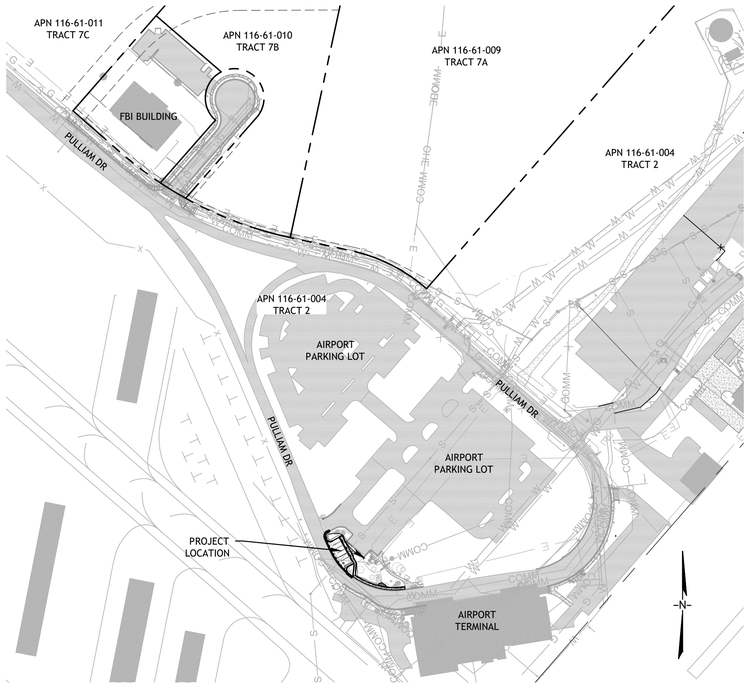
PULLIAM AIRPORT
ELECTRIC VEHICLE PARKING

FLAGSTAFF, AZ

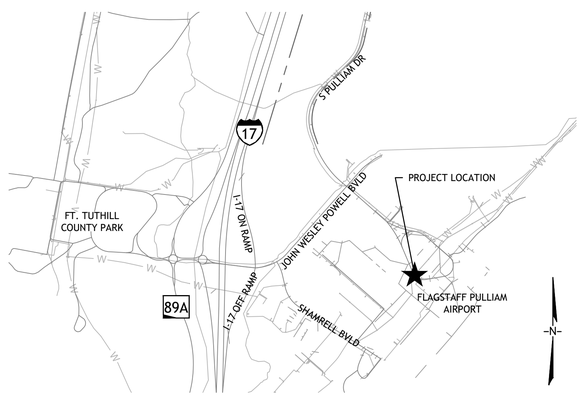
T20N, R7E, SE CORNER OF SE QUARTER SECTION OF SECTION 5

CIVIL IMPROVEMENTS SHEET INDEX

C1.0	COVER SHEET
C1.1	NOTES & LEGEND
C1.2	DETAILS
C2.0	CIVIL IMPROVEMENTS & GRADING PLAN



AREA MAP
N.T.S.



VICINITY MAP
SCALE 1:1000

OWNER
CITY OF FLAGSTAFF
211 W Aspen Ave.
Flagstaff, AZ 86001
Contact: Adam Miele, P.E.
Phone: 928-213-2108

CIVIL ENGINEER
Peak Engineering,Inc.
201 E Birch Ave, Suite 3
Flagstaff, AZ 86001
Contact: Sam Heffelfinger, P.E.
Phone: (928) 774-4046

CITY OF FLAGSTAFF APPROVALS

THE CITY OF FLAGSTAFF APPROVES THESE PLANS FOR CONCEPT ONLY AND SHALL NOT BE LIABLE FOR ERRORS OR OMISSIONS OF THE DESIGN ENGINEER.

City Engineer _____ DATE

City Public Works Director _____ DATE

Water Services Director _____ DATE

UTILITY ACKNOWLEDGEMENTS

Approval Letter
CENTURY LINK _____ DATE

Approval Letter
UniSource Energy _____ DATE

Approval Letter
APS _____ DATE

Approval Letter
SUDDENLINK _____ DATE

Approval Letter
AT&T _____ DATE

FINAL 1 PLANS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION	DESCRIPTION	DATE

201 E. Birch Ave., Suite 3
Flagstaff, AZ 86001
(928) 774-4046

Peak ENGINEERING, INC.
Connecting Place to People

Registered Professional Engineer (Civil)
CERTIFICATE NO. 60461
SAM A. HEFFELFINGER
DATE SIGNED 5/18/21
ARIZONA, U.S.A.

CITY OF FLAGSTAFF
PULLIAM AIRPORT ELECTRIC VEHICLE (EV) PARKING
COVER
COF PROJECT NO. ARO883P-A

JOB NO:21COF01
DATE: MAY 2021
BY:MRB
CHECKED:SAH

C1.0

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ENGINEER'S GENERAL NOTES

The work shall be done in accordance with the most current edition(s) of the following specifications and these plans.

- City of Flagstaff (COF) Engineering Design & Construction Standards
- Maricopa Association of Governments (MAG): Uniform Standard Specifications & Standard Details for Public Works Construction
- Manual on Uniform Traffic Control Devices (MUTCD)
- Arizona Department of Transportation Standard Specifications for Road and Bridge Construction

It is the Contractor's responsibility to obtain copies of the above Standards, Specifications and Details as well as all other standards and specifications referenced by or necessary for interpreting these plans. The Contractor is not relieved of responsibility for making complete and accurate on-site determinations of the locations of all utilities, structures and field conditions, which may affect the progress of the work.

