



Purchasing Division

ADDENDUM NO. 3

DATE: February 15, 2018
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Las Colonias Business Park Phase I and Phase IA IFB-4476-18-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Sheet E1 references MH Lighting and the catalog numbers shown are for Architectural Area Lighting. However, on sheet E11 the fixture schedule shows Philips Gardco whose rep is Visual Interest. Which is correct, or are both?
 - A. See revised plan set attached.
1. Revised Construction Plan Set(s) – See attached.
2. Revised Electrical Plan Sheets – See attached.
3. Revised Bid Schedule – See attached.
4. Existing Contour Maps – See attached.
5. Irrigation Pull/Valve Box Specification – Line Item Deleted. See revised plan set.
6. **Revisions to SP-8** - Revisions to subsection, **Payment will be made under:** shall be deleted and replaced with the follow:

Joint Trench Street Side

- Site Lighting (Pedestrian and Street Lighting, Pump and Holiday Supply)
 - 2" SCHED. 80 PVC (3 EA.) –5,610 LF Contractor Provide and Place
- Electrical Conduit (Extra)
 - 2" SCHED. 80 PVC (2 EA.) – 5,900 LF Contractor Provide and Place
- Broadband Infrastructure
 - 6" SCHED. 80 PVC (1 EA.) – 2,600 LF Contractor Provide and Place

Joint Trench Property Side (Complete in Place)

- Gas Main (Xcel)
 - 4" P.E. (1 EA.) – 2,555 LF Xcel Provide and Place
- Single Phase Power (Xcel)
 - 2" SCHED. 80 PVC (1 EA.) – 2,555 LF Xcel Provide and Place

- Three Phase Power (Xcel)
 - 4" SCHED. 80 PVC (1 EA.) – 2,555 LF Xcel Provide and Place
- Three Phase Power (Xcel)
 - Direct Bury Conductor (1 EA.) – 2,555 LF Xcel Provide and Place
- CATV (Charter)
 - 2" SCHED. 80 PVC (2 EA.) – 2,555 LF Charter Provide and Place
- Communications Cable (Century Link)
 - 4" SCHED. 80 PVC (2 EA.) – 2,555 LF Contractor Provide and Place
 - 2" SCHED. 80 PVC (2 EA.) – 2,555 LF Contractor Provide and Place
 - Vault(s) – Century Link Provides, Contractor Installs. 8 EA
- Raw Water Irrigation to Include A-2 (2 Wire) throughout.
 - 6" C-900 PVC (1 EA.) – 3,400 LF Contractor Provide and Place
- Recirculation Conduit
 - 6" C-900 PVC (1 EA.) – 1,050 LF Contractor Provide and Place

3/8" chips or #10 CHAT (rock crusher reject) is to be utilized as bedding and haunching for both the Street and Property Side Joint Utility Trench. Cost of materials shall be included in the linear foot contract price in the bid schedule and we considered incidental.

Pay Item	Pay Unit
Joint Trench (Street Side) 2" Schedule 80 PVC	LF
Joint Trench (Street Side) 6" Schedule 80 PVC	LF
Joint Trench (Property Side) 6" C-900	LF
Joint Trench (Property Side) 4" Schedule 80 PVC	LF
Joint Trench (Property Side) 2" Schedule 80 PVC	LF

Pay Item	Pay Unit
Vault	EA

7. **Geotechnical Testing** - The Contractor, at their own discretion, may elect to forgo the soils Quality Control (QC) field testing (in-place soils density) for placement of Overlot, Embankment, and Trench backfill. Quality Assurance (QA) testing for these items will be performed by the City, and laboratory testing results for submittal purposes will be provided by the contractor. However, if a sufficient number of failed test results are observed by the City and/or it's QA testing representatives, written notification will be provided to the contractor, and back payment to the City for failed location re-tests will be required.
8. **Bid item #22 (Rev. #24), 12" 11.25° Elbow – bid schedule shows 2, but I only see 1, 6+68.51 Phase IA.** There is a second located at 5+34.01.
9. **Bid item #26 (Rev. #29), 12" end cap/plug – bid schedule shows 2, but I see 3.** 0+20.01 will not be necessary now with phase I and IA constructed concurrently.

10. **Plans show 2 8" MJ caps, but none on the bid schedule.** 2 8" end cap/plugs will be added to the revised bid schedule.
11. **Can you please clarify what the contractor is to supply on the 2" meter services, besides the saddle and corp. Yoke and if so specification? Concrete box and if so size?** Per 108.4 Water Service Lines, 2" Water Service Assembly shall consist of the tap, tapping saddle, and the corporation stop. The City will supply the meter setter (yoke), pit and skirt. The cost shall include the installation of the 2" Water Service Assembly by the Contractor.
12. **Bid Item #66 (Rev. #72) – 6,900 LF of 2" Schedule 80 PVC is that the conduit used for electrical street lighting and receptacles or does bid item #89 wiring complete in place include all the 2" Schedule 80 conduit for the electrical items?** Bid Item #66, now Bid Item #72 covers all conduit necessary for the pedestrian/street lighting and receptacles. See attached electrical conduit schematic plan for clarification. The street side joint trench shall include conduit per plan provided and shall include the 6" Schedule 80 conduit per typical detail.
13. **Referencing to the utility details on sheet 4 it shows 5 – 2" schedule 80 conduits in the joint trench detail, 2 are labeled spares, 1 is labeled pedestrian light circuit, 1 is labeled street light circuit and 1 is labeled vendor/holiday light circuit. Looking at the electrical sheets E1 – E-7 I see a maximum of 2 – 2" schedule 80 conduits. Can you clarify how many 2" electrical conduits are required?** See attached electrical conduit schematic plan for clarification. The street side joint trench shall include electrical conduit per plan provided and shall include the 6" Schedule 80 conduit per typical detail.
14. **Bid Item #83 (Rev. #90) Geomembrane shows SQ. FT. on bid schedule, but SY in SP – 9.** Bid Schedule holds precedence.
15. Contractor shall utilize the attached Addendum 3 Bid schedule when submitting their bid documents.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

Bid Schedule: Las Colonias Business Park Phase I and IA

Contractor: _____

Addendum No. 3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.4	Cap top half of sewer in concrete per City Standard Detail GU-04	3.	EA	\$ _____	\$ _____
2	108.2	6" Irrigation Conduit (Schedule 80 PVC)	445.	LF	\$ _____	\$ _____
3	108.2	6" Water Pipe (C-900 PVC)	359.	LF	\$ _____	\$ _____
4	108.2	8" Water Pipe (C-900 PVC)	105.	LF	\$ _____	\$ _____
5	108.2	12" Water Pipe (C-900 PVC)	3,100.	LF	\$ _____	\$ _____
6	108.2	4" Sewer Service Pipe (SDR 35)	65.	LF	\$ _____	\$ _____
7	108.2	6" Sewer Service Pipe (SDR 35)	246.	LF	\$ _____	\$ _____
8	108.2	8" Gravity Sewer Pipe (SDR 35)	2,132.	LF	\$ _____	\$ _____
9	108.2	12" Storm Drain Pipe (RCP)	325.	LF	\$ _____	\$ _____
10	108.2	15" Storm Drain Pipe (RCP)	420.	LF	\$ _____	\$ _____
11	108.2	18" Storm Drain Pipe (RCP)	775.	LF	\$ _____	\$ _____
12	108.2	24" Storm Drain Pipe (RCP)	587.	LF	\$ _____	\$ _____
13	108.2	3' x 7' Reinforced Concrete Box Culvert - Cost to include connection to existing. See SP - 2.	465.	LF	\$ _____	\$ _____
14	108.2	24" Heavy Duty Flap Gate-HYDRO Gate or approved equal.	1.	EA	\$ _____	\$ _____
15	108.2	Import Trench Backfill	355.	CY	\$ _____	\$ _____
16	108.3	6" Gate Valve	14.	EA	\$ _____	\$ _____
17	108.3	8" Gate Valve	2.	EA	\$ _____	\$ _____
18	108.3	12" Gate Valve	6.	EA	\$ _____	\$ _____
19	108.3	6" x 6" Tee	1.	EA	\$ _____	\$ _____
20	108.3	12" x 6" Tee	14.	EA	\$ _____	\$ _____
21	108.3	12" x 8" Tee	2.	EA	\$ _____	\$ _____
22	108.3	12" x 12" Cross	1.	EA	\$ _____	\$ _____
23	108.3	8", 11.25° Elbow	1.	EA	\$ _____	\$ _____
24	108.3	12", 11.25° Elbow	2.	EA	\$ _____	\$ _____
25	108.3	12", 22.5° Elbow	4.	EA	\$ _____	\$ _____
26	108.3	12", 45° Elbow	2.	EA	\$ _____	\$ _____
27	108.3	6" End Cap/Plug	4.	EA	\$ _____	\$ _____
28	108.3	8" End Cap/Plug	2.	EA	\$ _____	\$ _____
29	108.3	12" End Cap/Plug	2.	EA	\$ _____	\$ _____

30	108.3	Fire Hydrant	10.	EA	\$ _____	\$ _____
31	108.3	12" x 8" Reducer	1.	EA	\$ _____	\$ _____
32	108.3	8" x 4" Sewer Service Tap	2.	EA	\$ _____	\$ _____
33	108.3	Sanitary Sewer Cleanout (2-way) to include appurtenances per City Standard Detail SS - 07.	6.	EA	\$ _____	\$ _____
34	108.4	2" Water Service Line (HDPE)	300.	LF	\$ _____	\$ _____
35	108.4	2" Water Service Assembly	6.	EA	\$ _____	\$ _____
36	108.5	Sanitary Sewer Basic Manhole (48" I.D.)	8.	EA	\$ _____	\$ _____
37	108.5	Manhole Barrel Section (D>5') (48" I.D.)	29.	VLF	\$ _____	\$ _____
38	108.5	Storm Sewer Basic Manhole (48" I.D.)	5.	EA	\$ _____	\$ _____
39	108.5	Irrigation Basic Manhole (30" I.D.)	1.	EA	\$ _____	\$ _____
40	108.5	Storm Sewer Basic Manhole (60" I.D.)	2.	EA	\$ _____	\$ _____
41	108.5	Connect to Existing Manhole (8" Pipe)	2.	EA	\$ _____	\$ _____
42	108.6	Outlet Structure - See "Water Quality Outlet Structure Pond 1" To include all appurtenances (complete in place).	1.	EA	\$ _____	\$ _____
43	108.6	Single Storm Drain Inlet (Vertical Curb)	3.	EA	\$ _____	\$ _____
44	108.6	Large Area Inlet	8.	EA	\$ _____	\$ _____
45	108.7	Granular Stabilization Material (Type B)	390.	TON	\$ _____	\$ _____
46	203	Excavation and Embankment - See SP - 4.	24,618.	CY	\$ _____	\$ _____
47	207	Topsoil (6" Thick)	7,780.	SY	\$ _____	\$ _____
48	207	Import Fill Material - Clean fill 12" Thick at water quality pond. See Phase IA, Sheet 43 for information.	1,468.	SY	\$ _____	\$ _____
49	208	Erosion Control (Complete in Place)	Lump	SUM		--- \$ _____
50	208	Stabilized Construction Entrance	2.	EA	\$ _____	\$ _____
51	209	Dust Abatement	70.	DAYS	\$ _____	\$ _____
52	304	Aggregate - River Cobble 1" -3" (6" Thick) to include approved fill below.	460.	SY	\$ _____	\$ _____
53	304	Subgrade Stabilization - Aggregate Base Course (Class 3) (12" Thick)	2,125.	SY	\$ _____	\$ _____

54	304	Aggregate Base Course (Class 6) (13" Thick)	8,500.	SY	\$ _____	\$ _____
55	306	Reconditioning (12" Deep)	8,500.	SY	\$ _____	\$ _____
56	401	Hot Mix Asphalt (5" thick) (Grading SX 75, Binder Grade 64-22)	2,362.	TON	\$ _____	\$ _____
57	420	Geosynthetics - Mirafi RS580i or approved equal	2,125.	SY	\$ _____	\$ _____
58	420	Geotextile Fabric (Non-Woven) Underlayment at Pond Liner.	11,000.	SQ. FT.	\$ _____	\$ _____
59	503	20" Steel Casing - See Plan Sheet 16 (Phase I) for details.	40.	LF	\$ _____	\$ _____
60	504	Concrete Wall (Class D) per M and S Standard M-601-20 (Wall Design Height 6'). Work shall include approximately 4,590 lbs. Reinforcing Steel (Epoxy Coated), Structural Concrete Coating (Exterior of wall), 200 cy Structural Backfill (Class 1) and any necessary appurtenances to complete work. Refer to Plan Sheet 20 for detail.	106.	CY	\$ _____	\$ _____
61	506	Riprap (d50=12" to include geogrid)	40.	SY	\$ _____	\$ _____
62	608	Concrete Curb (6" Wide, 14" High) to include 6" of Class 6 Aggregate Base Course.	3,770.	LF	\$ _____	\$ _____
63	608	Concrete Curb and Gutter (2' Wide) to include 6" of Class 6 Aggregate Base Course.	1,630.	LF	\$ _____	\$ _____
64	608	Concrete Curb and Spill Gutter (1.5' Wide) to include 6" of Class 6 Aggregate Base Course.	355.	LF	\$ _____	\$ _____
65	608	Concrete Sidewalk (6" Thick) to include 6" of Class 6 Aggregate Base Course.	3,200.	SY	\$ _____	\$ _____
66	608	Concrete Pavement (Parking) (8" Thick) to include 6" of Class 6 Aggregate Base Course.	6,450.	SY	\$ _____	\$ _____
67	608	Concrete Pavement (Crosswalk) (8" Thick) to include 6" of Class 6 Aggregate Base Course.	94.	SY	\$ _____	\$ _____
68	608	Concrete Drainage Pan (6' Wide) to include 6" of Class 6 Aggregate Base Course.	130.	LF	\$ _____	\$ _____

69	608	Concrete Corner Fillet to include 6" of Class 6 Aggregate Base Course.	195.	SY	\$ _____	\$ _____
70	608	Concrete Curb Ramp to include 6" of Class 6 Aggregate Base Course.	275.	SY	\$ _____	\$ _____
71	608	Detectable Warning (Cast Iron, Wet Set) (2'x2' - 3 per Ramp)	60.	EA	\$ _____	\$ _____
72	613	Joint Trench (Street Side) 2" Schedule 80 PVC. Refer to Utility Detail and SP - 8(Addendum No. 3) for details.	11,510.	LF	\$ _____	\$ _____
73	613	Joint Trench (Street Side) 6" Schedule 80 PVC. Refer to Utility Detail and SP -8 (Addendum No. 3) for details.	2,600.	LF	\$ _____	\$ _____
74	613	Joint Trench (Property Side) 6" C-900 Refer to Utility Detail and SP -8 (Addendum No. 3) for details.	4,450.	LF	\$ _____	\$ _____
75	613	Joint Trench (Property Side) 4" Schedule 80 PVC. Refer to Utility Detail and SP -8 (Addendum No. 3) for details.	2,555.	LF	\$ _____	\$ _____
76	613	Joint Trench (Property Side) 2" Schedule 80 PVC. Refer to Utility Detail and SP -8 (Addendum No. 3) for details.	2,555.	LF	\$ _____	\$ _____
77	613	Large Splice Box (Quasite) (3' - 2 5/8" x 2'-2") See Plan Sheet 5 for details.	11.	LF	\$ _____	\$ _____
78	613	Splice Box (Provided by Others-Century Link)	8.	EA	\$ _____	\$ _____
79	620	Sanitary Facility	1.	EA	\$ _____	\$ _____
80	625	Construction Surveying	Lump	SUM	---	\$ _____
81	626	Mobilization	Lump	SUM	---	\$ _____
82	627	Preformed Thermoplastic Pavement Marking (Left Turn)	Lump	SUM	---	\$ _____
83	627	Preformed Thermoplastic Pavement Marking (X-walk) (2' x 10' TYP.)	320.	EA	\$ _____	\$ _____
84	627	Preformed Plastic Pavement Marking (8" White Solid)	60.	LF	\$ _____	\$ _____
85	627	Preformed Thermoplastic Pavement Marking (4" White Solid)	5,797.	LF	\$ _____	\$ _____
86	627	Preformed Plastic Pavement Marking (24" White Solid)	26.	LF	\$ _____	\$ _____

