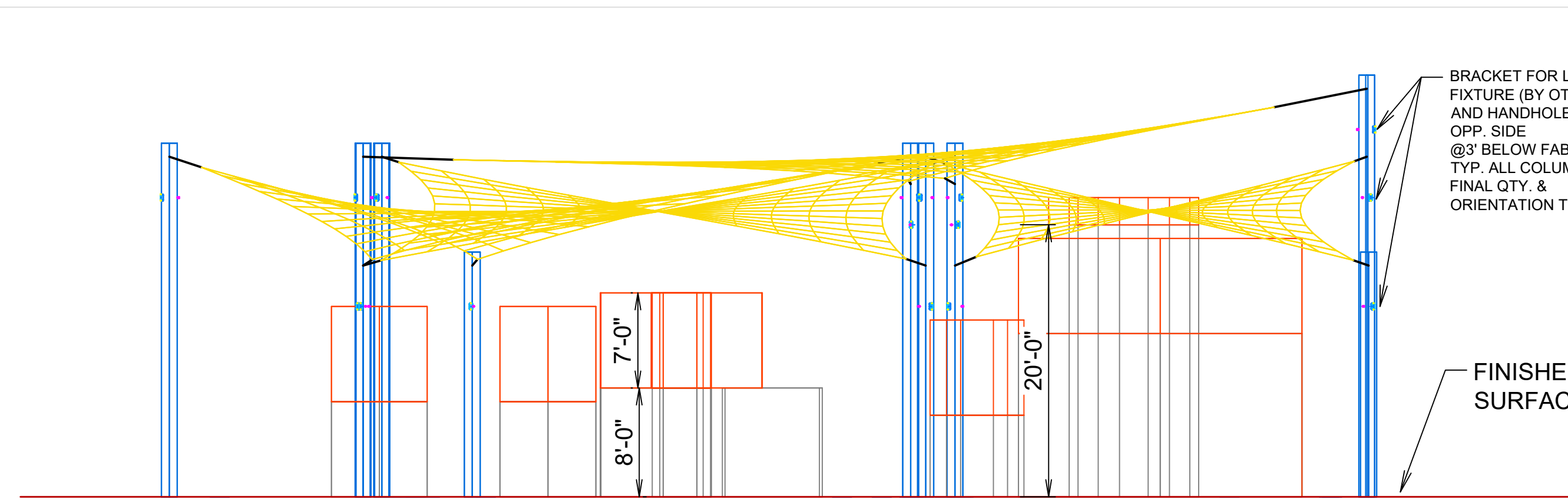
PLAN VIEW



PERSPECTIVE VIEW



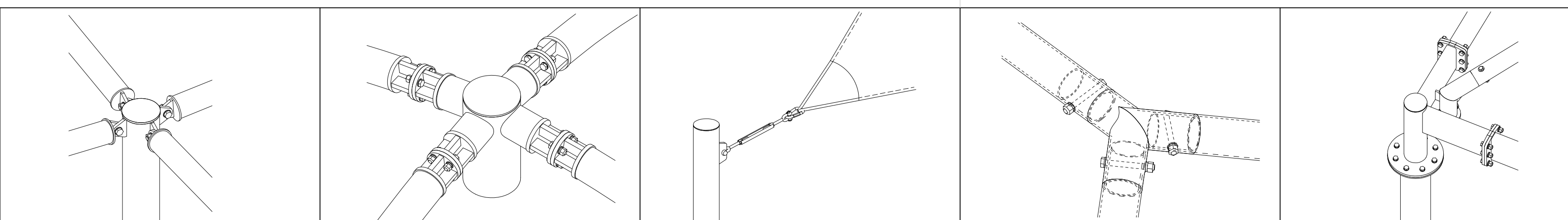
SOUTH ELEVATION



WEST ELEVATION

As manufactured and installed by:
USA SHADE & Fabric Structures.

Contact :
Will King
(714) 241-5567, (800) 966-5005
will.king@usa-shade.com



Notes:

- All structures will have bolted connections for shipping and installations purposes.
- Standard details being shown as an example. Final details t.b.d. during final Engineering phase.
- All dimensions and heights must be field verified prior to any final design, fabrication or installation work.

CUSTOMER:
IN-SITE LANDSCAPE ARCHITECTURE

PROJECT NAME:
CIVIC CENTER PARK

LOCATION:
PALM DESERT, CA

STRUCTURE TYPE:
JOINED 4PT SAILS

SIZE:
VARIES

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures

CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA)-355

REV	DESCRIPTION	DATE	DRW	CHK	ENG
C	REVISED PLAY EQUIPMENT LOCATION	07/17/25	AZR		
B	REV. COLUMN LOCATIONS/ADDED ELECTRICAL NOTES	06/09/25	AZR		
A	REVISED ELEVATIONS	05/19/25	AZR		

Drawn By : AZR 07/17/25
Checked By : AZR 07/17/25
Approved By : AZR 07/17/25

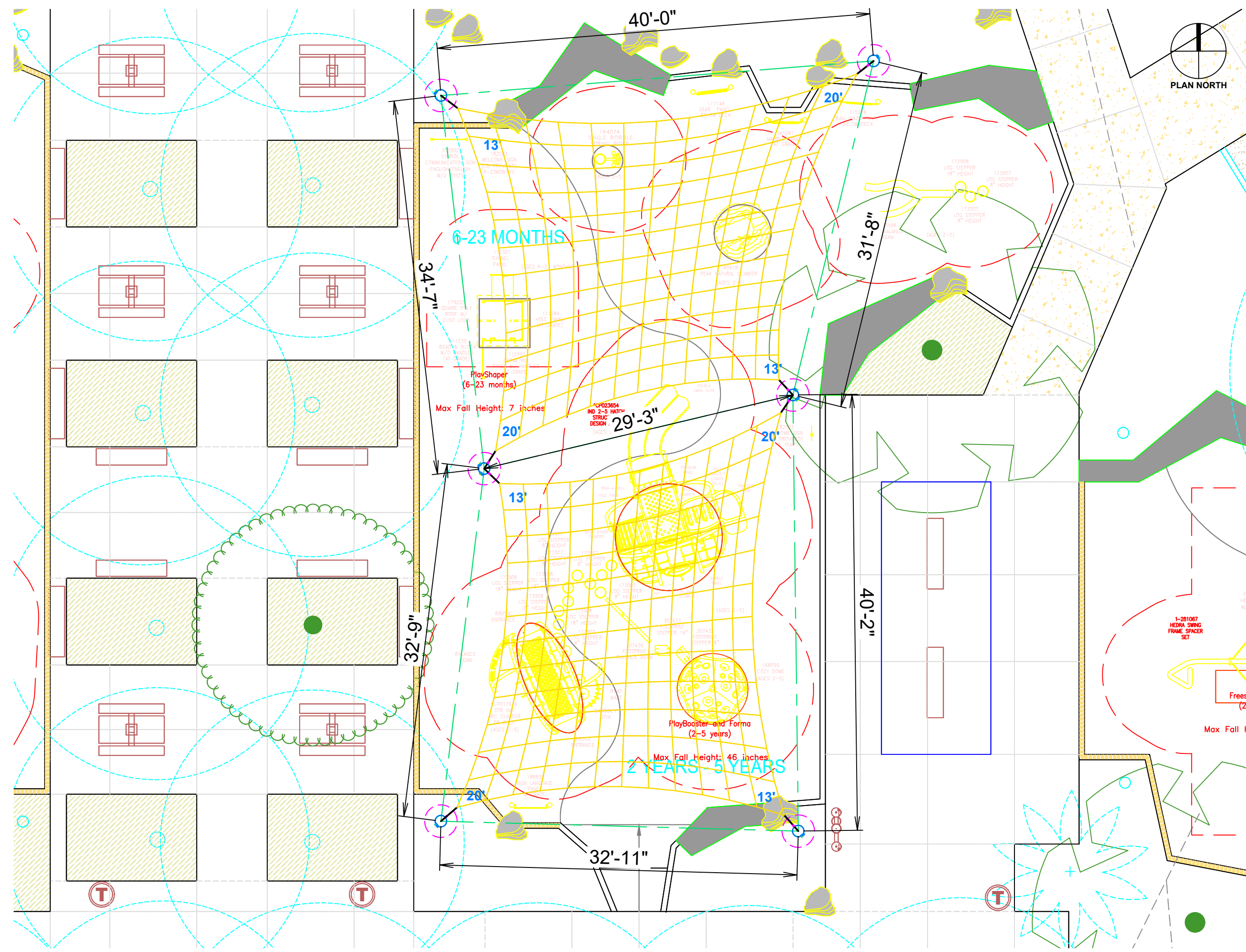
DRAWING DESCRIPTION:

5-12 YRS. AREA

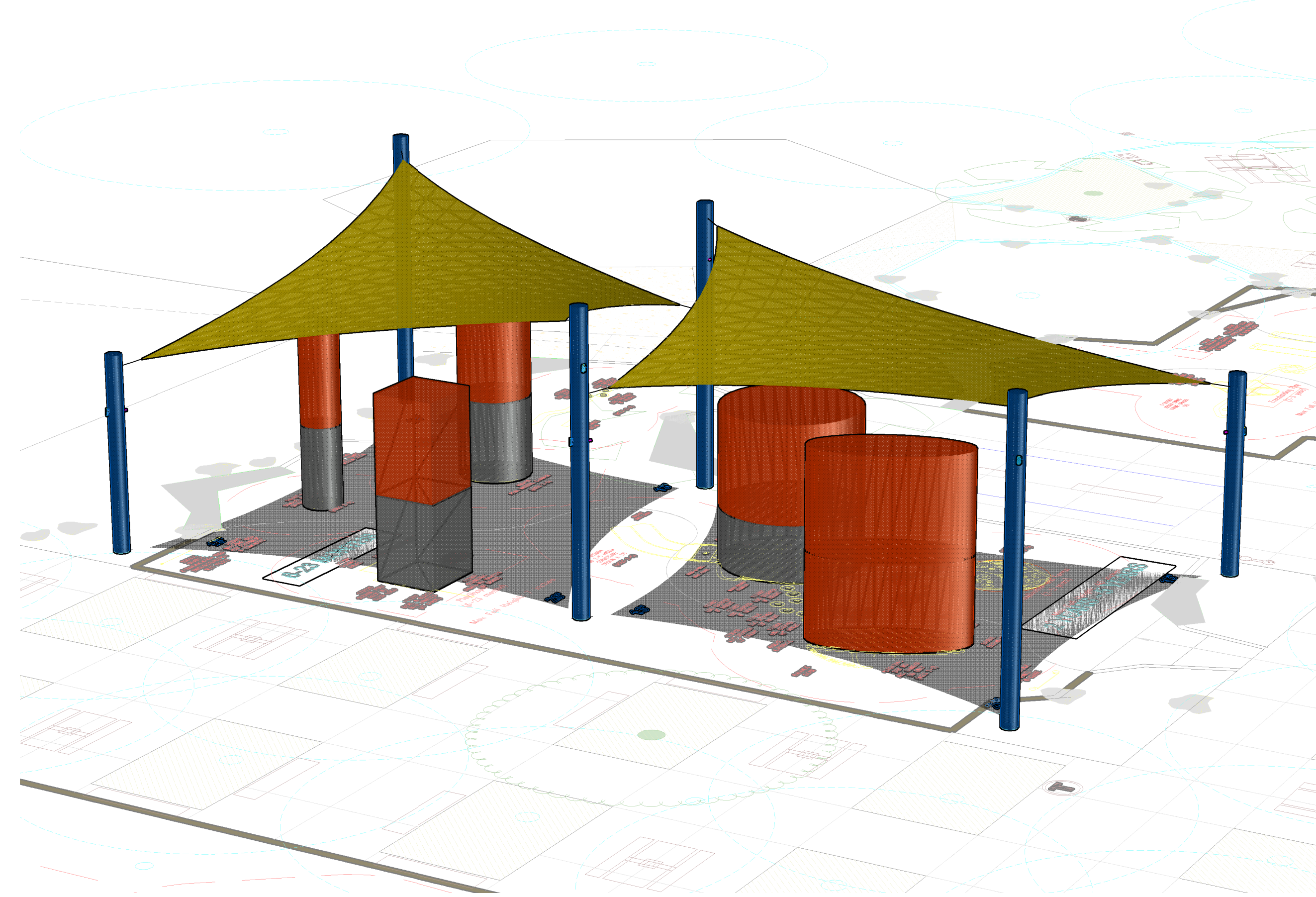
DWG. **CA0425WK21790**

PAGE **1001**

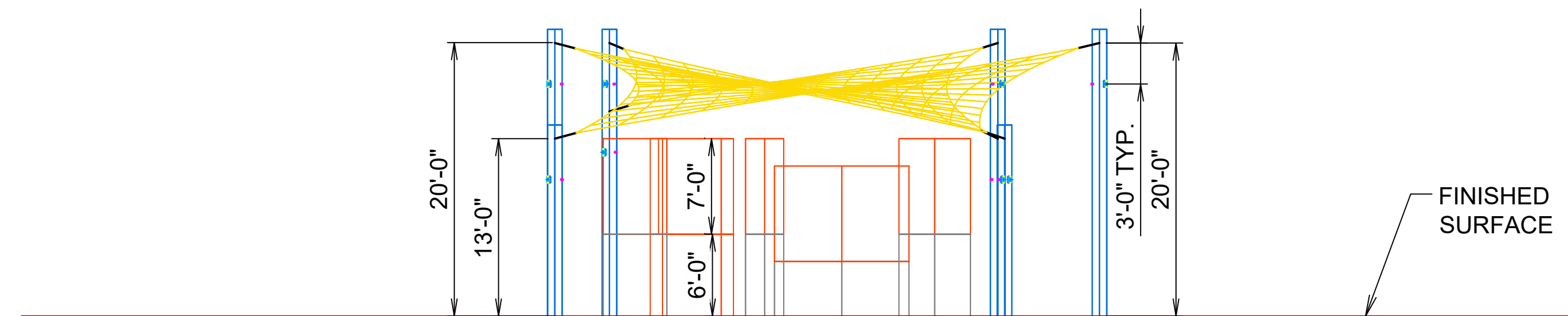
REV. **C**



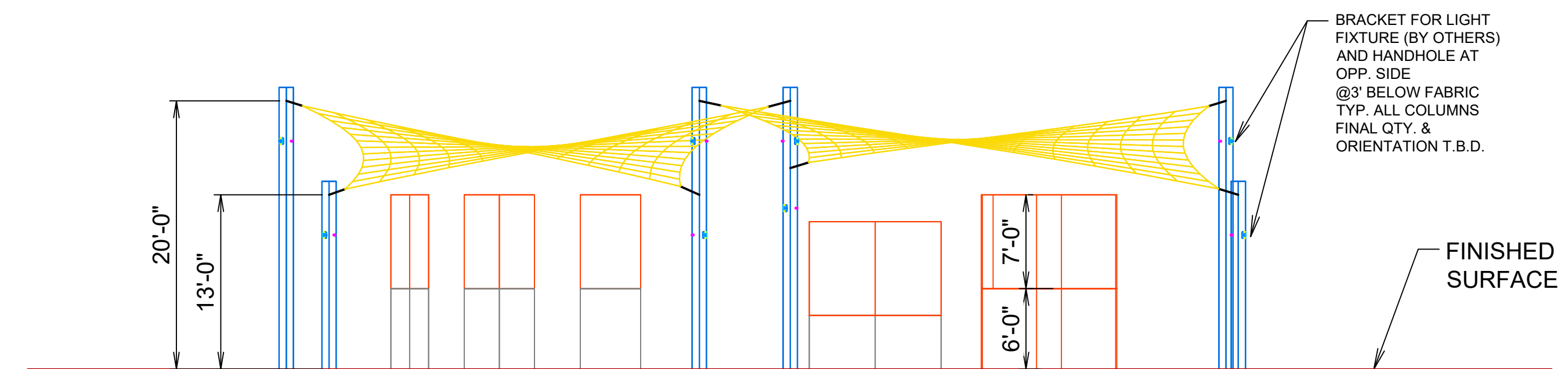
PLAN VIEW



PERSPECTIVE VIEW



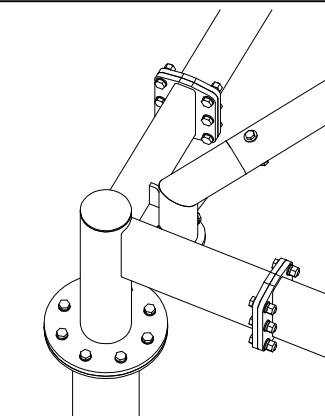
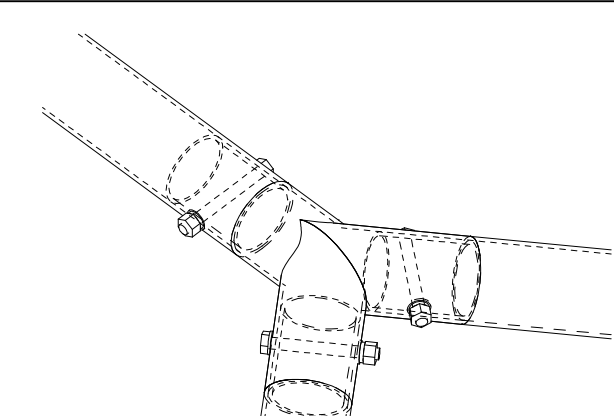
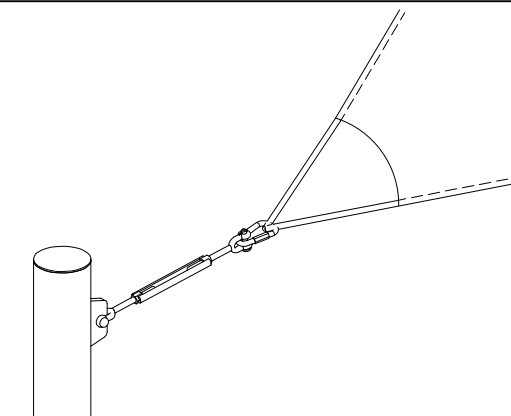
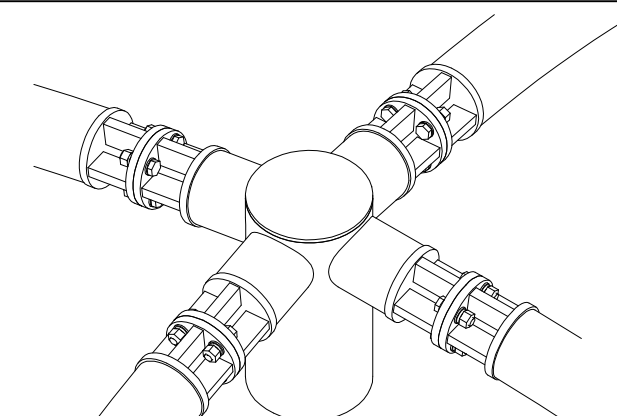
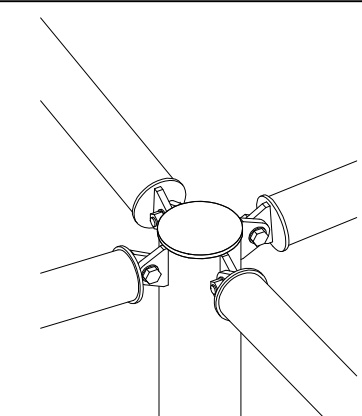
SOUTH ELEVATION



WEST ELEVATION

As manufactured and installed by:
USA SHADE & Fabric Structures.

Contact :
Will King
(714) 241-5567, (800) 966-5005
will.king@usa-shade.com



Notes:

- All structures will have bolted connections for shipping and installations purposes.
- Standard details being shown as an example. Final details t.b.d. during final Engineering phase.
- All dimensions and heights must be field verified prior to any final design, fabrication or installation work.

CUSTOMER:
IN-SITE LANDSCAPE ARCHITECTURE
PROJECT NAME:
CIVIC CENTER PARK

LOCATION:
PALM DESERT, CA

STRUCTURE TYPE:
JOINED 4PT SAILS

SIZE:
VARIES

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



USASHADE
& Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA)-355

REV	DESCRIPTION	DATE	DRW	CHK	ENG
C	REVISED PLAY EQUIPMENT LOCATION	07/17/25	AZR	AZR	--
B	REV. COLUMN LOCATIONS/ADDED ELECTRICAL NOTES	06/09/25	AZR	AZR	--
A	REVISED ELEVATIONS	05/19/25	AZR	AZR	--

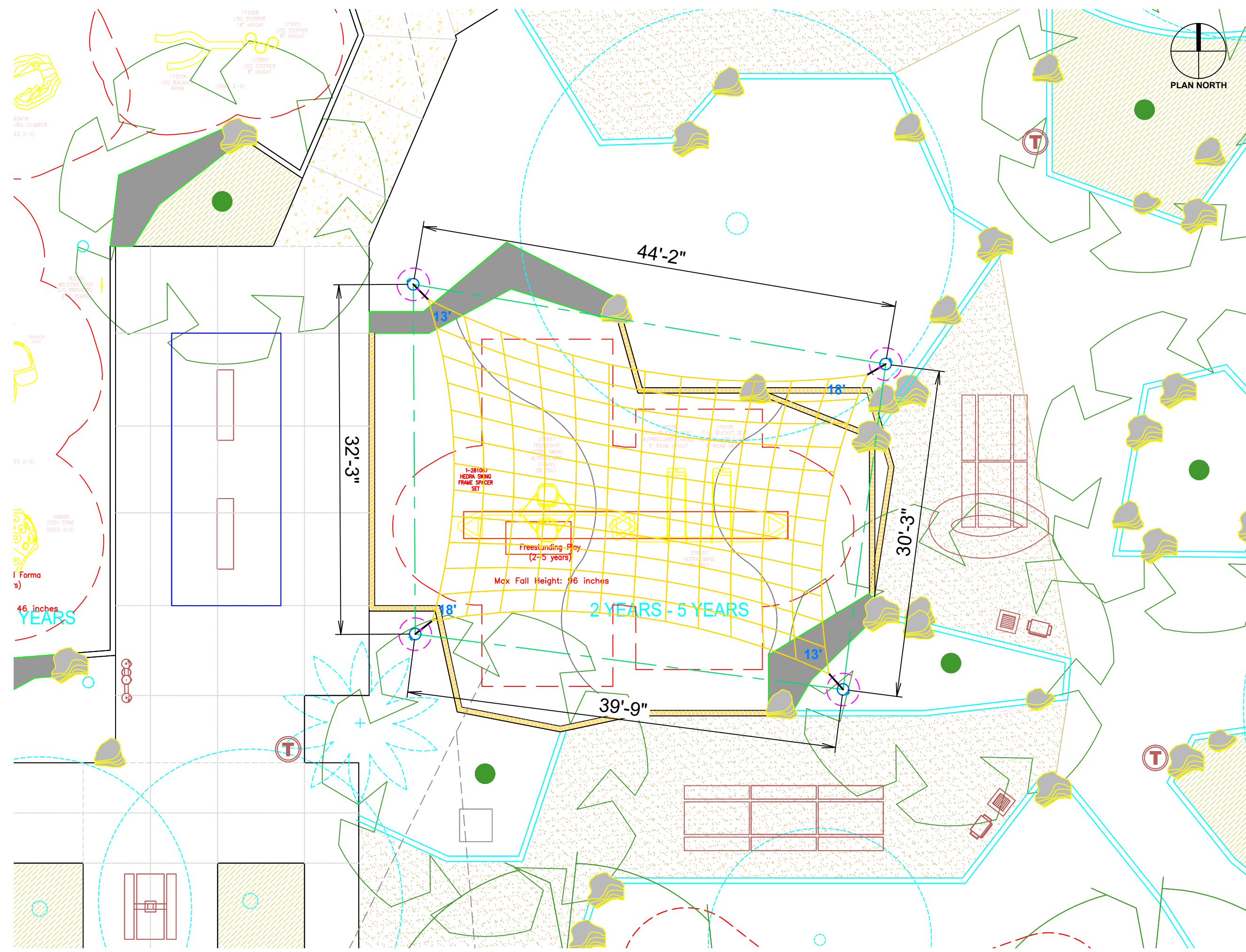
Drawn By : AZR 07/17/25
Checked By : AZR 07/17/25
Approved By : AZR 07/17/25

DRAWING DESCRIPTION:
2-5 YRS. AREA

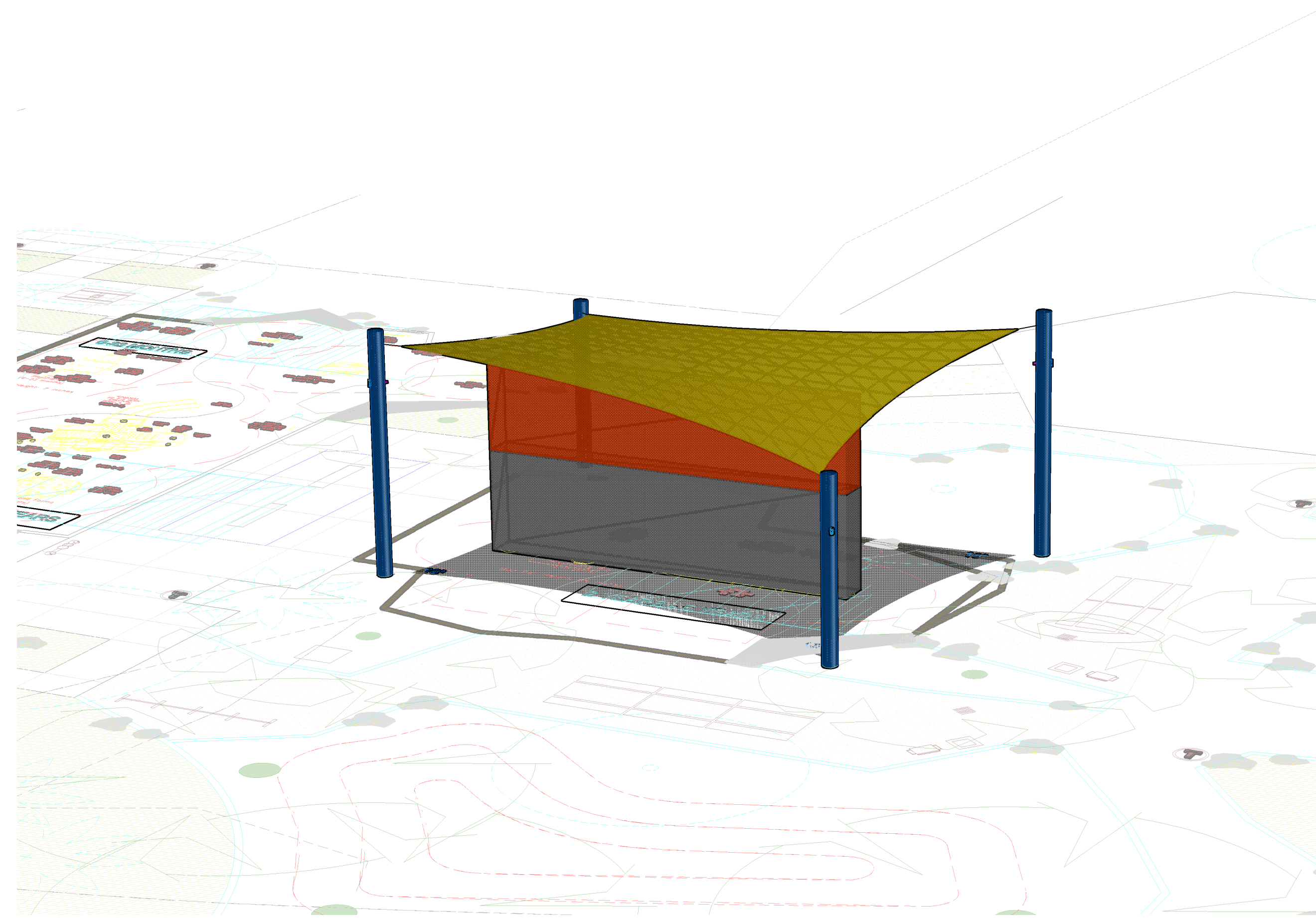
DWG. **CA0425WK21790**

PAGE **1002**

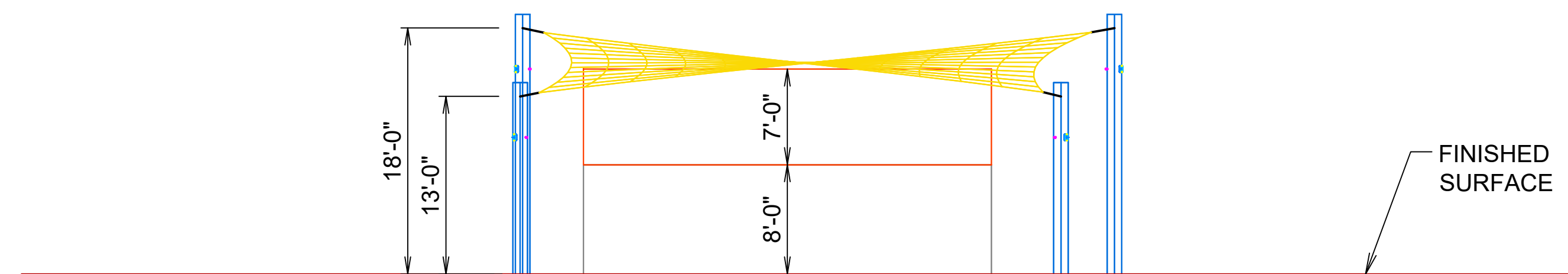
REV. **C**



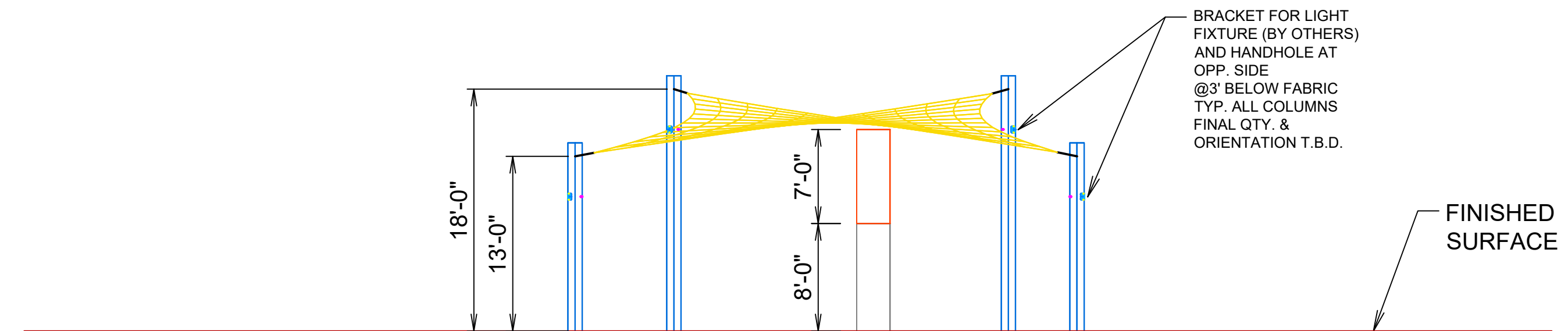
PLAN VIEW



PERSPECTIVE VIEW



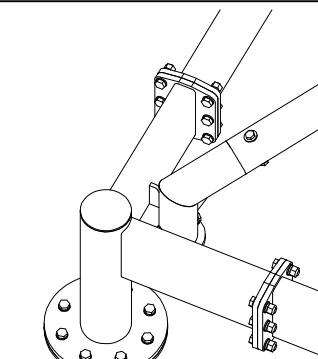
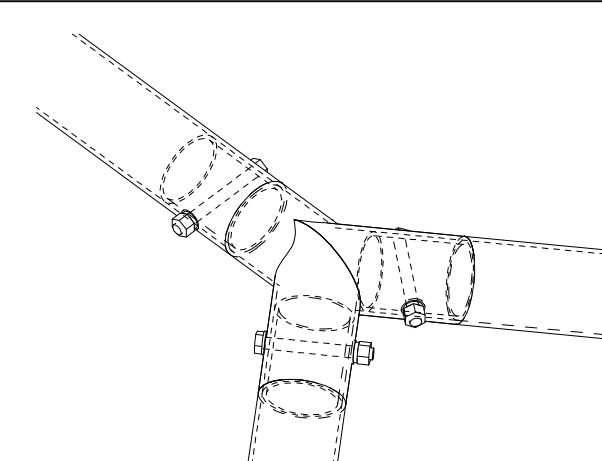
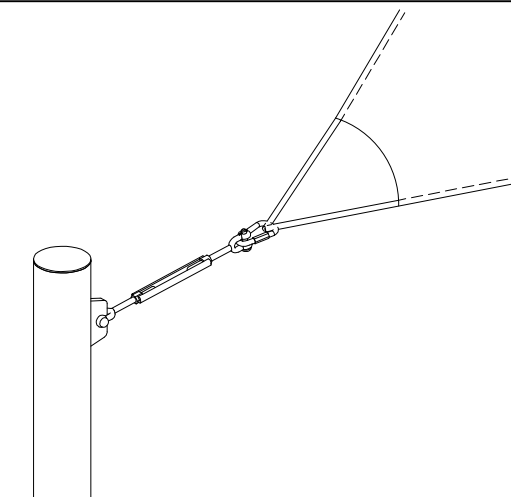
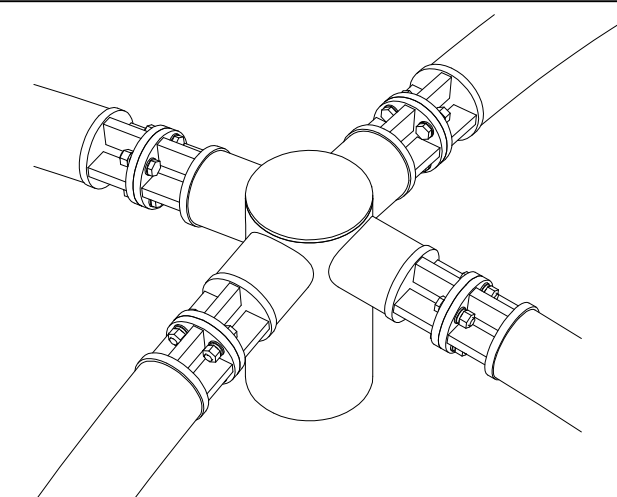
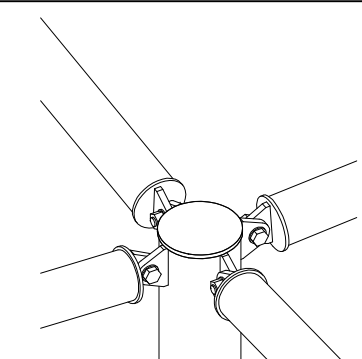
SOUTH ELEVATION



WEST ELEVATION

As manufactured and installed by:
USA SHADE & Fabric Structures.