PERMITS. The Contractor is responsible for determining what permits are required for the work and obtaining, at his own expense, the permits required unless otherwise noted in the Special Provisions. Permitting includes compliance with the Arizona Department of Environmental Quality (ADEQ) Arizona Pollutant Discharge Elimination System (AZPDES) Construction General Permit. The Contractor is responsible for filing a Notice of Intent (NOI) and Notice of Termination (NOT) in accordance with AZPDES requirements.

UTILITIES. Underground utilities shown are approximate and were determined from field measurements, construction plans, record plans, or utility maps furnished by others. The Contractor is responsible for determining the actual locations of all underground lines that may affect the work. The Contractor is responsible for notifying appropriate utility companies prior to construction commencing. The number to call is 1-800-STAKE-IT. The Contractor shall allow 2 working days after Blue Stake is notified before starting any excavation work in the proximity of buried utilities. Where the plans call for connecting new structures to existing underground pipes or structures, the Contractor is responsible for determining the exact sizes, types and locations of existing underground improvements and furnishing the materials necessary for making the required connections. At least 48 hours prior notice is required before disrupting utility service to make connections. The notice must include the exact time of disruption and the expected duration of loss of service.

QUANTITIES. The quantities shown are approximate and do not necessarily reflect bid schedule items. The Contractor is responsible for independently estimating work quantities prior to bidding. Payment will be based on bid schedule items.

TRAFFIC CONTROL. The Contractor is responsible for providing any necessary traffic control devices for vehicle, bicycle and pedestrian traffic affected by the construction.

STORMWATER MANAGEMENT. Adequate drainage, erosion and sediment control measures, best management practices (BMPs), and/or other stormwater management facilities shall be provided and maintained at all times during construction. The Contractor is responsible for damages to adjacent property and/or the construction site caused by his or her failure to provide and maintain adequate drainage and erosion/sediment control for the construction area.

Refer to the AZPDES Construction General Permit and ADEQ website for guidance, BMPs and reporting requirements: http://www.azdeq.gov/node/524

CITY OF FLAGSTAFF GENERAL NOTES

1. Approval of these plans by the City Engineer is for a one year period, subsequent to the date of approval. If construction work is not started within the one (1) year period, or has been discontinued for any reason for longer than one (1) year, the plans shall be resubmitted for review and re-approval.
2. Plan review by the City does not extend to material quantities shown on the plans.
3. A public works permit, issued by the City, is required for all work in City rights-of-way or easements and for construction of any improvements intended to become public property.
4. The City shall be notified twenty-four (24) hours prior to beginning different phases of construction so that City Inspectors may be scheduled.
5. All materials and workmanship shall comply with Title 13, Engineering Design Standards and Specifications for New Infrastructure, current "MAG Uniform Standard Specifications and Details for Public Works Construction,"the City of Flagstaff Stormwater Design Manual, and with generally accepted engineering design and construction practice. All work and materials, which do not conform to the standards and specifications, are subject to removal and replacement at the contractor's expense. The contractor is responsible for reviewing Chapter 13-21, which makes minor modifications to certain MAG Specifications and details.
6. Any work performed without the knowledge and approval of the City Engineer or his authorized representative is subject to removal and replacement at the contractor's expense.
7. The City Engineer or his authorized representative may suspend the work by written notice when, in his judgment, progress is unsatisfactory, work being done is unauthorized or defective, weather conditions are unsuitable, or there is danger to the public health or safety.
8. The City Engineer may order any or all materials used in the work to be tested according to the American Association of State Highway and Transportation Officials (AASHTO) and the American Society for Testing and Materials (ASTM) Standards. The Contractor shall, at his expense, supply all samples required for testing.
9. Access that meets Section 13-13-004-0001, Fire Access, shall be in place and approved before and at all times during onsite combustible construction and/or prior to issuance of building permits in new subdivisions. Fire Department and Engineering Section approval is required for obstruction of access or water system shutdown.
10. The contractor shall be responsible for maintenance of the streets and of partially completed portions of the work until final acceptance of the work. The contractor shall submit to the City Engineer for approval a construction schedule for any streets required to be closed or partially closed for the construction activity. The contractor shall reopen the streets no later than the opening date shown on the construction schedule or upon order of the City Engineer. The regulation and control of construction traffic shall be as directed by the City Engineer or his authorized representative.
11. Approval of a portion of the work in progress does not guarantee its final acceptance. Testing and evaluation may continue until written final acceptance of a complete workable unit. Any defects which appear in the work within one (1) year from the date of acceptance and which are due to improper workmanship or inferior materials supplied shall be corrected by or at the expense of the owner/developer or the contractor.
12. Acceptance of completed public improvements will not be given until defective or unauthorized work is removed, and final clean-up is complete.
13. Location of underground utilities before work is begun is to be accomplished in accordance with A.R.S. Section 40-360.22.
14. If work is done on private property in relation to a project constructed under these standards, the contractor will provide the City with written authorization from the property owner to do so.
15. The establishment and use of temporary construction yards shall conform to the current City zoning code standards for temporary uses.
16. All excavated material shall be disposed of in accordance with applicable City codes and regulations. The contractor shall obtain all required City approvals and permits as deemed necessary by the City to dispose of excavated material.
17. All construction staking shall be the responsibility of the contractor/developer and performed under the direct supervision of a registered land surveyor or civil engineer.
18. All traffic sign sheeting shall be Type VIII as designed by ASTM D4956-07e1 Standard Specifications for Retroreflective Sheeting for Traffic Control, unless specified otherwise on the construction plans.
19. When the construction plans specify graffiti control on bridges or other structures, the contractor shall seal the structure first using Monochem Aquaseal ME 12 and then apply Monochem Permashield, Sacrificial Graffiti Control System (or approved equal).
20. All areas disturbed during construction shall be stabilized and reseeded in accordance with Chapter 13-17. In the event that the construction activity disturbs more than one (1) acre, a stormwater pollution prevention plan (SWPPP) shall be prepared in order to obtain a construction general permit from ADEQ. (Ord. 2017-22, Rep&ReEn, 07/05/2017)
21. All survey monuments within or around the construction area shall be protected in place. Any monuments that are disturbed by construction shall be reset by the RLS at the contractor's expense in accordance with City of Flagstaff Engineering Standards section 13-03-005-0004 and A.R.S. 33-103.