87	630	Traffic Control (Complete in Place)	1.	LF		
88	630	Traffic Control Plan	Lump	SUM		
89	712	Geomembrane (40 Mil) - See SP - 9.	11,000.	SQ. FT.		
90		DELETE				
91	Electrical	Luminaire LED (Pedestrian) to include foundation.	39.	EA		
92	Electrical	Luminaire LED (Street) to include foundation.	7.	EA	\$ _____	\$ _____
93	Electrical	Electrical Pull Box (Type I) (11" x 18" x 12")	55.	EA	\$ _____	\$ _____
94	Electrical	2 Plex Receptacle (Complete in Place) to include appurtenances.	5.	EA	\$ _____	\$ _____
95	Electrical	Wiring (Complete in Place) to include disconnect at pump location.	Lump	SUM		--- \$ _____
96	Electrical	Transformer (Complete in Place) to include appurtenances.	2.	EA	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---		--- \$ <u>130,000.00</u>

Bid Amount: \$ _____

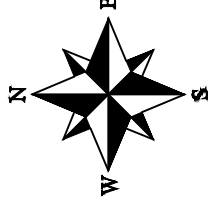
Bid Amount: _____ dollars

STREET LIGHTING GENERAL NOTES:

1. THIS PROJECT WILL BE BID FOR THE INSTALLATION OF THE PEDESTRIAN, AND STREET LIGHTING. BASE PROJECT: COMPLETE THE MAIN PATH PEDESTRIAN LIGHTING ALONG RIVERSIDE PARKWAY.
2. THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, AND POWER PANEL. REFERENCE SCHEDULE OF LIGHTING DEVICES AND SUMMARY OF QUANTITIES DRAWING E2.
3. LIGHT STANDARD & LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM VISUAL INTEREST LIGHTING LOCATED AT 3444 BRIGHTON BLVD, DENVER, CO 80216, 303.861.8448. THE ITEMS NUMBERS ARE AS FOLLOWS.
 - 4. TYPE SA - GL113-1-2-70LA-6345-NW-UNV-BLP-1F. PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 15' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-15-4-D1-BJP
 - 5. TYPE "SB" GL118-1-2-2230IA-9600-NW-UNV-1F-PC-RPA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-27-5-D1-BJP
 - 6. ALL PEDESTRIAN LIGHTING FIXTURES(TYPE "SA") INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH A ELECTRICAL CONTRACTOR SUPPLIED PHOTO CELL TO BE LOCATED IN EACH NEW MILBANK POWER PEDESTALS AND CONTROLS SWITCHED SECTION OF PANEL. MILL BANK PANEL PP1, 208V, 3PH, 320A WILL BE LOCATED AT THE EAST RESTROOMS, #CP3B5451XK22CSSL1. MILL BANK PANEL PP2, 208V, 3PH, 100A WILL BE LOCATED AT THE WEST RESTROOMS, #CP3B5151BB 22SL1. ORIENT PANEL SO THAT PHOTOCELL WILL BE ORIENTED NORTH, TYPICAL.
 - 7. ALL STREET LIGHTING FIXTURES(TYPE "SB") WILL EACH BE ORDERED WITH THEIR OWN PHOTOCELL INSTALLED IN THE FIXTURE, AND POWERED WITH NEW 208 VOLT 3PHASE MILBANK POWER PEDESTAL ON UN-SWITCHED SECTION.
 - 8. PROVIDE 2" PVC SCHEDULE 80 CONDUIT WITH PULL STRING TO FUTURE WEST PARKING LOT FROM PANEL PP2 AS SHOWN IN DRAWINGS.
 - 8. PROVIDE 2" PVC SCHEDULE 80 CONDUIT WITH PULL STRING TO FUTURE EAST PARKING LOT FROM PANEL PP1 AS SHOWN IN DRAWINGS.
 - 9. ELEVATIONS SHOWN IN THE SCHEDULE OF LIGHTING DEVICES ON THE PLANS SHEETS REPRESENT THE DESIGN FINISHED GRADE OR THE EXISTING GROUND FINISHED GRADE. THESE ELEVATIONS DO NOT INDICATE THE TOP ELEVATION OF THE LUMINARIES (PEDESTRIAN) FOUNDATION. PEDESTRIAN LIGHTING FOUNDATIONS SHALL BE CONSTRUCTED PER THE MANUFACTURERS RECOMMENDATIONS.
 - 10. PULL BOXES FOR LIGHT STANDARD (PEDESTRIAN AND STREET) WILL BE TYPE 1 CDOT PULL BOXES 11"X18"X12".
 - 11. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
 - 12. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL.
 - 13. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
 - 14. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
 - 15. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
 - 16. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

PP1-X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)

- HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER-11"X18"X12"-TYPE 1.
- UNDER GROUND BURIED RACEWAY (2#6 THWN CU AND 1#8 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 2' DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION.
- ▲ INSTALL SINGLE ARM PEDESTRIAN STANDARD OR STREET STANDARD AS SPECIFIED.



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3. LIGHT STANDARD & LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM VISUAL INTEREST LIGHTING LOCATED AT 3444 BRIGHTON BLVD, DENVER, CO 80216, 303.861.8448. THE ITEMS NUMBERS ARE AS FOLLOWS.
 - 4. TYPE SA - GL113-1-2-70LA-6345-NW-UNV-BLP-1F. PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 15' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-15-4-D1-BJP
 - 5. TYPE "SB" GL118-1-2-2230IA-9600-NW-UNV-1F-PC-RPA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. POLE #FRS-27-5-D1-BJP
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 - 13. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
 - 14. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
 - 15. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
 - 16. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.



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REVISION	DATE	DESCRIPTION
REVISION Δ	2-12-18	CLARIFIED "SA" AND PEDESTAL
REVISION Δ	2-12-18	CLARIFIED FEED
REVISION Δ		
REVISION Δ		

SCALE:	PLAN & PROFILE
0' = 1" HORIZONTAL	0' = 1" VERTICAL

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LAS COLONIAS BUSINESS PARK PHASE 1A
COMPOSITE UTILITY PLAN

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Schedule of Lighting Devices

DESCRIPTION	LUMINAIRE LED PEDESTRIAN (70 WATT) TYPE SA			LUMINAIRE LED STREET (250 WATT) TYPE SB			NOTES
	EACH	PLAN	SPECIAL	EACH	PLAN	SPECIAL	
E3	SA-1	31570.70	94784.20	1	1		1
E3	SB-1	31510.60	94820.50	1	1		1
E3	SA-2	31504.10	94874.47	1	1		1
E3	SA-3	31509.82	94928.43	1	1		1
E3	SB-2	31521.39	95002.57	1	1		1
E3	SA-4	31536.02	95053.20	1	1		1
E3	SA-5	31551.07	95117.78	1	1		1
E4	SA-6	31557.48	95184.76	1	1		1
E4	SA-7	31554.85	95251.99	1	1		1
E4	SA-8	31543.22	95318.26	1	1		1
E4	SA-9	31522.80	95382.37	1	1		1
E4	SA-10	31496.29	95442.70	1	1		1
E4	SA-11	31478.52	95517.81	1	1		1
E4	SA-12	31481.33	95594.95	1	1		1
E4	SB-3	31494.79	95645.02	1	1		1
E4	SA-13	31532.69	95721.87	1	1		1
E4	SA-14	31534.96	95790.40	1	1		1
E5	SA-15	31564.50	95839.59	1	1		1
E5	SA-16	31568.38	95891.78	1	1		1
E5	SA-17	31589.65	95950.30	1	1		1
E5	SA-18	31612.01	96005.46	1	1		1
E5	SA-19	31648.97	96054.14	1	1		1
E5	SA-20	31679.27	96128.24	1	1		1
E5	SA-21	31724.41	96188.33	1	1		1
E6	SA-22	31788.91	96240.63	1	1		1
E6	SA-23	31840.48	96300.21	1	1		1
E6	SA-24	31904.80	96344.88	1	1		1
E6	SA-25	31956.14	96373.93	1	1		1
E6	SA-26	32010.19	96386.64	1	1		1
E6	SA-27	32059.31	96417.56	1	1		1
E6	SA-28	32119.98	96435.11	1	1		1
E6	SA-29	32173.20	96434.88	1	1		1
E7	SA-30	32235.36	96457.20	1	1		1
E7	SA-31	32298.02	96488.34	1	1		1
E7	SA-32	32353.07	96474.10	1	1		1
E7	SA-33	32385.08	96537.71	1	1		1
E7	SB-4	32437.73	96584.97	1	1		1
E7	SA-34	32425.99	96669.85	1	1		1
E7	SB-5	32467.43	96485.56	1	1		1
E7	SB-6	32436.81	96392.04	1	1		1
E6	SA-35	32169.39	96385.91	1	1		1
E6	SA-36	32025.69	96349.38	1	1		1
E6	SA-37	31806.87	96202.69	1	1		1
E5	SA-38	31676.78	96023.19	1	1		1
E5	SA-39	31576.57	95711.92	1	1		1
E3	SB-7	31569.32	94859.79	1	1		1
TABLE TOTALS				39	46		7

A

STREET LIGHTING GENERAL NOTES:

- 1. EACH LIGHT TO HAVE A PULL BOX. REFERENCE ELECTRICAL SHEETS.



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SCHEDULE OF LIGHTING DEVICES NOTES:
1. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK

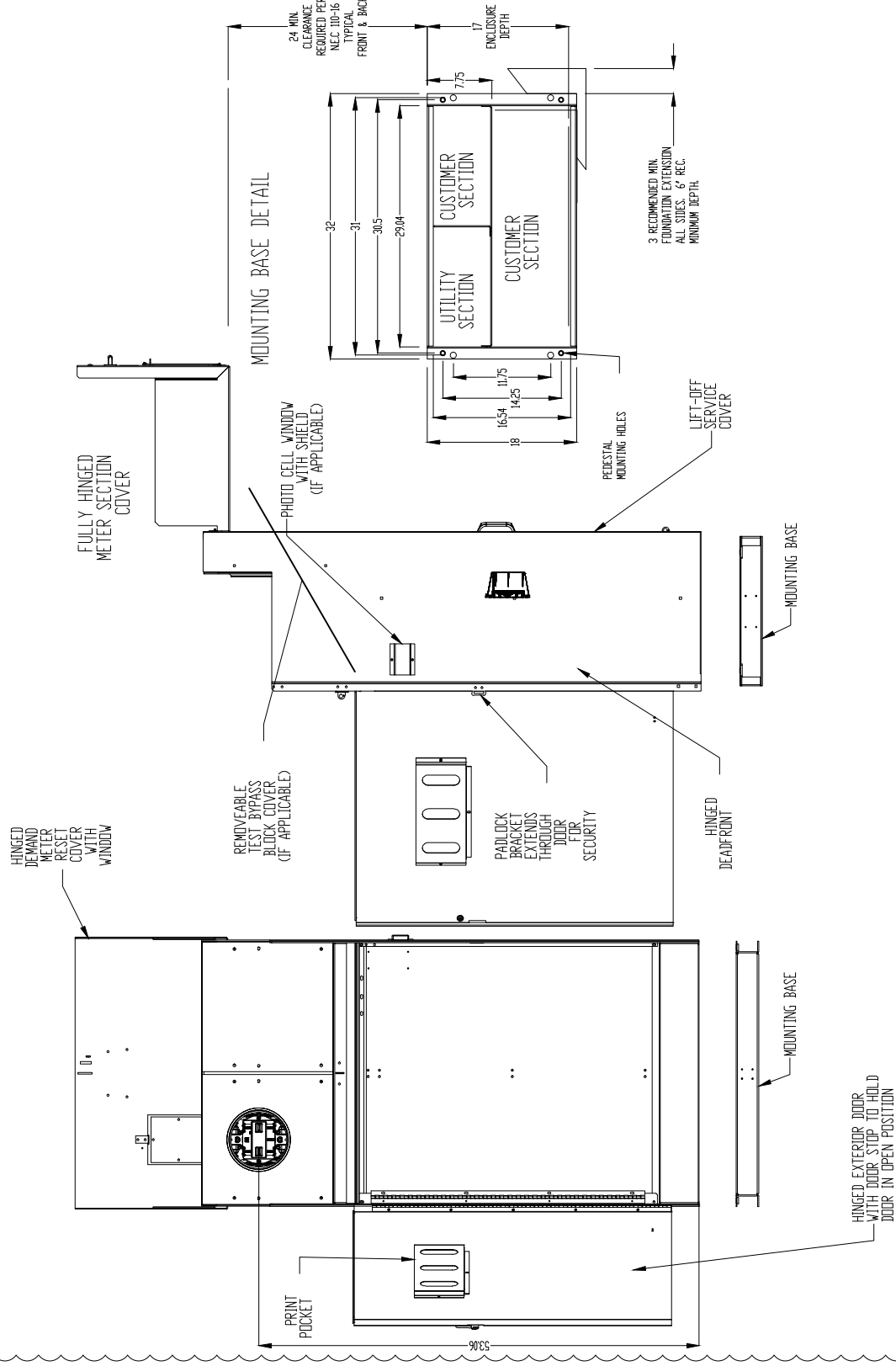
REVISION Δ	CLARIFIED FOUNDATION NOTE	DATE	2-12-18
REVISION Δ		DATE	
REVISION Δ		DATE	
REVISION Δ		DATE	

DRAWN BY	AJM	DATE	1/29/18
DESIGNED BY	AJM	DATE	1/29/18
CHECKED BY	AJM	DATE	1/29/18
APPROVED BY	JT	DATE	1/29/18

SCALES: PLAN & PROFILE: 1"=100'-0" HORIZONTAL, 1"=10'-0" VERTICAL

32" COMMERCIAL PEDESTAL

Δ

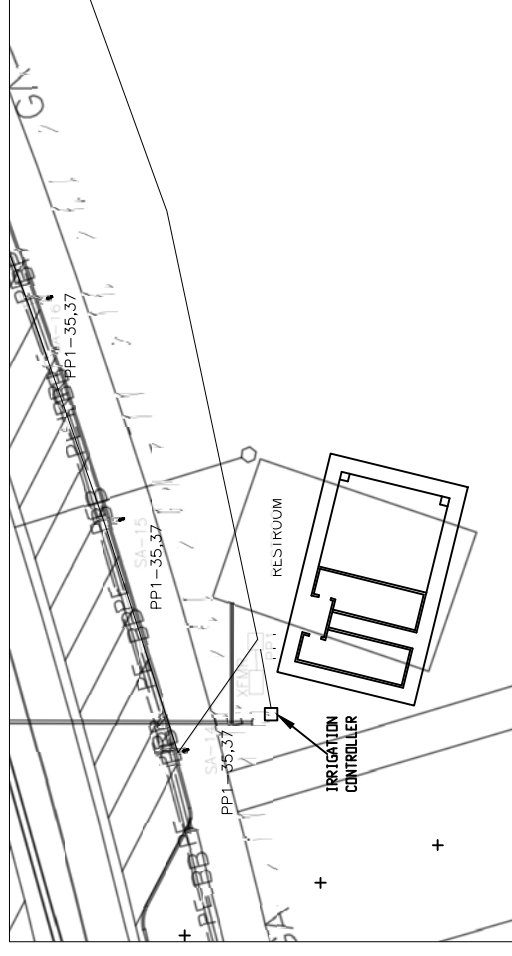


B TYPICAL 3-PHASE POWER PEDESTAL/LIGHTING CONTROL CENTER PLAN

1 NOT TO SCALE

NOTES

- COORDINATE EXACT INSTALLATION REQUIREMENTS WITH PROVIDER PRIOR TO ROUGH-IN OR TRENCHING. CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
- CONSTRUCTION SHALL BE NEMA 3R, 12 GA. A60 STEEL POWDER COATED MINT GREEN WITH PHOTO ELECTRIC CELL IN SERVICE CABINET. ELECTRICAL CONTRACTOR TO PROVIDE PHOTOCELL PLANS.
- VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
- SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY. WHEN THE SERVING UTILITY PROVIDES BOTH METERED AND UNMETERED CIRCUITS, A SEPARATE BUS SHALL BE PROVIDED FOR EACH CIRCUIT. THE METER AREA SHALL HAVE A SEALING, LOCKABLE, RAIN TIGHT COVER THAT CAN BE REMOVED WITHOUT THE USE OF TOOLS.
- SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
- THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE A MINIMUM DIAMETER OF 11mm.
- ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER OR ALUMINUM CONDUCTORS SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINAL LUGS SHALL BE COPPER OR TIN-PLATED ALUMINUM. SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 125A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:
 - INCOMING TERMINALS (LANDING LUGS)
 - NEUTRAL LUGS
 - SOLID NEUTRAL TERMINAL STRIP.
 - TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE.
- AT LEAST 4??? STANDARD SINGLE POLE 208V AND 1??? SINGLE POLE 12?? CIRCUIT BREAKER SPACES (20mm NOMINAL) SHALL BE PROVIDED FOR BRANCH CIRCUITS. CIRCUIT BREAKER INTERIORS SHALL BE COPPER. INTERIORS SHALL ACCEPT PLUG-IN OR CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS.
- PLUG-IN CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN THE VERTICAL POSITION.
- FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
- PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
- A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
- FOUNDATION SHALL EXTEND 50mm MINIMUM BEYOND EDGE OF ENCLOSURE.
- PANEL WILL ADHERE TO XCEL ENERGY REQUIREMENT FOR COLD SEQUENCE DISCONNECTION.



