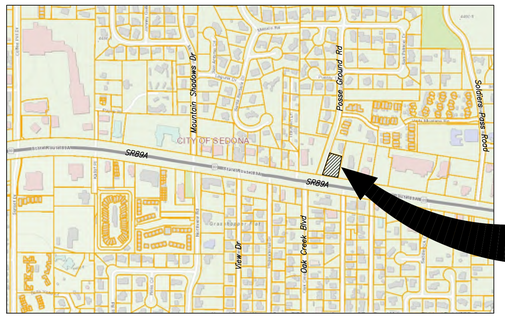
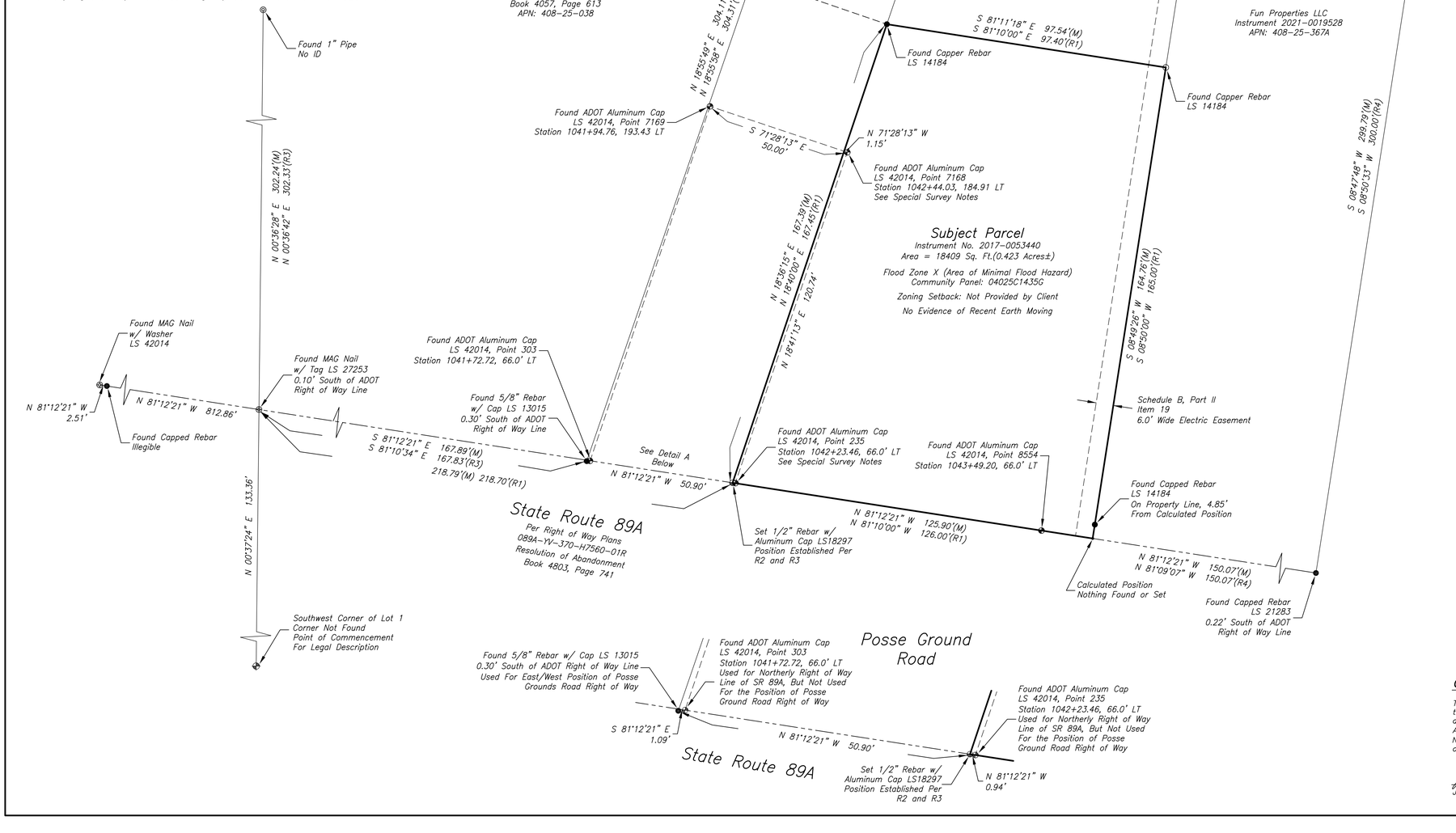


Project Location

Legal Description:

Referenced in the commitment for title insurance issued by Stewart Title Guaranty Company, File No. 154677EW, with a commitment date of June 23, 2021 at 7:30 AM.

EXHIBIT "A"
Description for a portion of Lot 1 and Lot 2 of Section 12, Township 17 North, Range 5 East of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, more particularly described as follows:
To find the TRUE POINT OF BEGINNING begin at the Southwest corner of Lot 1 of said Section 12;
THENCE North 00 degrees, 39 minutes, 00 seconds East, 133.36 feet to a point on the Northerly right of way line of Highway 89A;
THENCE South 81 degrees, 10 minutes, 00 seconds East, 218.70 feet along said Northerly right of way line of Highway 89A to the Southwest corner of the McFadden property and the TRUE POINT OF BEGINNING;
THENCE North 18 degrees, 40 minutes, 00 seconds East, 167.45 feet along the East side of Posse Ground Road; THENCE South 81 degrees, 10 minutes, 00 seconds East, 97.40 feet;
THENCE South 08 degrees, 50 minutes, 00 seconds West, 165.00 feet to a point on the Northerly side of Highway 89A;
THENCE North 81 degrees, 10 minutes, 00 seconds West, 126.00 feet along the Northerly right of way line of said Highway 89A and the POINT OF BEGINNING.



Survey Notes:
Field measurements used to prepare this plat were made during July, 2021.

Basis of Bearing and/or Coordinates:
All dimensions shown on this plat are measured and based on the following projection information.
Linear Unit: International Foot
Geodetic Datum: North American Datum of 1983(NAD83)
Projection: Sedona Low Distortion Projection (Transverse Mercator)
Latitude of Grid Origin: N 34°44'00"
Longitude of Grid Origin: W 111°48'00"
Northing at Grid Origin: 50000.000 ft.
Easting at Grid Origin: 0.000 ft.
Combined Scale Factor = 1.000206
Vertical Datum: NAVD 88
Geoid Model = GEOID18
The basis of bearings is true geodetic north. Grid bearings shown hereon do not equal geodetic bearings due to meridian convergence. All bearings shown are grid bearings.

This survey was conducted using GPS referenced to the National Spatial Reference System. Coordinates for GPS control points were derived using the Nation Geodetic Survey's, Online Positioning User Service (OPUS) REF FRAME: NAD_83(2011)(EPOCH:2010.0000).

The following documents were referred to during the course of the survey and preparation of this plat:
R1) Warranty Deed, Instrument No. 2017-0053440
R2) Record of Survey, Book 123 of Land Surveys, Page 12
R3) Record of Survey, Book 74 of Land Surveys, Page 83
R3) Record of Survey, Book 198 of Land Surveys, Page 26

Field measurements included locations of readily visible surface appurtenances of underground utilities, and evidence of utilities on or above the surface of the surveyed property as observed in the process of conducting the fieldwork, which evidence may indicate utilities located on, over or beneath the surveyed property. No record as-built utility information was provided therefore none is shown hereon. No excavations or other direct determinations of underground utility locations were made.

Documents used to prepare this survey were referenced in the Commitment for Title Insurance issued by Stewart Title Guaranty Company, File No. 154677EW, with a Commitment date of June 23, 2021 at 7:30 AM.
The following listing of Schedule B - Section 2 exceptions are from the above stated Commitment for Title Insurance. No attempt was made to resolve discrepancies if any, in easement documents. No attempt was made to research recorded or unrecorded easements, other than those listed in Schedule B - Section 2 exceptions of the above stated commitment for title insurance.

Following are the Schedule B - Section 2 exceptions listed:
Item No. - Instrument Type; Recording reference; Status for this survey.

Item 1 Not Survey Related.
Items 2 to 5 - Deleted Intentionally in the Commitment.
Items 6 to 7 - Not Survey Related.
Item 8 - Deleted Intentionally in the Commitment.
Items 9 to 10 - Not Survey Related.
Items 11 to 12 - Deleted Intentionally in the Commitment.
Item 13 - Easement(s) for telephone lines and incidental purposes; Book 517, Page 90 of Official Records; This instrument describes an easement 40' in width centered on a telephone line which existed in the vicinity of the Subject Parcel in 1967. The location map attached is to this instrument is illegible and therefor the easement is not plottable and Not Shown Hereon.
Item 14 - Easement(s) for road and incidental purposes; Book 519, Page 520 of Official Records. This instrument describes a right of way 66' in width for an existing roadway as shown on an attached map. The map does not specify which roadway the easement applies to therefor the easement is Not Shown Hereon.
Item 15 - Easement(s) for road and incidental purposes; Book 521, Page 521 of Official Records. This instrument describes a right of way 24' in width for an existing roadway as shown on an attached map. The map does not specify which roadway the easement applies to, however other recorded instruments indicate that this is the original easement for Posse Ground Road. Records indicate that the 24' is the easterly portion of the current 50' wide right of way with an additional 36' taken from the parcel on the west side of the right of way. The easement is Shown Hereon.
Item 16 - Easement for sign and incidental purposes; Book 524, Page 377 of Official Records; This instrument describes an easement for a sign that existed in the vicinity of the subject parcel in 1967; Not Shown Hereon.
Item 17 - Easement for highway and incidental purposes; Recorded in Book 520 of Surveys, Page 585; This instrument describes an easement for SR89A in the SE1/4 of Section 12; The document is somewhat illegible and not plottable. This easement has been superseded by current SR89A right of way; Not Shown Hereon.
Item 18 - Deleted Intentionally in the Commitment.
Item 19 - Easement(s) for electric lines and incidental purposes; Book 811, Page 650 of Official Records; This instrument describes an easement for electric lines 6' in width along the easterly boundary of the Subject Parcel. Shown Hereon.
Item 20 - Easement(s) for electric lines and incidental purposes; Book 1351, Page 182 of Official Records; Blanket easement, not definable; Not Shown Hereon.
Item 21 - Easement(s) for electric lines and incidental purposes; Book 1351, Page 321 of Official Records; Blanket easement, not definable; Not Shown Hereon.
Items 22 to 25 - Deleted Intentionally in the Commitment.

Special Survey Note: Arizona Department of Transportation through the resolution of abandonment recorded in Book 4803, Page 741 transfered the right of way for SR89A in the vicinity of the Subject Parcel to the City of Sedona. The abandonment however did not reference the most current set of right of way plans. The most current right of way plans referenced hereon shows what appears to be ADOT right of way projecting into the Posse Ground Road right of way. The ADOT right of way projecting into the Posse Ground Road right of way overlaps the Subject Parcel's westerly line per the R1 deed by ~1.0'. It is unclear as to the underlying rights of the portion of the Posse Ground Road shown on the ADOT right of way plans. It's our opinion that the deed for the Subject Parcel is senior and correct and takes precedence over the monumentation set by ADOT in this location.

Certification :

To Durban Development and Stewart Title Guaranty Company: This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(b), 7(a), 8, 9, 11(a), 13, 16, and 17 of Table A thereof. The fieldwork was completed on February 17th, 2021.

John A. Luckow — *7-27-2021*
John A. Luckow — *Date*

ALTA/NSPS Land Title Survey

Located in The South Half of Section 12, Township 17 North, Range 5 East, Gila & Salt River Baseline & Meridian, Yavapai County, Arizona

Client: Durban Development
Address: 80 Posse Ground Road
Sedona, AZ
APN: 408-25-038R

ARIZONA SURVEYING

Arizona Surveying, Inc
1843 W. Heavenly Ct
Flagstaff, AZ 86001

John Luckow, RLS
Tel: (928) 607-7092

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
18297
JOHN A. LUCKOW
Date Signed 7-28-21
ARIZONA U.S.A.

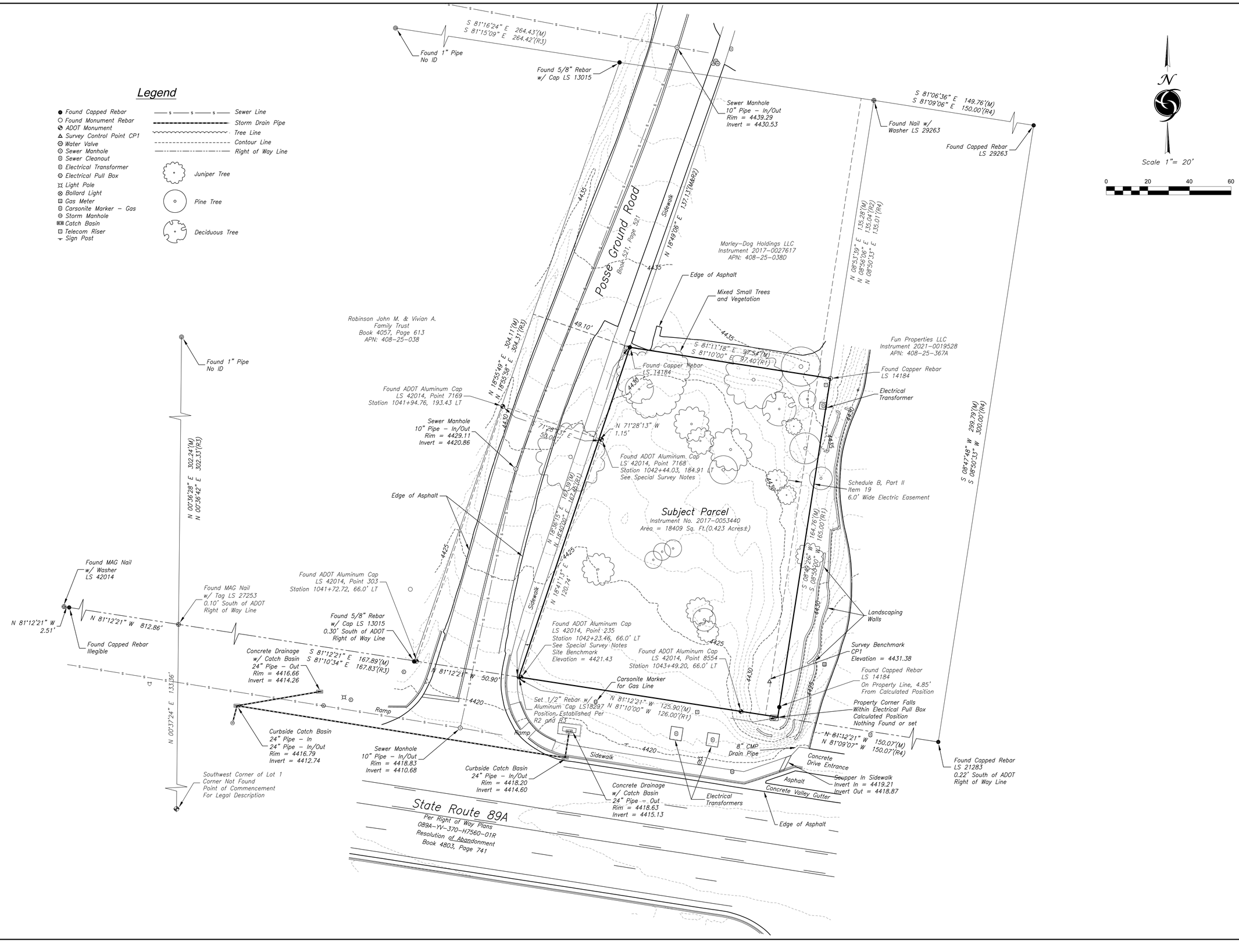
JOB NO:	21-38
DRAWN BY:	JS/BL
DATE:	7-27-2021
SCALE:	1" = 20'
REVISIONS:	