CITY OF FLAGSTAFF WATER & SEWER NOTES

All design, construction, testing and inspection shall conform to the ADEQ requirements: water distribution in accordance with Bulletins 10 and 8, and sewer collection in accordance with AAC Title 18. In the event the ADEQ requirements conflict with these standards, the more restrictive shall apply.

A. Rough grading shall be completed within one-tenth (1/10) of a foot of plan grade and approved by the City Engineer's authorized representatives prior to installation of underground utilities.
B. No trench shall be filled with bedding material or backfill until the excavation and pipe laying, respectively, have been approved by the City Engineer's authorized representative.
C. A water pressure test is required of all water lines and a hydrostatic or air test is required of all sewer lines and manholes. Tests are to be conducted after backfilling is complete and compacted on all public and/or private underground utilities.
D. Water and sewer service lines are to be marked as shown on the standard service details.
E. Water line disinfection is to be accomplished as outlined in Arizona Department of Environmental Quality (ADEQ) "Bulletin No. 8."
F. Water pipe classification shall be Class 305 for A.W.W.A. C-900 PVC and Class 350 for ductile iron unless otherwise approved by the City Engineer. C-900 shall conform to cast-iron-equivalent outside diameter and have elastromeric gaskets and couplings. All ductile iron pipe shall be polyethylene encased in accordance with MAG Specifications.
G. All materials that come into contact with drinking water shall conform to NSF Standard 61 including, but not limited to, gaskets, lubricants, pipe fittings, and valves (NSF-pw seal) (R18-4-119B).
H. All public sanitary sewer lines and private sewer service lines within a public utility easement or right-of-way will be inspected prior to acceptance by the City.
I. Water and sewer mains shall be separated in order to protect public water systems from possible contamination. All distances are measured perpendicularly from the outside of the sewer main to the outside of the water main. Separation requirements are as follows:
   1. A water main shall not be placed:
      a. Within six (6) feet, horizontal distance, and less than two (2) feet, vertical distance, above the top of a sewer main unless extra protection is provided. Extra protection shall consist of constructing the sewer main with mechanical joint ductile iron pipe or with slip-joint ductile iron pipe if joint restraint is provided. Alternate extra protection shall consist of encasing both the water and sewer mains in at least six (6) inches of concrete for at least ten (10) feet beyond the area covered by this subsection.
      b. Within two (2) feet horizontally and two (2) feet below the sewer main. When a water main is placed below a sewer main, extra protection is always required regardless of the vertical separation.
   2. No water pipe shall pass through or come into contact with any part of a sewer manhole. The minimum horizontal separation between water mains and manholes shall be six (6)feet, measured from the center of the manhole.
   3. The minimum separation between force mains or pressure sewers and water mains shall be two (2) feet vertically and six (6) feet horizontally under all conditions. Where a sewer force main crosses above or less than six (6) feet below a water line, the sewer mains shall be encased in at least six (6) inches of concrete or constructed using mechanical joint ductile iron pipe for ten (10) feet on either side of the water main.
   4. Even when extra protection is utilized, the minimum clearance between water and sewer shall be one (1) foot.
   5. The separation requirements do not apply to building, plumbing, or individual house service connections.
J. When hydrostatic testing is performed, sewer lines shall be tested for infiltration/exfiltration in accordance with ADEQ Engineering Bulletin No. 11. Manholes shall be tested by filling the manhole with water. The applicant shall ensure that the drop in water level does not exceed one-thousandth (0.001) of the total manhole volume in one (1) hour.