Contact :
Will King
(714) 241-5567, (800) 966-5005
will.king@usa-shade.com



Notes:

- All structures will have bolted connections for shipping and installations purposes.
- Standard details being shown as an example. Final details t.b.d. during final Engineering phase.
- All dimensions and heights must be field verified prior to any final design, fabrication or installation work.

CUSTOMER:
IN-SITE LANDSCAPE ARCHITECTURE
PROJECT NAME:
CIVIC CENTER PARK
LOCATION:
PALM DESERT, CA

STRUCTURE TYPE:
4PT SAIL

SIZE:
VARIES

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF
USA SHADE AND FABRIC STRUCTURES
AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA)-355

REV	DESCRIPTION	DATE	DRW	CHK	ENG
C	REVISED PLAY EQUIPMENT LOCATION	07/17/25	AZR	--	--
B	REV. COLUMN LOCATIONS/ADDED ELECTRICAL NOTES	06/09/25	AZR	AZR	--
A	REVISED ELEVATIONS	05/19/25	AZR	AZR	--

Drawn By : AZR 07/17/25
Checked By : AZR 07/17/25
Approved By : AZR 07/17/25

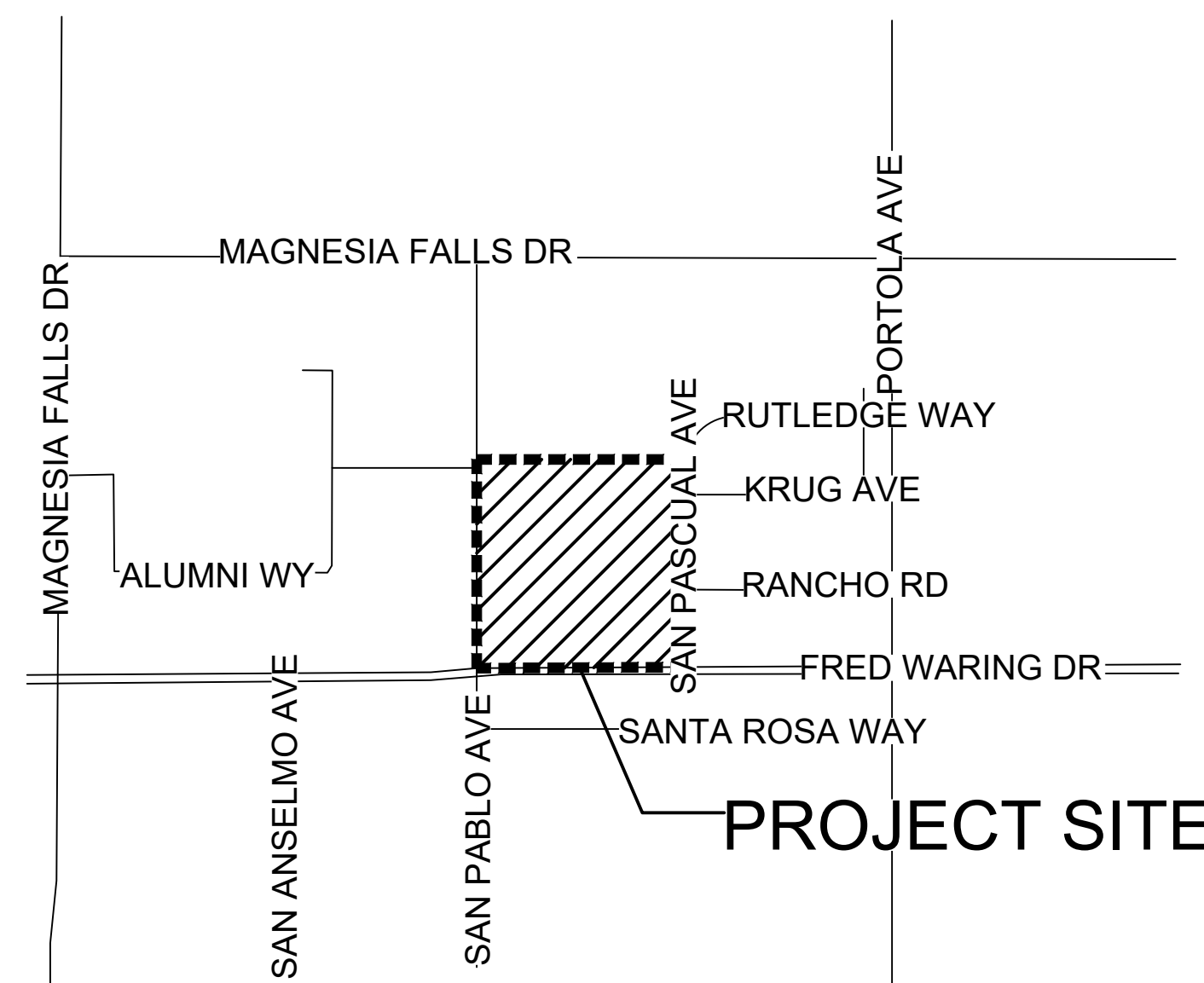
DRAWING DESCRIPTION:
SWINGS AREA
DWG. **CA0425WK21790**
PAGE **1003**
REV. **C**

ELECTRICAL CONSTRUCTION NOTES

- THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THE SPECIFICATION.
- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION.
 - ALL MATERIALS AND EQUIPMENT SHALL BE COMMERCIAL AND SHALL CARRY A U.L. LABEL.
 - MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UNDERWRITER'S LABORATORIES LIST OF APPROVED ITEMS AND SHALL MEET REQUIREMENTS OF ASTM, IEEE, 2022 NEC, NEMA, AND OTHER RECOGNIZED STANDARDS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.
- THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.
- THIS PROJECT SHALL COMPLY WITH THE 2022 CALIFORNIA BUILDING, MECHANICAL, PLUMBING, ELECTRICAL CODES, CALIFORNIA GREEN BUILDING STANDARDS CODE, AND ENERGY CODE (I.E., 2021 IBC, UMC, UPC, AND 2020 NEC, AS AMENDED BY THE STATE OF CALIFORNIA)
- SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- ABOVE GRADE CONDUIT SHALL BE STANDARD RIGID STEEL ACCORDING TO CODE REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY ARCHITECT. RIGID CONNECTIONS SHALL BE COMPRESSION TYPE. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 OR 80 PVC BURIED A MINIMUM OF 24".
- WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. ALUMINUM CONDUCTORS ARE NOT PERMITTED. #12 AND SMALLER SHALL BE SOLID. #10 AND LARGER SHALL BE STRANDED. MINIMUM WIRE SIZE SHALL BE #12. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. ALL WIRING OF ANY TYPE SHALL BE IN CONDUIT.
 - GENERAL WIRING SHALL BE THWN OR THHN.
- ABOVE GRADE WIRE CONNECTORS SHALL BE BY "SCOTCHLOCK" OR EQUAL FOR #8 OR SMALLER AND T&B "LOCK-TITE" FOR #6 AND LARGER.
- THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. ANY CUTTING SHALL HAVE PRIOR APPROVAL OF THE OWNER.
- PROVIDE SAFETY AND DISCONNECT SWITCHES, SHALL BE FUSED OR NON-FUSED AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC OR EQUAL.
- JUNCTION, PULL BOXES AND COVERS WITHIN BUILDING SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE AND ACCESSIBLE.
- ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES, AND UPON COMPLETION SHALL TURN OVER TO THE OWNER A "RECORD" SET OF PRINTS SHOWING THE CHANGES.
- ALL ELECTRIC WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. CONDUCTORS SHALL BE ON CONDUIT, DUCTS, OR APPROVED RACEWAYS.
- ALL 90 DEGREE ELBOWS TO BE FACTORY MADE BENDS.
- PRIVATE LIGHTING SYSTEM SHALL NOT BE JOINT TRENCH WITH PUBLIC UTILITY SYSTEM.
- CONTRACTOR TO MAINTAIN PROPER SEPARATION AS REQUIRED BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR ANY AND ALL UTILITY AND CITY INSPECTIONS.
- ALL GROUND CONDUCTORS SHALL BE SPLICED TOGETHER WITH APPROVED CONNECTOR AT PULL BOXES AND CONNECTED TO GROUND LUG INSIDE POLE.
- SEE IMPROVEMENT PLANS FOR SITE, SEWER AND WATER (ETC.) IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL CONTACT "DIG ALERT" FOR MARK-OUT PRIOR TO TRENCHING AS REQUIRED.
- THESE PLANS ARE SCHEMATIC AND ARE FOR THE PURPOSE OF SHOWING HOW TO CONNECT THE ELECTRICAL SYSTEM. WHILE THE DRAWING IS AT ACTUAL SCALE, THE SYMBOLS REFERENCED ARE NOT, AND MAY APPEAR TO SHOW THE EQUIPMENT IN PLACES NOT INTENDED. THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY COMPANY SERVICE POINTS/METER LOCATIONS, POLES, PULL BOXES BUILDING LIGHT LOCATIONS, SERVICE EQUIPMENT LOCATIONS AND OTHER ELECTRICAL APPURTENANCES PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE ADDRESSED TO THE CLIENT BY MEANS OF A "REQUEST FOR INFORMATION" (RFI). CONTRACTOR IS TO VERIFY ALL LIGHT LOCATIONS WITH THE CITY PRIOR TO START OF CONSTRUCTION AND DURING STAKING. REFER TO LIGHT STANDARD DETAIL FOR STANDARDS. CONTRACTOR SHALL CONTACT "DIG ALERT" FOR MARK-OUT PRIOR TO TRENCHING AS REQUIRED.
- PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, CEC.
- NATIVE SOIL SHALL BE ACCEPTABLE FOR TRENCH BACK FILL PROVIDED THAT THE FILL MATERIAL USED SHALL PASS THROUGH A 1" SIEVE (CITY STANDARDS). SEE DETAIL B/EL-4.
- CONTRACTOR SHALL LABEL EACH CIRCUIT WITH PHENOLIC PLASTIC LABEL TAGS IN ANY DEVICE THAT HAS ACCESS. THIS SHALL INCLUDE LIGHT POLES, PULL BOXES, PANELS, AND ETCETERA. PANEL, CIRCUIT NUMBER AND VOLTAGE SHALL BE IDENTIFIED. TAGS SHALL BE AFFIXED WITH NYLON ZIP-TIES.

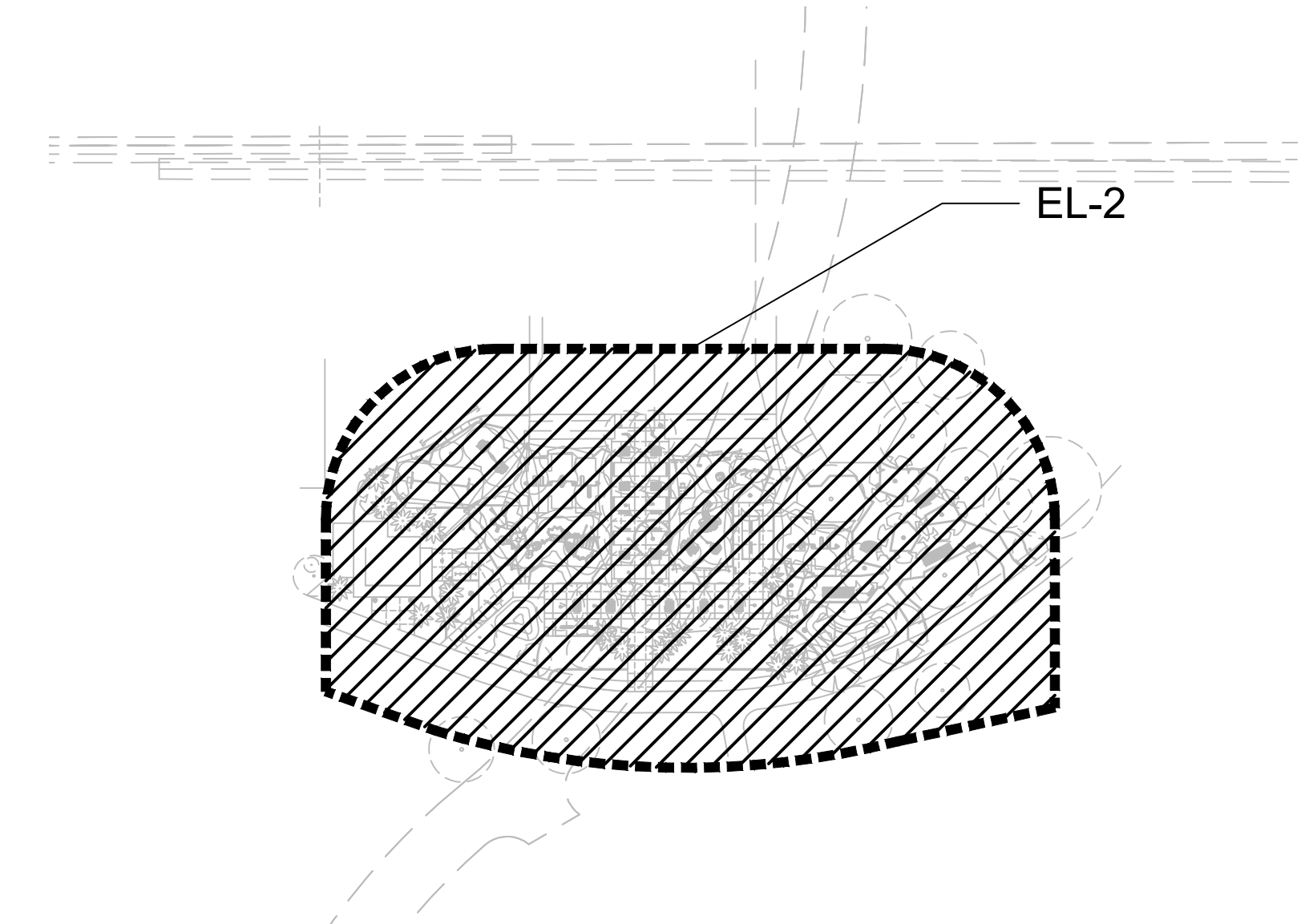
CIVIC CENTER PARK

PALM DESERT, CA



VICINITY MAP

N.T.S.



KEY MAP

N.T.S.



SPECIFICATIONS

- BELOW GRADE PULL BOXES TO BE "OLDCASTLE" MODEL FL12T (OR EQUAL) WITH BOLT DOWN COVER MARKED "ELECTRICAL". LEAVE 2' SLACK OF CONDUCTORS IN PULLBOX. SIZE PER SECTION 314-28, CEC. SEE DETAIL C/EL-4.
- ALL CONDUIT BELOW GRADE TO BE MINIMUM 3/4" SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
- ALL CONDUIT EXPOSED ABOVE GRADE TO BE MINIMUM 1/2" EMT.
- ALL SPLICES BELOW GRADE SHALL BE MADE IN APPROVED PULL BOXES AND SHALL BE WATERTIGHT. USE ONLY EPOXY ENCAPSULATED TYPE 3M BAGS OR EQUAL.
- ALL BELOW GRADE CONDUIT SHALL BE SEALED UPON COMPLETION OF INSTALLATION.
- ALL ELECTRICIANS TO HAVE PROOF OF CALIFORNIA ELECTRICIANS CERTIFICATE/CREDENTIALS.
- ALL ABOVE GRADE JUNCTION BOXES TO BE WEATHER-PROOF. SIZE PER SECTION 370-28, CEC.
- BELOW GRADE JUNCTION BOXES TO BE "OLD CASTLE" MODEL FL08 (OR EQUAL) WITH BOLT-DOWN LID MARKED "ELECTRICAL". SIZE PER SECTION 314-28, CEC. SEE DETAIL D/EL-4.