ALTA/NSPS Land Title Survey

Located in The South Half of Section 12, Township 17 North, Range 5 East, Gila & Salt River Baseline & Meridian, Yavapai County, Arizona

Legend

- Found Capped Rebar
- Found Monument Rebar
- ADOT Monument
- Survey Control Point CP1
- Water Valve
- Sewer Manhole
- Sewer Cleanout
- Electrical Transformer
- Electrical Pull Box
- Light Pole
- Bollard Light
- Gas Meter
- Carsonite Marker – Gas
- Storm Manhole
- Catch Basin
- Telecom Riser
- Sign Post
- Sewer Line
- Storm Drain Pipe
- Tree Line
- Contour Line
- Right of Way Line
- Juniper Tree
- Pine Tree
- Deciduous Tree



Client: Durban Development
Address: 80 Posse Ground Road
Sedona, AZ
APN: 408–25–038R

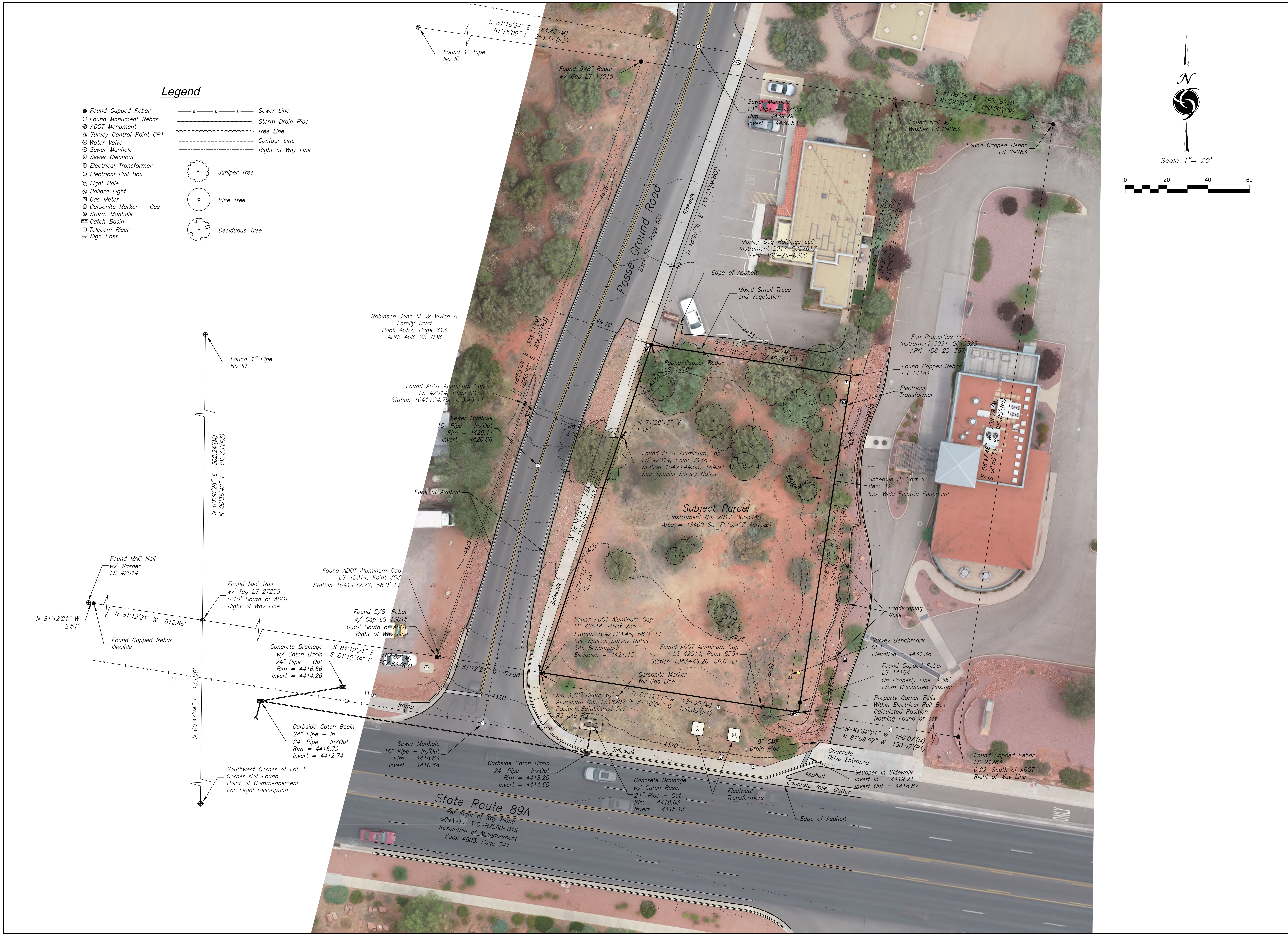
ARIZONA SURVEYING

Arizona Surveying, Inc
1843 W. Heavenly Ct
Flagstaff, AZ 86001

John Luckow, RLS
Tel: (928) 607–7092

REGISTERED LAND SURVEYOR CERTIFICATE NO. 18297 JOHN A. LUCKOW 7-28-21 Date Signed ARIZONA U.S.A.

JOB NO:	21–38
DRAWN BY:	JS/BL
DATE:	7–27–2021
SCALE:	1" = 20'
REVISIONS:	



ALTA/NSPS Land Title Survey

Located in The South Half of Section 12, Township 17 North, Range 5 East, Gila & Salt River Baseline & Meridian, Yavapai County, Arizona

Client: Durban Development
Address: 80 Posse Ground Road
Sedona, AZ
APN: 408-25-038R

ARIZONA SURVEYING

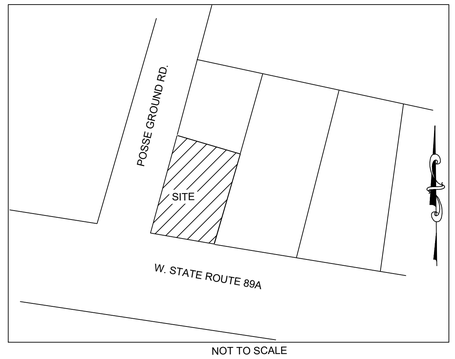
Arizona Surveying, Inc
1843 W. Heavenly Ct
Flagstaff, AZ 86001

John Luckow, RLS
Tel: (928) 607-7092

Registered Land Surveyor, Certificate No. 18297, John A. Luckow, Arizona, Date Signed 7-28-21

JOB NO:	21-38
DRAWN BY:	JS/BL
DATE:	7-27-2021
SCALE:	1" = 20'
REVISIONS:	

CONTEXT PLAN



VICINITY MAP *NTS*

GRAPHIC SCALE
0 60 90 100
(IN FEET)
1"=60'

Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

BY:	DESCRIPTION

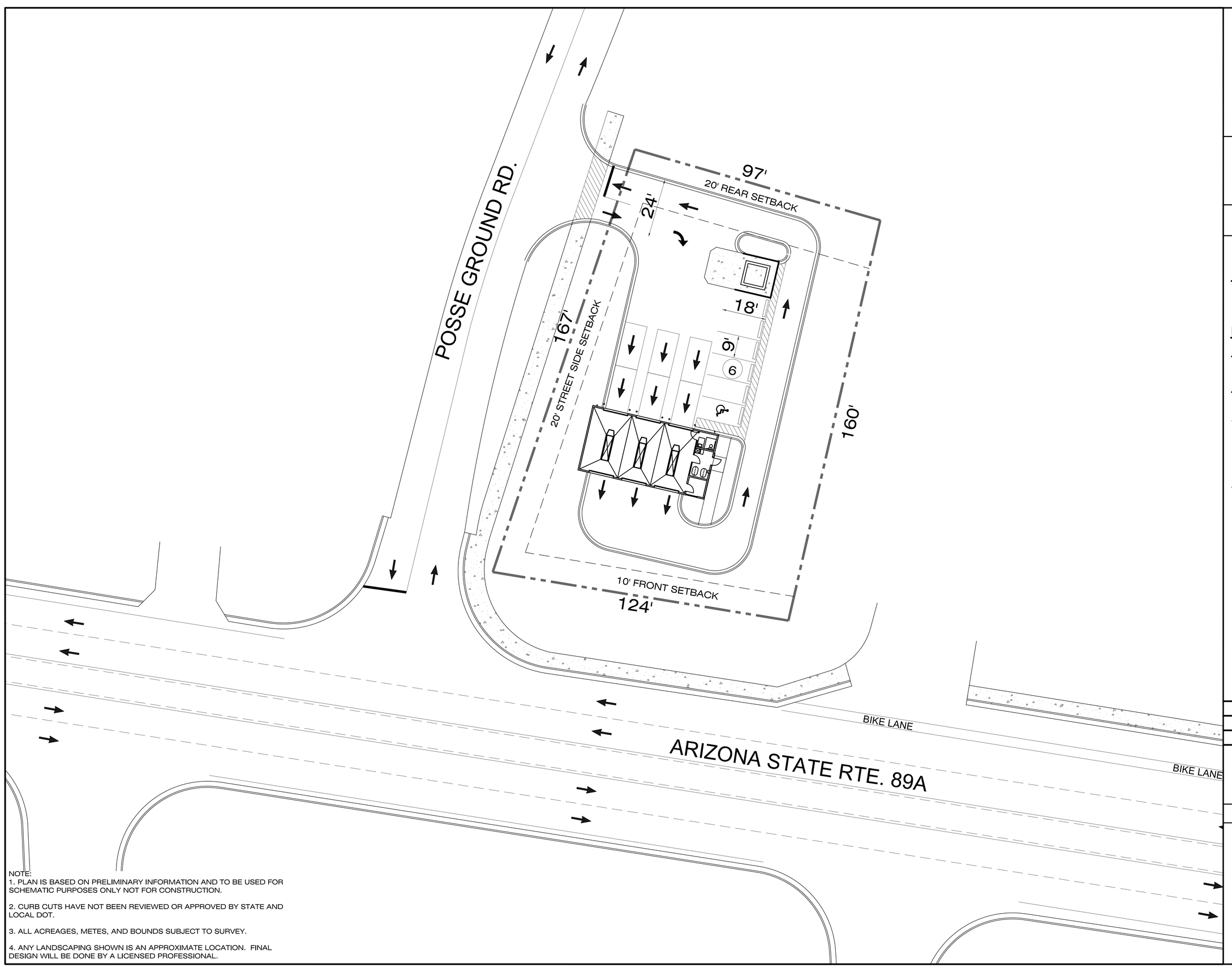
REV.
DATE:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

CONTEXT PLAN

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET 1 OF 1



NOTE:
1. PLAN IS BASED ON PRELIMINARY INFORMATION AND TO BE USED FOR SCHEMATIC PURPOSES ONLY NOT FOR CONSTRUCTION.

2. CURB CUTS HAVE NOT BEEN REVIEWED OR APPROVED BY STATE AND LOCAL DOT.

3. ALL ACREAGES, METES, AND BOUNDS SUBJECT TO SURVEY.

4. ANY LANDSCAPING SHOWN IS AN APPROXIMATE LOCATION. FINAL DESIGN WILL BE DONE BY A LICENSED PROFESSIONAL.

N
W E
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SEDONA, AZ

80 POSSE GROUND RD
SEDONA,AZ 86336

CONCEPTUAL SITE PLAN

Site Data Summary

Existing Zoning: CO (Commercial)

Parcel ID: 408-25-038R

Area Summary: 0.43 ACRES (18,589 SF)

Impervious Surface Ratio: .43 AC (18,730 SF)

Parking Summary:
Required: 6 spaces (2 per bay)
Provided: 6 spaces
Stall Size: 9' x 18'

Building Setbacks:
Front: 10'
Street Side: 10'
Rear: 20'

	Drawn By:
Date Prepared: 01/25/2021	DG

Prepared For:

DURBAN DEVELOPMENT

CORPORATE OFFICE:
106 FOSTER AVE
CHARLOTTE, NC 28203
PITTSBURGH OFFICE:
7500 BROOKTREE RD; SUITE 112
WEXFORD, PA 15090

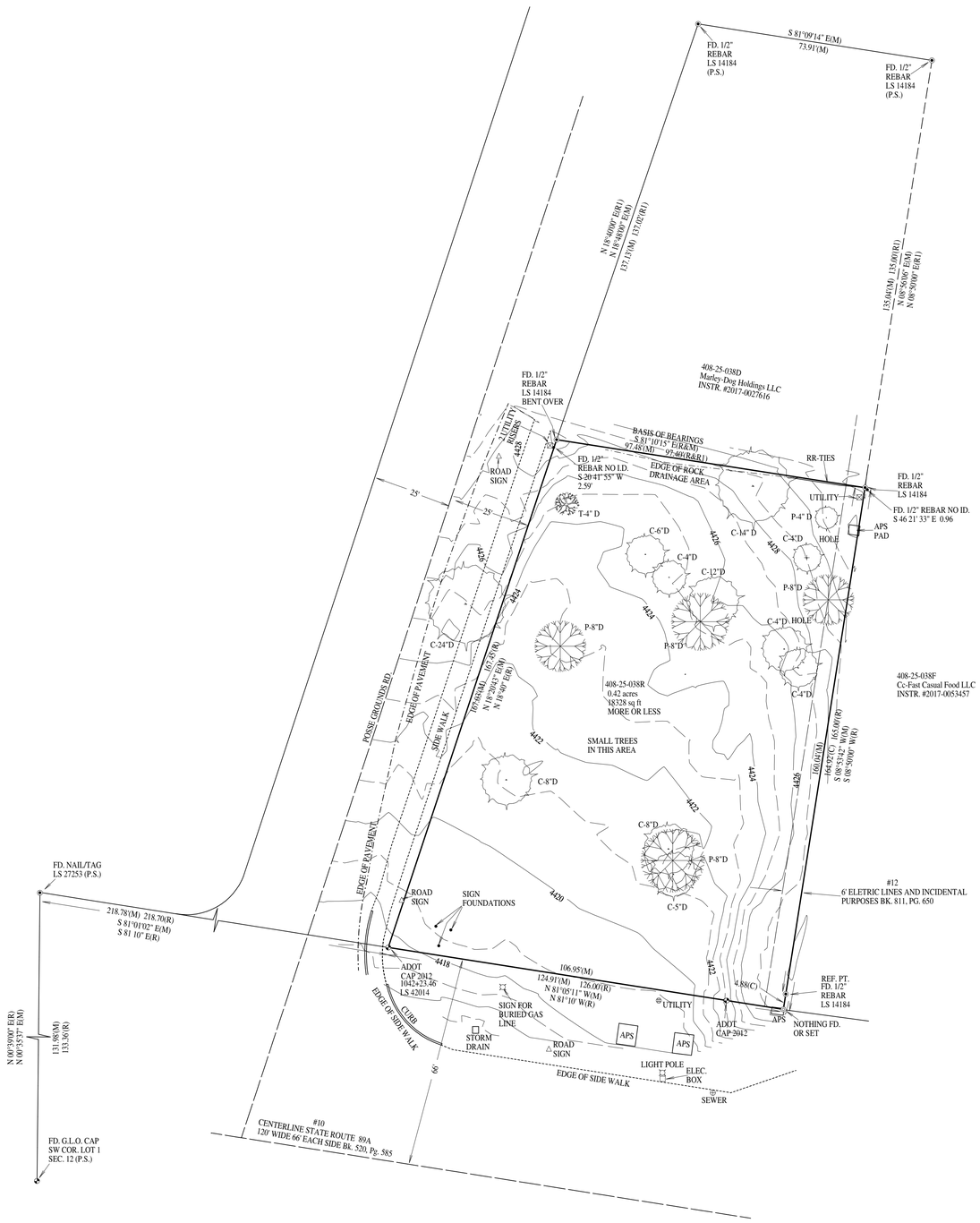
ALTA/NSPS LAND TITLE AND TOPOGRAPHICAL SURVEY

PORTION OF LOT 1 AND LOT 2 OF SECTION 12, T 17N, R 5E,
G. & S.R.M., YAVAPAI COUNTY, ARIZONA.

PARCEL #408-28-038R

SCHEDULE B EXCEPTION NOTES:

Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:
A. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the Effective Date but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
1. Water rights, claims or title to water, whether or not shown by the public records.
2. Reservations or exceptions in Patents, or in Acts authorizing the issuance thereof.
3. Liabilities and Obligations imposed upon said land by reason of its inclusion within water, improvement, fire or other districts or associations, if any.
4. Taxes for the second half of 2017. (The second half is due March 1, 2018 and is delinquent May 1, 2018).
5. Any action by the County Assessor and/or Treasurer, altering the current or prior tax assessment, subsequent to the date of the Policy of Title Insurance.
6. Easement(s) for telephone lines and incidental purposes, recorded in Book 517, page 90 of Official Records. "easement is for a right-o-way 40 feet in width, 20 feet each side of centerline, for an existing telephone line as shown on a map designated 5430" map is unlegibal.
7. Easement(s) for road and incidental purposes, recorded in Book 519, page 520 of Official Records. "easement is for a right-of-way 66 feet in width, 33 feet on each side of centerline, for a existing road as shown on a map designated 5430" map is unlegible.
8. Easement(s) for road and incidental purposes, recorded in Book 521, page 521 of Official Records. "easement is for a sign and right-of-way 24 feet in width, 12 feet each side of centerline of an existing road as shown on a map designated 5430" map is unlegible.
9. Easement(s) for sign and incidental purposes, recorded in Book 524, page 377 of Official Records. "easement is for a sign as shown on a map designated 5430" not enough data provided to located.
10. Easement(s) for highway and incidental purposes, recorded in Book 520, page 585 of Official Records. See map.
11. Easement(s) for water main and incidental purposes, recorded in Book 638, page 768 of Official Records Does not reach subject property..
12. Easement(s) for electric lines and incidental purposes, recorded in Book 811, page 650 of Official Records. See map.
13. Easement(s) for electric lines and incidental purposes, recorded in Book 1351, page 182 of Official Records. "to place, construct, operate, repair, maintain, relocate and re-place thereon and in or upon all streets, roads or highways abutting said lnads an electric transmission of destribution line or system, and to cut and trim trees and shrubbery to the extent necessary to keep them clear of said electric line or system and to cut down from time to time all dead, weak, leaning or dangerous trees that are tall enough to strike the wire in falling."
14. Easement(s) for electric lines and incidental purposes, recorded in Book 1351, page 321 of Official Records. "to place, construct, operate, repair, maintain, relocate and re-place thereon and in or upon all streets, roads or highways abutting said lnads an electric transmission of destribution line or system, and to cut and trim trees and shrubbery to the extent necessary to keep them clear of said electric line or system and to cut down from time to time all dead, weak, leaning or dangerous trees that are tall enough to strike the wire in falling."
15. All matters as set forth in recorded Disclosure for Territory in the vicinity of Sedona Public Airport Airport recorded in Book 57 of Maps, Page 22.
16. Matters as shown on survey recorded in Book 175 of Land Surveys, page(s) 36. Reviewed map.
17. Matters as shown on survey recorded in Book 183 of Land Surveys, page(s) 94. Reviewed map.



SCALE: 1"=20'
DATE: 04/28/2021

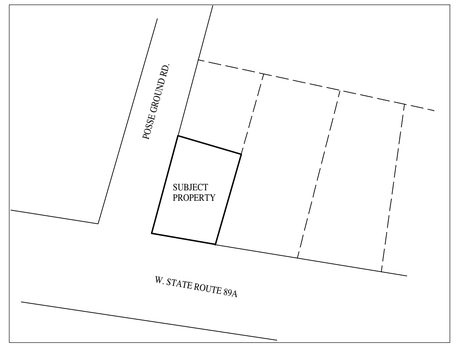
(R)=EMPIRE WEST TITLE AGENCY FILE NO. 78003
(R1)= BK. 4186, PG. 324
(M)=MEASURED
(C)=CALCULATED
(P.S.)= PREVIOUS SURVEY

TOPOGRAPHICAL DATA IS FROM A SURVEY DONE ON JANUARY 14, 2013. NO ATTEMPT WAS MADE TO UPDATE THE DATA.

CONTOUR INTERVALS:
MAJOR=2 FT.
MINOR= 1 FT.

CONTOURS ARE FROM GPS MEASUREMENTS AND NOT TIED TO ANY PARTICULAR DATUM.

SITE MAP



NOT TO SCALE

THIS PLAT IS SUBJECT TO ALL CONDITIONS, RESERVATIONS, AND OTHER ITEMS OF PUBLIC RECORD ON THIS 28th DAY OF APRIL, 2021.

THIS PLAT DOES NOT PURPORT TO VERIFY THE OWNERSHIP OF ANY PROPERTY SHOWN OR INVOLVED IN THIS SURVEY. ANY EASEMENTS OR OTHER INCUMBRANCES SHOULD BE DETERMINED BY A TITLE SEARCH.

SURVEYOR'S CERTIFICATE:

THIS RESULTS OF SURVEY MAP AND THE FIELD SURVEY ON WHICH IT IS BASED WERE CONDUCTED DURING THE MONTH OF APRIL, 2021, UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE STANDARDS GOVERNING THE CREATION OF LAND SURVEY BOUNDARIES WITHIN THE STATE OF ARIZONA AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS MAP WAS PREPARED FOR A SPECIFIC PURPOSE PURSUANT TO AN AGREEMENT WITH THE CLIENT. ONLY THOSE EASEMENTS INDICATED IN THE EMPIRE WEST TITLE AGENCY INC FILE NO. 78003, ARE INDICATED ON THIS PLAT. NO ATTEMPT WAS MADE BY THIS SURVEYOR OR HAMMES SURVEYING LLC.TO DETERMINE IF ANY ADDITIONAL EASEMENTS OR ENCUMBRANCES EXIST. THIS SURVEYOR AND HAMMES SURVEYING LLC WILL NOT ACCEPT ANY LIABILITY FOR LOSS OR DAMAGES DUE TO ANY EASEMENTS, ENCUMBRANCES, SUBSURFACE CONDITIONS, STRUCTURES AND OR UTILITIES NOT INDICATED ON THIS PLAT.

SURVEYOR'S NOTES:
1. THE WORD CERTIFY AS SHOWN OR USED HEREON MEANS AN EXPRESSION OR PROFESSIONAL OPINION REGARDING THE FACTS OF THIS SURVEY AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED.

2. THE INTENT OF THIS SURVEY IS TO PROVIDE A ALTA/NSPS SURVEY OF THE REFERENCED PROPERTY.

3. DECLARATION IS MADE TO THE ORIGINAL PURCHASER OF THIS SURVEY. IT IS NOT TRANSFERABLE TO ADDTIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

4. GROSS LAND AREA. 0.42 ACRES, 18328 SQ FT. MORE OR LESS.

NOTE: TREES AS SHOWN ON THIS PLAT AND ACCOMPANING DIGITIZED FILE ARE FOR GRAPHIC REFERENCE. CANOPY DISTANCES ARE AVERAGED FOR EACH TREE. PLEASE NOTIFY SURVEYOR FOR SPECIFIC TREE LOCATION OF ANY TREE FOR CONSTRUCTION PURPOSES AT NO ADDITIONAL CHARGE.

THIS PDF FILE IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION PURPOSES. IT IS A GRAPHIC REPRESENTATION OF THE ORIGINAL PLAT. CONTACT SURVEYOR FOR AN ORIGINAL HARD COPY OR DWG FILE FOR DESIGN WORK.

TABLE A ITEMS

1. Monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by existing monuments or witnesses in close proximity to the corner., SEE PLAT.
4. Gross land area (and other areas if specified by the client)., SEE PLAT.
7. Exterior dimensions of all buildings at ground level. ,7.1 exterior footprint of all buildings at ground level. No buildings observed.
8. Substantial features observed in the process of conducting the fieldwork (in addition to the improvements and features required pursuant to Section 5 above) (e.g., parking lots, billboards, signs, swimming pools, landscaped areas, substantial areas of refuse)., SEE PLAT.
9. Number and type (e.g., disabled, motorcycle, regular and other marked specialized types) of clearly identifiable parking spaces on surface parking areas, lots and in parking structures. Striping of clearly identifiable parking spaces on surface parking areas and lots. No parking spaces observed.
11. Location of utilities existing on or serving the surveyed property (observed evidence). SEE PLAT.
13. Names of adjoining owners according to current tax records. SEE PLAT.

CERTIFICATION

To: Farshid Paydar, and Empire West Title Agency

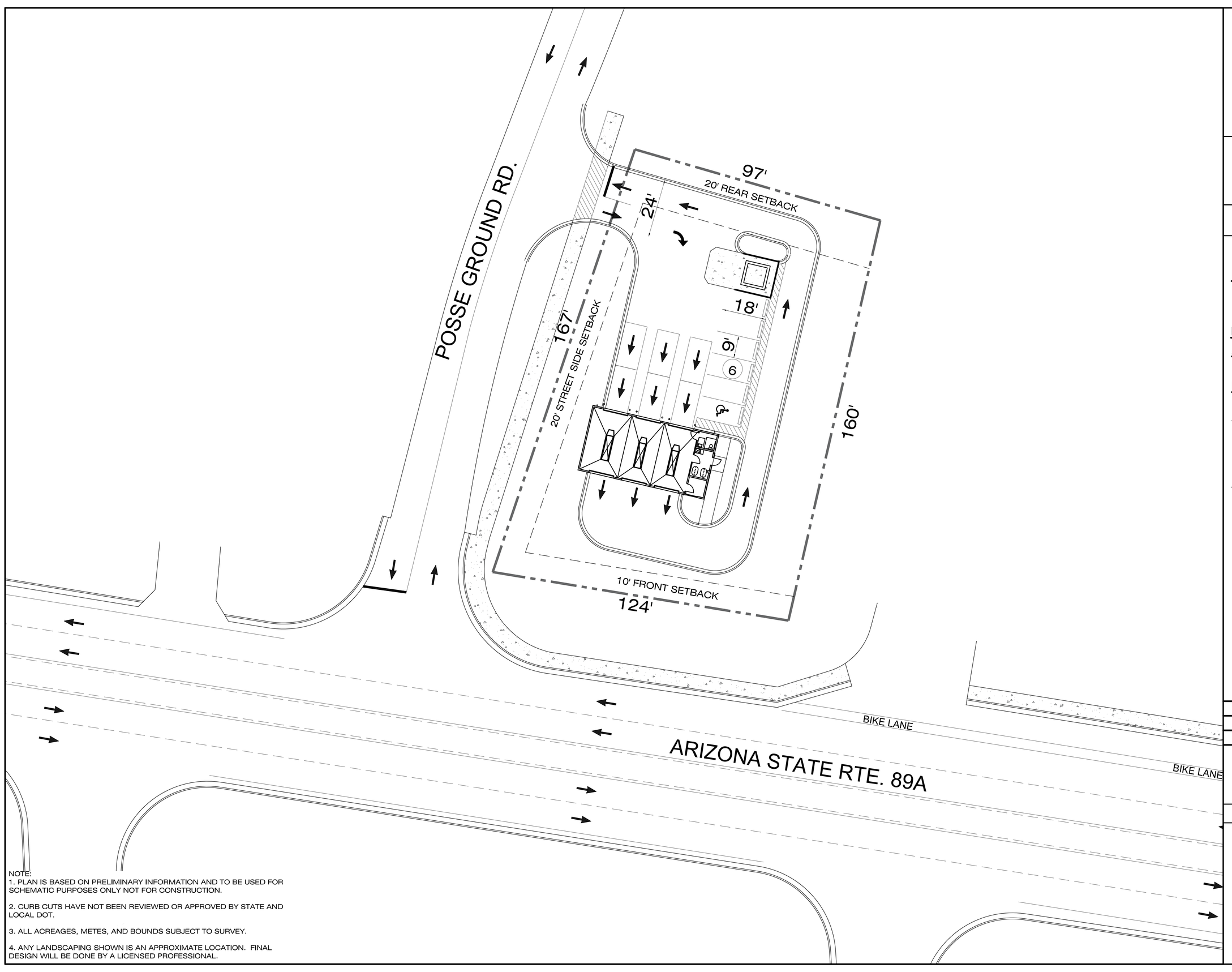
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1,4,7,8,9,11 & 13 of Table A thereof. The fieldwork was completed on 04/26/2021.
Date of Plat or Map: 04/28/2027

Timothy L. Hammes, RLS 29263

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29263
TIMOTHY L. HAMMES
Date Signed
ARIZONA U.S.A.