   When air testing is performed, sewer lines shall be tested in accordance with ASTM F1417-92. Manholes shall be tested in accordance with ASTM C1244.
K. Sewer pipe shall be SDR 35, ASTM D3034 for PVC pipe, or Class 150 DIP lined with Protecto 401 ceramic epoxy or HDPE ASTM F894. All ductile iron pipelines shall be polyethylene encased in accordance with MAG Specifications. Special design considerations may require a igher class rating of DIP.
L. No water settling of trench fill material is allowed.
M. All water and sewer design and construction shall conform to the current Arizona Department of Environmental Quality (ADEQ) requirements. When ADEQ requirements are in conflict with these standards, the more restrictive shall apply.
N. Tracer wires and tapes shall be installed prior to testing the water or sewer main as required by Section 13-09-001-0002. (Strip wire two (2) inches at termination of the service.)
O. Water valves shall be adjusted in accordance with City of Flagstaff Engineering Detail No. 9-03-060 and manholes shall be adjusted in accordance with City of Flagstaff Engineering Detail No. 9-03-062.
P. One hundred percent (100%) of the sewer line shall be tested for uniform slope by remote camera and tested for short-term deflection.
   1. When a sewer service is required to be abandoned, it shall be abandoned at the property line and capped using the appropriate materials (PVC, clay, or concrete).
   2. When an existing water service is required to be abandoned, it shall be abandoned at the main. The saddle and corp. stop shall be removed and the main clamped with an approved full circle repair clamp.
Q. The location of water services shall be identified by branding a "W" on the top or face of curb.
R. Sewer service locations shall be identified by branding an "S" on the top or face of the curb. (Ord. 2017-22, Rep&ReEn, 7/05/2017)

CITY OF FLAGSTAFF PAVING NOTES

A. Exact point of matching termination and overlay, if necessary, shall be determined in the field by the City Engineer or his authorized representative. When a longitudinal joint associated with a trench path, pavement matchup or other occurs on a street that includes a bike lane, the joint shall be located outside the bike lane.
B. No job will be considered complete until:
   1. All curbs, pavements, sidewalks, catch basins, storm drains, and manholes have been cleaned of all dirt and debris;
   2. Survey monuments are installed and stamped; and
   3. All frames, covers, and valve boxes are adjusted to grade.
C. No paving construction shall be started until all utility lines are completed and approved under proposed paved areas.
D. Base course will not be placed until subgrade has been approved by the City Engineer or his authorized representative.
E. The location of all water valves, fire hydrants, and manholes must at all times during construction be referenced and made accessible to the City.
F. Utility facilities in conflict with this work will be relocated by the permittee or the utility owner. This activity shall be coordinated with the owner of the utility to prevent any unnecessary interruption of service to existing customers.
G. Existing street name signs, traffic signs and devices associated with the project shall be maintained during construction and relocated by the contractor as shown on the approved plans.
H. Any changes or additions to pavement markings caused by pavement overlay, chip seal, or installation of underground facilities shall be shown on the approved plans.
I. On projects where the contractor causes excessive damage to an existing paved street or there are multiple street cuts (maximum of four (4) in five hundred (500) feet) an asphalt overlay shall be required.
J. A prime coat is not required unless so specified in the soils and pavement report and/or shown on the plans.
K. All curb and gutter, sidewalk, driveways, and sidewalk ramps shall be constructed on a minimum three (3) inches of aggregate base course (ABC). The ABC shall be constructed in accordance with MAG Section 310, and shall be compacted to ninety-five percent (95%) relative density. All precast structures such as manhole bases, catch basins, and box culverts shall be constructed on a minimum of three (3) inches of ABC.
L. Permanent Pavement Markings.
   1. Longitudinal pavement markings shall be installed in accordance with Section 13-16-006-0001.
   2. Transverse pavement markings such as stop bars, crosswalks, arrows, and legends shall be installed in accordance with Section 13-16-006-0002.
M. Temporary Pavement Markings.
   1. Temporary pavement markings, when approved, shall be installed in accordance with Sections 13-16-006-0001 and 13-16-006-0002.

NOTES:
   1. The use of temporary markings is strongly discouraged and may only be used with prior approval. When it is used, the contractor must be available to restripe as needed until the permanent markings can be installed.
   2. When it is impracticable for the contractor to provide permanent markings, the City Public Works Department may install the markings on behalf of the contract provided the fee for the work is agreed upon and paid for in advance.
N. The maximum thickness of a single lift of pavement shall be four (4) inches. (Ord. 2017-22, Rep&ReEn, 07/05/2017)

ABBREVIATIONS

AC	ASPHALTIC CONCRETE PAVEMENT
ACP	ASBESTOS CEMENT PIPE
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
APN	ASSESSORS PARCEL NUMBER
BC	TOP BACK OF CURB
BO	BLOW-OFF
BP	BEGIN POINT ALIGNMENT
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BOTTOM OF WALL
C&G	CURB & GUTTER
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
COF	CITY OF FLAGSTAFF
COMM	COMMERCIAL
D/W	DRIVEWAY
E	EASTING
EG	EXISTING GRADE
EL - ELEV	ELEVATION
EP	END POINT ALIGNMENT
EX	EXISTING
FC	FACE OF CURB
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LEN	LENGTH
LPS	LOW PRESSURE SODIUM
LT - L	LEFT
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
MB	MAIL BOX
ME	MATCH EXISTING
MIN	MINIMUM
MP	MID POINT (CURVE)
N	NORTHING
NA	NOT APPLICABLE
OFS	OFFSET
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE RELIEF VALVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
RAD - R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RES	RESIDENTIAL
ROW - R/W	RIGHT OF WAY
RT - R	RIGHT
S	SIGN
SD	STORM DRAIN
SRP	SPIRAL RIBBED PIPE
SS	SANITARY SEWER
STA	STATION
SW	SIDEWALK
TC	TOP OF CURB
TR	TOP OF RAMP
TS	TOP OF STAIR
TW	TOP OF WALL
WL	WATER LINE
WM	WATER METER
WV	WATER VALVE