LEGEND

- BELOW GRADE ELECTRICAL CONDUIT AND WIRE RUN. SEE PLANS FOR TYPE AND NUMBER OF WIRES.
- A-1** CIRCUIT DESIGNATION. 1ST LETTER INDICATES PANEL. REMAINING NUMBER'S INDICATE CIRCUIT POSITIONS.
- EXISTING ELECTRICAL BUILDING PANEL.
- BELOW GRADE PULLBOX. SEE SPEC. 1 AND DETAIL C/EL-4.
- RELOCATED MISTER PUMP PANEL. SEE LANDSCAPE PLANS FOR EXACT LOCATION
- TYPE 'D1' DUAL UP/DOWN LIGHT. SEE LUMINAIRE SCHEDULE AND DETAIL D/EL-4.
- TYPE 'D2' DUAL DOWN LIGHT. SEE LUMINAIRE SCHEDULE AND DETAILS A/D/EL-4.
- TYPE 'T1' TREE UP LIGHT. SEE LUMINAIRE SCHEDULE AND DETAIL A/EL-4.

SCOPE OF WORK

ADD NEW LIGHTING TO THE SHADE SAILS AND PALM TREES, RELOCATED MISTER PUMP/PANEL, DEMO OLD ELECTRICAL, INTERCEPTS AND RELOCATE CIRCUITS AS NEEDED.
LIGHTS SHALL BE CONTROLLED BY A MASTER PHOTOCELL LOCATED IN THE ELECTRICAL METER PEDESTAL/ CLOSET.

NOTE TO CONTRACTOR

ANY CHANGE OR DEVIATION FROM THE LIGHTING SPECIFICATIONS ON PLAN SHALL NEED TO BE APPROVED BY THE ENGINEER OF RECORD. ALL ASSOCIATED COSTS INCURRED FOR HAVING TO RE-RUN PHOTOMETRIC LIGHTING STUDIES, REVISE ELECTRICAL PLANS AND CIRCUITRY, REVISE ELECTRICAL PANEL SCHEDULES, REVISE LUMINAIRE SCHEDULES, RE-CALCULATE TITLE-24 MANDATORY MEASURES, AND RESUBMIT TO THE BUILDING PLAN CHECK DEPARTMENT SHALL BE PAID BACK TO THE ENGINEER OF RECORD BY THE CONTRACTOR AND ELECTRICAL DISTRIBUTOR. NO REQUEST FOR SUBSTITUTIONS SHALL BE SUBMITTED WITHOUT FIRST HAVING BEEN REQUESTED BY THE PROJECT DEVELOPER. CONTRACTOR SHALL PROVIDE ENGINEER OF RECORD SUBMITTALS FOR APPROVAL FOR ALL LIGHTING PRODUCT SHOWN IN SCHEDULE BELOW PRIOR TO PROCUREMENT.

LUMINAIRE SCHEDULE -CIVIC CENTER PARK

SPECIFIED BY: VISUAL CONCEPTS LIGHTING INC. PH: 858-278-4503

TYPE	SYMBOL	QTY	FIXTURE											VOLTS		LAMPS		MOUNTING				DESCRIPTION	MFR & CATALOG NO.				
			LUMENS	CECP	KELVIN	FLOUR	INDUC	LED	LPS	MH	HPS	12	120	208	240	277	480	INC.	TYPE	WATTS	WELL			SURF	SPECIAL	WALL	POLE
D1		28	1522		3000														15							DUAL UP/DOWN SHADE STRUCTURE LIGHT SEE DETAIL D/EL-4	ECOSENSE LIGHTING F080-2H-MO-80-90-Z-H-C
D2		14	1522		3000													15							DUAL SHADE STRUCTURE/TREE DOWN LIGHT SEE DETAIL A,D/EL-4	ECOSENSE LIGHTING F080-2V-MO-80-90-Z-H-C (VERIFY COLOR ON SHADE STRUCTURE. TREE DOWNLIGHT TO BE BRONZE)	
T1		12	761		3000													7.5							TREE UP LIGHT SEE DETAIL A/EL-4	ECOSENSE LIGHTING F080-1S-MO-80-60-Z-A TREE RING: HK LIGHTING TS-SO-C-2-BZ	

FOR ABOVE SPECIFIED PRODUCT, CONTACT BRIAN RHEA WITH SAN DIEGO LIGHTING ASSOCIATES @ 760.410.4437 || BRIANR@SDLTG.COM

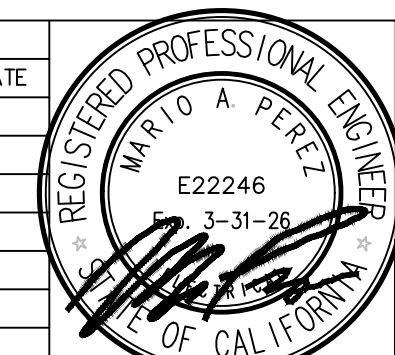
TITLE-24 APPLICATION CATEGORIES

- CIVIC CENTER PARK
43900 SAN PABLO AVE, PALM DESERT, CA 92260CA
SEE SHEET EL-5 FOR MANDATORY MEASURES.
- A** LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE-ALL DRIVEWAYS, PARKING STALLS AND PLANTING ISLANDS, SIDEWALKS, STAIRS = 9,054 S.F. OF ILLUMINATED HARDSCAPE. TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE = 515 WATTS. TOTAL INSTALLED WATTS = 210 PER NRCC-LTO-E PAGE 182 OF 7.



SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS			CITY	
MARK	BY	DATE				APPR.	DATE



PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT

APPROVED BY:
MICHAEL S. ROWE, PE CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE

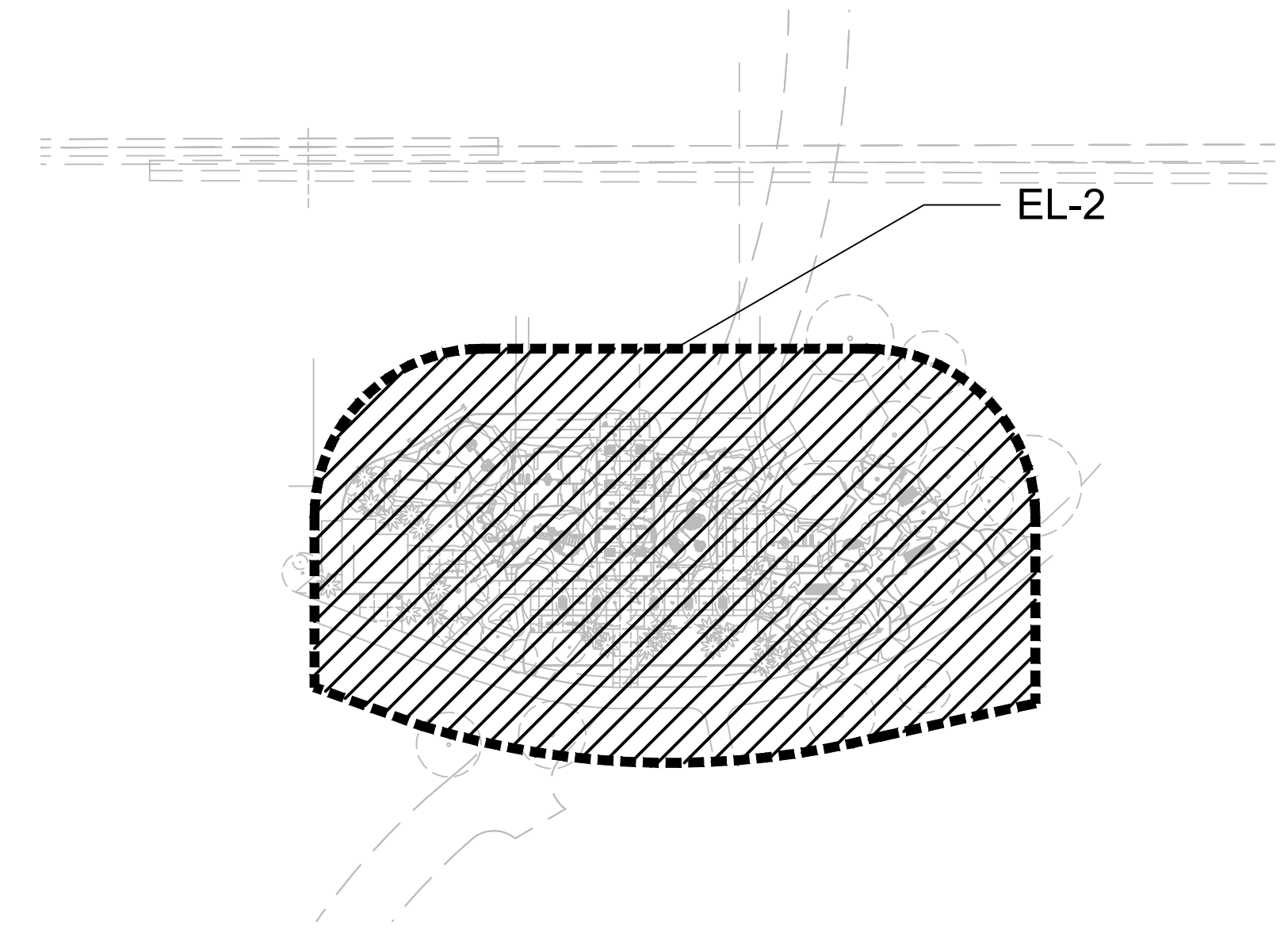
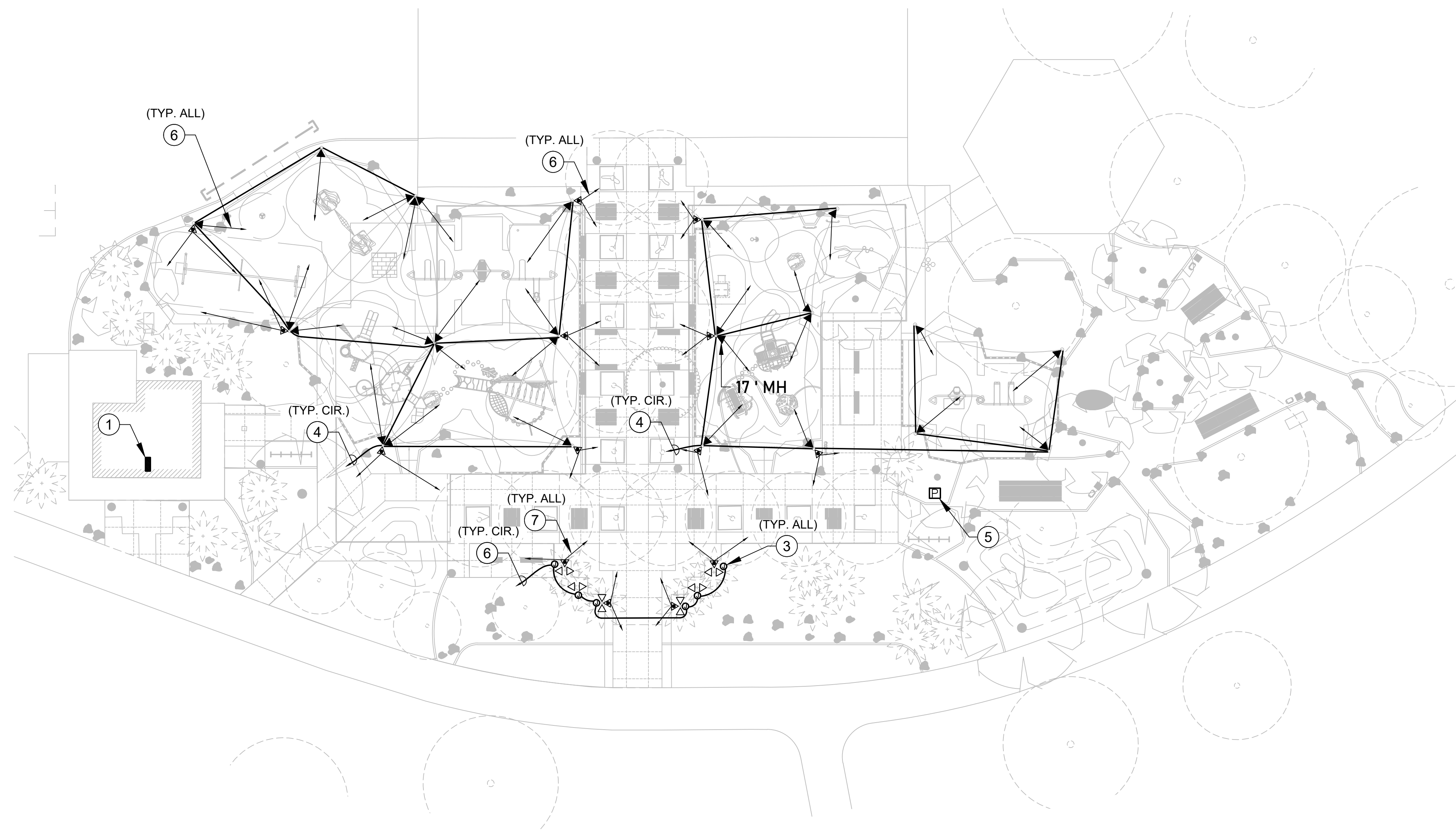
PLAN CHECKED BY:

CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
TITLE SHEET
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S85M)

SHEET **EL-1**
OF SHEETS **5**
CITY FILE NUMBER
PG XX-XXXX

"NOT FOR CONSTRUCTION" REVISED: 07/01/2025



KEY MAP

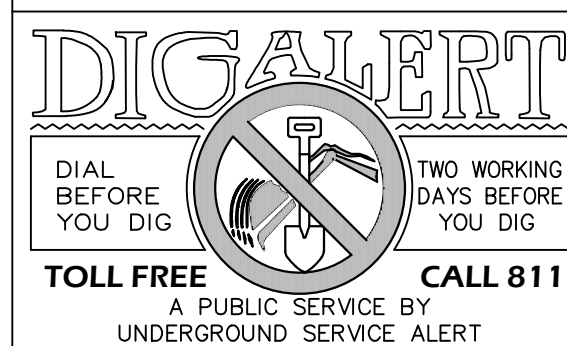
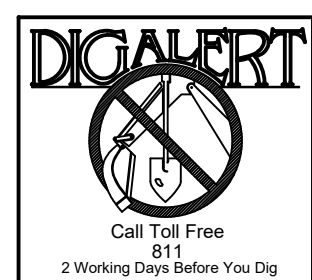
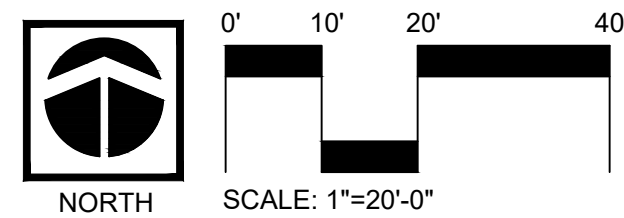
N.T.S.



PLAN NOTES

- ① EXISTING ELECTRICAL PANEL AND LIGHTING CONTROLS. VERIFY EXACT LOCATION. RE-ALLOCATE EXISTING CIRCUITS AND RUN NEW AS NEEDED. LIGHTING CIRCUITS TO BE CONTROLLED BY PHOTOCELL AND ASTRONOMICAL TIME CLOCK.
- ② BELOW GRADE PULL BOX. SEE DETAIL C/EL-3 FOR INSTALLATION.
- ③ BELOW GRADE JUNCTION BOX. SEE DETAIL D/EL-3 FOR INSTALLATION.
- ④ PROVIDE 1" C-2#10, 1#10 GND. BURY 24" BELOW GRADE.
- ⑤ NEW MISTER PUMP PANEL LOCATION. EXISTING TO BE RELOCATED. INTERCEPT EXISTING CONDUIT AND RE-ROUTE NEW CONDUIT AND WIRES OF SAME SIZE TO NEW LOCATION. VERIFY EXACT LOCATION WITH IRRIGATION PLANS.
- ⑥ ARROW INDICATED THE DIRECTION AND POINT THE LIGHT IS TO HIT. CONTRACTOR REQUIRED TO PERFORM A NIGHT-TIME ADJUSTMENT WITH VCL.