B TYPICAL LIGHTING CONTROL CENTER PP1 AND POWER PEDESTAL(SPECIAL) LOCATION PLAN

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Δ	1/29/18	CLARIFIED JPH PANEL
Δ	2-12-18	
Δ	1/29/18	
Δ	1/29/18	

SCALE:	DATE	DATE
PLAN & PROFILE	1/29/18	1/29/18
HORIZONTAL	1/29/18	1/29/18
VERTICAL	1/29/18	1/29/18

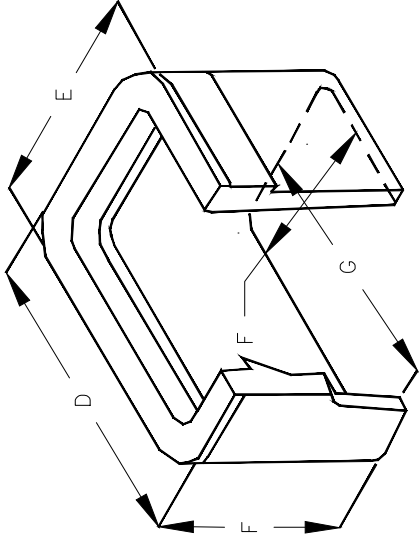
SCALE:	DATE	DATE
PLAN & PROFILE	1/29/18	1/29/18
HORIZONTAL	1/29/18	1/29/18
VERTICAL	1/29/18	1/29/18

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COMPOSITE UTILITY PLAN

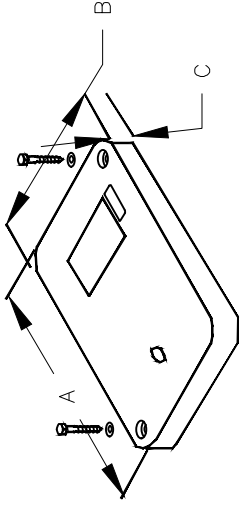
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of 12



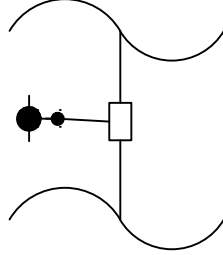
- A 18-1/8"
- B 11-1/4"
- C 1-1/4"
- D 20-1/2"
- E 13-3/8"
- F 12"
- G 15-3/4"
- H 8-7/8"

C UTILITY BOX DETAIL

1 NOT TO SCALE

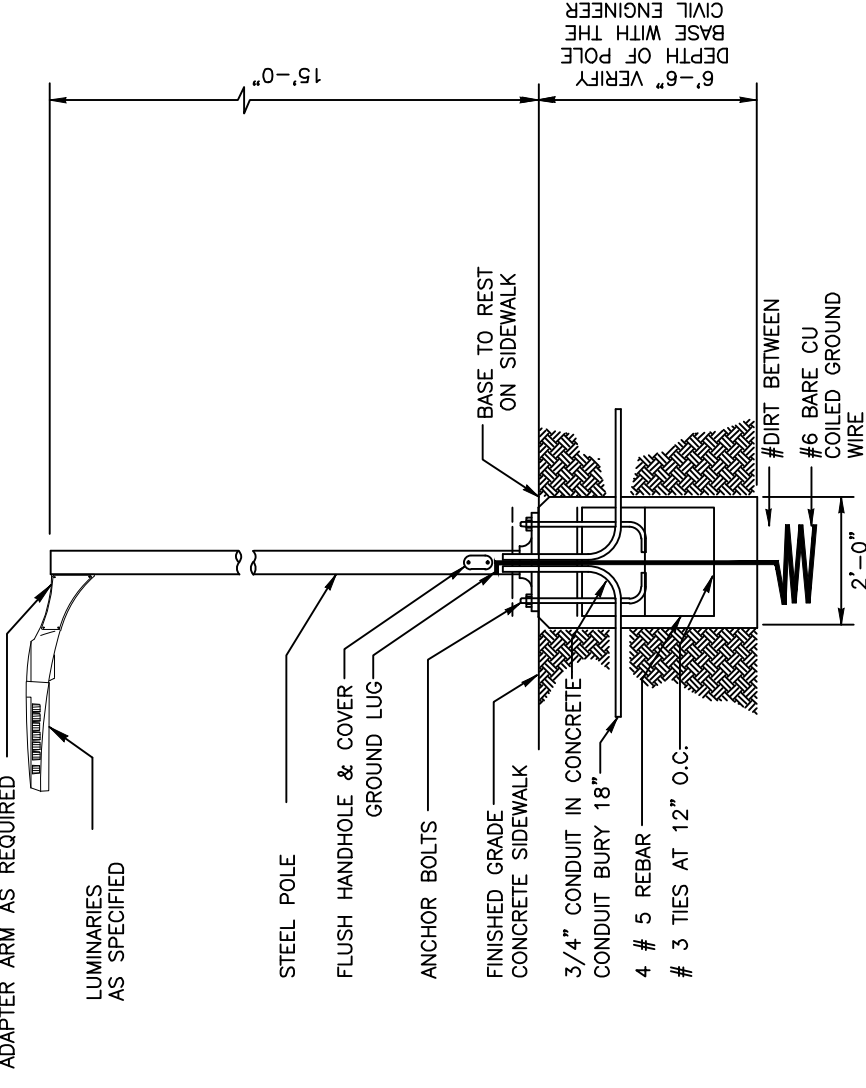


1. PULL BOXES, PULL BOX COVERS AND EXTENSIONS SHALL BE MADE OF FIBERGLASS REINFORCED POLYMER CONCRETE. PULL BOXES SHALL BE VERIFIED BY A 3RD PARTY NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS MEETING ALL TEST PROVISIONS OF THE LATEST ANSIS/CTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING. CERTIFICATION DOCUMENTS SHALL BE SUBMITTED WITH MATERIALS SUBMITTALS. THE PULL BOX SHALL HAVE A DETACHABLE COVER WITH A SKID RESISTANT SURFACE AND HAVE THE WORDS ELECTRICAL CAST INTO THE SURFACE. PAINTING THE WORDS SHALL NOT BE ACCEPTED. MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX AND THE ON THE UNDER SIDE OF THE COVER. THE COVER SHALL BE ATTACHED TO THE PULL BOX BODY BY MEANS OF A MINIMUM 3/8" - 7 UNIFIED NATIONAL COURSE (UNC) STAINLESS STEEL PENTA HEAD BOLTS AND SHALL HAVE TWO LIFT SLOTS TO AID IN THE REMOVAL OF THE LID.
2. PULL SLOTS SHALL BE RATED FOR A MINIMUM PULL OUT OF 3,000 POUNDS. MAGNESIUM CHLORIDE TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST ANSIS/CTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING.
3. PROVIDE AT LEAST 6 INCHES OF PEA GRAVEL MEASURED FROM BOTTOM OF PULL BOX FOR DRAINAGE. PEA GRAVEL IS INCLUDED IN PULL BOX PAY ITEM.



C UTILITY BOX CONNECTION DETAIL

2 NOT TO SCALE



TYPE SA LIGHT DETAIL

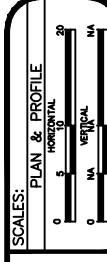
NOT TO SCALE

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO ORDER ALL REQUIRED HARDWARE FOR MOUNTING OF EACH LUMINARIES.
2. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE FOR POLE LUMINARIES WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 5 FT. VERIFY WITH CIVIL ENGINEER.
3. ELECTRICAL CONTRACTOR TO VERIFY THAT ALL FIXTURES TO COMPLY WITH LIGHT TRESPASS AND AND DARK SKY CODES.
4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
5. VERIFY REQUIRED VOLTAGE OF FOR EACH LUMINARIES WITH AVAILABLE VOLTAGES PRIOR TO ORDERING.

TYPE	MANUFACTURER MODEL NUMBER	APPROVAL	VOLTAGE MOUNTING # OF LAMPS	LUMINAIRE SCHEDULE	
				BALLAST	DESCRIPTION
SA	PHILIPS GARDCO GL13-1-2-70L-A-6435-NW-208-BLP-LF	OWNER REQUESTED	208 POLE	ELECTRONIC LED	PEDESTRIAN LUMINAIRE, ARM MOUNTED, LED, CUTOFF, ORDER ROUND STEEL POLE SO THAT LAMP HEIGHT IS 15' AFG MEASURED AT BOTTOM OF LUMINAIRE. COLOR OF POLE AND ARM TO MATCH, BOTH BLACK. POLE # RS-15-4-D1-BLP
SB	PHILIPS GARDCO GL18-1-2-230L-A-9680-NW-208-BLP-LF P-C-RP-A2	OWNER REQUESTED	208 POLE	ELECTRONIC LED	STREET SIDE LUMINAIRE, ARM MOUNTED, LED, CUTOFF. ROUND STEEL POLE TO BE 27' SO THAT TOTAL HEIGHT AFG TO BOTTOM OF FIXTURE IS 27'. COLOR OF POLE AND ARM TO MATCH, BOTH BLACK. POLE # FRS-27-S-D1-BLP

REVISION Δ	DATE	DRAWN BY	DATE
REVISION Δ	2-12-18	AJM	1/29/18
REVISION Δ		DESIGNED BY	1/29/18
REVISION Δ		CHECKED BY	1/29/18
REVISION Δ		APPROVED BY	1/29/18



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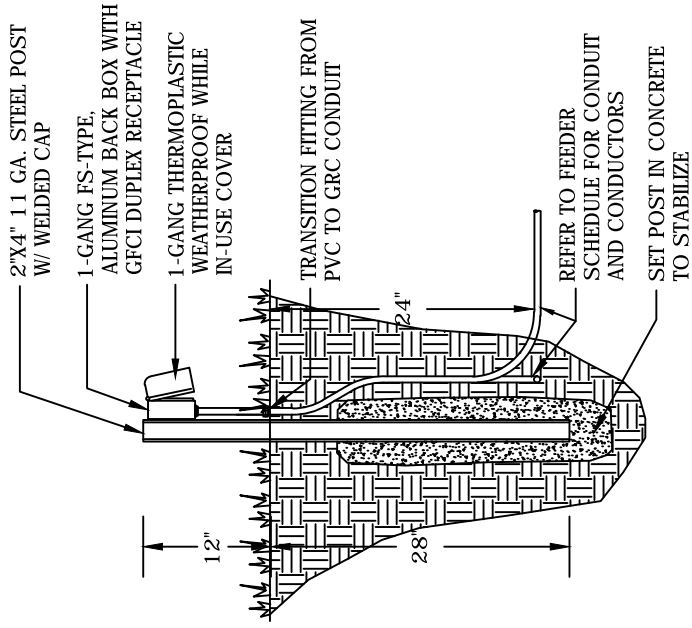
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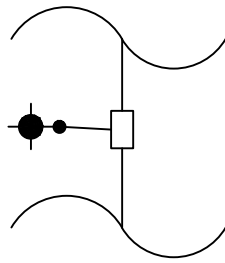


NOTES

- 2-PLEX RECEPTACLE (WITH BOX AND COVER) PAY ITEM 613-50132.

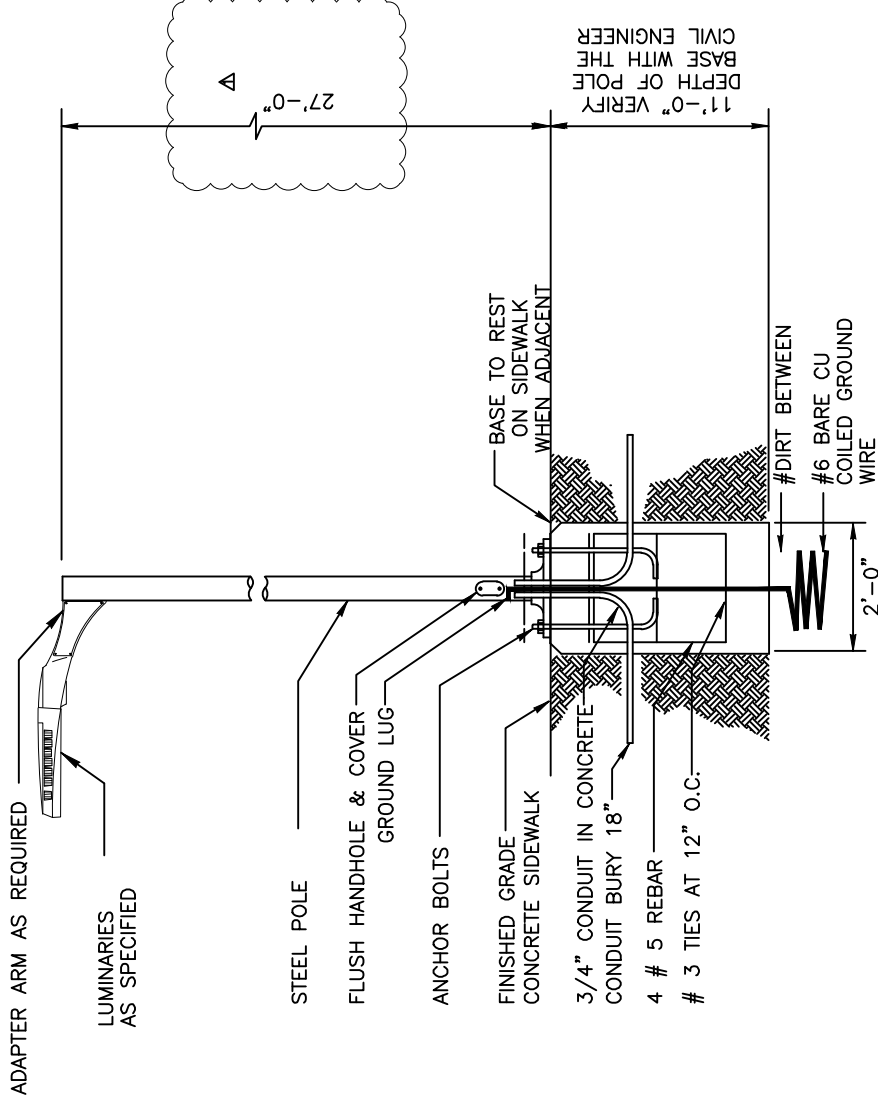
2-PLEX RECEPTACLE (WITH BOX AND COVER) DETAIL

1 NOT TO SCALE



UTILITY BOX CONNECTION DETAIL

2 NOT TO SCALE



TYPE SB LIGHT DETAIL

NOT TO SCALE

GENERAL NOTES:

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- VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE FOR POLE LUMINARIES WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 5 FT. VERIFY WITH CIVIL ENGINEER.
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- VERIFY REQUIRED VOLTAGE OF FOR EACH LUMINARIES WITH AVAILABLE VOLTAGES PRIOR TO ORDERING.