04/28/2021

HAMMES SURVEYING LLC
2100 VIA SILVERADO
CAMP VERDE, AZ. 86322
(928) 282- 5686 (928) 567-2833



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4. ANY LANDSCAPING SHOWN IS AN APPROXIMATE LOCATION. FINAL DESIGN WILL BE DONE BY A LICENSED PROFESSIONAL.

N
W E
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SEDONA, AZ

80 POSSE GROUND RD
SEDONA,AZ 86336

CONCEPTUAL SITE PLAN

Site Data Summary

Existing Zoning: CO (Commercial)

Parcel ID: 408-25-038R

Area Summary: 0.43 ACRES (18,589 SF)

Impervious Surface Ratio: .43 AC (18,730 SF)

Parking Summary:
Required: 6 spaces (2 per bay)
Provided: 6 spaces
Stall Size: 9' x 18'

Building Setbacks:
Front: 10'
Street Side: 10'
Rear: 20'

	Drawn By:
Date Prepared: 01/25/2021	DG

Prepared For:

DURBAN DEVELOPMENT

CORPORATE OFFICE:
106 FOSTER AVE
CHARLOTTE, NC 28203
PITTSBURGH OFFICE:
7500 BROOKTREE RD; SUITE 112
WEXFORD, PA 15090

NOTE:
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SEDONA, AZ

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Street Side: 10'
Rear: 20'

Date Prepared: 01/25/2021	Drawn By: DG

Prepared For:

DURBAN DEVELOPMENT

Corporate Office:
106 Foster Ave
Charlotte, NC 28203
Pittsburgh Office:
7500 Brooktree Rd; Suite 112
Wexford, PA 15090

DURBAN GROUP
CLIENT / DEVELOPER
106 Foster Avenue
Charlotte, NC 28203
Telephone: 704.319.8330

Gensler
ARCHITECT
2575 E Camelback Rd Suite
175, Phoenix, AZ 85016
Telephone: 602.523.4900

Britt, Peters, and Associates, Inc.
STRUCTURAL ENGINEER
1307 West Morehead Street
Charlotte, NC 28208
Telephone: 980.999.6122

Allied Consulting Engineers
M/E/P ENGINEER
2905-D Queen City Dr.
Charlotte, NC 28208
Telephone: 704.399.3943

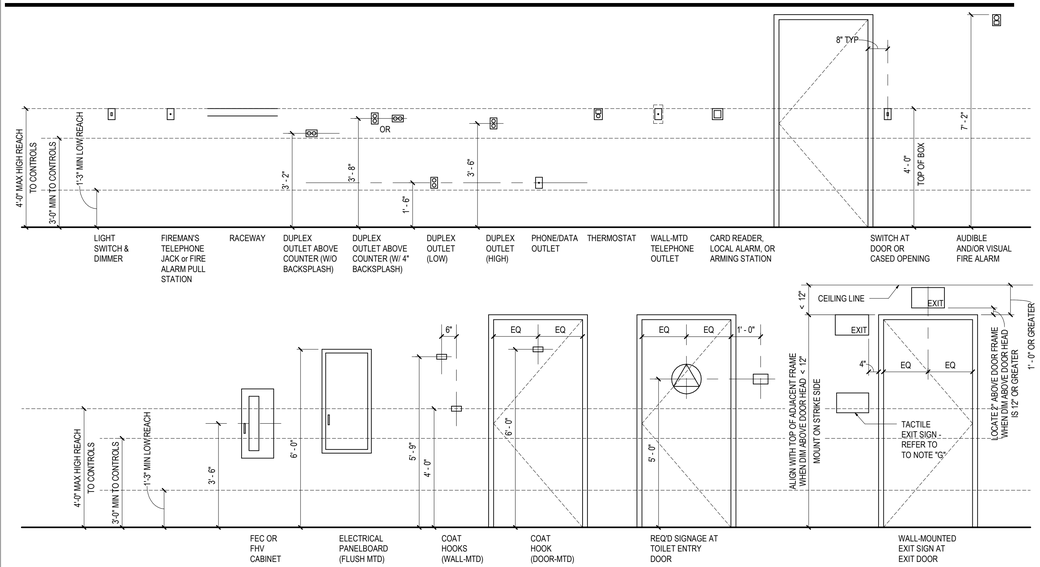
Tidewater Engineering, Inc.
CIVIL ENGINEER
200 Plantation Chase, #16
St. Simons Island, GA 31522
Telephone: 912.268.2164

Take 5 Oil Change

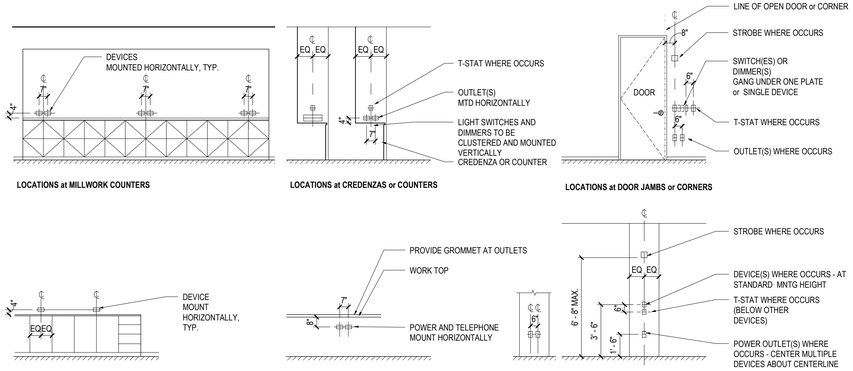
80 Posse Ground Rd
Sedona AZ 86336

G0.000
59.6678.008
ISSUE FOR CONSTRUCTION | 10.08.2021

TYPICAL MOUNTING HEIGHTS

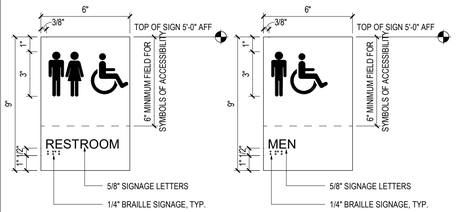


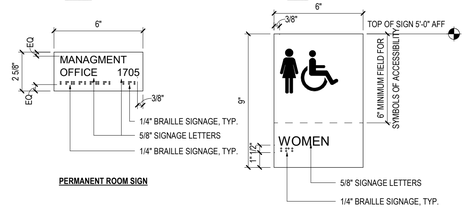
TYPICAL MOUNTING LOCATION DIAGRAMS



CODE REQUIRED SIGNAGE

ALL SIGNAGE TO BE COORDINATE WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION





DRAWING INDEX

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G0.000	COVER	1	ISSUE FOR CONSTRUCTION	10.08.2021
G1.001	SHEET INDEX, PROJECT INFORMATION AND TYPICAL SIGNAGE DETAILS	1	ISSUE FOR CONSTRUCTION	10.08.2021
G1.002	ABBREVIATIONS, GRAPHIC SYMBOLS, AND GENERAL NOTES	1	ISSUE FOR CONSTRUCTION	10.08.2021
G3.001	DOOR SCHEDULE, WINDOW SCHEDULE, DOOR TYPES, INTERIOR AND EXTERIOR WALL TYPES	1	ISSUE FOR CONSTRUCTION	10.08.2021
CIVIL				
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C-07	SITE DETAILS 1	1	ISSUE FOR CONSTRUCTION	10.08.2021
C-08	SITE DETAILS 2	1	ISSUE FOR CONSTRUCTION	10.08.2021
C-09	UTILITY DETAILS	1	ISSUE FOR CONSTRUCTION	10.08.2021
C-10	LANDSCAPE PLAN	1	ISSUE FOR CONSTRUCTION	10.08.2021
LANDSCAPE				
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A3.101	BUILDING SECTIONS	1	ISSUE FOR CONSTRUCTION	10.08.2021
A4.101	WALL SECTIONS & EXTERIOR DETAILS	1	ISSUE FOR CONSTRUCTION	10.08.2021
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M1.01	MECHANICAL NOTES, DETAILS, SCHEDULES AND FLOOR PLANS	1	ISSUE FOR CONSTRUCTION	10.08.2021
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FIRE PROTECTION				
FP0.01	FIRE PROTECTION PLAN	1	ISSUE FOR CONSTRUCTION	10.08.2021

GENERAL NOTES:
1. ALL ITEMS ARE TO BE PURCHASED, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR, UNLESS NOTED OTHERWISE GENERAL CONTRACTOR SHALL USE NATIONAL PURCHASING ACCOUNTS FOR VENDORS LISTED BELOW.

#	EQUIPMENT SCHEDULE	PURCHASED BY	INSTALLED BY	VENDOR
1.	NEW OIL TANKS	OWNER	OWNER	
2.	USED OIL TANKS	OWNER	OWNER	
3.	PIT FRAMES	GC	GC	
4.	ROLLING DRAIN PANS	GC	GC	
5.	OFFICE SHELVING	GC	GC	
6.	OIL SEPARATOR	GC	GC	
7.	COOLANT MACHINE	OWNER	OWNER	
8.	PODIUM WORK STATIONS	OWNER	OWNER	
9.	COMPUTERS	OWNER	OWNER	
10.	COMPUTER MONITORS	OWNER	OWNER	
11.	DROP SAFE	OWNER	OWNER	
12.	AIR COMPRESSOR	OWNER	OWNER	
13.	USED OIL PUMP	OWNER	OWNER	
14.	SERVICE AREA SHELVING	GC	GC	
15.	BACK ROOM SHELVING	GC	GC	
16.	SECURITY CAMERAS	OWNER	OWNER	
17.	BUILDING SIGNS	OWNER	OWNER	

GC GENERAL CONTRACTOR
OWNER OWNER

Current list of Equipment Installers
Take 5 Oil Change
February 11, 2019

Texas, Oklahoma and Lousiana -

KT Equipment Services Inc
Tim Harryman
1530 Rutherford Rd,
Waxahachie, TX 75165
214-675-9516
Tim@ktequipserv.com

Florida up to Atlanta

Best Lubrication Equipment LLC
Glenn Best
P.O Box 819
Sharpes, FL 32959
321-261-6450
Glennbest1@gmail.com

North Carolina, South Carolina, Virginia and Tennessee

Professional Maintenance and Equipment
Mark Holden
8015 Maxwell Road
Wade, NC 28395
910-591-8915
Mark@Promainequip.com

PER IBC TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS) - TYPE VB

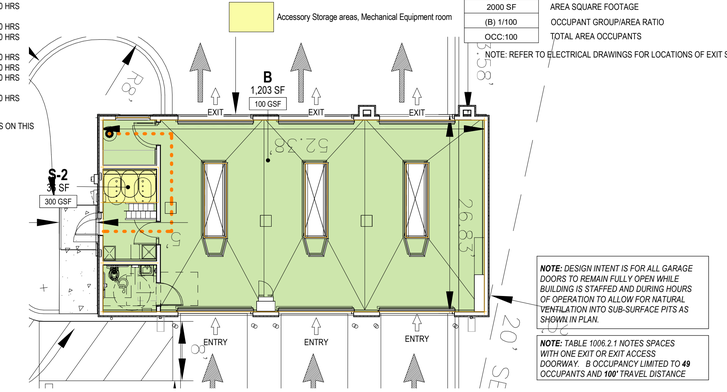
BUILDING ELEMENT	*REQUIRED RATING*
PRIMARY STRUCTURAL FRAME:	
BEARING WALLS	
EXTERIOR:	0 HRS
INTERIOR:	
NONBEARING WALLS & PARTITIONS	0 HRS
EXTERIOR:	0 HRS
INTERIOR:	
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	0 HRS
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBER	0 HRS

REFER TO OCCUPANCY, EGRESS AND PLUMBING CALCULATIONS ON THIS SHEET FOR ADDITIONAL INFORMATION

OCCUPANT LOAD SUMMARY	
OCCUPANCY CLASSIFICATION	OCCUPANT LOAD
LEVEL 01	
B Occupancy	13
S-2 Occupancy	0
	13
ATTIC LEVEL	
S-2 Occupancy	1
	1
Grand total	14

FUNCTION OF SPACE LEGEND

Business Areas
Accessory Storage areas, Mechanical Equipment room



EXITING PATH OF TRAVEL
333 SPACE EXIT
FEC FIRE EXTINGUISHER CABINET COORDINATE FINAL LOCATION WITH ARCHITECT AND FIRE INSPECTOR
AREA NAME AREA IDENTIFICATION
2000 SF AREA SQUARE FOOTAGE
(B) 1/100 OCCUPANT GROUP/AREA RATIO
OCC.:100 TOTAL AREA OCCUPANTS
* NOTE: REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS

NOTE: *DESIGN INTENT IS FOR ALL GARAGE DOORS TO REMAIN FULLY OPEN WHILE BUILDING IS STAFFED AND DURING HOURS OF OPERATION TO ALLOW FOR NATURAL VENTILATION INTO SUB-SURFACE PITS AS SHOWN IN PLAN.*

NOTE: *TABLE 1006.2.1 NOTES SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY. B OCCUPANCY LIMITED TO **49** OCCUPANTS AND **100'** TRAVEL DISTANCE*

LIFE SAFETY PLAN - LEVEL 01

SCALE: 1/8" = 1'-0"

CODE AND LIFE SAFETY DATA

PROJECT INFORMATION

Project Name : Take 5 Oil Change
Project Description: Ground Up Construction, including Site Work of Single Story, 3 Service Bay Take 5 Oil Change with restroom, storage and support space.
Project Address: 80 Posse Ground Rd Sedona AZ 86336
Proposed Use/ Occupancy : (B) Business

APPLICABLE CODES

BUILDING	2018 INTERNATIONAL BUILDING CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
FIRE CODE:	2012 INTERNATIONAL FIRE CODE
ACCESSIBILITY STANDARD:	2010 ADAAG MANUAL
OTHER CODE:	2018 INTERNATIONAL FUEL GAS CODE