ELECTRICAL PLAN



SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS	CITY	
MARK	BY	DATE		APPR.	DATE

Visual Concepts Lighting (VCL)
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

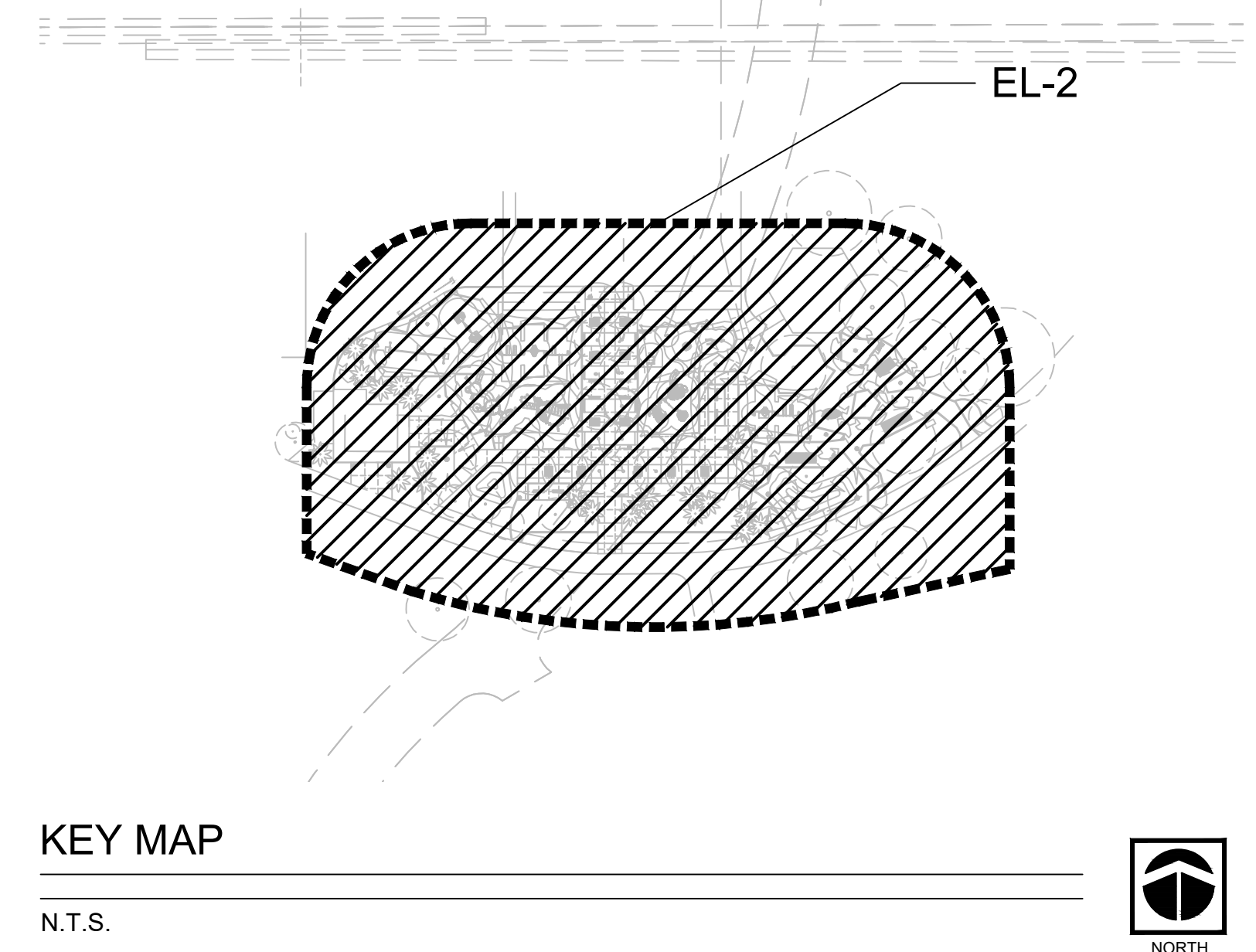
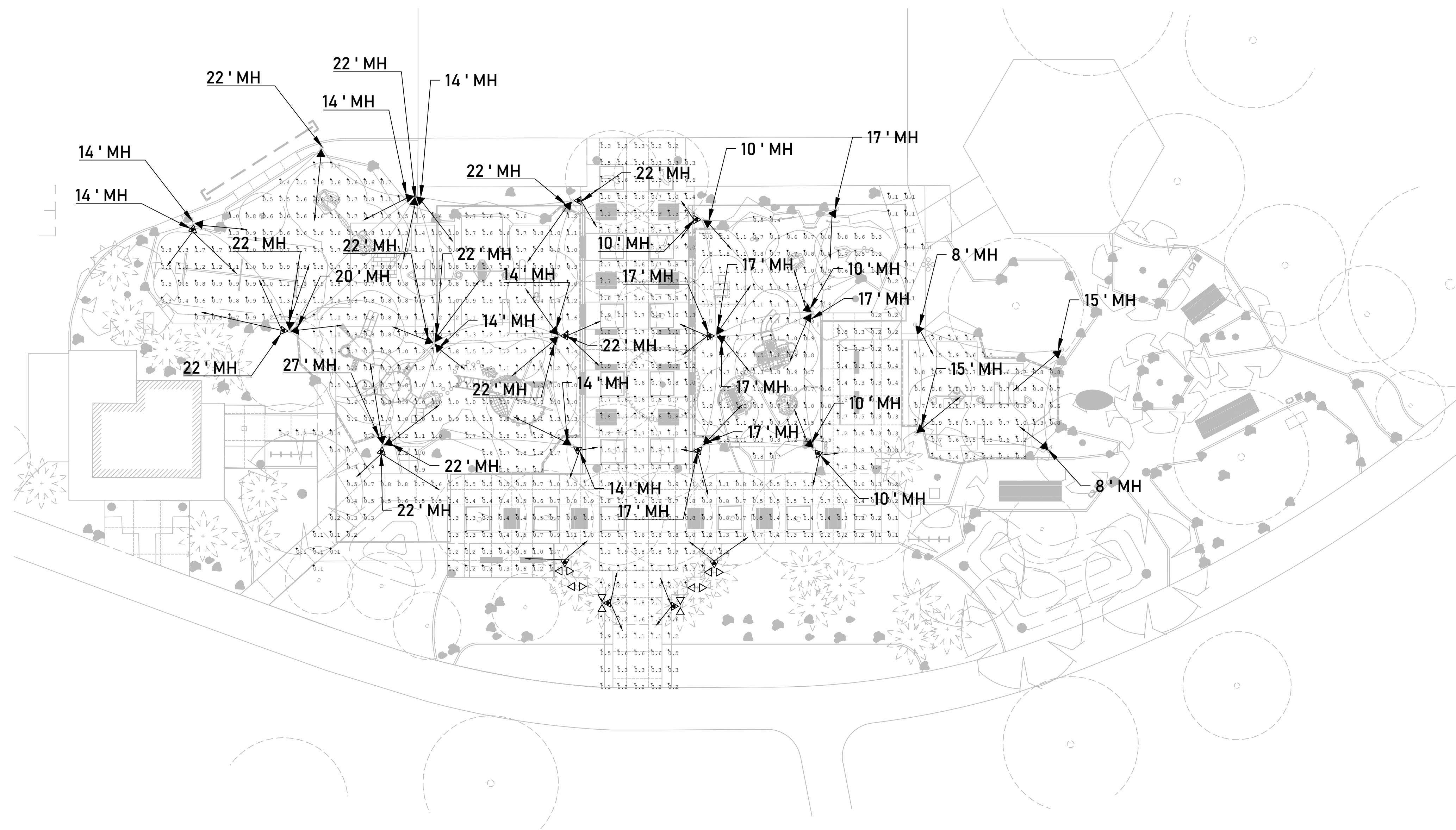
CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE DATE: _____
 CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY: DATE: _____

PLAN CHECKED BY:

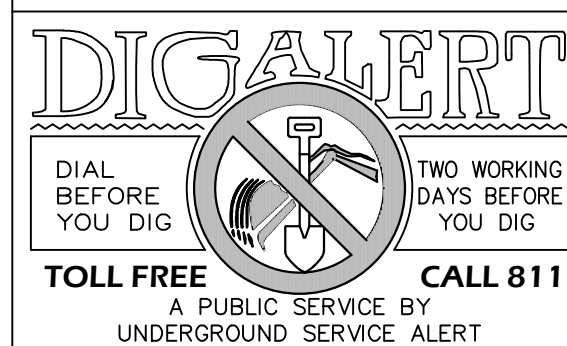
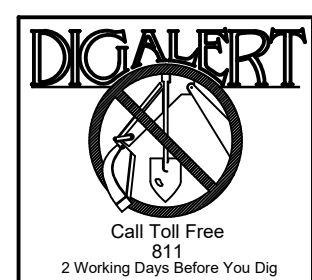
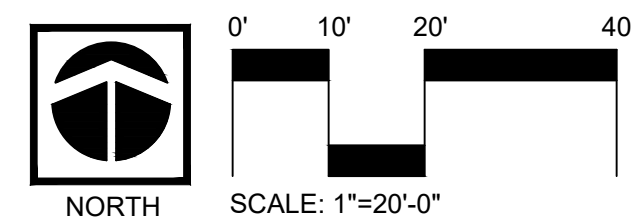
CIVIL	
TRAFFIC	
LANDSCAPE	

CITY OF PALM DESERT
 PLIGHTING AND ELECTRICAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
LIGHTING & ELECTRICAL PLAN
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S85M)

SHEET **EL-2**
 OF SHEETS **5**
 CITY FILE NUMBER PG XX-XXXX



PHOTOMETRIC STUDY



SEE SHEET 1 OF CIVIL PLANS
BENCHMARK AND BASIS OF BEARINGS
INFORMATION

ENGINEER			REVISIONS	CITY	
MARK	BY	DATE		APPR.	DATE

VCL
Visual Concepts Lighting
PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
APPROVED BY:
MICHAEL S. ROWE, PE DATE: _____
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE: _____

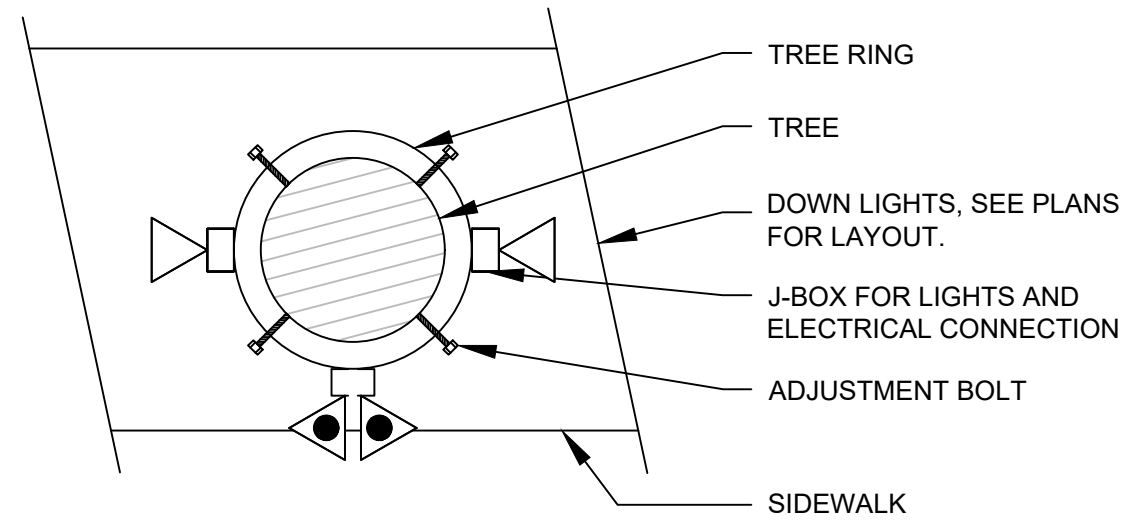
PLAN CHECKED BY:
CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
PHOTOMETRIC STUDY
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17,
T5S, R6E, S86M

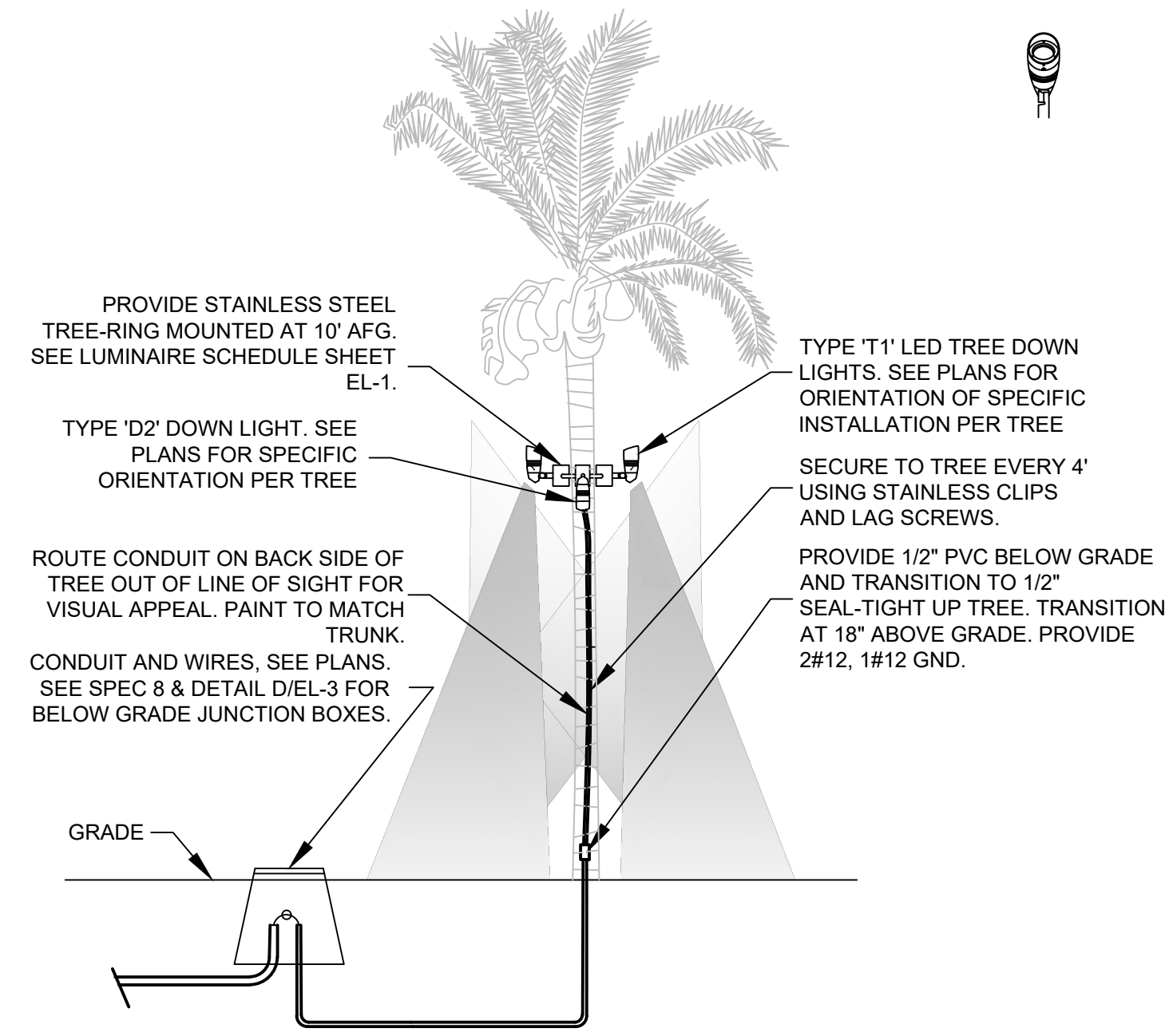
SHEET EL-3
OF SHEETS 5
CITY FILE NUMBER
PG XX-XXXX

NOTE:
A NIGHT-TIME ADJUSTMENT IS REQUIRED FOR PROPER AIMING AT FRAWNS.
SEE PLANS FOR SPECIFIC ORIENTATION OF SPECIFIC LOCATIONS OF DOWN LIGHTS, UP LIGHTS SPOT AND UP LIGHTS WIDE PER TREE.