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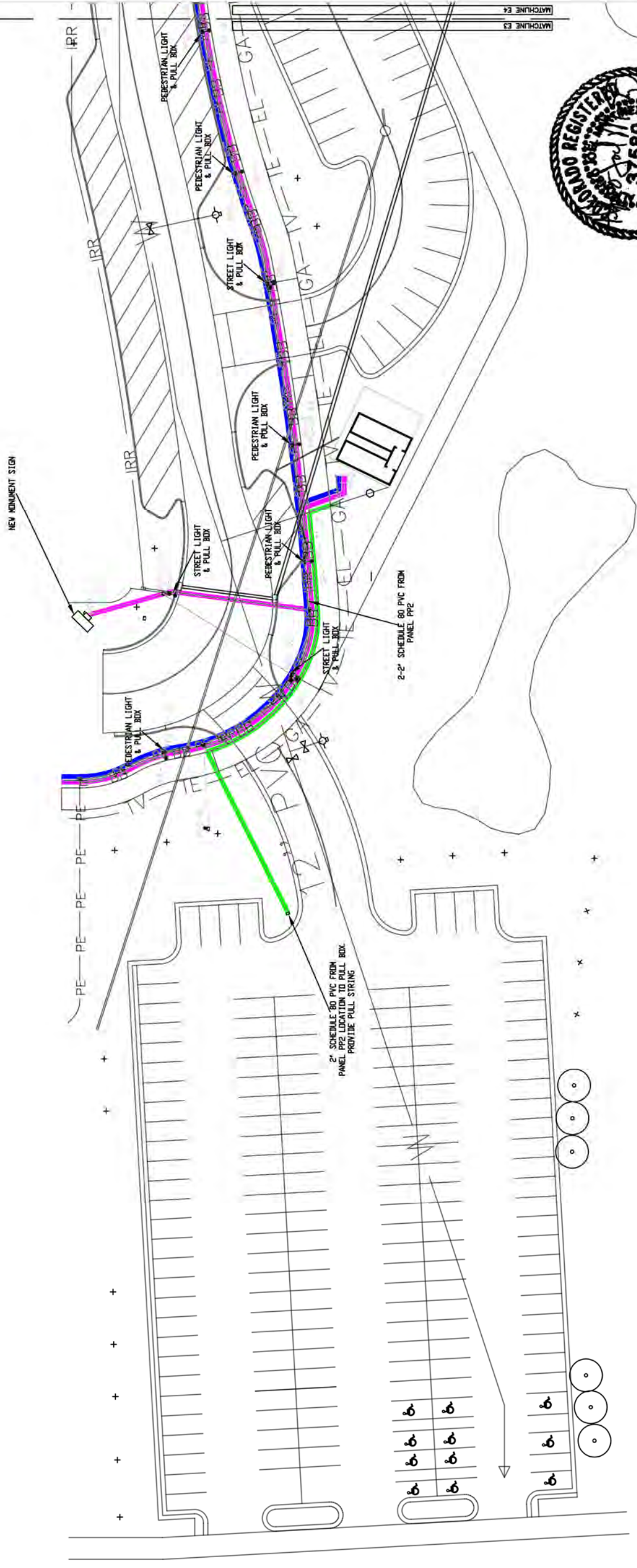
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LAS COLONIAS BUSINESS PARK PHASE 1A
COMPOSITE UTILITY PLAN

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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION Δ	CLARIFIED "SR" HEIGHT	2-12-18	AJM	1/29/18	PLAN & PROFILE
REVISION Δ			AJM	1/29/18	HORIZONTAL
REVISION Δ			AJM	1/29/18	VERTICAL
REVISION Δ			JT	1/29/18	

ELECTRICAL CONDUIT LEGEND	
PEDESTRIAN, STREET & VENDOR CIRCUIT	3540 FEET
RECIRCULATION PUMP POWER SUPPLY	390 FEET
PP1/PP2 POWER SUPPLY TO FUTURE PARKING LOTS	1680 FEET
2" EXTRA ELECTRIC CONDUITS (SCHD. 80 PVC)	5900 FEET



LIGHTING/ELECTRICAL PLAN
SCALE: 1"=50'



- GENERAL NOTES:
- POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
 - LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
 - PROVIDE 2-#6 THWN + #8GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1		1/29/18	AJM	1/29/18
REVISION 2		1/29/18	AJM	1/29/18
REVISION 3		1/29/18	AJM	1/29/18
REVISION 4		1/29/18	JT	1/29/18



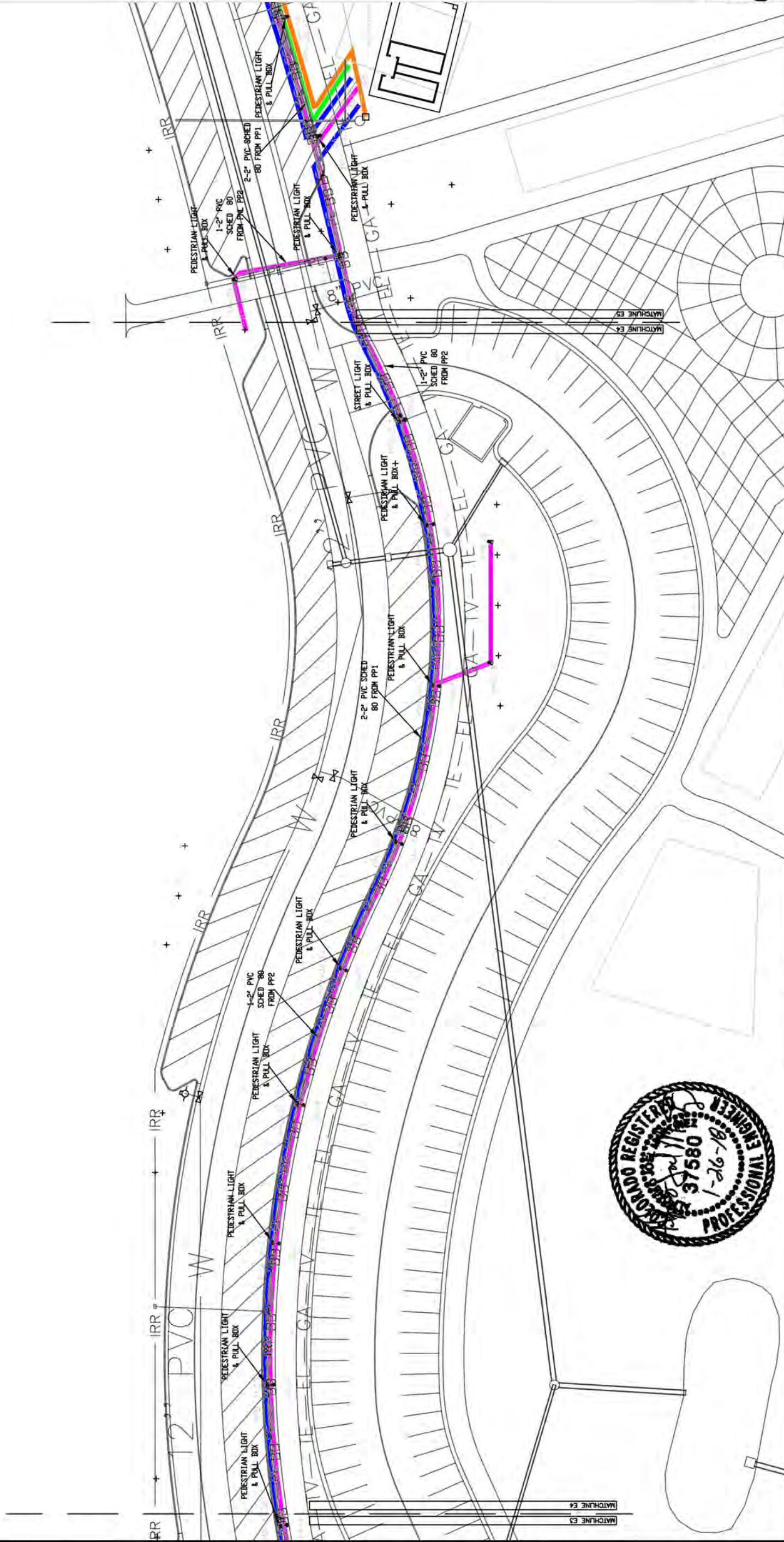
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LAS COLONIAS BUSINESS PARK PHASE 1A
ELECTRICAL CONDUIT SCHEMATIC SUPPLEMENTAL

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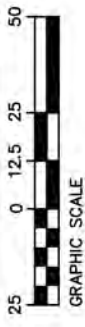


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GENERAL NOTES:

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2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
3. PROVIDE 2-#6 THWN + #8GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.



LIGHTING/ELECTRICAL PLAN

SCALE: 1"=50'

NORTH

REVISION	DESCRIPTION	DATE	BY	DATE
REVISION 1		1/29/18	AJM	1/29/18
REVISION 2		1/29/18	AJM	1/29/18
REVISION 3		1/29/18	AJM	1/29/18
REVISION 4		1/29/18	JT	1/29/18



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LAS COLONIAS BUSINESS PARK PHASE 1A
ELECTRICAL CONDUIT SCHEMATIC SUPPLEMENTAL

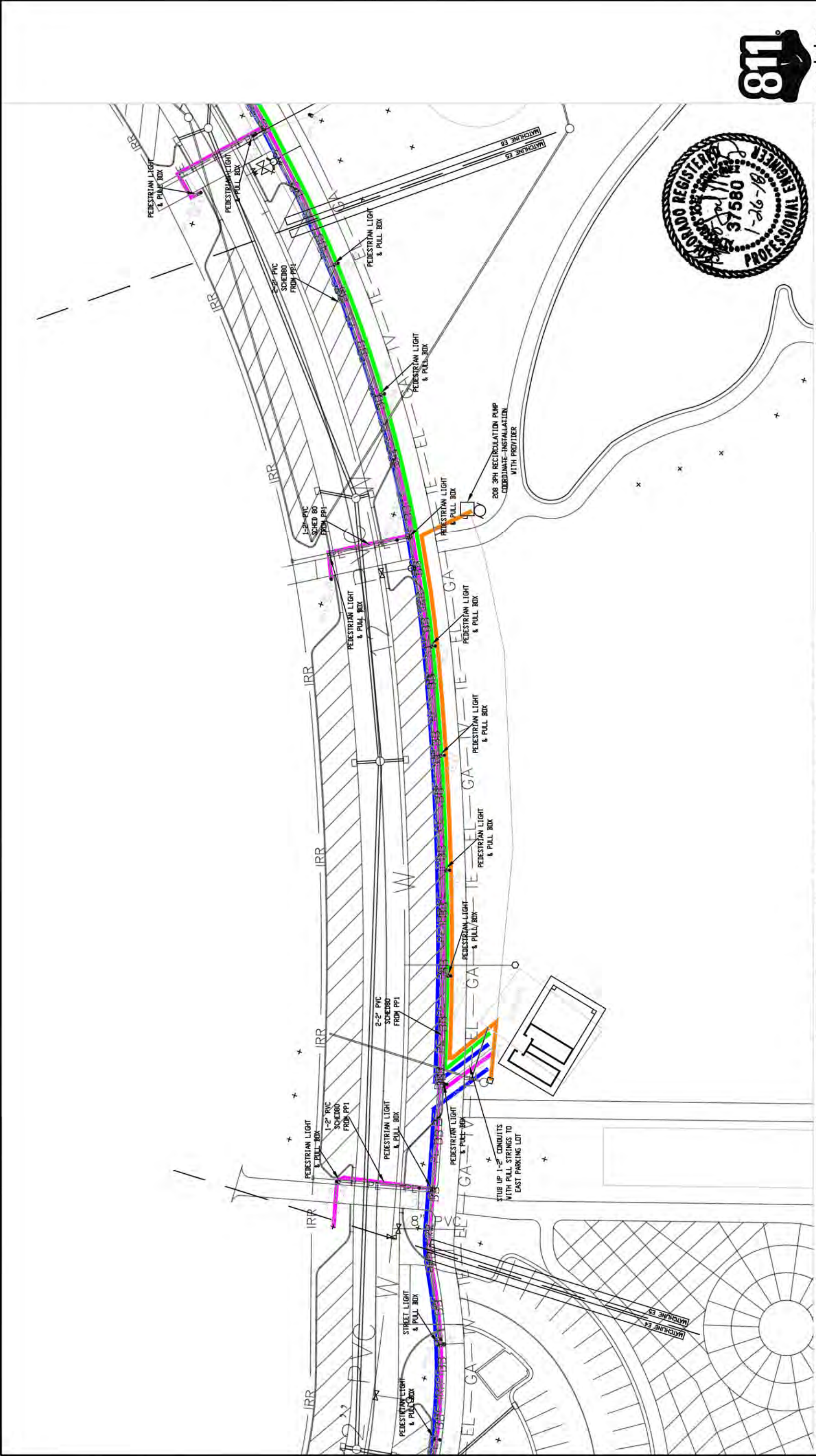
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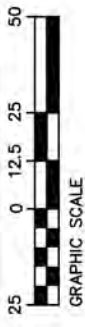
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ		1/29/18	AJM	1/29/18
REVISION Δ		1/29/18	AJM	1/29/18
REVISION Δ		1/29/18	AJM	1/29/18
REVISION Δ		1/29/18	JT	1/29/18



LIGHTING/ELECTRICAL PLAN

SCALE: 1"=50'

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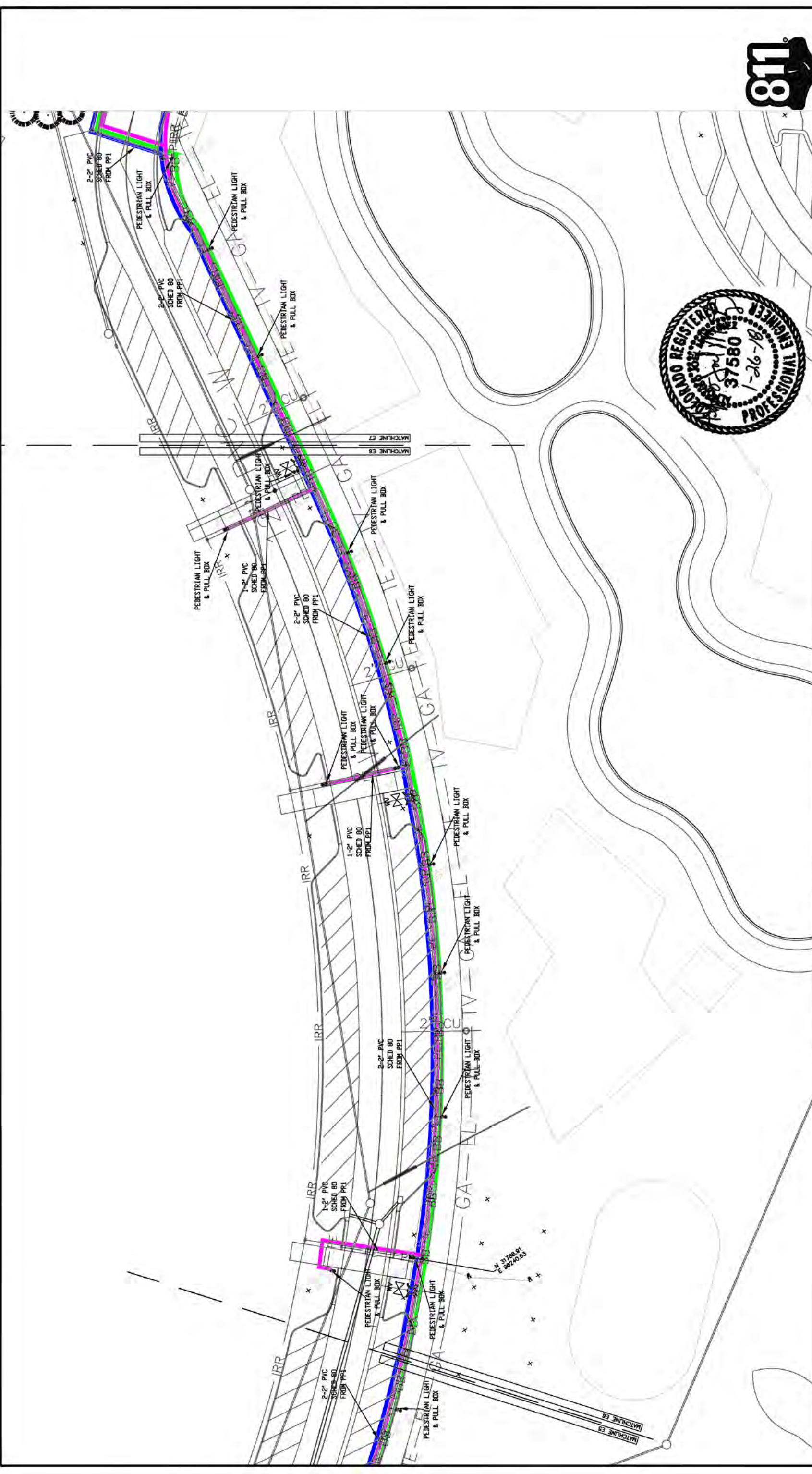
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ		1/29/18	AJM	1/29/18
REVISION Δ		1/29/18	AJM	1/29/18
REVISION Δ		1/29/18	JT	1/29/18



PUBLIC WORKS
ENGINEERING DIVISION

LAS COLONIAS BUSINESS PARK PHASE 1A
ELECTRICAL CONDUIT SCHEMATIC SUPPLEMENTAL

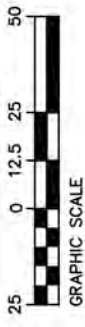
E5
of 12



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
3. PROVIDE 2-#6 THWN + #8GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1		1/29/18	AJM	1/29/18
REVISION 2		1/29/18	AJM	1/29/18
REVISION 3		1/29/18	AJM	1/29/18
REVISION 4		1/29/18	JT	1/29/18



LIGHTING/ELECTRICAL PLAN
SCALE: 1"=50'



Know what's below.
Call before you dig.