LEGEND

EXISTING	PROPOSED
	MAJOR CONTOUR
	MINOR CONTOUR
	PARCEL
	RIGHT-OF-WAY
	CENTER
	EASEMENT
W	W WATER LINE
S	S SEWER LINE
G	G GAS LINE
E	E ELECTRIC LINE
COMM	COMM COMMUNICATION LINE
	STORMDRAIN/CULVERT
	FLOWLINE
	FENCE
	CONDUIT
	TREE (APPROXIMATE LOCATION)
	WATER VALVE
	FIRE HYDRANT
S	SEWER MANHOLE
	SEWER CLEANOUT
	GAS VALVE
T S	ELECTRICAL CABINET
	LIGHT POLE
CR PD	COMMUNICATION RISER
SD	STORM DRAIN MANHOLE
	CATCH BASIN
	BOLLARD/POST
	SIGN
	SURVEY CONTROL
	EV CHARGING STATION
	ASPHALT
	CONCRETE
	LANDSCAPE
	DETECTIBLE WARNING

QUANTITY SUMMARY

NOTE	DESCRIPTION	QTY	UNITS
REMOVALS			
1	Remove and dispose asphalt	20	SY
3	Remove and dispose of curb & gutter	5	LF
10	Remove and dispose of fence	100	LF
15	Salvage sign, remove and dispose of post & footing	2	EA
80	Remove and dispose of tree	1	EA
81	Remove and stump & rootball	1	EA
90	Clear & grub	1	LS
ADJUSTMENTS			
110	Install salvaged sign on new post	2	EA
NEW CONSTRUCTION			
201	AC pavement section	20	SY
205	Concerete pavement section	1170	SF
210	Concerete sidewalk section	1030	SF
220	Type A Curb and gutter	30	LF
221	Type A single curb H=6"	50	LF
222	Type A single curb H=0"	51	LF
225	Curb termination	2	EA
231	Curb cut	1	
240	ADA Striping and signage	1	EA
245	Parking bumper	4	EA
250	Lane striping	1	LS
261	Riprap	90	SF
MISCELLANEOUS			
810	EV charging station	3	EA
850	Straw wattles	30	LF

FINAL 1 PLANS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

REVISION	DESCRIPTION	DATE

201 E. Birch Ave., Suite 3
Flagstaff, AZ 86001
(928) 774-4046

Peak ENGINEERING, INC.
Connecting Place to People

Registered Professional Engineer (Civil) CERTIFICATE NO. 60461 SAMUEL A. HEFFELFINGER Date Signed 5/18/21 ARIZONA U.S.A.

CITY OF FLAGSTAFF
PULLIAM AIRPORT ELECTRIC VEHICLE (EV) PARKING
NOTES & LEGEND
COF PROJECT NO. ARO883P-A

JOB NO:21COF01	BY:MRB
DATE: MAY 2021	CHECKED:SAH

C1.1

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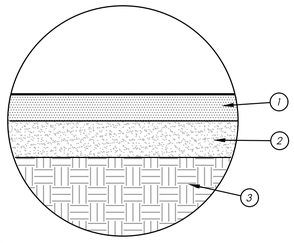
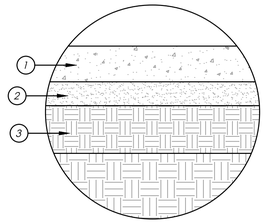


NOTES
1. 4" THICK ¾" MIX ASPHALTIC CONCRETE.
2. 8" THICK ABC PER MAG SPEC. 702 AND THE COF REVISIONS TO MAG UNIFORM DETAILS AND SPECS. 100% COMPACTION. MOISTURE CONDITIONED TO OPTIMUM ±3% PER GEOTECHNICAL STUDY.
3. NATIVE SUBGRADE SCARIFIED TO A MIN. DEPTH OF 12", MOISTURE CONDITIONED TO OPTIMUM -1% TO +3% PER MAG SPEC. 301 & THE GEOTECHNICAL STUDY. 95% COMPACTION.

SEE GEOTECHNICAL STUDY PERFORMED BY SAECO PROJECT NUMBER 44.19.2160, DATED DECEMBER 19, 2019.

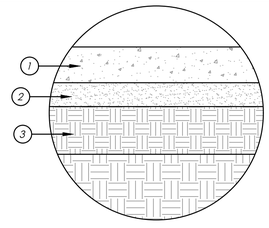
A1 / C1.2 **ASPHALT SECTION**
NOT TO SCALE



*KEYNOTES STANDARD
1. 8" PORTLAND CEMENT CONCRETE CLASS A, CONTAINING 5 to 7% AIR ENTRAINMENT, AND CONFORMING TO APPLICABLE REQUIREMENTS OF SECTION 725. PER MAG SPEC. 340 AND COF ADDENDUM TO MAG.
2. 4" AGGREGATE BASE COURSE PER MAG SPEC 310 AND 702. COMPACTED TO 100%. MOISTURE CONDITIONED TO OPTIMUM ±3% PER THE GEOTECHNICAL STUDY.
3. NATIVE SUBGRADE SCARIFIED TO A MIN. DEPTH OF 12", MOISTURE CONDITIONED TO OPTIMUM -1% TO +3% PER MAG SPEC. 301 & THE GEOTECHNICAL STUDY. 95% COMPACTION.

SEE GEOTECHNICAL STUDY PERFORMED BY SAECO PROJECT NUMBER 44.19.2160, DATED DECEMBER 19, 2019.