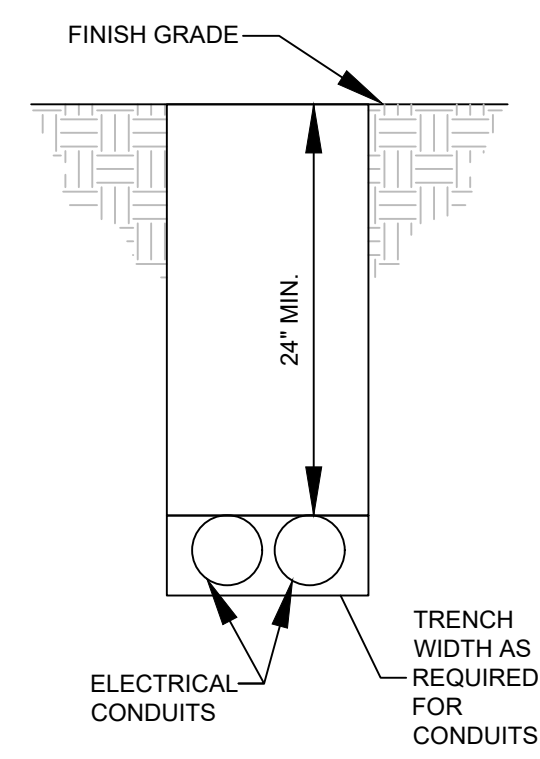
TYPE 'D2' DOWN LIGHT



TYPE 'T1' UP LIGHT



NO SCALE
A TYPE 'T1' & 'D2' TREE MOUNTED UP-LIGHT AND DUAL DOWN LIGHT INSTALLATION DETAIL



NO SCALE
B TRENCH AND CONDUIT INSTALLATION DETAIL

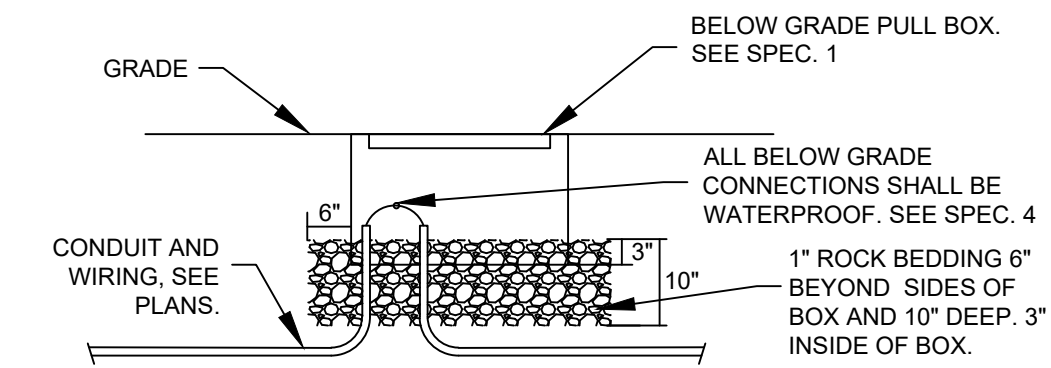
BACKFILL MATERIAL:
THE MATERIAL USED FOR BACKFILLING THE TRENCH ABOVE THE SHADING MATERIAL AND EXTENDING UPWARD TO THE SUBGRADE SHALL BE FREE OF ROCKS OR CLODS LARGER THAN 6" IN ANY DIMENSION. THE COARSE MATERIAL SHALL BE WELL DISTRIBUTED THROUGHOUT THE FINER MATERIAL. THE AMOUNT OF ROCKS OR CLODS SHALL BE LIMITED, IN THE OPINION OF THE INSPECTOR. THE BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND CITY STANDARDS AND BE FREE OF DEBRIS AND ORGANIC MATTER.

SHADING MATERIAL AND INSTALLATION:
NATURAL SAND, MANUFACTURED SAND, DECOMPOSED GRANITE, ROCK FREE SANDY LOAM, EXISTING NATIVE MATERIAL OR COMBINATION THEREOF. AGGREGATE MATERIAL SHALL BE CAPABLE OF PASSING THROUGH A 7/8" SIEVE. GRAVEL SHALL NOT AMOUNT TO MORE THAN 50% OF MIXTURE. SCREENING OR OTHER SUITABLE MEANS MAY BE REQUIRED AT THE INSPECTOR'S DISCRETION.
THE EARTH TRENCH BOTTOM SHALL BE STABLE WITH A UNIFORM GRADE CONTAINING NO HARD CLODS, ROCKS, AND ETCETERA. THAT MAY DAMAGE THE CONDUIT. IF IN THE OPINION OF THE INSPECTOR, THE CONDUIT MAY BE DAMAGED DURING COMPACTION, A 3" SHADE OF MATERIAL ABOVE AND BELOW THE CONDUIT MAY BE REQUIRED.

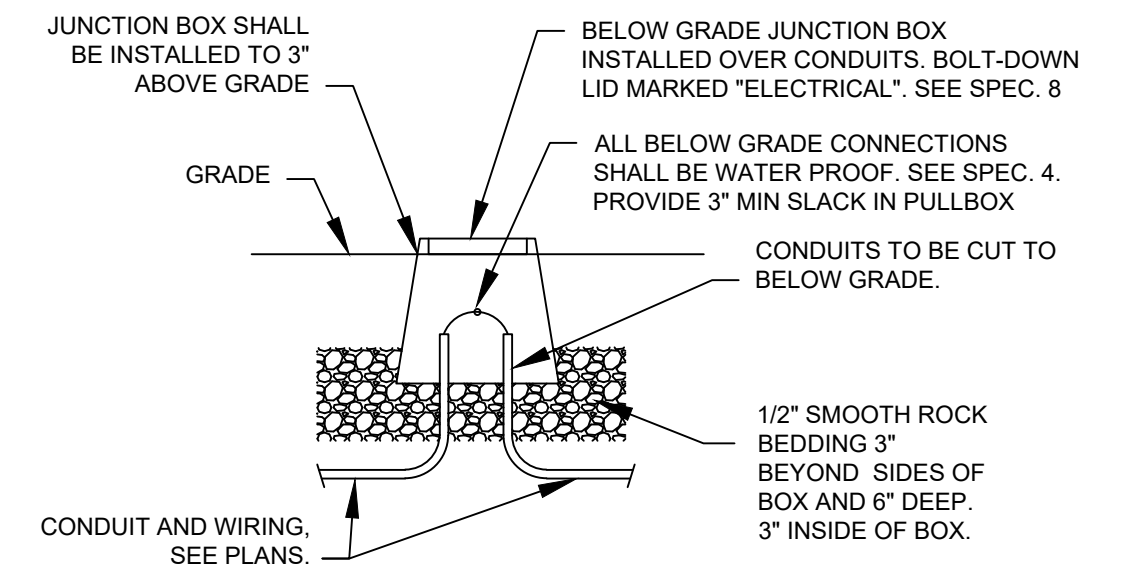
COMPACTION:
SHADING AND BACKFILL SHOULD BE COMPACTED IN ACCORDANCE WITH GOVERNMENTAL AGENCIES AND SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION. VERIFY REQUIREMENTS WITH INSPECTOR.

NOTE TO CONTRACTOR:
MAINTAIN PROPER SEPARATION FROM ALL WET AND DRY UTILITIES PER THE UTILITY COMPANY AND CITY JURISDICTION.

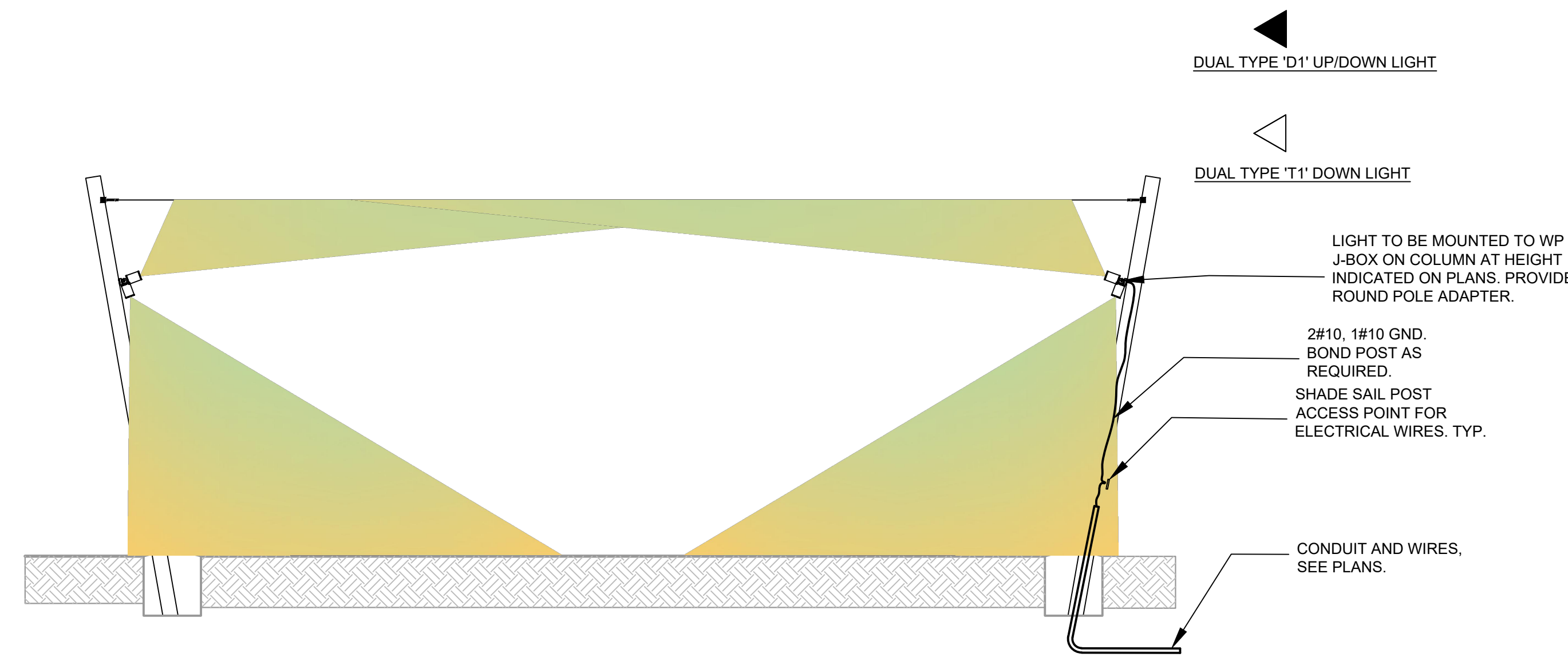
NOTE: IF PULLBOX IS INSTALLED IN CONCRETE, TOP OF PULLBOX TO BE FLUSH WITH GRADE. IF INSTALLED IN SOFTSCAPE, INSTALL 3" ABOVE GRADE.



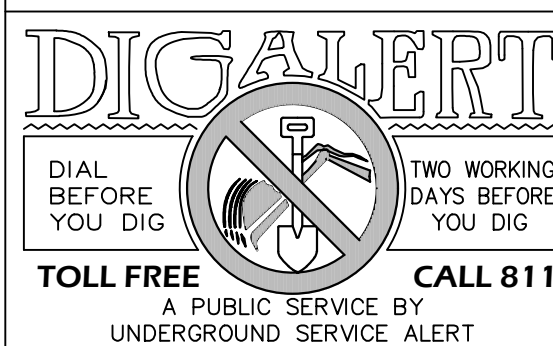
NO SCALE
C BELOW GRADE PULLBOX INSTALLATION DETAIL



NO SCALE
D BELOW GRADE JUNCTION BOX INSTALLATION DETAIL

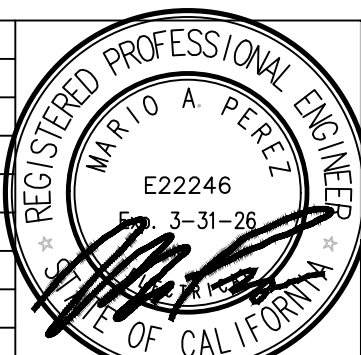


NO SCALE
E TYPE 'D1' & 'D2' UP-LIGHT AND DOWN LIGHT INSTALLATION DETAIL



SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS	CITY	
MARK	BY	DATE		APPR.	DATE



PREPARED UNDER THE DIRECT SUPERVISION OF:
MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT

APPROVED BY:
MICHAEL S. ROWE, PE DATE
CITY ENGINEER R.C.E. 56069, EXP. 12/31/24
REVIEWED AND RECOMMENDED BY: DATE

PLAN CHECKED BY:

CIVIL
TRAFFIC
LANDSCAPE

CITY OF PALM DESERT
PLIGHTING AND ELECTRICAL PLANS
CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
DETAILS
LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S86M)

SHEET EL-4
OF SHEETS 5
CITY FILE NUMBER
PG XX-XXXX

"NOT FOR CONSTRUCTION"

REVISED: 07/01/2025

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 1 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

A. GENERAL INFORMATION	
01 Project Location (city)	PALM DESERT
02 Climate Zone	IS
03 Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ).
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland	<input checked="" type="checkbox"/> LZ-2: Moderate - Urban Clusters
<input type="checkbox"/> LZ-1: Low - Rural Areas	<input type="checkbox"/> LZ-3: Moderately High - Urban Areas
05 Occupancy Types within Project	
* All Other Occupancies	

B. PROJECT SCOPE
 This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4) for alterations.
 My Project Consists of:
 New Lighting System
 Altered Lighting System
 % of Existing Luminaires Being Altered!
 < 10% >= 10% and < 50% >= 50%
 Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.
 FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 4 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

H. OUTDOOR LIGHTING CONTROLS
 This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie unaltered) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
 Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.
 Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01 Area Description	02 Shut-Off 130.2(c)(1) / 160.5(c)	03 Auto-Schedule 130.2(c)(2) / 160.5(c)	04 Motion Sensor 130.2(c)(3) / 160.5(c)	05 Field Inspector
SITE LIGHTING	Photocontrol	Provided	NA: Not permitted by H&LS	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
SITE LIGHTING	Astronomical Timer	Provided	Provided	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

FOOTNOTES: If not been subdivided, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
 Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
 Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from ii and iii.

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 7 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Kameron Burns
 Company: VISUAL CONCEPTS INC
 Address: 4858 Mercury Street, Suite 210
 City/State/Zip: San Diego CA 92111
 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 documentation the building owner to the building owner at occupancy.
 Responsible Designer Name: MARIO PEREZ
 Company: VISUAL CONCEPTS LIGHTING
 Address: 4858 MERCURY STREET STE #210
 City/State/Zip: SAN DIEGO CA 92111

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

NO SCALE

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 2 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

C. COMPLIANCE RESULTS
 Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.
 Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4)Bv

01 General Hardship Allowance	02 Per Application 140.7(d)(1) / 170.2(e)6 (See Table I)	03 Sales Frontage 140.7(d)(2) (See Table K)	04 Ornamental 140.7(d)(2) / 170.2(e)6 (See Table L)	05 Per Specific Area 140.7(d)(2) / 170.2(e)6 (See Table M)	06 Existing Power Allowance 141.0(b)(2) / 180.2(b)(4)Bv (See Table N)	07 Total Allowed (Watts)	08 Total Actual (Watts)	09 07 must be >= 08
515	---	---	---	---	---	515	210	COMPLIES

Shielding Compliance (See Table G for Details) N/A
 Controls Compliance (See Table H for Details) COMPLIES

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 5 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))
 This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardship Allowance is per Table 140.7-A/Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B/Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.
 Calculated General Hardship Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

Area Description	03 Area Wattage Allowance (AWA)		06 Linear Wattage Allowance (LWA)		Total General AWA + LWA (Watts)
	04 Illuminated Area (ft²)	05 Area Allowance (Watts)	07 Perimeter (ft)	08 Linear Allowance (Watts)	
PEDESTRIAN	9054	0.019	172	955	143.2
Initial Wattage Allowance for Entire Site (Watts):					200
Instances of Initial Wattage Allowance (LZ 0 only):					
Total General Hardship Allowance (Watts):					515

J. LIGHTING ALLOWANCE: PER APPLICATION
 This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
 This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
 This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 3 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.
 Designed Wattage:

Name or Item Tag	Complete Luminaire Description	Watts per luminaire ¹	How Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 Initial lumen output 130.2(b) / 160.5(c) ⁴	Field Inspector
D1	(1) 15W LED SHADE STRUCTURE LIGHT	15	Mfr. Spec	28	New	<input checked="" type="checkbox"/>	---	NA < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
D2	(1) 15W LED SHADE STRUCTURE DOWN LIGHT	15	Mfr. Spec	14	New	<input type="checkbox"/>	210	NA < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
T1	(1) 7.5W TREE UP LIGHT	7.5	Mfr. Spec	16	New	<input checked="" type="checkbox"/>	---	NA < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:							210		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 (1) Luminaire lighting a street: EXCEPTION 2 to 130.2(b)
 FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
 For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
 Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstated" for existing luminaires which are being removed and reinstated as part of the project scope.
 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)
 This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: CIVIC CENTER PARK
 Report Page: (Page 6 of 7)
 Project Address: CIVIC CENTER PARK
 Date Prepared: 6/30/2025

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online
 Form/Title
 NRCA-LTO-E - Must be submitted for all buildings.