ACM CONSULTING
ELECTRICAL DESIGN, CONSULTING
ENGINEERS: PH: 970-245-7292
PO 3211 GRAND JCT., CO 81502
EMAIL: jaelm@ACMengr.com

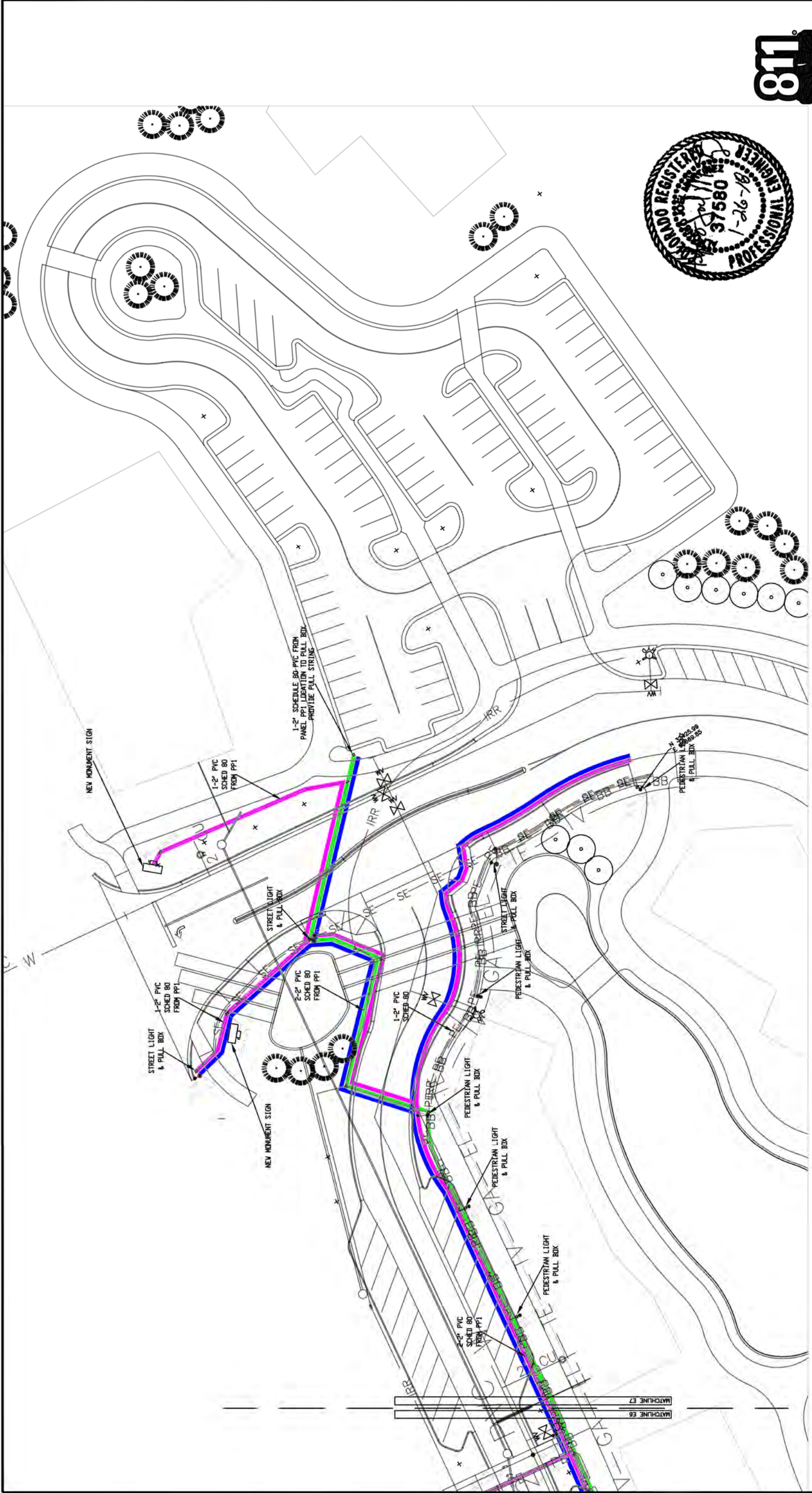
SCALES:

PLAN & PROFILE	1/29/18
HORIZONTAL	1/29/18
VERTICAL	1/29/18



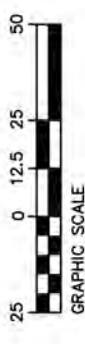
PUBLIC WORKS
ENGINEERING DIVISION

LAS COLONIAS BUSINESS PARK PHASE 1A
ELECTRICAL CONDUIT SCHEMATIC SUPPLEMENTAL



GENERAL NOTES:

1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
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LIGHTING/ELECTRICAL PLAN

SCALE: 1"=50'



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1		1/29/18	AJM	1/29/18
REVISION 2		1/29/18	AJM	1/29/18
REVISION 3		1/29/18	AJM	1/29/18

PLAN & PROFILE	SCALE
PLAN	1"=50'
PROFILE	1"=10'

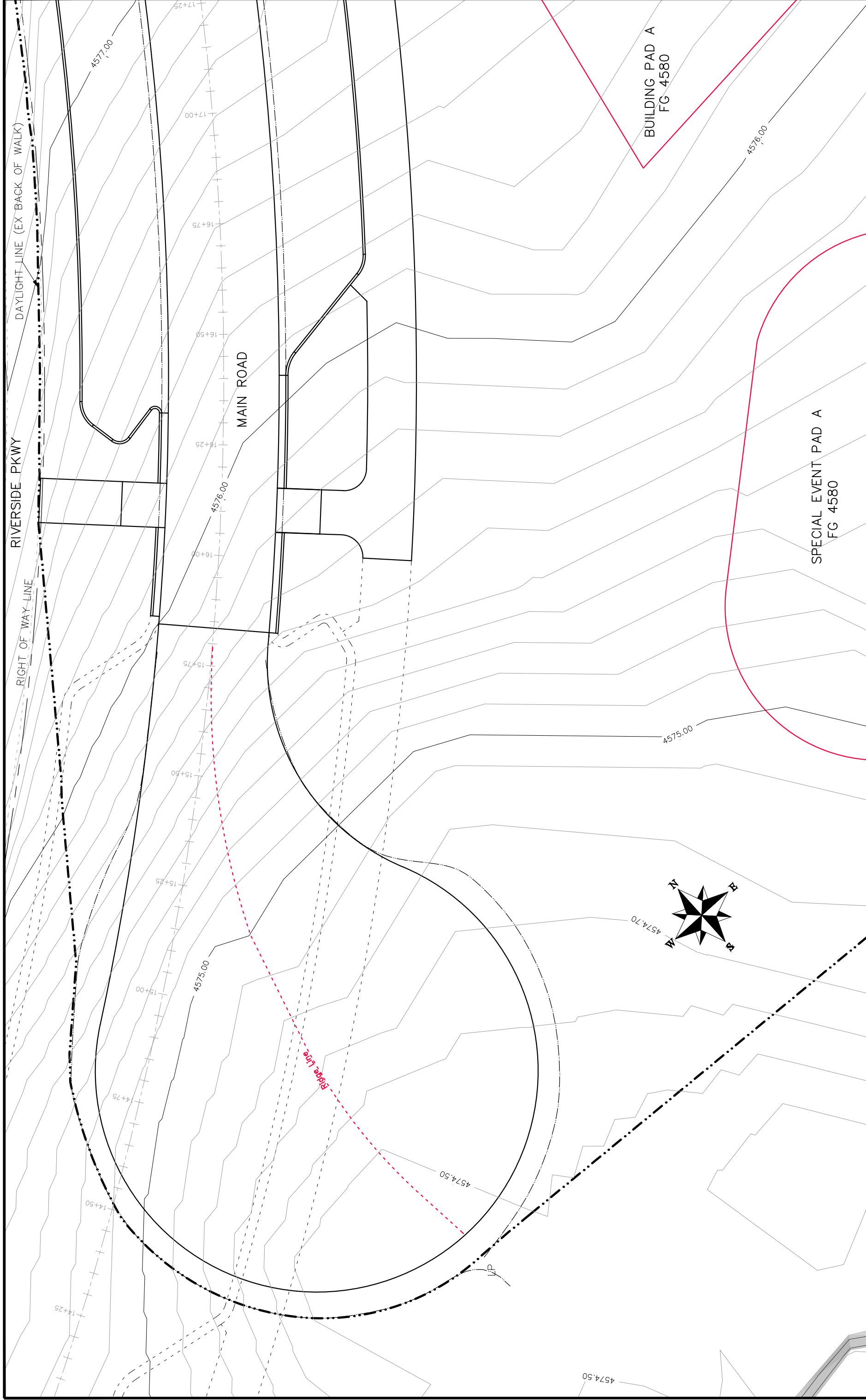


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LAS COLONIAS BUSINESS PARK PHASE 1A
ELECTRICAL CONDUIT SCHEMATIC SUPPLEMENTAL



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ELECTRICAL DESIGN, CONSULTING
ENGINEERS: PH: 970-245-7292
PO 3211 GRAND JCT., CO 81502
EMAIL: joelm@ACMengra.com

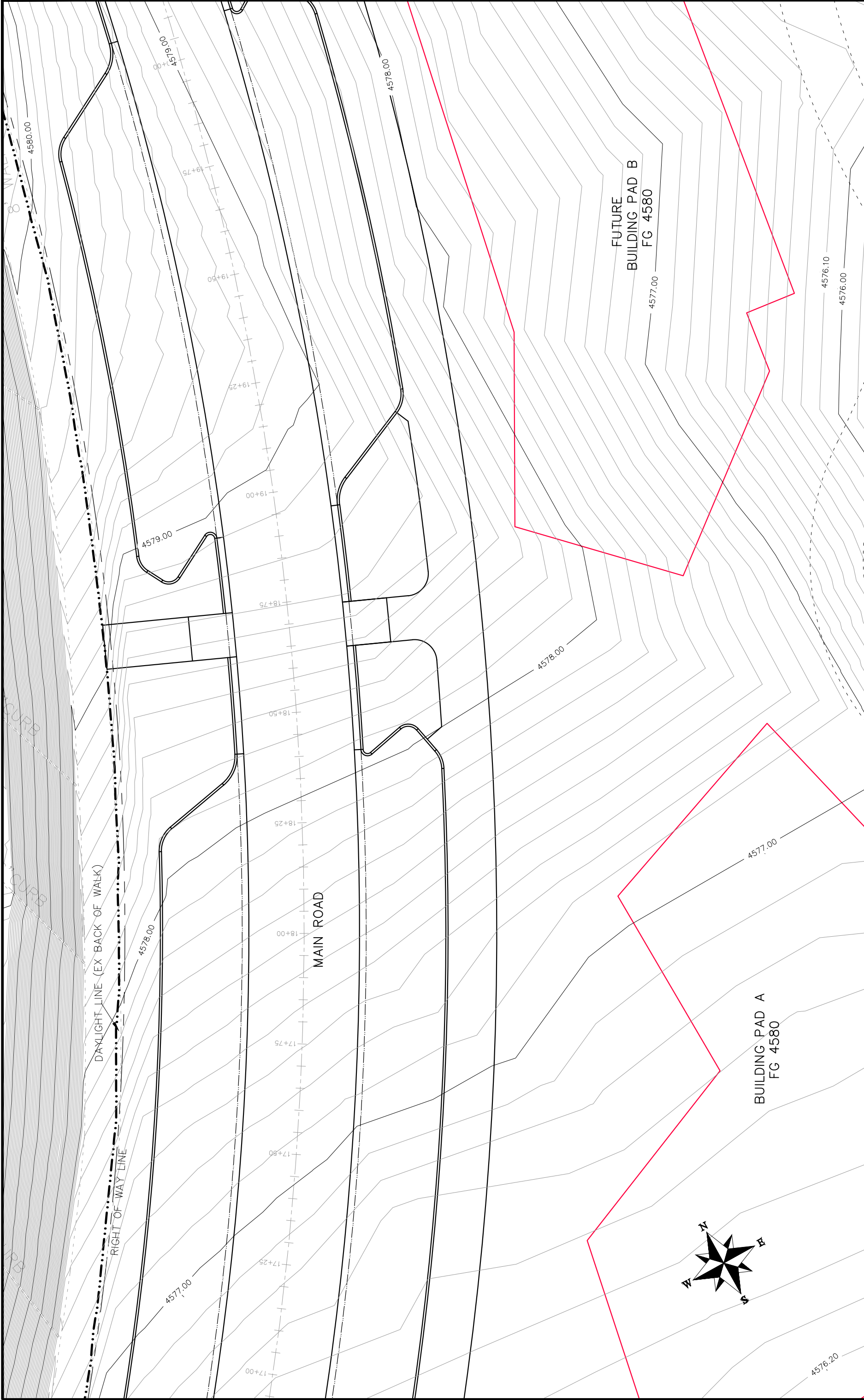


REVISION Δ REV1_INT REVISION Δ REV2_INT REVISION Δ REV3_INT REVISION Δ REV4_INT		DATE REV1_DATE REV2_DATE REV3_DATE REV4_DATE		DRAWN BY JCS DESIGNED BY JCS CHECKED BY TCP APPROVED BY TOP		DATE 2017 2017 2017 2017	
DESCRIPTION PLAN & PROFILE HORIZONTAL 3 NA NA NA NA		SCALE: PLAN & PROFILE HORIZONTAL 3 NA NA NA NA		SCALE: PLAN & PROFILE HORIZONTAL 3 NA NA NA NA		SCALE: PLAN & PROFILE HORIZONTAL 3 NA NA NA NA	



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ENGINEERING DIVISION**

**Las Colonias Business Park
20th Scale Tenth Foot EX Contour Plan**



REVISION	DATE	DESCRIPTION
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2	2017	REV2_INT
3	2017	REV3_INT
4	2017	REV4_INT