LEAD DESIGN PROFESSIONAL: GENSLER

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	E-MAIL
Architectural:	GENSLER	DAWN HART	25633	602.523.4941	dawn_hart@gensler.com
Civil:	TIDEWATER ENGINEERING, INC	PETER SCHOENAUER	29615	864.271.8896	pete@tidewatereng.com
Electrical:	ALLIED ENGINEERS	E. DEAN BELK	53752	704.399.3943	DBelk@allied-engineers.com
Fire Alarm:	N/A	-	-	-	-
Plumbing:	ALLIED ENGINEERS	E. DEAN BELK	53752	704.399.3943	DBelk@allied-engineers.com
Mechanical:	ALLIED ENGINEERS	E. DEAN BELK	53752	704.399.3943	DBelk@allied-engineers.com
Sprinkler-Standpipe:	N/A	-	-	-	-
Structural:	BRITT PETERS & ASSOCIATES	DAVID IMPSOM	67704	864.271.8969	dimpsom@BrittPeters.com

BASIC BUILDING DATA

Construction Type: (Table 601) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers : (Chapter 9) ☒ No ☐ Partial ☐ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes : (Section 905) ☒ No ☐ Yes
Building Height : (Stories) 28-7" 1 STORY (2 STORY ALLOWED PER 503)

Occupancies : B (PRIMARY) WITH S-1 (ACCESSORY)

Gross Building Area:

FLOOR	EXISTING (SF)	NEW (SQ.FT	ALLOWABLE (506.2)
LEVEL 01	-	1,407	9,000

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM, OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS: REQUIRED	MINIMUM NUMBER OF EXITS: SHOWN ON PLANS	TRAVEL DISTANCE: ALLOWABLE TRAVEL DISTANCE	TRAVEL DISTANCE: ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS: REQUIRED DISTANCE BETWEEN EXIT DOORS	ARRANGEMENT MEANS OF EGRESS: ACTUAL DISTANCE SHOWN ON PLANS
LEVEL 01	1	1	100'-0" MAX	30'- 0"	--	--

OCCUPANT LOAD AND EXIT WIDTH

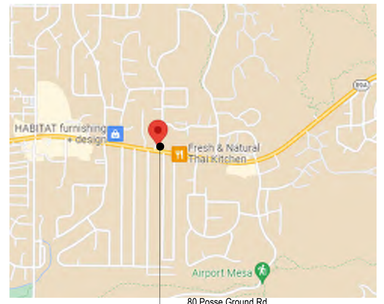
USE GROUP OR SPACE DESCRIPTION	(a) AREA (sq. ft.)	(b) AREA / OCCUPANT	CALCULATED OCCUPANT LOAD (a/b)	(c) EGRESS WIDTH PER OCCUPANT: STAIR	(c) EGRESS WIDTH PER OCCUPANT: LEVEL	Exit Width (in) REQUIRED WIDTH (a/b) x c: STAIR	Exit Width (in) REQUIRED WIDTH (a/b) x c: LEVEL	Exit Width (in) ACTUAL WIDTH SHOWN ON PLANS: STAIR	Exit Width (in) ACTUAL WIDTH SHOWN ON PLANS: LEVEL
LEVEL 01	--	--	14	0.3	0.2	N/A	2.8"	N/A	36"

PLUMBING FIXTURE CALCULATIONS FOR OCCUPANT LOAD OF 14 OCC.

LEVEL	WATERCLOSETS REQUIRED MALE	WATERCLOSETS REQUIRED FEMALE	WATERCLOSETS PROVIDED MALE	WATERCLOSETS PROVIDED FEMALE	LAVATORIES REQUIRED MALE	LAVATORIES REQUIRED FEMALE	LAVATORIES PROVIDED MALE	LAVATORIES PROVIDED FEMALE	DRINKING FOUNTAINS REQUIRED	DRINKING FOUNTAINS PROVIDED
LEVEL 01	1	1	*1	*1	1	1	*1	*1		

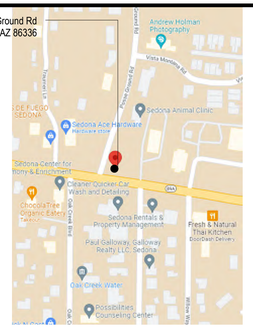
**UNISEX RESTROOM WILL SATISFY PLUMBING FIXUTRE COUNT. PER SECTION 2902.2 EXCEPTION 2 SEPERATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR TENANT SPACE WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEE AND CUSTOMERS, OF 15 OR FEWER.*

VICINITY MAP



LOCATION MAP

80 Posse Ground Rd
Sedona AZ 86336



Drawing North

Take 5 Oil Change

80 Posse Ground Rd
Sedona AZ 86336

Gensler

2575 E Camelback Rd
Suite 175
Phoenix, AZ 85016
United States

Tel 602.523.4900
Fax 602.523.4949

BRITT, PETERS & ASSOCIATES consulting engineers

Structural Engineer
1307 W. Morehead Street
Suite 205
Charlotte, NC 28208
Telephone 980.999.6122

ALLIED CONSULTING ENGINEERS

MEP Engineer
709 Catawba Street
Belmont, NC 28012
Telephone 704.399.3943

△	Date	Description
1	10.08.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

Project Name
Take 5 Oil Change

Project Number
59.6678.008

Description
SHEET INDEX, PROJECT INFORMATION AND TYPICAL SIGNAGE DETAILS

Scale
As indicated

G1.001

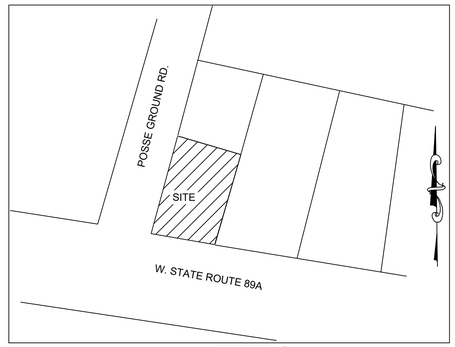
SITE IMPROVEMENT PLANS

TAKE-5 OIL CHANGE

80 POSSE GROUND ROAD

SEDONA, AZ 86336

PARCEL ID: 408-25-038R
ZONED: CO (COMMERCIAL)
SITE AREA: 0.43 AC



VICINITY MAP *NTS*

PROJECT CONTACT INFORMATION:

ENGINEER:

TIDEWATERENGINEERNIG, INC.
PETER SCHOENAUER, PE
200 PLANTATION CHASE
ST. SIMONS ISLAND, GA 31522
PHONE: (912) 268-2164
pete@tidewatereng.com

SURVEYOR:

ARIZONA SURVEYING, INC.
JOHN LUCKOW
1843 HEAVENLY COURT
FLAGSTAFF, AZ 86001
PHONE: (928) 607-7092
john.luckow@azscorp.com

DEVELOPER/PROPERTY OWNER:

SEDONA TAKE FIVE, LLC
STEPHEN KNUDSEN
106 FOSTER AVENUE
CHARLOTTE, NC 28203
PHONE: (704) 496-7120
stephen.knudsen@durbandevelopment.com

UTILITY PROVIDERS:

WATER:	ARIZONA WATER
SEWER:	CITY OF SEDONA
ELECTRIC:	ARIZONA PUBLIC SERVICE (APS)
GAS:	UNISOURCE ENERGY

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 BLUE STAKE, INC.

Call 811 or click Arizona811.com

SHEET INDEX

Registered Professional Engineer (Civil)
CERTIFICATE NO.
72867
PETER SCHOENAUER
Date Signed 10-15-2021
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

COVER SHEET

DRAWN: pss
APPROVED: pss

PROJ#: 21-041
SCALE: AS SHOWN

SHEET 1 OF 11

SEWER NOTES:

1. Engineering Department's Civil/Site Inspection Staff shall be notified 48 hours before any construction begins telephone (928) 282-1154.

2. All construction to conform to M.A.G. Specifications and Details and city of Sedona Specifications and Details, unless modified on the plans.

3. Compaction shall comply with M.A.G. Section 601 & City of Sedona requirements.

4. All lines must be tested for uniform slope by lamp lighting or remote camera before they are accepted as complete. Testing method must be approved in advance by the Engineering Department. The results shall be recorded and submitted to the engineer for review and approval.

5. Deflection testing for the entire length of PVC sewer lines shall be performed in accordance with MAG Standard Specification 615.11(c) and AAC R18-9-E301(D)(2)(i).

6. All manholes shall be tested using one of the following procedures:

A. Water Testing
In accordance with AAC R-18-9-E301(D)(3)(e), the entire manhole shall be filled with water and exfiltration shall be limited to 0.0034 of the total manhole volume in one hour.

B. Vacuum Testing
In accordance with AAC R-18-9-E301(D)(3)(e), manholes shall be tested in accordance with ASTM C- 1244-02, "Standard Test Method for Concrete Sewer Manholes by Negative Air Pressure (Vacuum) Test Prior to Backfill".

10. The contractor shall perform manhole testing after installation of the manhole cone to verify water tightness of the manhole from the top cone down. Upon satisfactory test results, the contractor shall install the manhole rings and spacers, complete with the joints and seal the manhole to a Water tight condition.

11. The entire sewer line shall be tested for tightness for each pipe material in accordance with AAC R18-9-E301(D)(2)(j).

12. All work must comply with requirements of the Manual on Uniform Traffic Control Devices (MUTCD)

13. New manholes are to be built without steps.

14. A six (6) foot minimum horizontal separation from any underground utility shall be provided for sewer mains, and water mains. The minimum horizontal separation is measured from outside of sewer main, or water main to outside of underground utility.

15. A one (1) foot minimum vertical separation from any dry underground utility crossing shall be provided for sewer mains, sewer services, water mains, and water services. The minimum vertical separation is measured from outside of sewer main, sewer service, water main, or water service to outside of dry underground utility.

16. A two (2) foot minimum vertical separation shall be provided between any water main or storm drain crossing a sewer main. The minimum vertical separation is measured from outside of sewer main to outside of water main or storm drain main.

17. Exceptions or deviations from the above minimum clearances must be approved and shown on the approved water and sewer plans. When utility conflicts are found during construction, all changes and revisions must be preceded by an approved plan revision.

18. Any and all more stringent requirements required by Federal, State, County, or Local codes or ordinances take precedence.

19. Any sewer lines that are installed with less than .004 ft/ft slope must be installed using a laser. 20. When DIP sewer pipe is used, an epoxy lining is required as approved by the City Engineer.

21. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.

22. Plan approval is valid for one year.

WATER NOTES:

1. Engineering Department's Civil/Site Inspection Staff shall be notified 48 hours before any construction begins telephone (928) 282-1154.

2. All construction to conform to M.A.G. Specifications and Details, City of Sedona and Arizona Water details and specifcations.

3. Compaction shall comply with M.A.G. Section 601.

4. Pipe deflection shall not exceed one-half (½) the manufacturers' recommendations.

5. All work must comply with requirements of the Manual on Uniform Traffic Control Devices (MUTCD)

6. The contractor is to notify the public that will be affected by any shutdowns a minimum of 48 hours in advance.

7. A six (6) foot minimum horizontal separation from any underground utility shall be provided for sewer mains and water mains. The minimum horizontal separation is measured from outside of sewer main or water main to outside of underground utility.

8. A one (1) foot minimum vertical separation from any dry underground utility crossing shall be provided for sewer mains, sewer services, water mains, and water services. The minimum vertical separation is measured from outside of sewer main, sewer service, water main, or water service to outside of dry underground utility.

9. A two (2) foot minimum vertical separation shall be provided between any sewer main and storm drain crossing a water main. The minimum vertical separation is measured from outside of water main to outside of sewer main or storm drain main.

10. Exceptions or deviations from the above minimum clearances must be approved and shown on the approved water and sewer plans. When utility conflicts are found during construction, all changes and revisions must be preceded by an approved plan revision.

11. Any and all more stringent requirements required by Federal, State, County, or Local codes or ordinances take precedence.

12. Water services shall be installed perpendicular to the water main. Water services at the end of cul-de sacs may vary as necessary, but will be approved on a case by case basis.

13. All services shall run in a straight line from the water main to the meter box.

14. Neither water service meter box nor any portion of a water service shall be installed under an existing or proposed driveway or sidewalk ramp.

15. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.

STREET / PAVING NOTES:

1. Engineering Department's Civil/Site Inspection Staff shall be notified 48 hours before any construction begins telephone (928) 282-1154.
2. All construction to conform to M.A.G. Specifications and Details and City of Sedona specifications.
3. Compaction shall comply with M.A.G. Section 601
4. Construction quantities on these plans are not verified by the city.
5. All work must comply with requirements of the Manual on Uniform Traffic Control Devices (MUTCD).
6. Existing or newly damaged and/or displaced concrete curb, gutter, sidewalk, or driveway slab that is within the right-of-way shall be repaired or replaced, as noted by city inspectors, before final acceptance of the work.
7. Exact point of pavement matching, termination and overlay, if necessary shall be determined in the field by the City Engineer or his/her authorized representative.
8. An approved Paving Plan shall be on the job site at all times. Deviations from the plan must be preceded by an approved plan revision.
9. Obstructions to proposed improvements in the right-of-way shall be removed or relocated before beginning construction of the proposed improvements.
10. All existing catch basins must be re-located when they are shown in a newly proposed driveway.
11. Any and all more stringent requirements required by Federal, State, County, or Local codes or ordinances take precedence.
12. No paving construction shall be started until all utility lines are completed under proposed paved areas.
13. The permit holder shall arrange for the relocation and relocation costs of all utilities, including any street lights, and submit a utility relocation schedule prior to the issuance of a construction permit.
14. Utility facilities in conflict with this work shall be relocated by the developer. This activity shall be coordinated with the owner of the utility to prevent any unnecessary interruption of service.
15. The paving contractor shall be responsible for the adjustment and placement of concrete collars, frames, covers, and valve boxes as necessary for a complete job as approved by the City Engineer or his/her authorized representative.
16. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.
17. Grading between back of curb and property line shall be limited to 4:1 slope
18. Base course shall not be placed until sub-grade has been approved by the City Engineer or his/her authorized representative.
19. No job will be considered completed until, curbs, pavements and sidewalks have been swept clean of all dirt and debris; and survey monuments are installed.
20. The location of all water valves, fire hydrants and manholes must at all times during construction be referenced by the contractor and made available to the City.
21. Existing street and traffic signs will be maintained during construction and relocated by the contractor as directed by the City Engineer or his/her authorized representative.
22. Certificate of Occupancy (C of O) and/or final electrical clearance for any building is denied until all offsite improvements are completed.
23. Trees and shrubbery in the right-of-way that conflict with proposed improvements shall not be removed without approval of the Engineering Inspector.