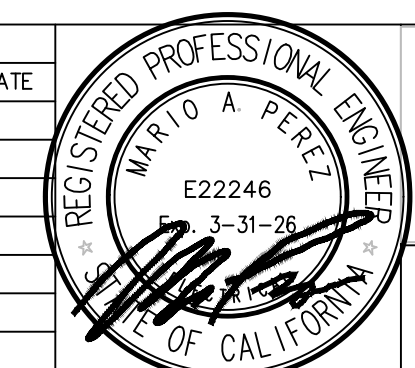
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>
 Form/Title
 NRCA-LTO-Q2-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.
 Systems/Spaces To Be Field Verified
 SITE LIGHTING ; SITE LIGHTING ;

Generated Date/Time: Documentation Software: EnergyPro
 Report Version: 2022.0.000 Compliance ID: EnergyPro-20567-0625-0629
 Schema Version: rev 20220101 Report Generated: 2025-06-30 14:54:24



SEE SHEET 1 OF CIVIL PLANS BENCHMARK AND BASIS OF BEARINGS INFORMATION

ENGINEER			REVISIONS	CITY	
MARK	BY	DATE		APPR.	DATE



VCL
 Visual Concepts Lighting
 PREPARED UNDER THE DIRECT SUPERVISION OF:
 MARIO A. PEREZ-R.C.E. DATE: 3-31-26 EXP.

CITY OF PALM DESERT
 APPROVED BY:
 MICHAEL S. ROWE, PE
 CITY ENGINEER
 R.C.E. 56069, EXP. 12/31/24
 REVIEWED AND RECOMMENDED BY:

PLAN CHECKED BY:
 CIVIL
 TRAFFIC
 LANDSCAPE
 CITY OF PALM DESERT
 PLIGHTING AND ELECTRICAL PLANS
 CIVIC CENTER PARK PLAYGROUND IMPROVEMENTS
 TITLE-24
 LEGAL DESCRIPTION (I.E. LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 17, T5S, R6E, S8M)

SHEET EL-5
 OF SHEETS 5
 CITY FILE NUMBER PG XX-XXXX

"NOT FOR CONSTRUCTION"
 REVISED: 07/01/2025

Submittal Package

Civic Center Park

Palm Desert, CA

Submitted by:



SUBMITTAL REVIEW

- APPROVED
- APPROVED AS CORRECTED
- REVISE AND RESUBMIT
- NOT APPROVED

SIGNATURE REQUIRED

By _____

Date _____

Design: 1196270-01-04



The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

*FENCE BY OTHERS—
PER ASTM F2373-11

11.8.2.1 It is recommended that outdoor play areas with unlimited access be located within fenced and gated areas.

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 2-12 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURERS OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US. PRIOR TO CONSTRUCTION, DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

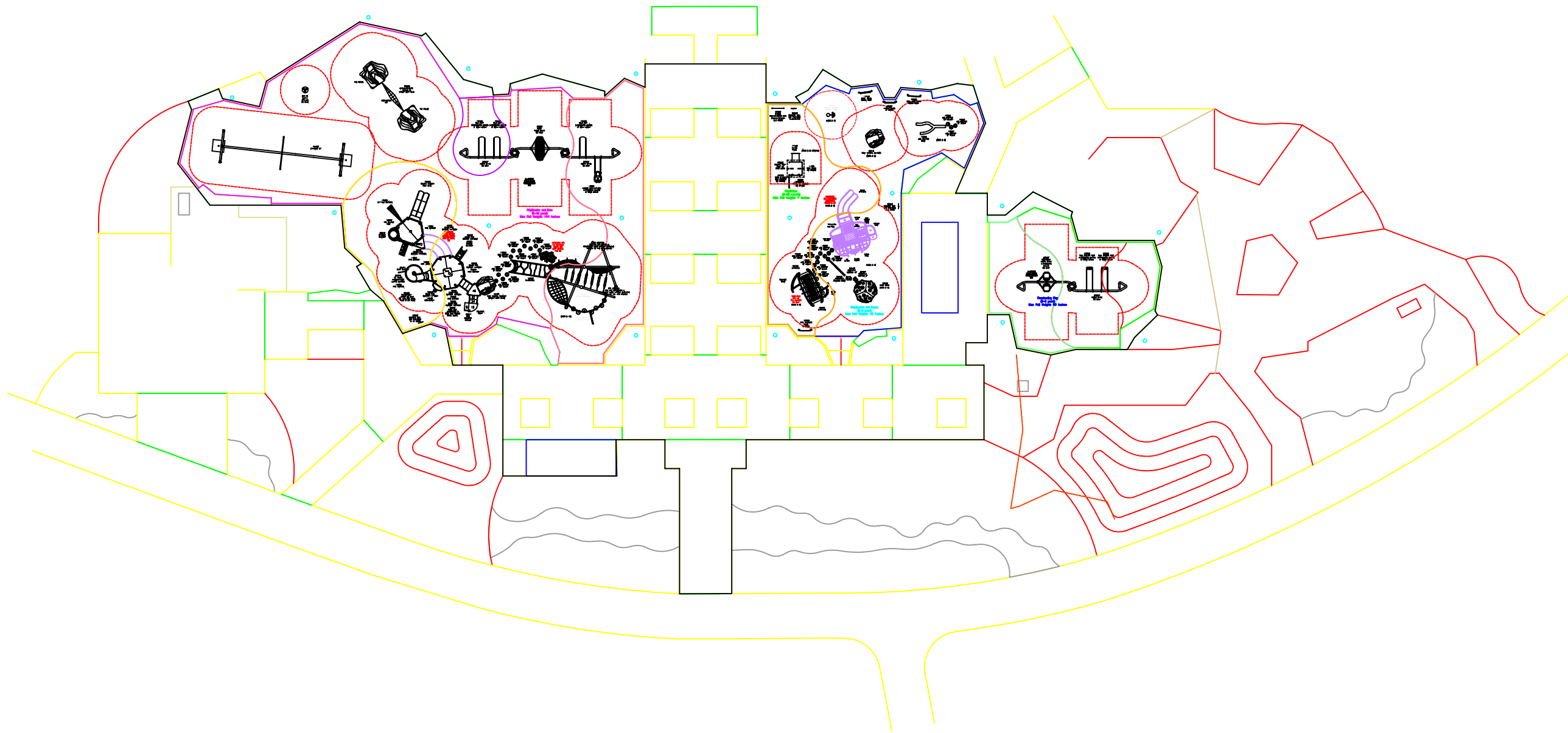
CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".

AREA OF ACCESSIBLE/PROTECTIVE SURFACING (POURED-IN-PLACE SUGGESTED)

DESIGNED BY:
MJO

COPYRIGHT: 6/23/2025
LANDSCAPE STRUCTURES, INC.
601 7th STREET SOUTH - P.O. BOX 198
DELANO, MINNESOTA 55328
PH: 1-800-328-0035 FAX: 1-763-972-6091

6/13/25	1196270-01-03	MJO
5/14/25	1196270-01-02	MJO
5/1/25	1196270-01-01	MJO
Date	Previous Drawing #	Initials

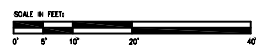


5-12 EQUIPMENT

TOTAL ELEVATED PLAY COMPONENTS	8		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	5	REQUIRED	4
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	26	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	10	REQUIRED	10

2-5 EQUIPMENT

TOTAL ELEVATED PLAY COMPONENTS	4		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	4	REQUIRED	2
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	23	REQUIRED	1
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	16	REQUIRED	16



Civic Center Park

Coast Recreation, Inc.

Taylor Smith

SYSTEM TYPE:
PlayBooster

DRAWING #:
1196270-01-04





Civic Center Park

1196270-01-04-01 • 06.23.2025





Civic Center Park



1196270-01-04-02 · 06.23.2025

©2025 Landscape Structures. All Rights Reserved.



Civic Center Park



1196270-01-04-03 · 06.23.2025

©2025 Landscape Structures. All Rights Reserved.



Civic Center Park



1196270-01-04-04 · 06.23.2025

©2025 Landscape Structures. All Rights Reserved.


PlayShaper (6-23 months)


Direct Bury Aluminum

* Palette Overridden *

!! Palette NOT Selected !!


ProShield® Finish

 Posts/Arches:  **Limon ***
Polyethylene

 Slides/Tunnels/Gliders/E-Pods®:  **Tangerine ***

 Roofs:  **Limon ***
Permalene®

 Primary Permalene:  **Recycled Sky w/Black ***

 Roof Logos:  **Recycled Limon w/Black ***

QTY	NO.	DESCRIPTION
-----	-----	-------------

Freestanding Play
Signs

1	355992A	Symbol Communication Sign w/2 DB Posts English/English
---	---------	---

 Posts/Arches:  Limon=317

1	182503D	Welcome Sign (LSI Provided) Ages 6-23 months Direct Bury
---	---------	---

 Posts/Arches:  Limon=317

PlayShaper®
Enclosures

1	111370A	Bead & Block Panel Ground Level w/o Handles
---	---------	--

 Primary Permalene:  Recycled Sky w/Black=802

1	112997A	Geometric Panel Ground Level w/Handles
---	---------	---

 Primary Permalene:  Recycled Sky w/Black=802

1	111284A	Hole Panel
---	---------	-------------------

 Primary Permalene:  Recycled Sky w/Black=802

1	111301A	Tunnel Panel DB
---	---------	------------------------

 Slides/Tunnels/Gliders/E-Pods®:  Tangerine=319

 Primary Permalene:  Recycled Sky w/Black=802

Posts

1	111397H	PS DECK POST DB
---	---------	------------------------

 Posts/Arches:  Limon=317

4	111396H	PS ROOF POST DB
---	---------	------------------------

 Posts/Arches:  Limon=317

Roofs

QTY	NO.	DESCRIPTION
-----	-----	-------------

1	179225A	Square Poly Roof Custom Logo Panels
		Custom Text: CIVIC CENTER PARK
		Posts/Arches: <input type="checkbox"/> Limon=317
		Roofs: <input type="checkbox"/> Limon=317
		Roof Logos: <input checked="" type="checkbox"/> Recycled Limon w/Black=817

PlayBooster and Forma (2-5 years)

* Palette Overridden *

Direct Bury Aluminum

!! Palette NOT Selected !!


ProShield® Finish

Posts/Arches:	<input type="checkbox"/>	Limon *
Clamps/Ball Connectors:	<input type="checkbox"/>	Tangerine *
Play Components:	<input type="checkbox"/>	Metallic Silver *

Polyethylene

Slide Hoods/O-Zone®:	<input type="checkbox"/>	Lagoon *
Slides/Tunnels/Gliders/E-Pods®:	<input type="checkbox"/>	Tangerine *

Permalene®

Primary Permalene:	<input checked="" type="checkbox"/>	Recycled Sky w/Black *
Secondary Permalene:	<input checked="" type="checkbox"/>	Recycled Gray w/Black *
Tertiary Permalene:	<input checked="" type="checkbox"/>	Recycled Lagoon w/Black *

TenderTuff

Barriers/Ladders/Benches:	<input type="checkbox"/>	Gray *
Decks/Step Ladders:	<input type="checkbox"/>	Gray *

Cables

Cables:	<input type="checkbox"/>	Black *
---------	--------------------------	----------------

QTY	NO.	DESCRIPTION
-----	-----	-------------





















Forma™
Climbers










1	307436A	Footprint® Balance Beam DB Footprint® Balance Beam Direct Bury
		Play Components: <input type="checkbox"/> Metallic Silver=349
1	307433A	Footprint® Stepper 16" DB Footprint® Stepper 16" Direct Bury
		Play Components: <input type="checkbox"/> Metallic Silver=349
1	307432A	Footprint® Stepper 8" DB Footprint® Stepper 8" Direct Bury
		Play Components: <input type="checkbox"/> Metallic Silver=349

Freestanding Play
Climbers


1	160418A	¹The Peak Rock Climber
7	173907A	Log Stepper 8"Height DB Only
5	173908A	Log Stepper 18"Height DB Only

Custom

QTY	NO.	DESCRIPTION
1	CP023654	2-5 Hatch Structure: Design A Arched structure with a Double Swirl Slide, belting decks, Mink RPL Board Climber, Belting and GripX transfer station, 1-circular marble panel, underdeck belt hangout w 1 hole panel, 1-circular Optigear panel, ring-a-bells, net climber, and 1-O-Zone hole entry. Permalene, wire mesh, pipe barrier, and lasercut steel siding on upper deck. Footers beneath lower level to be locked as carbon proshield. DB Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Play Components:  Metallic Silver=349 Slide Hoods/O-Zone®:  Lagoon=421 Slides/Tunnels/Gliders/E-Pods®:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802 Secondary Permalene:  Recycled Gray w/Black=866 Barriers/Ladders/Benches:  Gray=166 Cables:  Black=005
1	CP017916A	DTR Arc Climber With swiggly stix, balance beam, bead maze, and belt bridge. DB Posts/Arches:  Limon=317 Play Components:  Metallic Silver=349 Slides/Tunnels/Gliders/E-Pods®:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802 Secondary Permalene:  Recycled Gray w/Black=866 Tertiary Permalene:  Recycled Lagoon w/Black=821 Decks/Step Ladders:  Gray=166 Cables:  Black=005
Motion & More Fun		
1	164074B	Single Bobble Rider DB Play Components:  Metallic Silver=349
Sensory Play		
1	168099A	Cozy Dome DB Slides/Tunnels/Gliders/E-Pods®:  Tangerine=319
Signs		
1	182503A	Welcome Sign (LSI Provided) Ages 2-5 years Direct Bury Posts/Arches:  Limon=317
Sports & Fitness		
1	173596A	¹ Log Balance Beam DB
PlayBooster®		
Enclosures		

QTY	NO.	DESCRIPTION
1	115236A	Ball Maze Panel Ground Level Below 48"Dk Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802
1	345281B	Marble Panel At Grade Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802
1	188835B	Sign Language Panel Ground Level Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802
1	117146A	Gear Panel Ground Level Under 48"Dk Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802 Secondary Permalene:  Recycled Gray w/Black=866

Posts

8	111404J	76" Alum Post DB Posts/Arches:  Limon=317
---	---------	--

Freestanding Play (2-5 years)

Direct Bury Aluminum




* Palette Overridden *

!! Palette NOT Selected !!


Swings

 Posts:  **Limon *** » Component Colors Below «

 Beams:  **Tangerine ***

QTY	NO.	DESCRIPTION
Freestanding Play Swings		
1	278557A	¹ Hedra Swing Frame 8' Height DB Only Posts:  Limon=317
1	278857A	¹ Friendship® Swing w/Hedra® Swing Frame ProGuard Chains DB Friendship® Swing w/Hedra® Swing Frame & ProGuard Chains 8' Height DB Only Posts:  Sky=418 « Beams:  Tangerine=319
2	176038A	Full Bucket Seat ProGuard Chains for 8' Beam Height
1	281067A	Hedra Swing Frame Spacer Set


PlayBooster and Evos (5-12 years)


Direct Bury Aluminum

* Palette Overridden *

!! Palette NOT Selected !!


ProShield® Finish

 Posts/Arches:  **Limon ***

 Clamps/Ball Connectors:  **Tangerine ***

PlayBooster and Evos (5-12 years)

Direct Bury Aluminum

* Palette Overridden *






!! Palette NOT Selected !!






