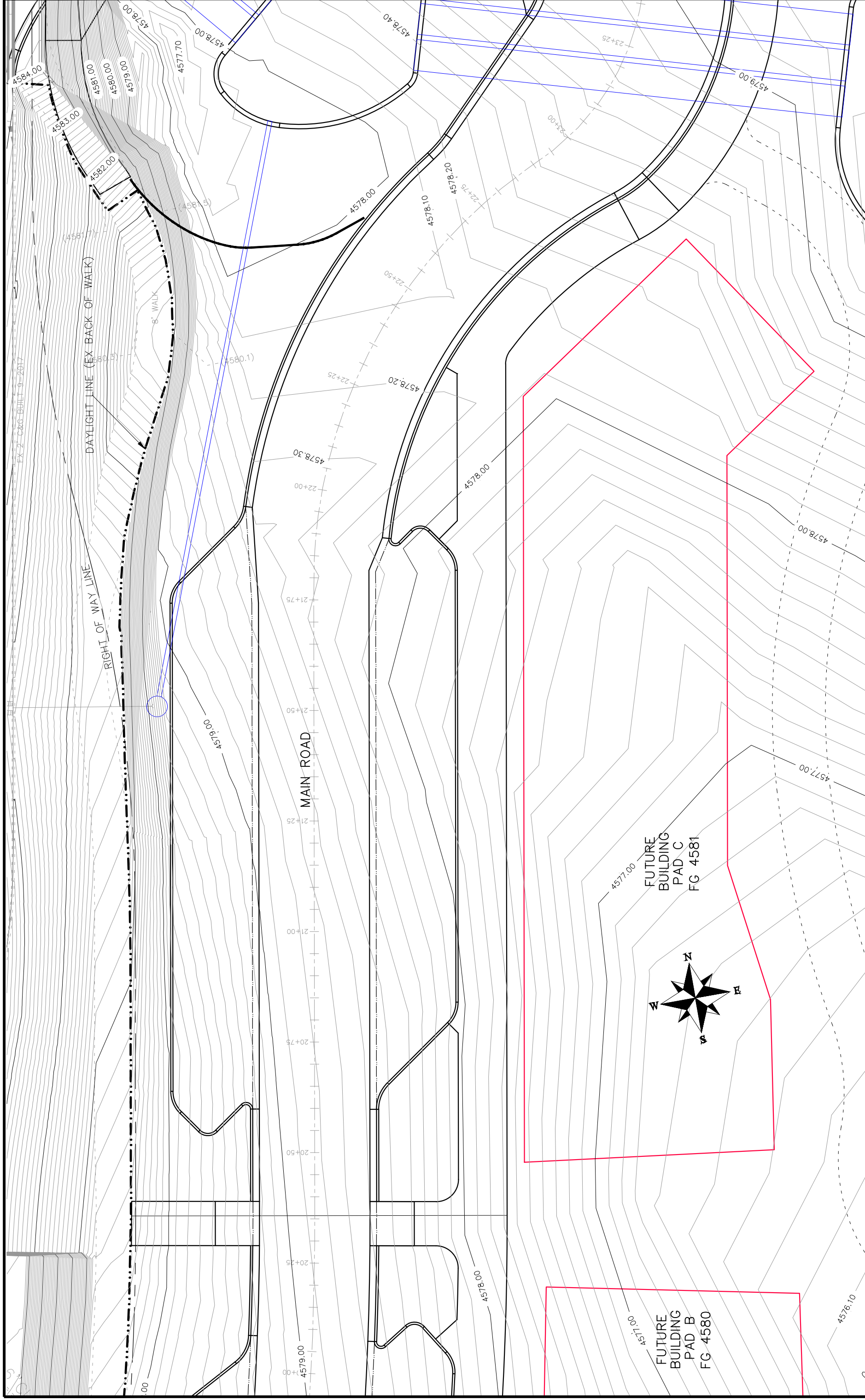
DATE	DATE	DATE	DATE
2017	2017	2017	2017

SCALE	PLAN & PROFILE
1" = 20'	3" = 100'



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ENGINEERING DIVISION**

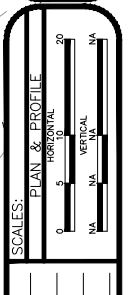
**Las Colonias Business Park
20th Scale Tenth Foot EX Contour Plan**



REVISION	DATE	DESCRIPTION
1		
2		
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4		

DATE	DATE	DATE	DATE
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DESIGNED BY JCS	DESIGNED BY JCS	CHECKED BY TCP	APPROVED BY TCP
DRAWN BY JCS	DATE 2017	DATE 2017	DATE 2017

PLAN & PROFILE	
PLAN	PROFILE
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1	1
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100	100



PUBLIC WORKS
ENGINEERING DIVISION

Las Colonias Business Park
20th Scale Tenth Foot EX Contour Plan

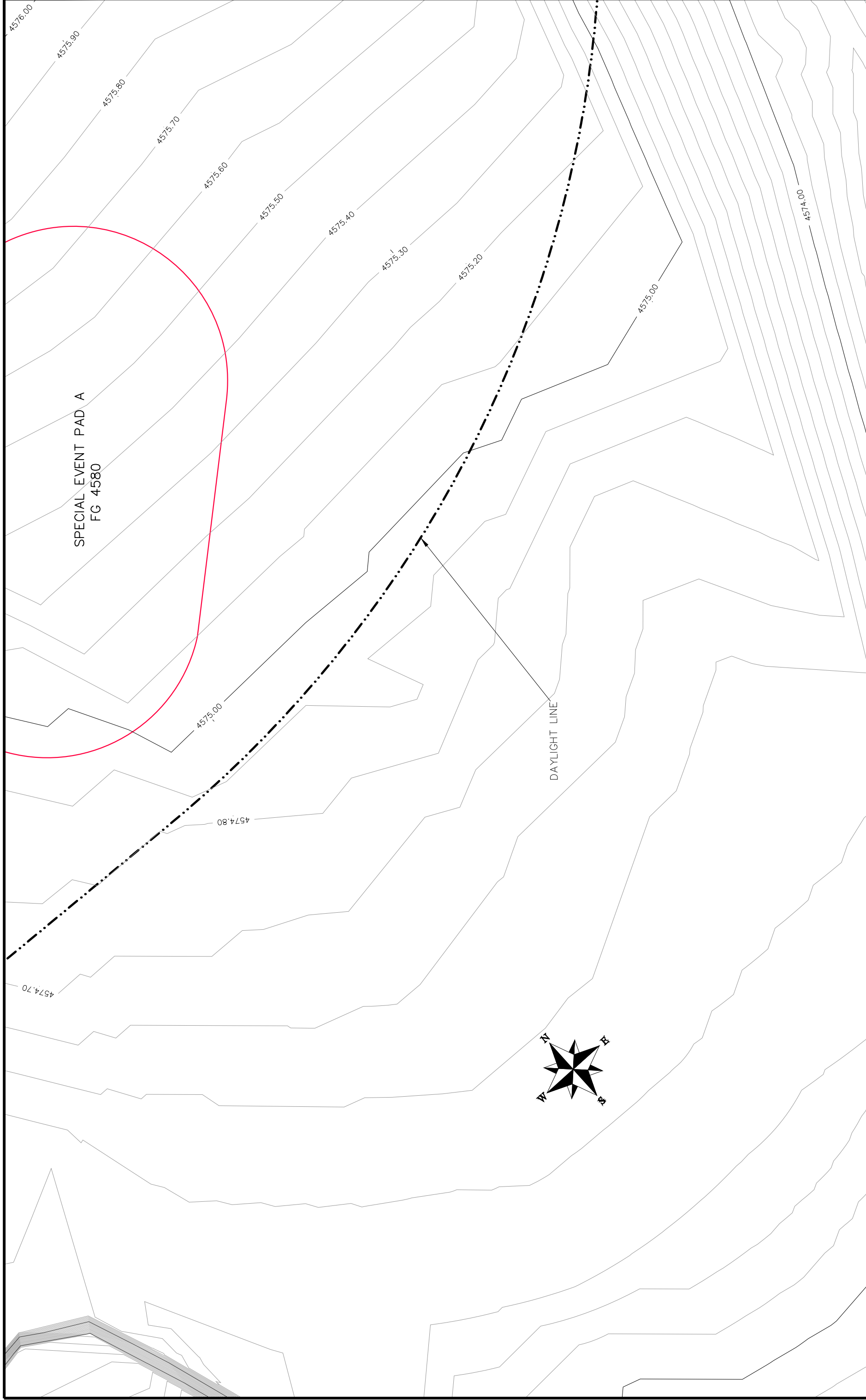


REVISION	DATE	DESCRIPTION
REVISION 1	DATE 2017	DESIGNED BY JCS
REVISION 2	DATE 2017	CHECKED BY JCS
REVISION 3	DATE 2017	APPROVED BY JCS
REVISION 4	DATE 2017	

CITY OF
Grand Junction
 COLORADO

PUBLIC WORKS
ENGINEERING DIVISION

Las Colonias Business Park
 20th Scale Tenth Foot EX Contour Plan



REVISION Δ REV1_INT REVISION Δ REV2_INT REVISION Δ REV3_INT REVISION Δ REV4_INT		DATE DATE DATE DATE	JCS JCS JCS JCS	DATE 2017 DATE 2017 DATE 2017 DATE 2017
DESCRIPTION		DRAWN BY DESIGNED BY CHECKED BY APPROVED BY	JCS JCS JCS JCS	DATE 2017 DATE 2017 DATE 2017 DATE 2017
PLAN & PROFILE HORIZONTAL 5 NA		SCALES:		
NA NA NA		NA NA NA		

CITY OF
Grand Junction
 COLORADO

PUBLIC WORKS
 ENGINEERING DIVISION

Las Colonias Business Park
 20th Scale Tenth Foot EX Contour Plan

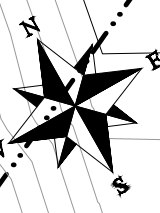


BUILDING PAD A
FC 4580

BUILDING PAD G
FC 4580

TEMPORARY
DRAINAGE CHANNEL

-- DAYLIGHT LINE



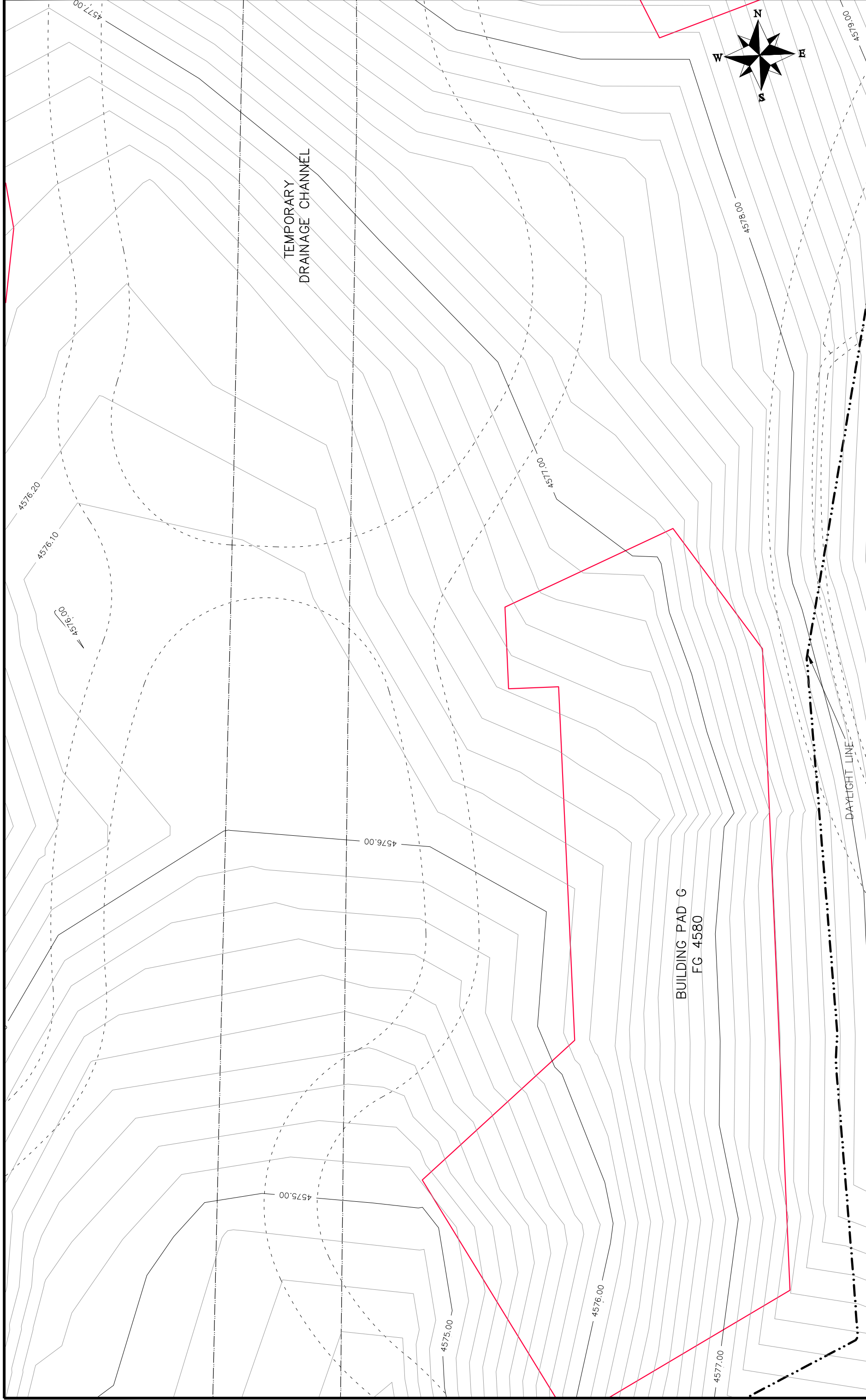
DESCRIPTION	DATE	DRAWN BY	DATE	DATE
REVISION Δ REV1_INT		JCS	2017	2017
REVISION Δ REV2_INT		JCS	2017	2017
REVISION Δ REV3_INT		TCP	2017	2017
REVISION Δ REV4_INT		TCP	2017	2017

SCALE	PLAN & PROFILE
0	3
NA	NA

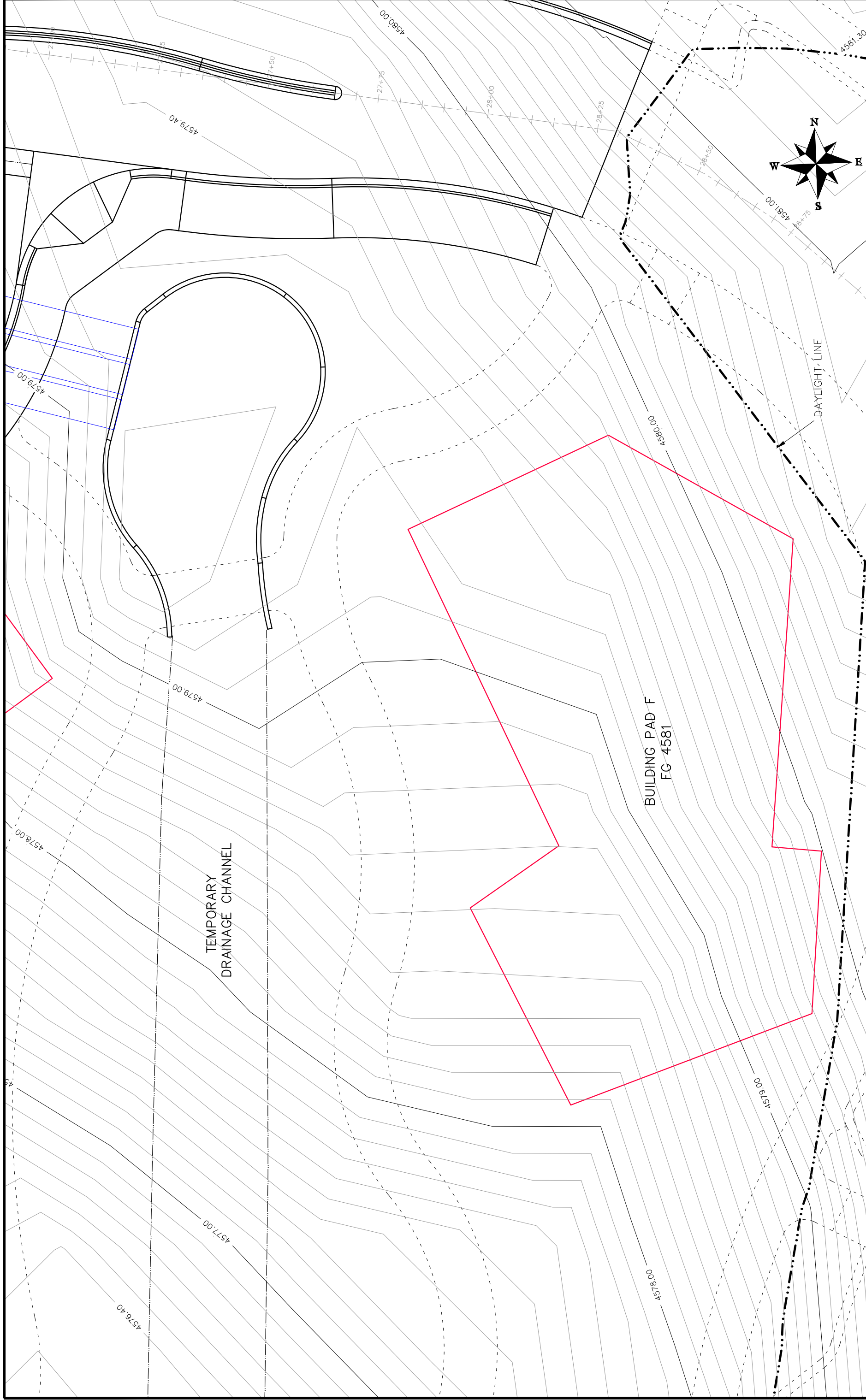


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Las Colonias Business Park
20th Scale Tenth Foot EX Contour Plan