DRY UTILITIES NOTES:

1. Engineering Department's Civil/Site Inspection Staff shall be notified 48 hours before any construction begins telephone (928) 282-1154.
2. All construction to conform to M.A.G. Specifications and Details and City of Sedona specifications.
3. Compaction shall comply with M.A.G. Section 601
4. All work must comply with requirements of the Manual on Uniform Traffic Control Devices (MUTCD).
5. Any and all more stringent requirements required by Federal, State, County, or Local codes or ordinances take precedence.
6. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.
7. The contractor shall have a copy of the approved construction plans and approved traffic control plan at the project site at all times.
8. All utilities crossing existing City streets must be bored unless permission to open cut has been given in writing by the City Engineer or his authorized representative. Before starting any street cut or bore that crosses a major roadway, the contractor must schedule a separate field meeting with the project inspector to verify that all Blue Stake and design requirements are met.
9. Alignment on plans may not deviate more than 1' without getting approval of the City Engineer.
10. All work requiring asphalt replacement, concrete replacement, or resurfacing alleys in City right of way will require a final inspection with the utility company representative at time of completion.
11. Abandoned facilities shall be removed unless otherwise approved by the City Engineer.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
72867
PETER
SCHOENAUER
Date Signed 10.18.2021
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

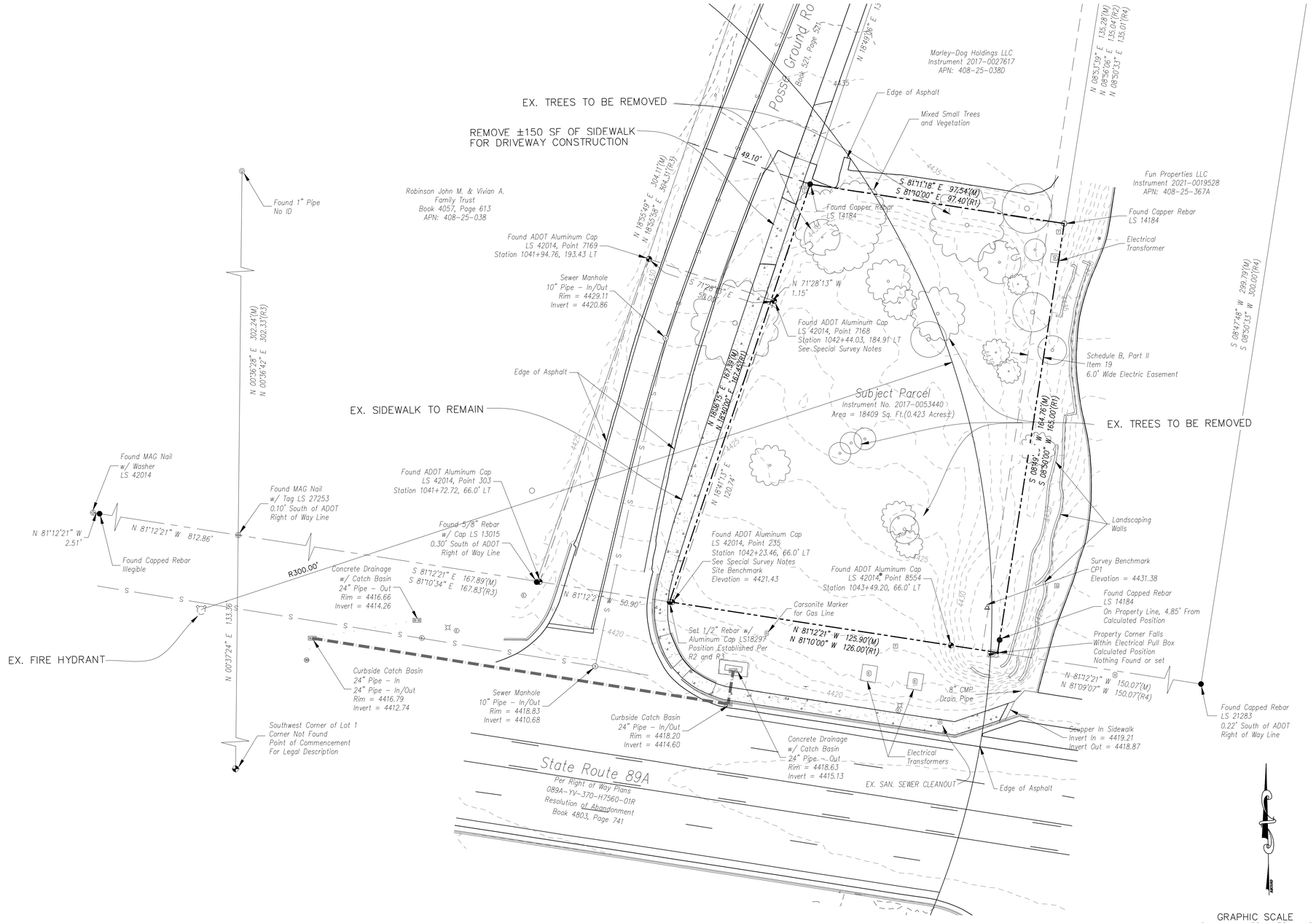
REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

STANDARD NOTES

DRAWN: pss
APPROVED: pss
DATE:
PROJ#: 21-041
SCALE: AS SHOWN

SHEET
2 OF 11



Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed 10-28-2022
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	BY:	DESCRIPTION

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

EX. CONDITIONS/DEMOLITION PLAN

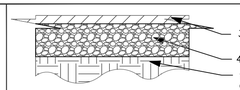
DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET 3 OF 11

PAVEMENT DETAILS

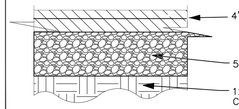
THE CONTRACTOR IS RESPONSIBLE FOR PAVEMENT SPECIFICATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. A COPY OF THIS REPORT CAN BE REQUESTED FROM THE OWNER.

ASPHALT PAVEMENT



STANDARD DUTY ASPHALT DETAIL (AUTO PARKING)

SCALE: NOT TO SCALE



HEAVY DUTY ASPHALT DETAIL (MAIN DRIVES, FIRE LANES, DRIVE THRU)

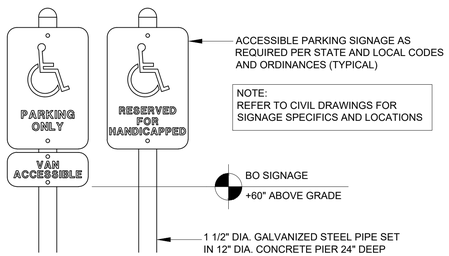
SCALE: NOT TO SCALE

CONCRETE PAVEMENT SPECS:

HEAVY DUTY– LOADING AREA, DUMPSTER PAD AND APRON:
MINIMUM 6" THICK, CLASS AA PORTLAND CEMENT CONCRETE OVER 4 INCHES OF AGGREGATE BASE COURSE.

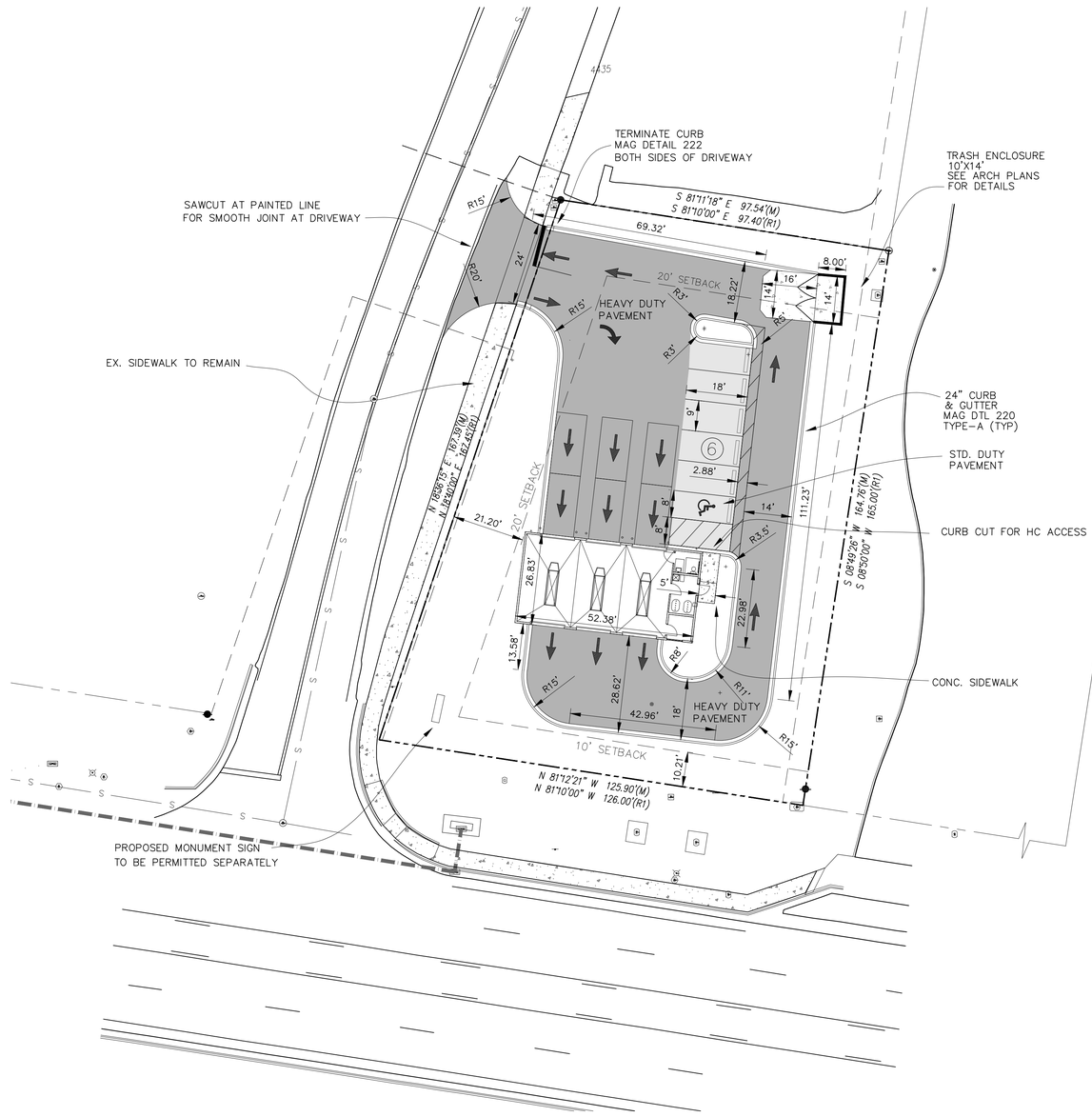
HEAVY DUTY AC PAVEMENT

STANDARD DUTY AC PAVEMENT



ACCESSIBLE PARKING SIGNAGE

N.T.S.



PARKING SUMMARY:

REQUIRED PARKING:
2 SPACES PER BAY: 6 SPACES REQUIRED

PROVIDED PARKING:
6 SPACES INCLUDING ONE HANDICAP SPACE

GRAPHIC SCALE
0 20 30 40
(IN FEET)
1"=20'

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

Registered Professional Engineer (Civil) CERTIFICATE NO. 72867 PETER SCHOENAUER Date Signed 10/16/2021 ARIZONA, U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

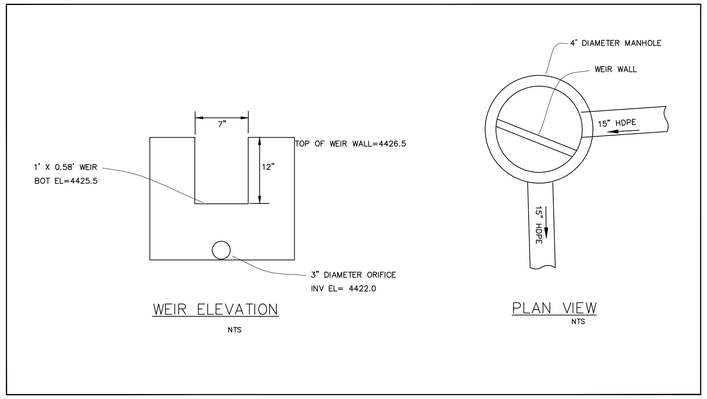
REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

STAKING PLAN

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET 4 OF 11



OUTLET CONTROL STRUCTURE

STR#1

CATCH BASIN ADS INLET
SEE DETAIL SHEET 11
GRATE ELEV.=4428.40
INVERT ELEV.=4423.50
PROVIDE 12" SUMP

STR#2

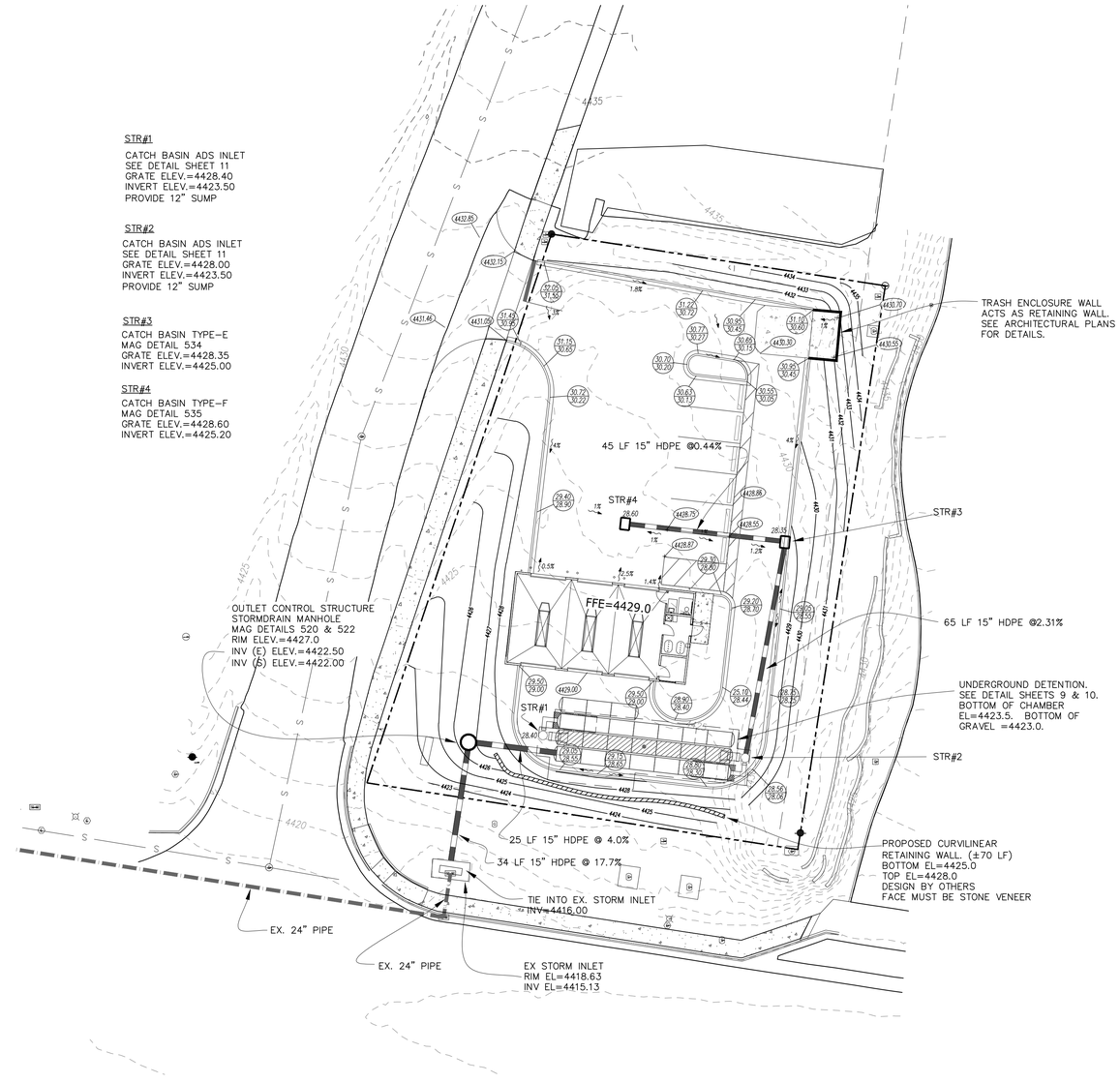
CATCH BASIN ADS INLET
SEE DETAIL SHEET 11
GRATE ELEV.=4428.00
INVERT ELEV.=4423.50
PROVIDE 12" SUMP