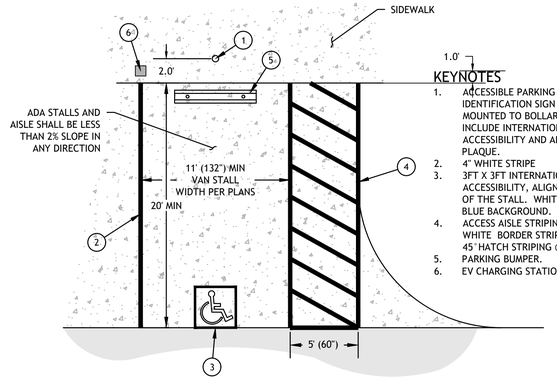
A2 / C1.2 **CONCRETE PAVEMENT SECTION**
NOT TO SCALE



*KEYNOTES STANDARD
1. 4" PORTLAND CEMENT CONCRETE CLASS A, CONTAINING 5 to 7% AIR ENTRAINMENT, AND CONFORMING TO APPLICABLE REQUIREMENTS OF SECTION S725. PER MAG SPEC. 340 AND COF ADDENDUM TO MAG.
2. 3" AGGREGATE BASE COURSE PER MAG SPEC 310 AND 702 (OR RECYCLED CRUSHED ASPHALT PER MAG SPEC 709). COMPACTED TO 100%.
3. NATIVE SUBGRADE SCARIFIED TO A MIN. DEPTH OF 8", MOISTURE CONDITIONED TO OPTIMUM TO ±2% OF OPTIMUM PER MAG SPEC. 301. 95% COMPACTION.

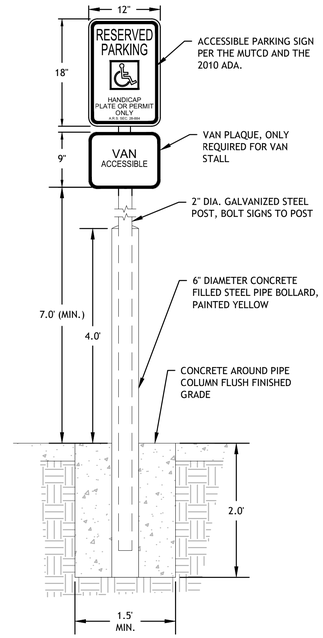
AWAITING GEOTECHNICAL INVESTIGATION

A3 / C1.2 **CONCRETE SIDEWALK SECTION**
NOT TO SCALE

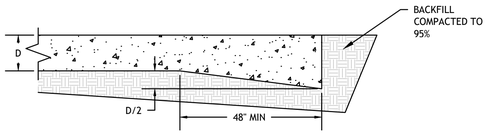


KEYNOTES
1. ACCESSIBLE PARKING SPACE IDENTIFICATION SIGN PER DETAIL F, MOUNTED TO BOLLARD. SIGN SHALL INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND ADDITIONAL VAN PLAQUE.
2. 4" WHITE STRIPE
3. 3FT X 3FT INTERNATIONAL SYMBOL OF ACCESSIBILITY, ALIGNED WITH THE END OF THE STALL. WHITE SYMBOL WITH BLUE BACKGROUND.
4. ACCESS AISLE STRIPING, INCLUDING: 4" WHITE BORDER STRIPE; 4" WHITE 45° HATCH STRIPING @ 36" O.C. MAX.
5. PARKING BUMPER.
6. EV CHARGING STATION

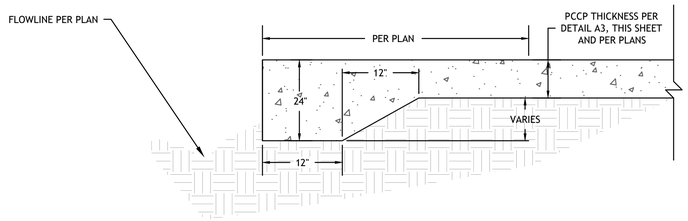
A4 / C1.2 **ADA PARKING STALL STRIPING**
NOT TO SCALE



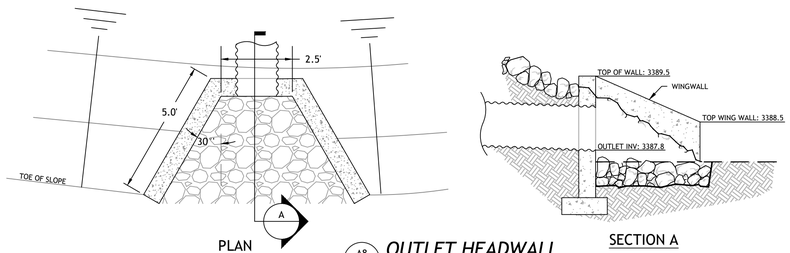
A5 / C1.2 **ADA PARKING SIGN AND BASE**
NOT TO SCALE



A6 / C1.2 **CONCRETE THICKENED EDGE**
NOT TO SCALE



A7 / C1.2 **CONCRETE TURNDOWN**
NOT TO SCALE



PLAN

SECTION A

A8 / C1.2 **OUTLET HEADWALL**
NOT TO SCALE

FINAL 1 PLANS

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ARIZONA811
Call 811 or click Arizona811.com