REVISION Δ REV1_INT REVISION Δ REV2_INT REVISION Δ REV3_INT REVISION Δ REV4_INT		DATE DATE DATE DATE	JCS JCS JCS JCS	DRAWN BY DESIGNED BY CHECKED BY APPROVED BY	DATE 2017 DATE 2017 DATE 2017 DATE 2017
DESCRIPTION		SCALES:		PLAN & PROFILE HORIZONTAL 1" = 100' VERTICAL 1" = 10' NA NA NA NA	
PUBLIC WORKS ENGINEERING DIVISION					
Las Colonias Business Park 20th Scale Tenth Foot EX Contour Plan					



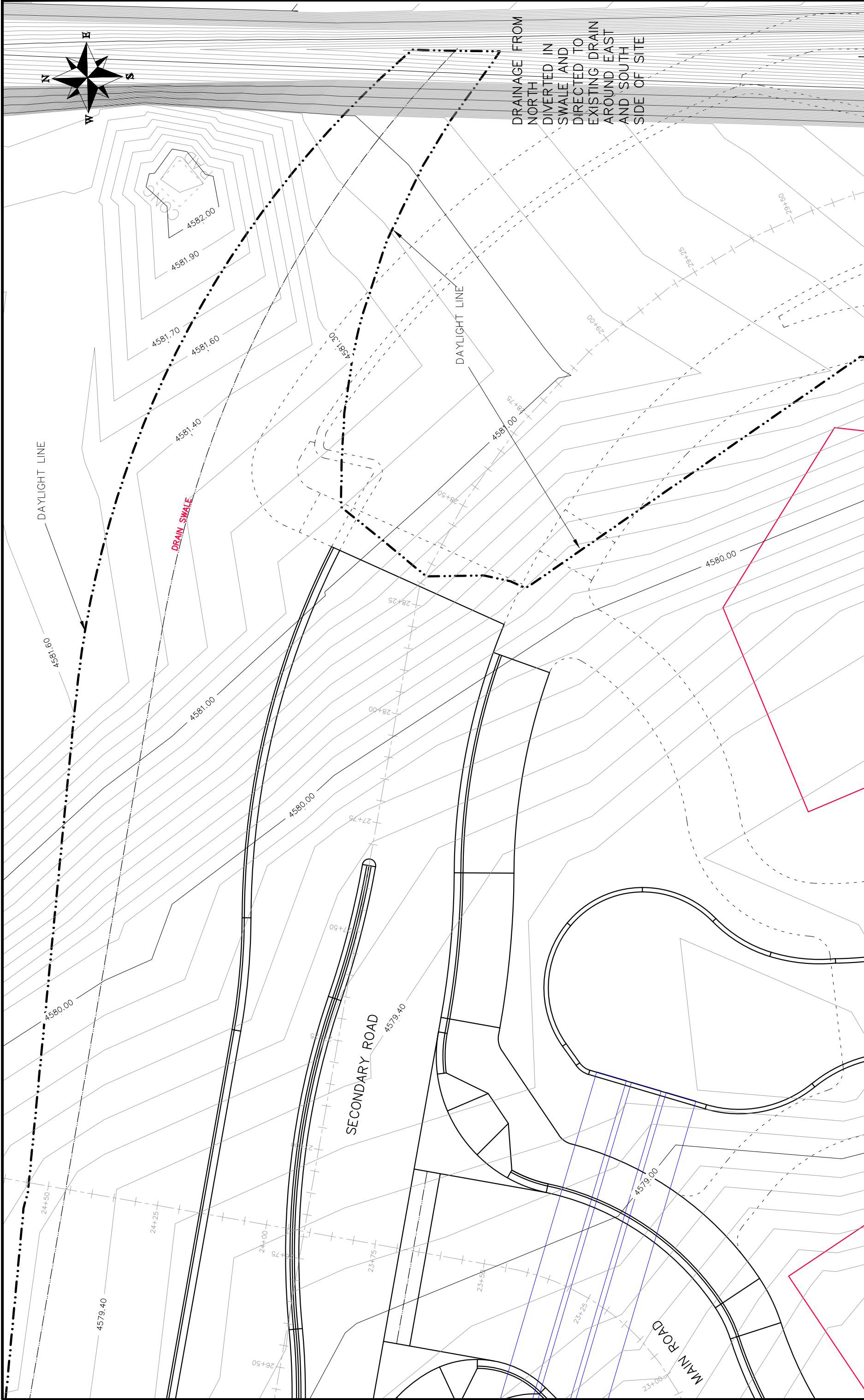
Las Colonias Business Park
20th Scale Tenth Foot EX Contour Plan

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ENGINEERING DIVISION

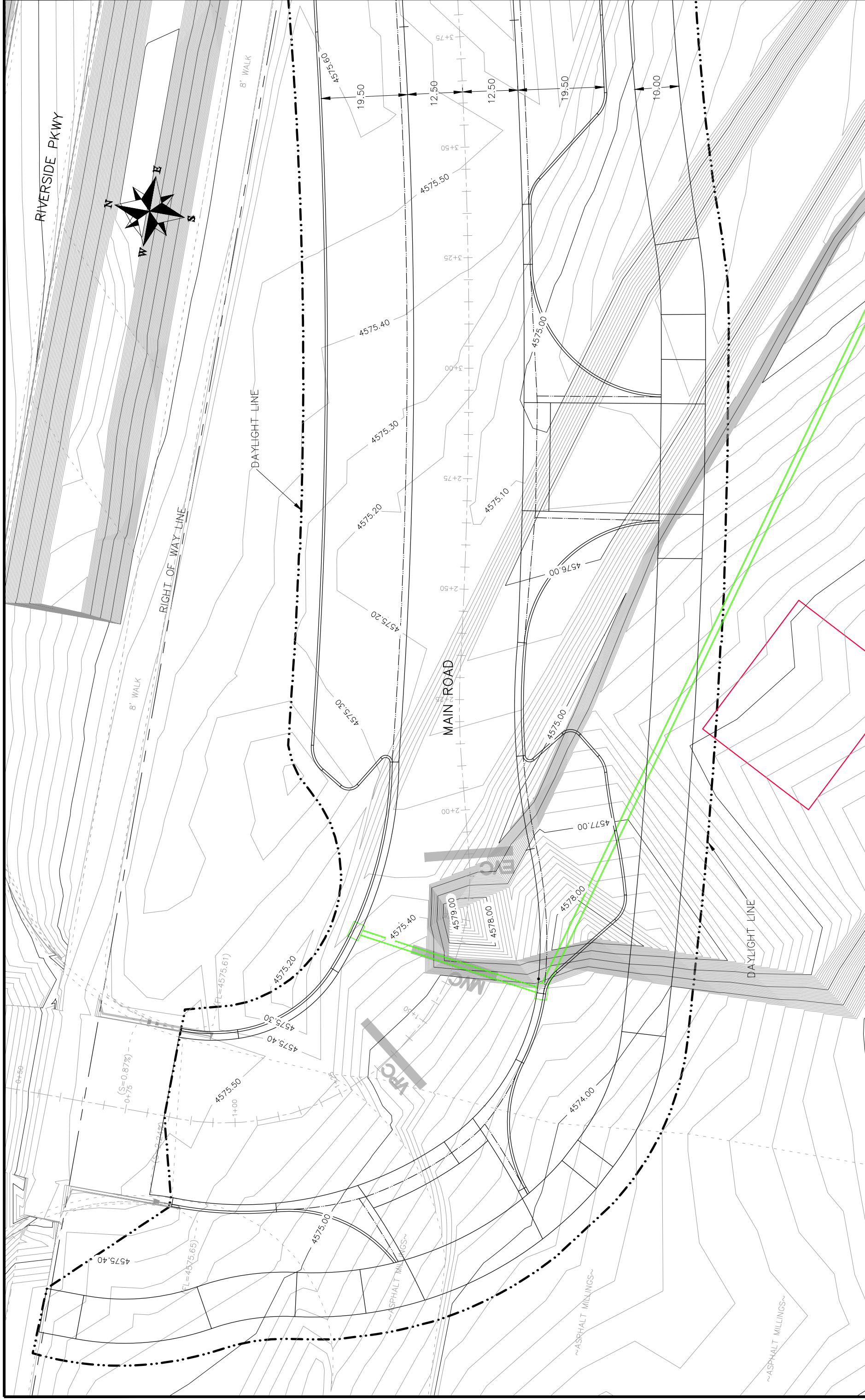


REVISION	DATE	DESCRIPTION	DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION 1	REV1_DATE	REV1_INT	JCS	2017	JCS	2017	TCP	2017	TCP	2017
REVISION 2	REV2_DATE	REV2_INT	JCS	2017	JCS	2017	TCP	2017	TCP	2017
REVISION 3	REV3_DATE	REV3_INT	JCS	2017	JCS	2017	TCP	2017	TCP	2017
REVISION 4	REV4_DATE	REV4_INT	JCS	2017	JCS	2017	TCP	2017	TCP	2017

SCALES:
PLAN & PROFILE: 1" = 20'
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'



REVISION Δ REV1_INT REVISION Δ REV2_INT REVISION Δ REV3_INT REVISION Δ REV4_INT		DATE DATE DATE DATE	DRAWN BY JCS DESIGNED BY JCS CHECKED BY TCP APPROVED BY TCP	DATE 2017 DATE 2017 DATE 2017 DATE 2017	PLAN & PROFILE HORIZONTAL 3 VERTICAL 20 NA NA NA NA
SCALES:		CITY OF Grand Junction COLORADO		PUBLIC WORKS ENGINEERING DIVISION	
Las Colonias Business Park 20th Scale Tenth Foot EX Contour Plan					



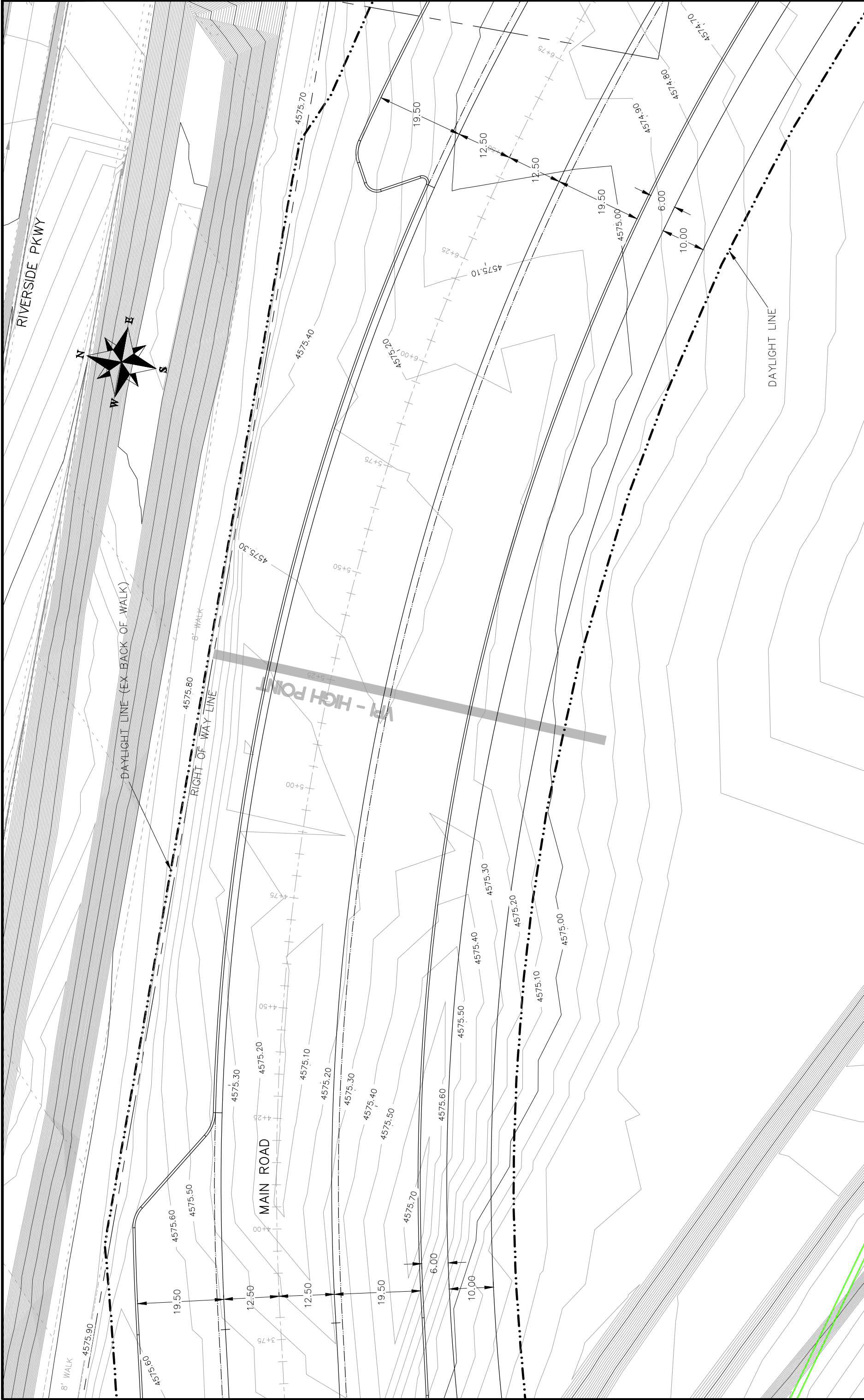
REVISION	DATE	DESCRIPTION
1	2017	ISSUED FOR PERMIT
2	2017	REVISED
3	2017	REVISED
4	2017	REVISED

DATE	DATE	DATE	DATE
2017	2017	2017	2017
2017	2017	2017	2017
2017	2017	2017	2017



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



REVISION	DATE	DESCRIPTION
REVISION 1	DATE	DESCRIPTION
REVISION 2	DATE	DESCRIPTION
REVISION 3	DATE	DESCRIPTION
REVISION 4	DATE	DESCRIPTION

SCALE	DATE	DATE
SCALE	DATE	DATE
SCALE	DATE	DATE
SCALE	DATE	DATE

SCALE	DATE	DATE
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SCALE	DATE	DATE