STR#3

CATCH BASIN TYPE-E
MAG DETAIL 534
GRATE ELEV.=4428.35
INVERT ELEV.=4425.00

STR#4

CATCH BASIN TYPE-F
MAG DETAIL 535
GRATE ELEV.=4428.60
INVERT ELEV.=4425.20



LEGEND:

STORMDRAIN

3423 EXISTING CONTOUR

3422 PROPOSED CONTOUR

21.30 / 20.80 TOP CURB / BOT. CURB

GRAPHIC SCALE
0 20 30 40
(IN FEET)
1"=20'

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 BLUE STAKE, INC.

Call 811 or click Arizona811.com

Registered Professional Engineer (Civil) CERTIFICATE NO. 72867 PETER SCHOENAUER Date Signed 12-28-2021 ARIZONA U.S.A.

Peter Schoenauer

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

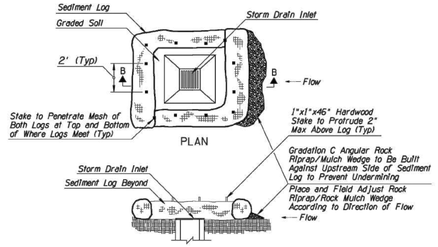
REV.	DATE:	BY:	DESCRIPTION

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

GRADING AND DRAINAGE PLAN

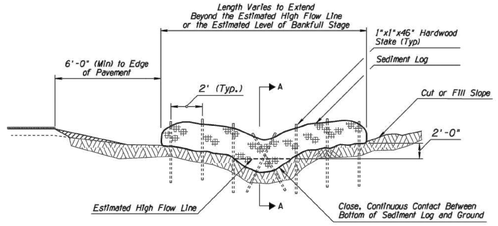
DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET 5 OF 11

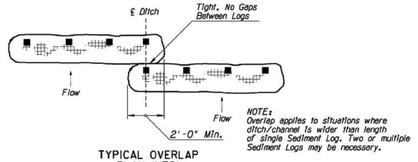


PLAN

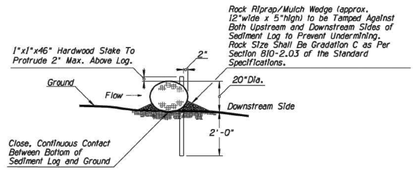
SEDIMENT LOG AT STORM DRAIN
SECTION B-B (NTS)



SEDIMENT LOG IN DITCH/CHANNEL
SECTIONAL ELEVATION (NTS)



TYPICAL OVERLAP
PLAN (NTS)



SECTION A-A (NTS)

NOTES:
1. Sediment Logs shall not be installed in the urban freeway medians, nor where cable barrier systems are employed.
2. Locate Sediment Logs as indicated in plans, SWPPP or as directed by the Engineer.
3. Select, Install and maintain Logs per manufacturers' specifications and good engineering practices.
4. Lay sediment log across prepared ditch or channel. Trenching or burial of Sediment Logs is not required. The close, continuous contact between the bottom of the Log and the ground is mandatory. The Logs shall be installed in the ditch, swale or channel bottom perpendicular to the flow of water as shown on detail this sheet.
5. Stake Log as shown. Stakes shall be placed through downstream side only as shown.
6. DO NOT drive stakes through center of the log. Stakes must be driven into the ground as shown.
7. Ensure that no gaps exist between soil and bottom of Sediment Log. Repair any rills or undercuts promptly.
8. Placement of Sediment Logs shall be evaluated by the Engineer in rocky soil conditions.
9. Remove Sediment Log BMPs within the ditches/channels and around the storm drain inlets as per the Direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
10. Dispose of Sediment Logs and trapped sediment material and fill trench created by Sediment Log.
11. The Installation and maintenance of Sediment Log BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Sediment Logs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
12. Field adjust and correct Sediment Log BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
13. Install rock mulch/riprap for channel/ditch lining or rock check dams for longitudinal ditch slopes that exceed 5% and/or for soil conditions not suitable for log installation.
14. The Sediment Log BMP's pay/bid item shall include all materials used for this BMP; all ground preparation, furnishing, installing, maintenance, final removal, and disposal, as well as returning the area to an acceptable condition as approved by the Engineer.
15. Refer to Standard Specification Section 810-2.06(B) for Sediment Log material specifications.

DETAIL ES1
SEDIMENT LOG

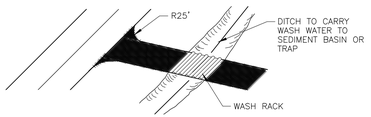
F.A.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

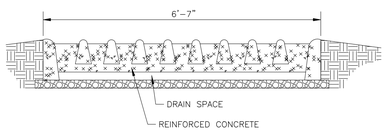
	NAME	DATE
DESIGN	TAO ZI FONG	5-2011
DESIGN	HAN MENG	5-2011
DRAWN	TAO ZI FONG	5-2011
DRAWN	HAN MENG	5-2011
CHECKED	E LEROY BRADY	5-2011
TEAM LEADER	E LEROY BRADY	5-2011
ROUTE	MP	LOCATION

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS
SHEET OF
TRACS NO.
OF

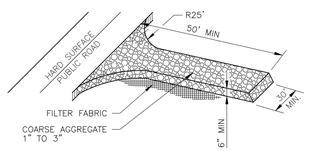
W:\ROADSIDE\Users\bl525\ 2:55:29 PM 4/26/2011 W:\Roadside\RdsdDev\LRD_BMPs\RDS_Updated_BMPs\ES1_Sediment_Log.dgn

EC-5 Stabilized Construction Entrance Drawing



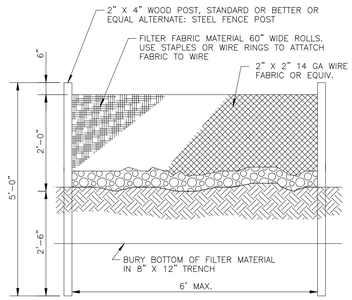


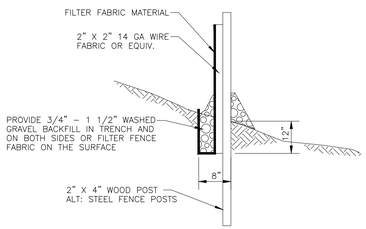
WASH RACK



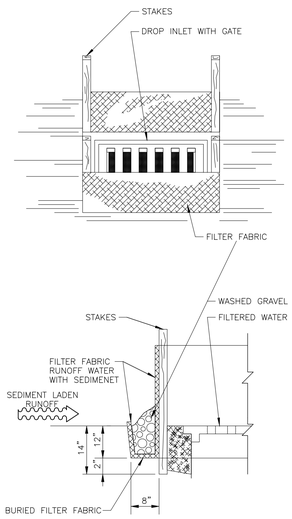
STABILIZED CONSTRUCTION ENTRANCE

SPC-5 Silt Fence Drawing

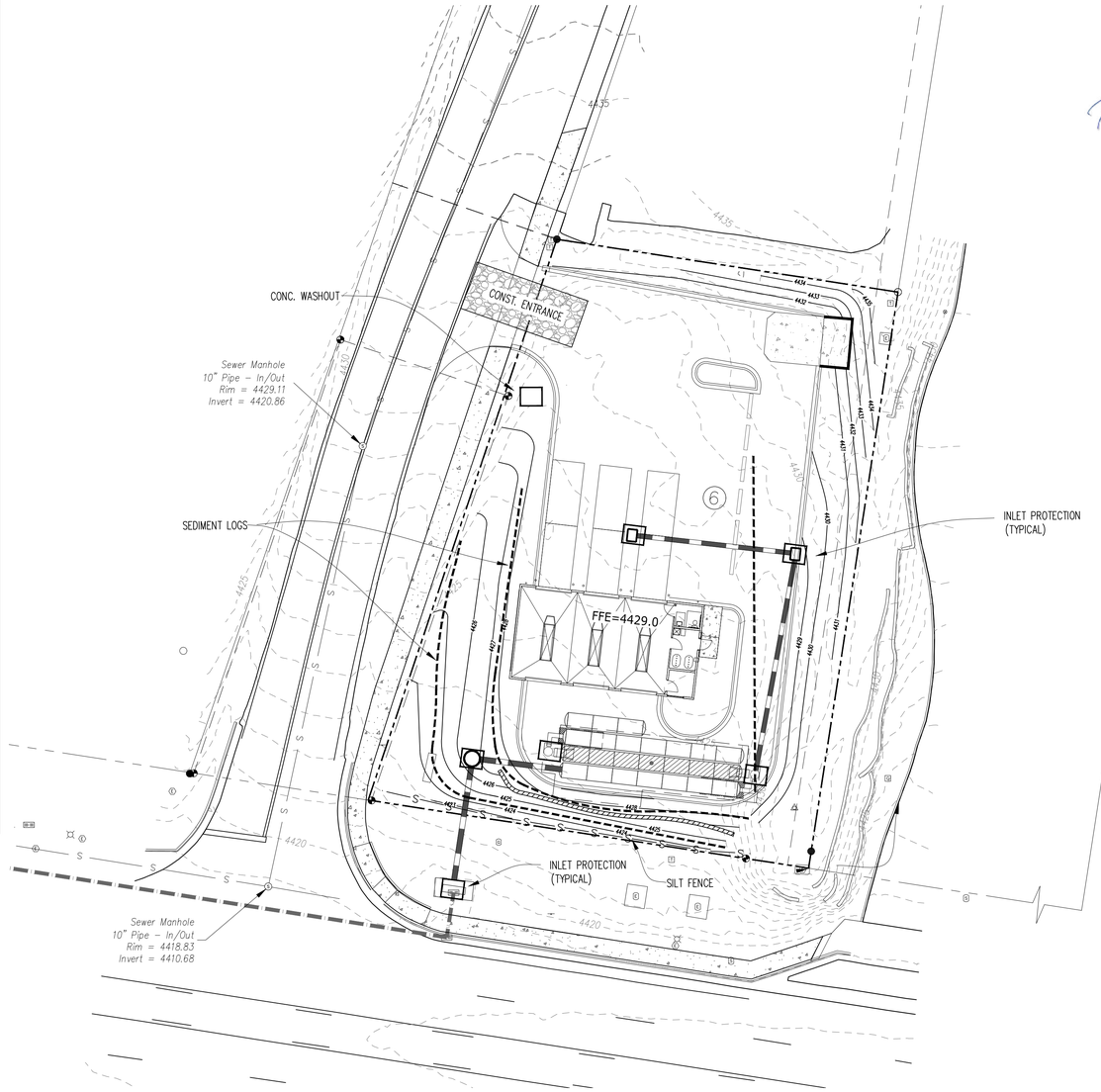




SILT FENCE

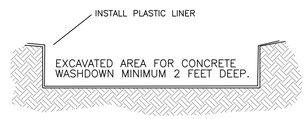


FILTER FABRIC FENCE DROP INLET FILTER



EROSION CONTROL NOTES:

1. INSTALL WADDLES ON WEST AND SOUTH SIDE OF SITE DURING BUILDING CONSTRUCTION.
2. PROVIDE INLET PROTECTION FOR ON-SITE AND OFF-SITE INLET STRUCTURES DURING CONSTRUCTION.
3. APPLY WATER AS NECESSARY FOR DUST CONTROL.
4. INSTALL SILT FENCE ALONG SOUTH PROPERTY LINE.