REVISION	DESCRIPTION	DATE

201 E. Birch Ave., Suite 3
Flagstaff, AZ 86001
(928) 774-4046

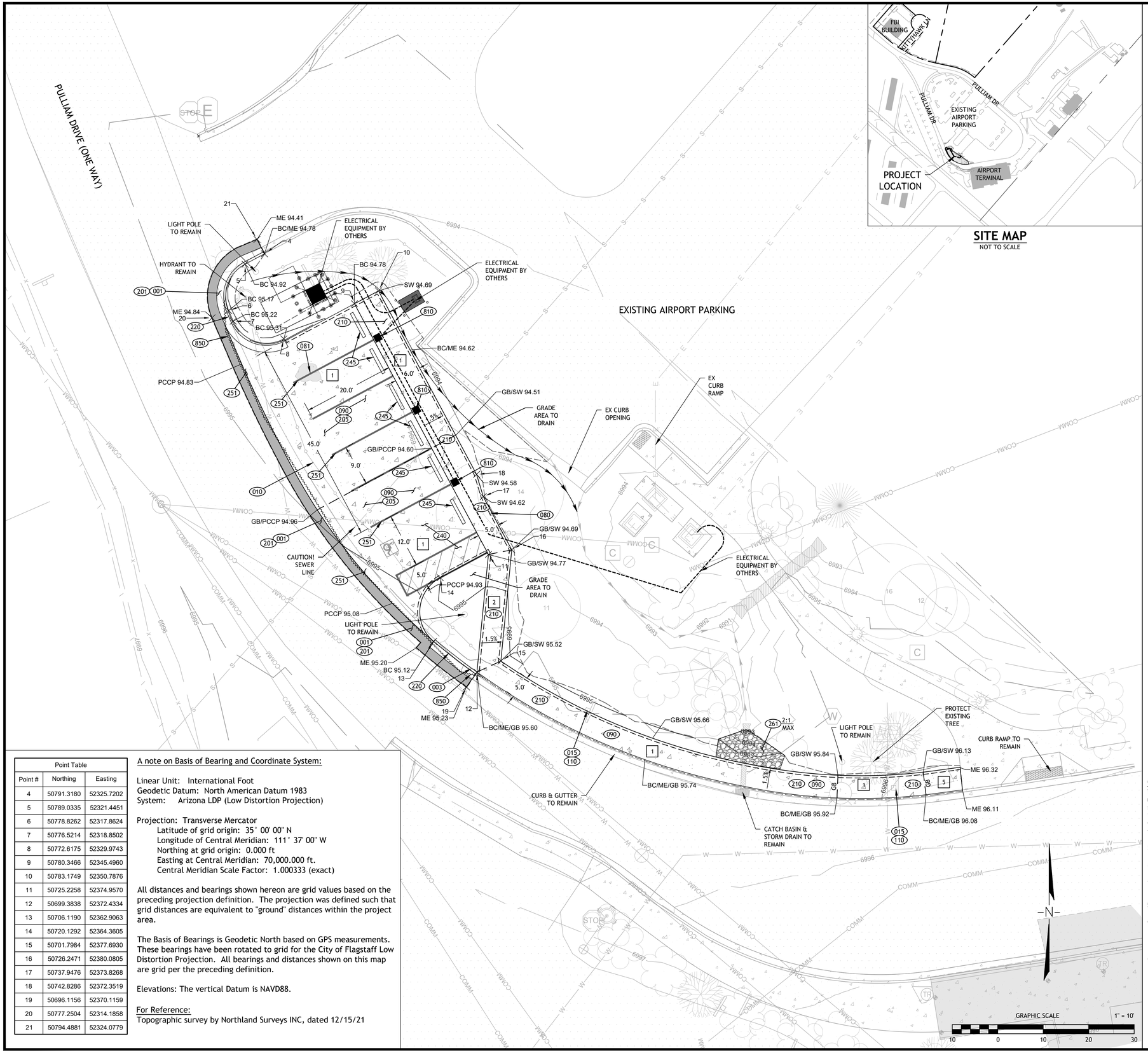
Peak ENGINEERING, INC.
Connecting Place to People

CERTIFICATE NO. 60461 SAM A. HEFFELFINGER — Registered Professional Engineer (Civil) — STATE OF ARIZONA — DATE SIGNED 5/18/21

CITY OF FLAGSTAFF
PULLIAM AIRPORT ELECTRIC VEHICLE (EV) PARKING
DETAILS
COF PROJECT NO. ARO883P-A

JOB NO:21COF01 | BY:MRB
DATE: MAY 2021 | CHECKED:SAH

C1.2



SITE MAP
NOT TO SCALE

Point Table		
Point #	Northing	Easting
4	50791.3180	52325.7202
5	50789.0335	52321.4451
6	50778.8262	52317.8624
7	50776.5214	52318.8502
8	50772.6175	52329.9743
9	50780.3466	52345.4960
10	50783.1749	52350.7876
11	50725.2258	52374.9570
12	50699.3838	52372.4334
13	50706.1190	52362.9063
14	50720.1292	52364.3605
15	50701.7984	52377.6930
16	50726.2471	52380.0805
17	50737.9476	52373.8268
18	50742.8286	52372.3519
19	50696.1156	52370.1159
20	50777.2504	52314.1858
21	50794.4881	52324.0779

A note on Basis of Bearing and Coordinate System:

Linear Unit: International Foot
Geodetic Datum: North American Datum 1983
System: Arizona LDP (Low Distortion Projection)

Projection: Transverse Mercator
Latitude of grid origin: 35° 00' 00" N
Longitude of Central Meridian: 111° 37' 00" W
Northing at grid origin: 0.000 ft
Easting at Central Meridian: 70,000.000 ft.
Central Meridian Scale Factor: 1.000333 (exact)

All distances and bearings shown hereon are grid values based on the preceding projection definition. The projection was defined such that grid distances are equivalent to "ground" distances within the project area.