Play Components:			Sky *
Polyethylene			
Slide Hoods/O-Zone®:			Lagoon *
Slides/Tunnels/Gliders/E-Pods®:			Lagoon *
Roofs:			Limon *
Permalene®			
Primary Permalene:			Recycled Sky w/Black *
Secondary Permalene:			Recycled Lagoon w/Black *
Tertiary Permalene:			Recycled Sky w/Black *
TenderTuff			
Barriers/Ladders/Benches:			Gray *
Decks/Step Ladders:			Gray *
Cables			
Cables:			Black *
Swings			
Posts:			Limon * » Component Colors Below «
Beams:			Tangerine *
Cables:			Black *
Molded Bucket Seats:			Lagoon *
Seat Harness:			Limon *
Vibe®/SteelX®			
Primary Panels:			Lagoon *

















QTY	NO.	DESCRIPTION
-----	-----	-------------

Evos® Arch Clamps

4	156439A	Clamp No Faces (O-O) Clamps/Ball Connectors:  Tangerine=319
1	156440A	Clamp One Face (A-A) Clamps/Ball Connectors:  Tangerine=319
1	157585A	Clamp One Face (O-E) Clamps/Ball Connectors:  Tangerine=319
1	156442A	Clamp Two Faces 180* (C-C) Clamps/Ball Connectors:  Tangerine=319
1	157586A	Clamp Two Faces 180* (E-E) Clamps/Ball Connectors:  Tangerine=319








Bridges

QTY	NO.	DESCRIPTION
1	156450A	¹Swiggle Stix DB Only Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Slides/Tunnels/Gliders/E-Pods®:  Lagoon=421 Cables:  Black=005
Climbers		
1	156449A	Helix Net® DB Only Between Two Arches Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Cables:  Black=005
1	156448A	O-Zone Climber Clamps/Ball Connectors:  Tangerine=319 Slide Hoods/O-Zone®:  Lagoon=421 Cables:  Black=005
1	156462A	¹RingTangle DB Only Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Slides/Tunnels/Gliders/E-Pods®:  Lagoon=421
Mainstructures		
1	179185A	¹Evos 4 Arch DB Only Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Cables:  Black=005
Freestanding Play		
Climbers		
1	168365A	¹AdventureScapes Design 2 DB Only Cables:  Black=005
5	173907A	Log Stepper 8"Height DB Only
6	173908A	Log Stepper 18"Height DB Only
Custom		
1	CP001299A	DTR Recycled Board Oak Leaf Wobble Pod Approx 48" x 30" x 16" high. Mink & Cedar boards DB Play Components:  Sky=418
Motion & More Fun		

QTY	NO.	DESCRIPTION
1	194663A	¹ZipKrooz 34' w/Aluminum Posts DB Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Decks/Step Ladders:  Gray=166
1	247179A	CURVA™ SPINNER DB Play Components:  Sky=418
Signs		
1	182503C	Welcome Sign (LSI Provided) Ages 5-12 years Direct Bury Posts/Arches:  Limon=317
Swings		
1	352221A	Flexx™ Swing w/Hedra® Frame DB Only Posts:  Limon=317 Beams:  Tangerine=319 Cables:  Black=005
1	177351A	Molded Bucket Seat w/Harness ProGuard Chains for 8' Bm Hgt Molded Bucket Seat w/Harness ProGuard Chains for 8' Beam Height Molded Bucket Seats:  Lagoon=421 Seat Harness:  Limon=317
1	278557A	¹Hedra Swing Frame 8' Height DB Only Posts:  Tangerine=319 «
1	278557A	¹Hedra Swing Frame 8' Height DB Only Posts:  Sky=418 «
3	174018A	Belt Seat ProGuard Chains for 8' Beam Height
2	281067A	Hedra Swing Frame Spacer Set
PlayBooster®		
Climbers Nature-Inspired		
1	160420A	The Peak Rock Climber DB Only Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802
Climbers Other		
1	146812A	¹Sky Rail Climber 72"Dk DB Play Components:  Sky=418
Climbers W/Permalene Handholds		

QTY	NO.	DESCRIPTION
1	345316B	Chimney Climber 72" Dk DB Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Primary Permalene:  Recycled Sky w/Black=802 Cables:  Black=005
1	345311D	Cliff Climber 72"Dk DB Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Primary Permalene:  Recycled Sky w/Black=802 Secondary Permalene:  Recycled Lagoon w/Black=821 Tertiary Permalene:  Recycled Sky w/Black=802 Decks/Step Ladders:  Gray=166
1	152907C	Deck Link w/Barriers 3 Steps Clamps/Ball Connectors:  Tangerine=319 Barriers/Ladders/Benches:  Gray=166 Decks/Step Ladders:  Gray=166 Primary Panels:  Lagoon=421
1	345325B	Arcade Climber w/Permalene Handholds 72"DK/DB Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Primary Permalene:  Recycled Sky w/Black=802
1	148432B	Corkscrew Perm Handholds 72"Dk DB Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Primary Permalene:  Recycled Sky w/Black=802
1	145624D	Vertical Ascent 72"Dk Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802
Custom		
1	CP022034	90 degree curved bridge for 72" deck DB Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Decks/Step Ladders:  Gray=166
Decks		

QTY	NO.	DESCRIPTION
1	152911B	Curved Transfer Module Left 40"Dk DB Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Primary Permalene:  Recycled Sky w/Black=802 Barriers/Ladders/Benches:  Gray=166 Decks/Step Ladders:  Gray=166
1	178710A	Hexagon Tenderdeck Clamps/Ball Connectors:  Tangerine=319 Decks/Step Ladders:  Gray=166
1	119646A	Triangular Tenderdeck Extension Clamps/Ball Connectors:  Tangerine=319 Decks/Step Ladders:  Gray=166
1	111231A	Triangular Tenderdeck Clamps/Ball Connectors:  Tangerine=319 Decks/Step Ladders:  Gray=166
Enclosures		
5	116244A	Pipe Barrier Above Deck Clamps/Ball Connectors:  Tangerine=319 Barriers/Ladders/Benches:  Gray=166
Mainstructures		
1	165596A	¹12' PlayOdyssey Tower Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Roofs:  Limon=317 Primary Permalene:  Recycled Sky w/Black=802 Decks/Step Ladders:  Gray=166
7	165960A	12' Tower Pipe Barrier Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418
1	222710B	12' Tower WhooshWinder™ Slide w/Pipe Barrier Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Play Components:  Sky=418 Slides/Tunnels/Gliders/E-Pods®:  Lagoon=421
Posts		
1	111404E	116" Alum Post DB Posts/Arches:  Limon=317

QTY	NO.	DESCRIPTION
2	111404D	124" Alum Post DB Posts/Arches:  Limon=317
1	111404A	148" Alum Post DB Posts/Arches:  Limon=317
6	111403A	182" Alum Post For Roof DB Posts/Arches:  Limon=317
Roofs		
1	130567A	¹Hex Shingle Roof Roofs:  Limon=317
Slides		
1	130390A	¹Double Swoosh™ Slide 72"Dk DB Posts/Arches:  Limon=317 Clamps/Ball Connectors:  Tangerine=319 Slides/Tunnels/Gliders/E-Pods®:  Lagoon=421

ProShield® Colors

For posts/arches, components and clamps, ProShield® finish combines a specially formulated primer with a high-quality, architectural-grade powdercoat top layer. The result is enhanced longevity, greater protection against UV rays, prevention from corrosion, and improved product performance. Custom colors are available for an additional charge.

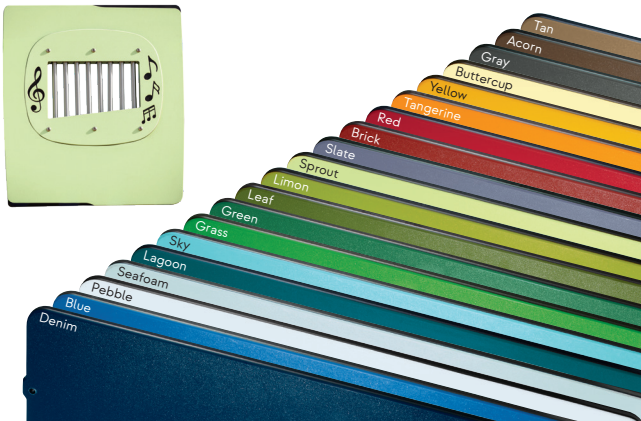
Learn more about our Color Inspirations at playlsi.com/color-inspirations



* Indicates matte color

Permalene® Color Panels

Permalene® panels with a recycled core are a smart choice for your playground and the environment. Available in the 20 colors shown, the distinctive black core results from combining and recycling colored plastic—waste that would otherwise end up in landfills.



Steel-Reinforced Cables Made of tightly woven, polyester-wrapped, six-stranded galvanized-steel cable. These abrasion-resistant, color-stable cables are extremely durable and vandal resistant.



Tan Black Red

LSI Flex™ Steel-Reinforced Net

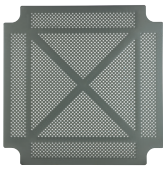
Game-changing material that offers kids with a range of abilities a variety of play experiences. Steel-reinforced cable is extremely durable and vandal resistant. Low-profile connections are comfortable and easy to grip.



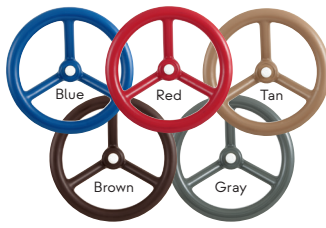
Tan Black Red



Brown



Gray



Limon



Sky



Tangerine

Steel Decks The heaviest, thickest decks for long-lasting safety: Flange-formed from 12-gauge steel with safe, rounded corners. Reinforced with .105" x 2" ribs welded on cross for superior strength and a consistently flat surface.

TenderTuff™ Coating For swing chains, handholds, pipe barriers, wheels, rings, etc. Insulates against temperature extremes and provides a safer grip surface compared to painted metal.

Polycarbonate Panels Hedra® product line option. Translucent panel provides visibility into structure as well as light and color play.



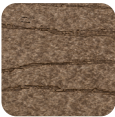
Birch



Cedar



Gray



Mink



Mahogany



Walnut

Recycled Plastic Lumber

Looks like wood, but lasts longer and is easier to clean. 100% recycled high-density UV-stabilized polyethylene material to prevent warping in direct sun. Color option for Volo Aire™ only.

Polyethylene For slides, tunnels, roofs, etc. The heavy-duty rotationally molded polyethylene material ensures strength and durability while resisting cracking, fading and peeling. *Denim, Seafoam, Leaf, Limon, Slate, Brick, Tangerine, Buttercup, Granite and Acorn are color blends.



Denim



Blue



Seafoam



Lagoon



Green



Leaf



Limon



Sprout



Slate



Brick



Red



Tangerine



Buttercup



Gray



Granite



Acorn



Tan

SkyWays® and CoolToppers® Shade Fabrics

Designed to block up to 97% of UV rays and keep playground temperatures up to 30 degrees cooler.



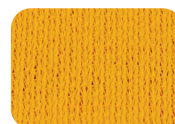
Natural FR



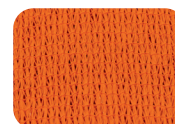
Dune FR



Tan FR



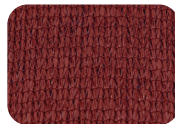
Yellow FR



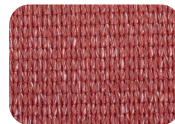
Orange FR



Cherry Red FR



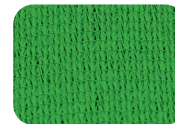
Deep Ochre FR



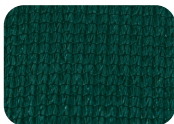
Cayenne FR



Peacock FR



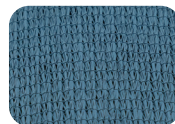
Grass FR



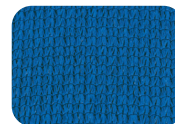
Pine Green FR



Bluebird FR



Sky Blue FR



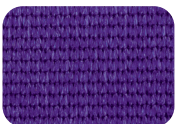
Blue FR



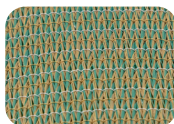
Lagoon FR



Denim FR



Purple FR



Rivergum FR



Metallic Silver FR



Gun Metal FR



Black FR



Landscape Structures Inc. (“Manufacturer”) warrants that all playstructures and/or equipment sold will conform in kind and in quality to the specifications manual for the products identified in the Acknowledgment of Order and will be free of defects in manufacturing and material. Manufacturer further warrants:

100-Year Limited Warranty On all PlayBooster® and PlayShaper® aluminum posts, stainless steel fasteners, clamps, beams and caps against structural failure due to corrosion/natural deterioration or manufacturing defects, and on PlayBooster steel posts against structural failure due to material or manufacturing defects.

15-Year Limited Warranty On all Evos® and Weevos® steel arches, all plastic components (including TuffTimbers™ edging), all aluminum and steel components not covered above, Mobius® climbers, Rhapsody® Outdoor Musical Instruments, decks and TenderTuff™ coatings (except Wiggle Ladders, Chain Ladders and Swing Chain) against structural failure due to material or manufacturing defects.

10-Year Limited Warranty On concrete products against structural failure due to natural deterioration or manufacturing defects. Does not cover minor chips, hairline cracks or efflorescence.

8-Year Limited Warranty On Aeronet® climbers and climbing cables against defects in materials or manufacturing defects.

5-Year Limited Warranty On Rhapsody cables and mallets against defects in materials or manufacturing defects and on polycarbonate panels against defects in materials or manufacturing defects.

3-Year Limited Warranty On all other parts, i.e. all swing seats and hangers, all swing chain and cables, ZipKrooz® cables, Track Ride trolleys and bumpers, Mobius Climber handholds, Wiggle Ladders, Chain Ladders, all rocking equipment including Sway Fun® gliders, belting material, LSI Flex™ flexible cable netting, HeathBeat® resistance mechanisms, Seesaws, etc., against failure due to corrosion/natural deterioration or manufacturing defects.

The environment near a saltwater coast can be extremely corrosive. Some corrosion and/or deterioration is considered “normal wear” in this environment. Product installed within 500 yards (457 meters) of a saltwater shoreline will only be covered for half the period of the standard product warranty, up to a maximum of five years, for defects caused by corrosion. Products installed in direct contact with saltwater or that are subjected to salt spray are not covered by the standard warranty for any defects caused by corrosion.

This warranty does not include any cosmetic issues or wear and tear from normal use of the product, or misuse or abuse of the product. It is valid only if the playstructures and/or equipment are erected to conform with Landscape Structures’ installation instructions and maintained according to the maintenance procedures furnished by Landscape Structures Inc.

2025 Play Equipment Warranty

You have our word.

All the warranties commence on date of Manufacturer’s invoice. Should any failure to conform to the above express warranties appear within the applicable warranty period, Manufacturer shall, upon being notified in writing promptly after discovery of the defect and within the applicable warranty period, correct such nonconformity either by repairing any defective part or parts, or by making available a replacement part within 60 days of written notification. Manufacturer shall deliver the repaired or replacement part or parts to the site free of charge, but will not be responsible for providing labor or the cost of labor for the removal of the defective part or parts, the installation of any replacement part or parts or for disposal costs of any part or parts. Replacement parts will be warranted for the balance of the original warranty.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

ANY SURETY BONDS ISSUED PURSUANT TO ANY CONTRACT OR SELLER’S INVOICE SHALL NOT INCLUDE COVERAGE FOR THIS GUARANTEE OR WARRANTY BEYOND ONE YEAR.

The remedies hereby provided shall be the exclusive and sole remedies of the purchaser. Manufacturer shall not be liable for any direct, indirect, special, incidental or consequential damages.

Manufacturer neither assumes nor authorizes any employee, representative or any other person to assume for Manufacturer any other liability in connection with the sale or use of the structures sold, and there are no oral agreements or warranties collateral to or affecting this agreement. The warranties stated above are valid only if the structures and/or equipment are erected in conformance with Landscape Structures’ installation instructions and maintained according to the maintenance procedures furnished by Landscape Structures Inc.; have been subjected to normal use for the purpose for which the goods were designed; have not been exposed to saltwater or salt spray; have not been subject to misuse, negligence, vandalism, or accident; have not been subjected to addition or substitution of parts; and have not been modified, altered, or repaired by persons other than Manufacturer or Manufacturer’s designees in any respect which, in the judgement of Manufacturer, affects the condition or operation of the structures.

To make a claim, send your written statement of claim, along with the original job number or invoice number to: Landscape Structures Inc. 601 7th Street South, Delano, Minnesota, 55328-8605.

Signed:  President Date: 01/01/2025





Terms of Sale

PRICING: Landscape Structures' list prices do not include delivery and handling charges. Prices are subject to change without notice.

TERMS: To tax-supported institutions and those with established credit: net 30 days from the date of the invoice. 1.5% per month thereafter; freight charges are prepaid and applied to the invoice.

TAXES: Landscape Structures' list prices do not include applicable taxes, if any.

WEIGHTS: Weights are approximate and may vary.

DELIVERY: If delivery of the equipment is by common carrier, and there is damage or a shortage, notify the carrier at once and sign delivery documents provided by the carrier noting the damage or shortage. Most products are delivered on large pallets and will require a forklift or similar equipment to unload as a unit on the site.

INSTALLATION: All playstructures and/or equipment are delivered unassembled and packaged with recyclable materials. For a list of factory-certified installers in your area, please contact your Landscape Structures playground consultant.

SERVICE: We have knowledgeable, qualified playground consultants throughout the world who are available to help you before, during and after the sale. Landscape Structures has exclusive design software that features all of our parts and pieces in pull-down menus. With this software, your playground consultant can design a playground layout that meets not only your needs, but ASTM and CPSC standards as well. In addition, we have a full staff of CPSI-certified designers, along with 2D and 3D drawing capabilities and custom capabilities to assist you with your playground plans.

RETURN POLICY: As an indication of our commitment to our customers, Landscape Structures will accept returns of new structures and/or new equipment purchased within 60 days of the original invoice date. Advance notification is necessary to ensure proper credit. Parts not included in this return policy are custom parts (including PlayShaper® posts), as well as used or damaged parts. A 20% restock fee plus all return freight charges will apply to all product returns. NOTE: All parts are subject to inspection upon return. Parts returned damaged may not receive a full credit. For this reason, it is important that all returned parts are properly packaged to prevent damage while in transit. Please contact your Landscape Structures playground consultant for the shipping address.

PRODUCT CHANGES: Because of our commitment to safety, innovation, and value, we reserve the right to change specifications at any time.

PLEASE CONTACT US AT:

Landscape Structures Inc.
601 7th St. South
Delano, MN 55328-8605
888.438.6574 (inside the U.S.A.)
763.972.5200 (outside the U.S.A.)
playlsi.com