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan

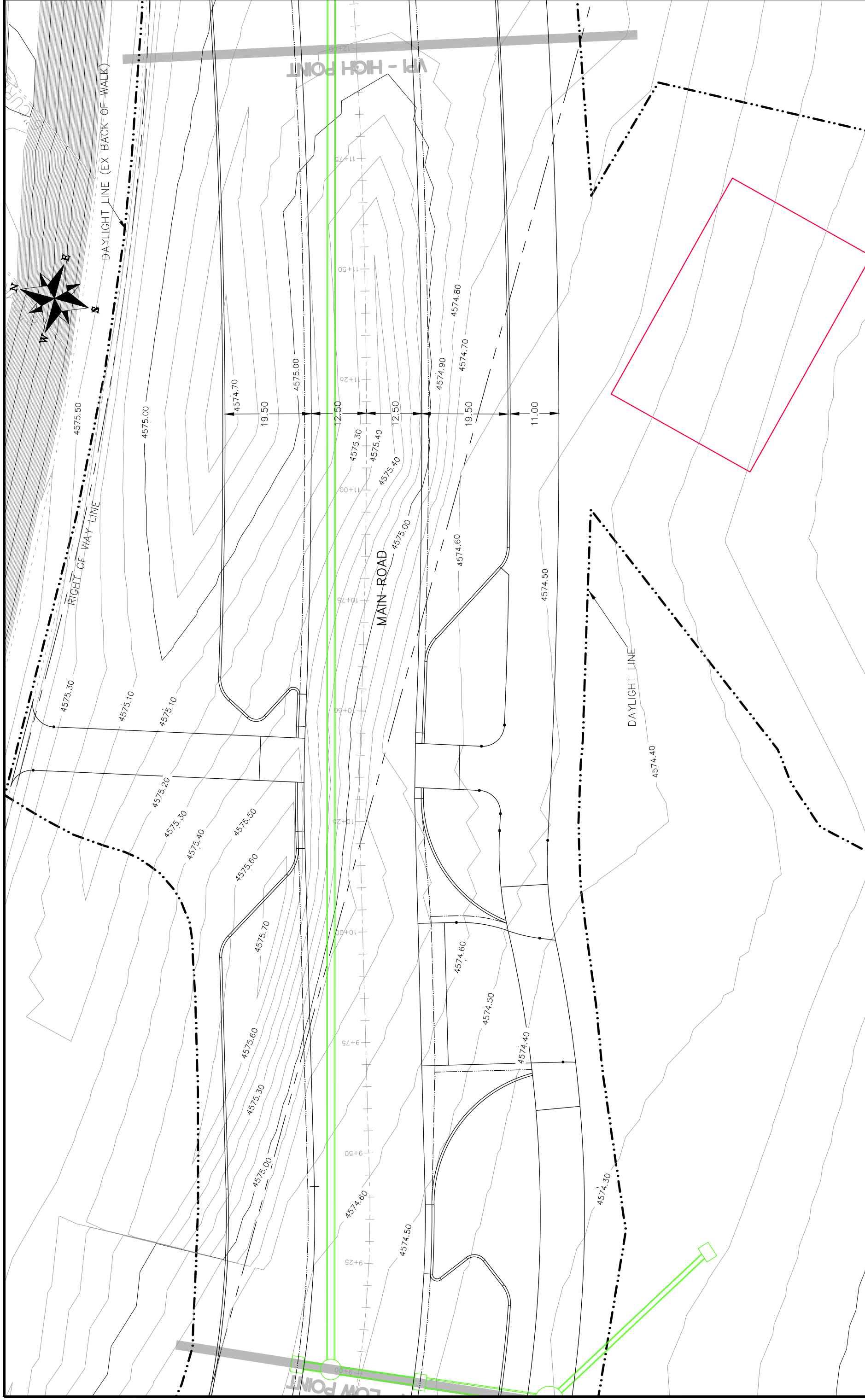


REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION 1	REV1_INT	2017	JCS	2017	PLAN & PROFILE
REVISION 2	REV2_INT	2017	JCS	2017	HORIZONTAL
REVISION 3	REV3_INT	2017	JCS	2017	VERTICAL
REVISION 4	REV4_INT	2017	JCS	2017	NA



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX.Contour Plan

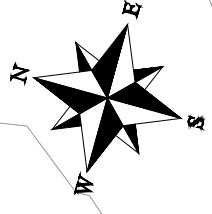


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1	REV1_INT		JCS	2017		
2	REV2_INT		JCS	2017		
3	REV3_INT		TCP	2017		
4	REV4_INT		TCP	2017		



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



REVISION	DATE	DESCRIPTION

DATE	DATE	DATE	DATE

PLAN & PROFILE	SCALE



PUBLIC WORKS
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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



DESCRIPTION	DATE	DRAWN BY	DATE	SCALE:
REVISION Δ REV1_INT	____	JCS	2017	PLAN & PROFILE 3 HORIZONTAL 3 VERTICAL NA NA NA
REVISION Δ REV2_INT	____	JCS	2017	
REVISION Δ REV3_INT	____	JCS	2017	
REVISION Δ REV4_INT	____	TOP	2017	



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	REV1_INT		JCS	2017
2	REV2_INT		JCS	2017
3	REV3_INT		TOP	2017
4	REV4_INT		TOP	2017

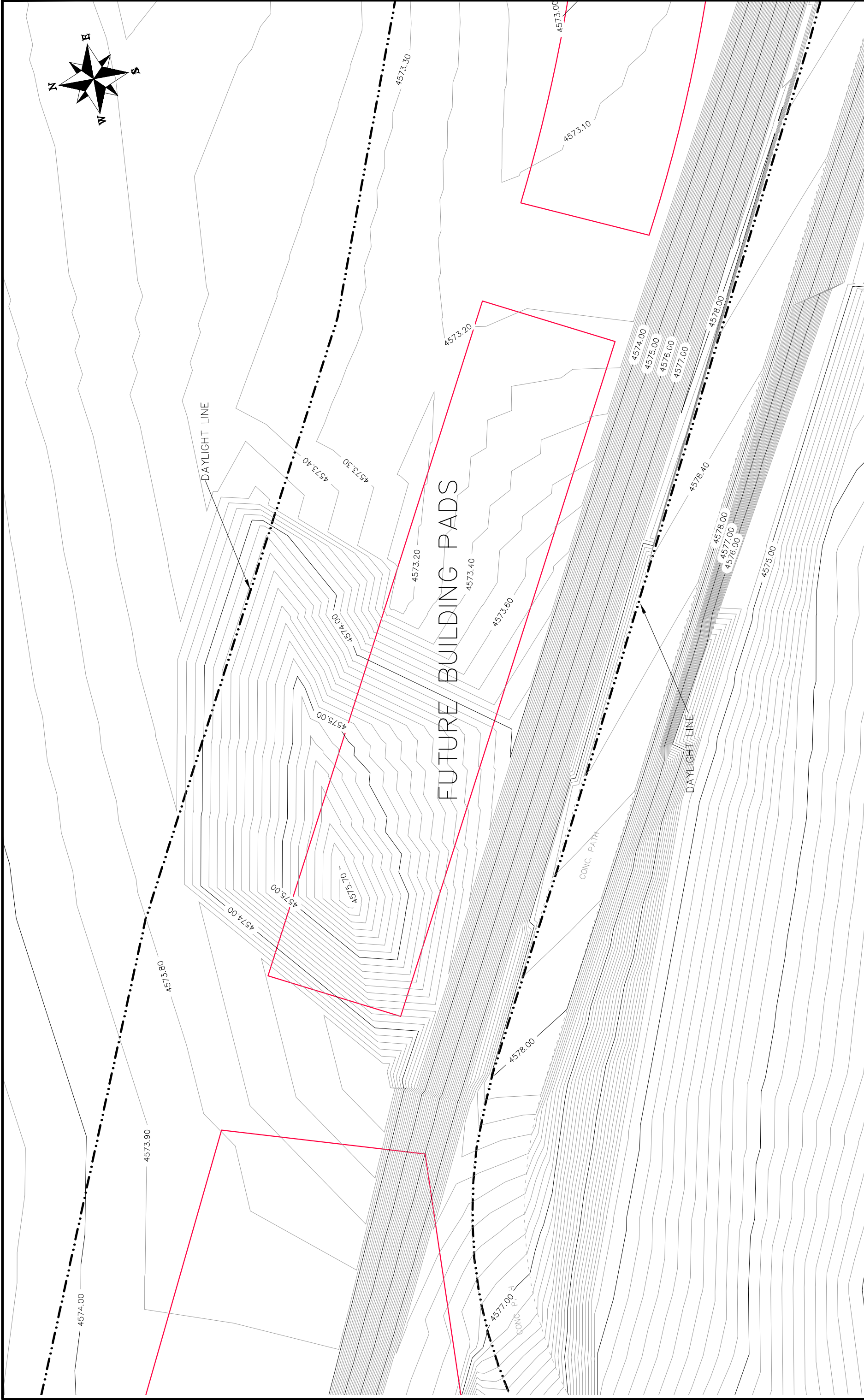
SCALE	PLAN & PROFILE
0	HORIZONTAL
3	VERTICAL
NA	NA
NA	NA

DATE	DATE	DATE	DATE



PUBLIC WORKS
ENGINEERING DIVISION

Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



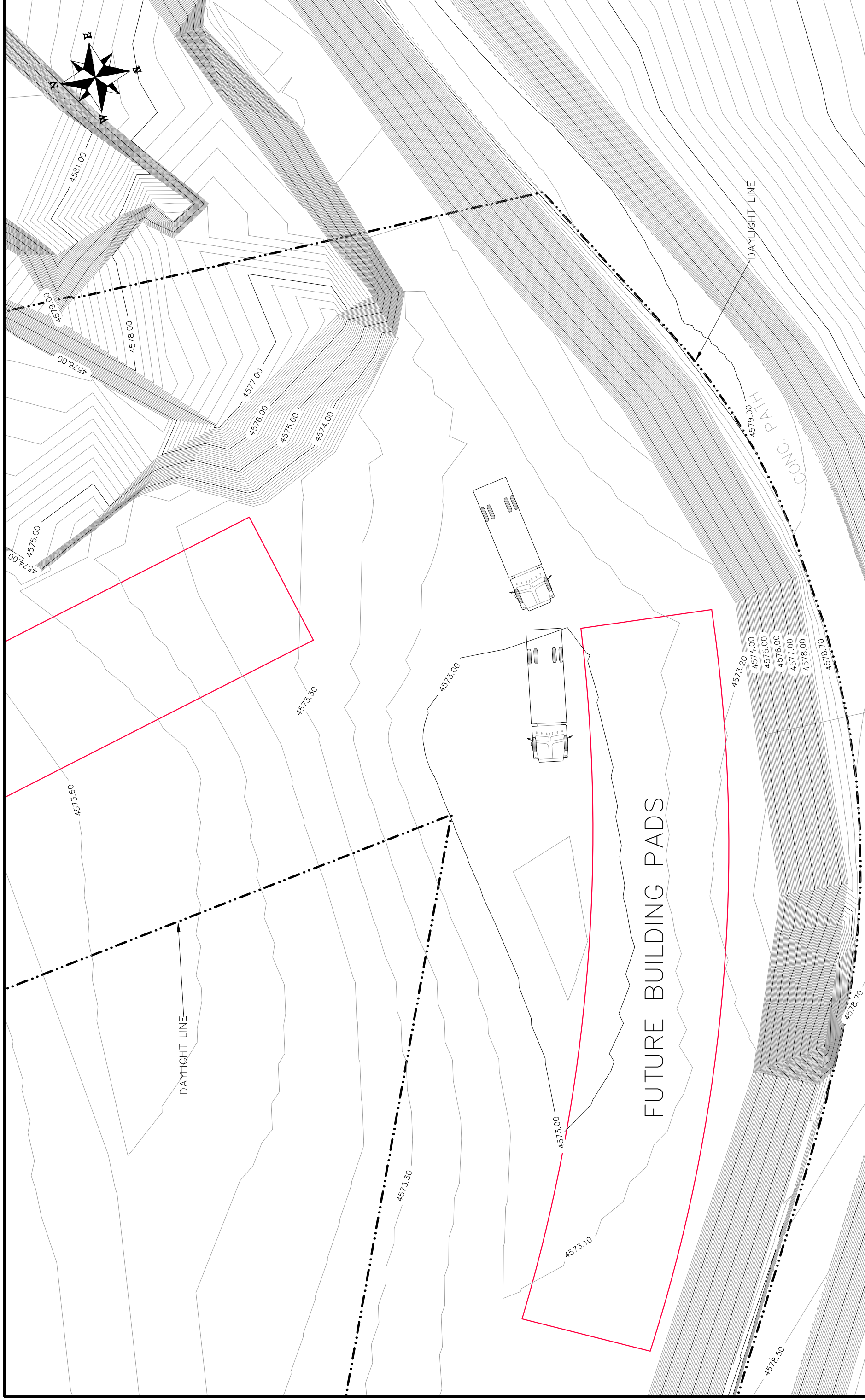
DESCRIPTION	DATE	DRAWN BY	DATE	2017
REVISION Δ REV1_INT	REV1_DATE	JCS	DATE	2017
REVISION Δ REV2_INT	REV2_DATE	DESIGNED BY	DATE	2017
REVISION Δ REV3_INT	REV3_DATE	TCP	DATE	2017
REVISION Δ REV4_INT	REV4_DATE	CHECKED BY	DATE	2017
		APPROVED BY	DATE	2017

SCALES:	
PLAN & PROFILE	
HORIZONTAL	1" = 30'
VERTICAL	1" = 10'



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Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan



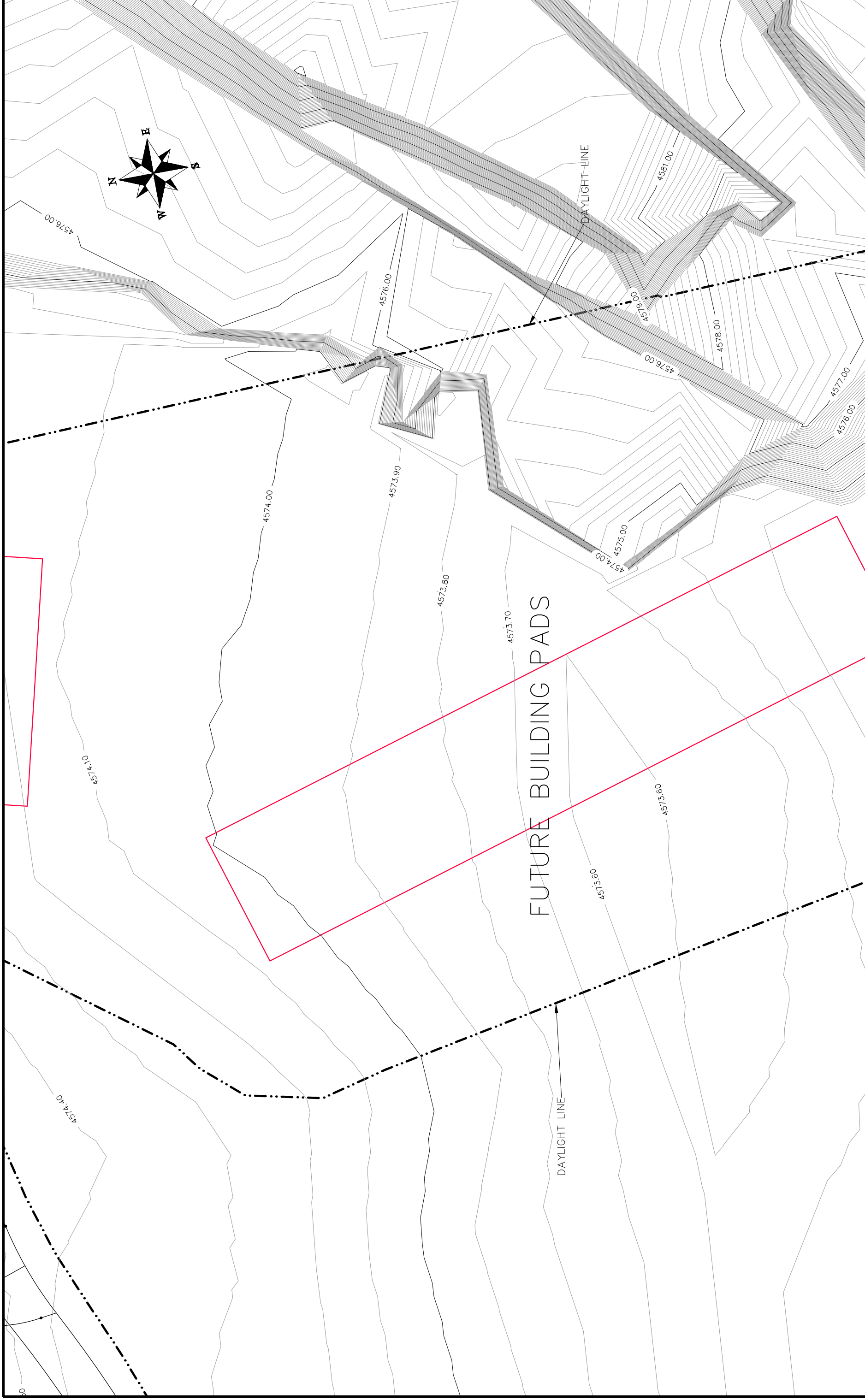
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1	REV1_INT		JCS	2017
2	REV2_INT		JCS	2017
3	REV3_INT		TOP	2017
4	REV4_INT		TOP	2017

SCALE	DATE
HORIZONTAL	2017
VERTICAL	2017



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**Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan**



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	REV1_INT		JCS	2017
2	REV2_INT		JCS	2017
3	REV3_INT		TOP	2017
4	REV4_INT		TOP	2017



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**Las Colonias Business Park Phase 1a
20th Scale Tenth Foot EX Contour Plan**