The Basis of Bearings is Geodetic North based on GPS measurements. These bearings have been rotated to grid for the City of Flagstaff Low Distortion Projection. All bearings and distances shown on this map are grid per the preceding definition.

Elevations: The vertical Datum is NAVD88.

For Reference:
Topographic survey by Northland Surveys INC, dated 12/15/21

CONSTRUCTION NOTES (#)

REMOVALS (000)

001 20 SY
Remove and dispose asphalt. Sawcut asphalt at a clean line.

003 5 LF
Remove and dispose curb & gutter. Sawcut or remove at nearest joint.

010 100 LF
Relocate temp fencing, coordinate with COF PM for final location.

015 2EA
Salvage sign. Remove and dispose of sign post and footing.

080 1 EA
Remove and dispose of tree, stump and rootball.

081 1 EA
Remove and dispose of stump and rootball.

090 1 LS
Clear and grub. Includes trees <12" DBH.

ADJUSTMENTS (100)

110 2 EA
Reinstall salvaged sign to location shown on new post.

NEW CONSTRUCTION (200)

201 20 SY
4"AC/8"ABC pavement section per Detail A1, Sheet C1.2 or match existing thickness, whichever is greater.

205 1170 SF
8"PCCP/4"ABC pavement section per Detail A2, Sheet C1.2. Free edges to have turn down edge per Detail A7, Sheet C1.2.

210 1030 SF
4"PCC/3"ABC sidewalk section per Detail A3, Sheet C1.2. Width per plan. Free edges to have turn down edge per Detail A7, Sheet C1.2.

220 30 LF
Type 'A' curb & gutter on 3"ABC per MAG Standard Detail 220.

221 50 LF
Type 'A' single curb on 3"ABC per MAG Standard Detail 222.

222 51 LF
Type 'A' single curb on 3" ABC per MAG Standard Detail 222, modified to be flush H=0".

225 2 EA
Curb termination per MAG Standard Detail 222.

240 1 EA
ADA Van Stall signage and striping per Detail A4, Sheet C1.2.

245 6 EA
Parking bumper per MAG Standard Detail 150.

250 1 LS
6" wide solid stripe per COF Engineering Detail 16-06-010.

251 1 LS
4" wide parking stall striping.

261 90 SF
D50 hand placed riprap per Detail A8, Sheet C1.2.

MISCELLANEOUS (800)

810 3 EA
EV charging station by others.

850 100 LF
Straw waddles per Detail ES3, Sheet C1.2.

NOTES:
1. ADD 6900 TO SPOT ELEVATIONS SHOWN FOR ACTUAL ELEVATIONS.
2. UNDERGROUND UTILITIES SHOWN ARE BASED ON GIS.

GENERAL SLOPE AND GRADING NOTES (#)

The following notes are intended to provide general grading direction for areas that were not surveyed, or to communicate intent in areas that were surveyed. For areas that were surveyed actual elevations should be based on spot elevations shown. Slopes are shown for the contractor's reference, but should not be used for construction. Existing ground (EG) elevations are also shown for reference where applicable.

1. **Landing area** as defined by the 2010 ADA and the 2009 IBC. All slopes shall be less than 1V:48H (2%) in any direction.
2. **Sloping sidewalk.** Running slope shall be less than 1V:20H (5%), cross slope shall be less than 1V:48V (2%).
3. **Curb ramp.** Running slope shall be less than 1V:12H (8.33%), cross slope shall be less than 1V:48V (2%). Maximum rise shall be 6 inches or less.
4. **Ramp.** Running slope shall be less than 1V:12H (8.33%), cross slope shall be less than 1V:48V (2%). Maximum rise shall be 30 inches or less. Handrails are required on both sides of the ramp.
5. **Transition match-up slab.** Concrete transition from ADA compliant to existing grades, typically one full square of concrete unless other dimensions are shown on the plans.
6. **Stairs** shall have a landing at the top and bottom of each stairway complying with bullet 1 above. The width of landings shall not be less than the width of stairways they serve. Every landing shall have a minimum dimension measured in the direction of travel equal to the width of the stairway. Such dimension need not exceed 48 inches where the stairway has a straight run.
7. **Doorway threshold note:** The Contractor shall use caution during demolition and replacement of concrete at doorway thresholds. Prior to construction contractor shall investigate doorway threshold and adjacent slab within 10-ft of the entry to determine the existence of unusual concrete configurations including but not limited to utility tunnels, vaults, and concrete turndowns. If exterior concrete at the doorway is poured integral to building slab, contractor shall use care when removing in order to not damage the building slab, door, and threshold. The contractor is responsible for repair and/or replacement of any damage to the building, building slab, doorway, and threshold during construction activities.

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CITY OF FLAGSTAFF
PULLIAM AIRPORT ELECTRIC VEHICLE (EV) PARKING
CIVIL IMPROVEMENTS & GRADING PLAN
COF PROJECT NO. ARO883P-A

JOB NO:21COF01	BY:MRB
DATE: MAY 2021	CHECKED:SAH

C2.0