1. SEE PLAN FOR SIZE AND LOCATION
2. FOR WASHDOWN OF TOOLS, CHUTE AND BACK OF TRUCK ONLY.
3. NO WASHOUT OF DRUM ON SITE PERMITTED.
4. CONCRETE WASHOUT DIMENSIONS: 10' X 10'

CONCRETE WASH DOWN

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

Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed 10.08.2012
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewaterengr.com

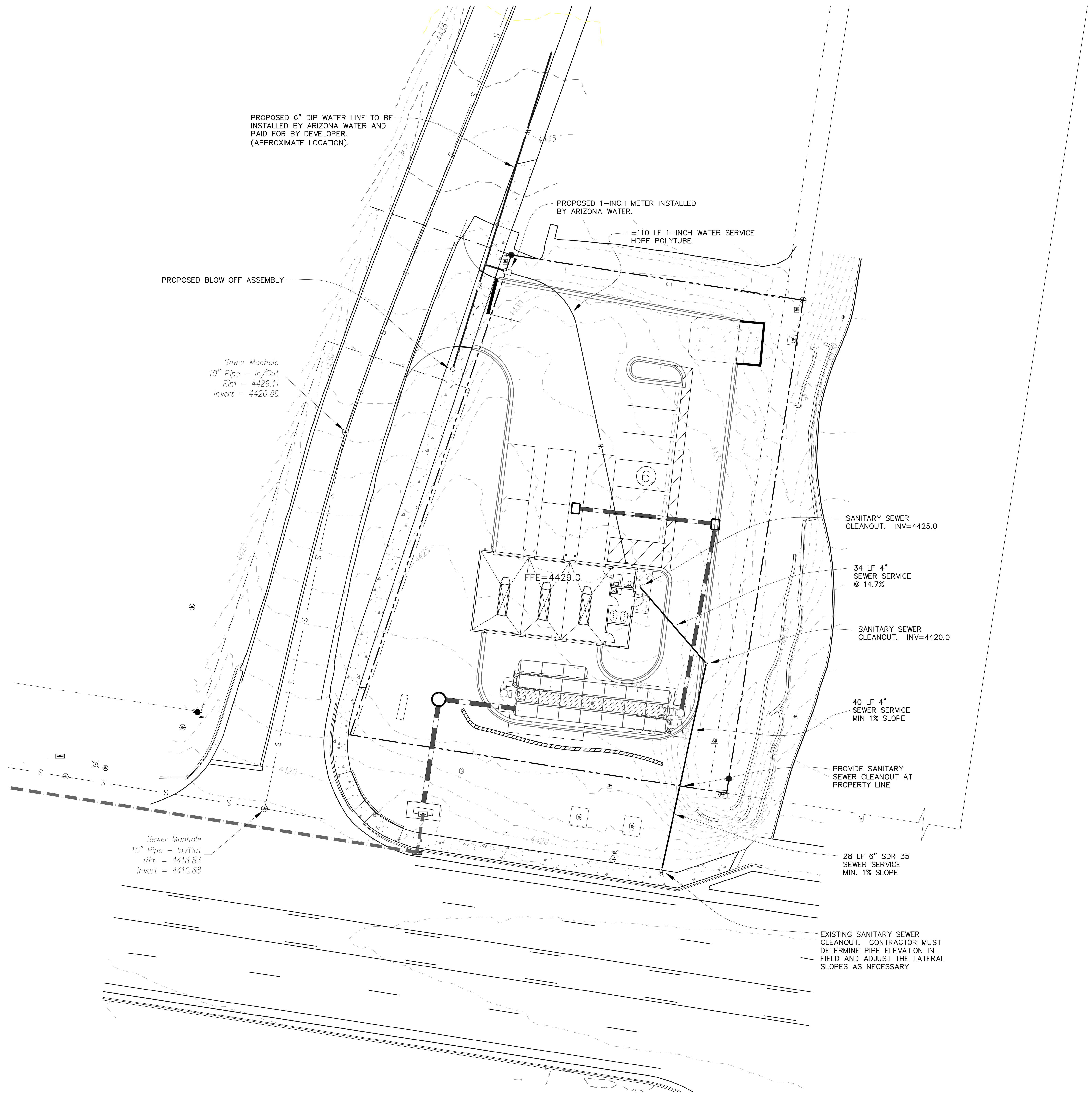
REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

EROSION CONTROL PLAN & DETAILS

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET
6 OF 11



LEGEND:

— WAT — WAT —	WATER SERVICE
— SS — SS — SS —	SANITARY SEWER SERVICE
○—	PROPOSED FIRE HYDRANT
▪	PROPOSED BACKFLOW ASSEMBLY
▪	PROPOSED WATER METER
○	PROPOSED CLEANOUT

GRAPHIC SCALE
0 20 30 40
(IN FEET)
1"=20'

Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed 10-08-2021
ARIZONA, U.S.A.

Peter Schoenauer

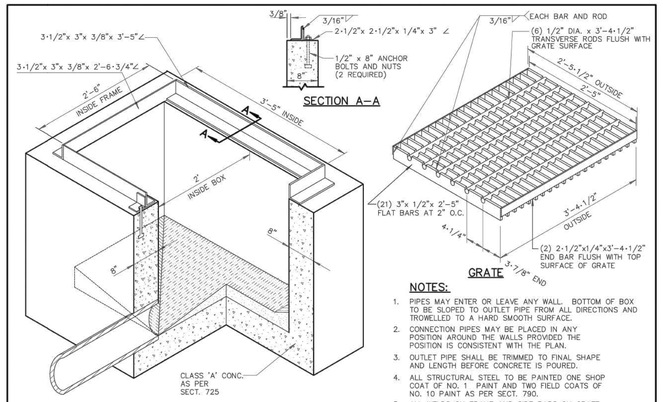
TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

UTILITY PLAN

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN



NOTE:
SEE DETAIL 534-1 FOR THICKNESS AND SLOPE DIMENSIONS OF BOTTOM.

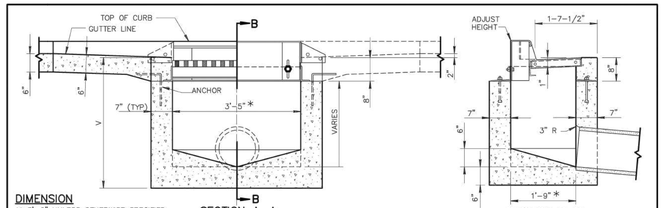
SECTION A–A

GRATE

NOTES:

1. PIPES MAY ENTER OR LEAVE ANY WALL. BOTTOM OF BOX TO BE SLOPED TO OUTLET PIPE FROM ALL DIRECTIONS AND TROWELLED TO A HARD SMOOTH SURFACE.
2. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS PROVIDED THE POSITION IS CONSISTENT WITH THE PLAN.
3. OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
4. ALL STRUCTURAL STEEL TO BE PAINTED ONE SHOP COAT OF NO. 1 PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER SECT. 790.
5. ALL WELDS ON FRAME AND SIDE BARS ON GRATE SHALL BE FULL LENGTH OF JOINT.
6. TOTAL COMBINED CLEARANCE BETWEEN FRAME AND GRATE IS 1/2".

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
535	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CATCH BASIN TYPE 'F' (FOR USE WITHOUT CURB)	01-01-2009	535



DIMENSION
V=7'-0" UNLESS OTHERWISE SPECIFIED.
* DIMENSIONAL CHANGE WITH DETAIL 534-3 AND DETAIL 534-4.

SECTION A–A

SECTION B–B

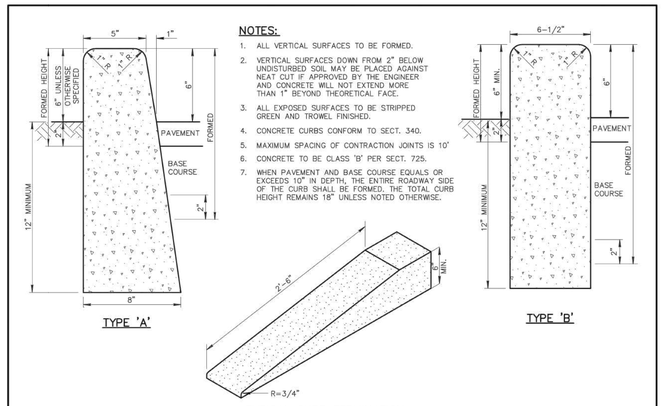
HALF PLAN GUTTER & GRATE

HALF PLAN FRAME & ANCHORS

NOTES:

1. ADJUSTABLE CURB, FRAME AND GRATING UNITS SHALL BE STRUCTURAL STEEL OR CAST IRON
2. PIPES MAY ENTER OR LEAVE ANY WALL. BOTTOM OF BOX TO BE SLOPED TO OUTLET PIPE FROM ALL DIRECTIONS AND TROWELLED TO A HARD SMOOTH SURFACE.
3. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS PROVIDED THE POSITION IS CONSISTENT WITH THE PLAN.
4. OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
5. ALL STRUCTURAL STEEL TO BE PAINTED ONE SHOP COAT OF NO. 1 PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER SECT. 790.
6. ALL CONCRETE, CLASS 'A' AS PER SECTION 725.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
534-1	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CATCH BASIN TYPE 'E'	01-01-1998	534-1



TYPE 'A'

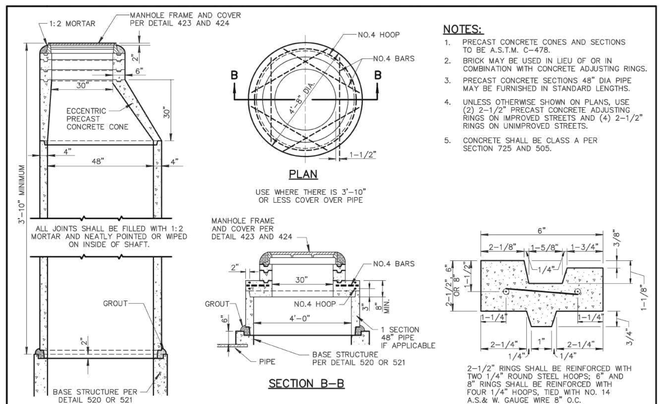
TYPE 'B'

TYPICAL CURB TERMINATION

NOTES:

1. ALL VERTICAL SURFACES TO BE FORMED.
2. VERTICAL SURFACES DOWN FROM 2" BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUT IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
3. ALL EXPOSED SURFACES TO BE STRIPPED GREEN AND TROWEL FINISHED.
4. CONCRETE CURBS CONFORM TO SECT. 340.
5. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'
6. CONCRETE TO BE CLASS 'B' PER SECT. 725.
7. WHEN PAVEMENT AND BASE COURSE EQUALS OR EXCEEDS 10" IN DEPTH, THE ENTIRE ROADWAY SIDE OF THE CURB SHALL BE FORMED. THE TOTAL CURB HEIGHT REMAINS 18" UNLESS NOTED OTHERWISE.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
222	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	SINGLE CURB – TYPES A, B AND TERMINATION	01-01-2008	222



VERTICAL SECTION OF ECCENTRIC MANHOLE SHAFT

PLAN

USE WHERE THERE IS 3'-10" OR LESS COVER OVER PIPE

SECTION B–B

SHALLOW MANHOLE

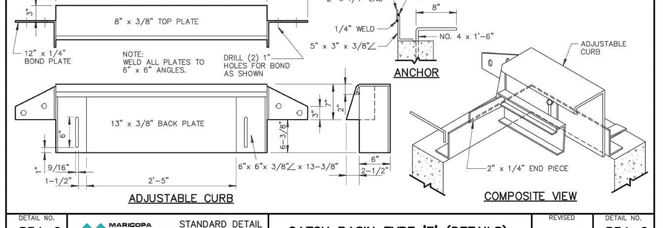
2-1/2" RINGS SHALL BE REINFORCED WITH TWO 1/4" ROUND STEEL HOOPS; 6" AND 8" RINGS SHALL BE REINFORCED WITH FOUR 1/4" HOOPS, TIED WITH NO. 14 A.S.& W. GAUGE WIRE 8" O.C.

REINFORCED CONCRETE ADJUSTING RING

NOTES:

1. PRECAST CONCRETE CONES AND SECTIONS TO BE A.S.T.M. C-478.
2. BRICK MAY BE USED IN LIEU OF OR IN COMBINATION WITH CONCRETE ADJUSTING RINGS.
3. PRECAST CONCRETE SECTIONS 48" DIA PIPE MAY BE FURNISHED IN STANDARD LENGTHS.
4. UNLESS OTHERWISE SHOWN ON PLANS, USE (2) 2-1/2" PRECAST CONCRETE ADJUSTING RINGS ON IMPROVED STREETS AND (4) 2-1/2" RINGS ON UNIMPROVED STREETS.
5. CONCRETE SHALL BE CLASS A PER SECTION 725 AND 505.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
522	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	STORM DRAIN MANHOLE SHAFT	01-01-2015	522



CROSS SECTION

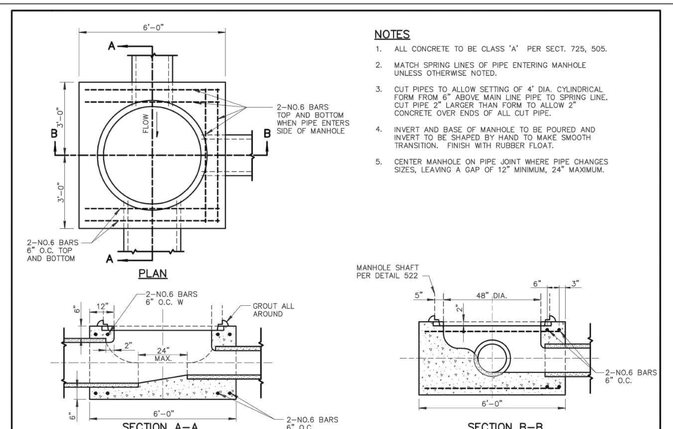
GRATE

ANCHOR

ADJUSTABLE CURB

COMPOSITE VIEW

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
534-2	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CATCH BASIN TYPE 'E' (DETAILS)	01-01-1998	534-2



PLAN

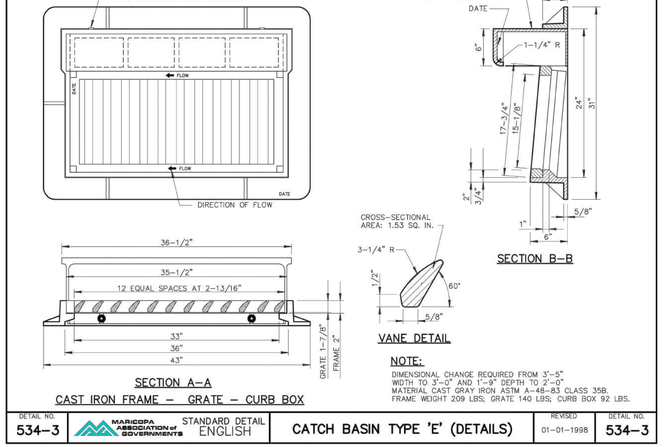
SECTION A–A

SECTION B–B

NOTES

1. ALL CONCRETE TO BE CLASS 'A' PER SECT. 725, 505.
2. MATCH SPRING LINES OF PIPE ENTERING MANHOLE UNLESS OTHERWISE NOTED.
3. CUT PIPES TO ALLOW SETTING OF 4" DIA. CYLINDRICAL FORM FROM 6" ABOVE MAIN LINE PIPE TO SPRING LINE. CUT PIPE 2" LARGER THAN FORM TO ALLOW 2" CONCRETE OVER ENDS OF ALL CUT PIPE.
4. INVERT AND BASE OF MANHOLE TO BE POURED AND INVERT TO BE SHAPED BY HAND TO MAKE SMOOTH TRANSITION. FINISH WITH RUBBER FLOAT.
5. CENTER MANHOLE ON PIPE JOINT WHERE PIPE CHANGES SIZES, LEAVING A GAP OF 12" MINIMUM, 24" MAXIMUM.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
520	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	STORM DRAIN MANHOLE BASE (48" AND SMALLER)	01-01-1998	520



SECTION B–B

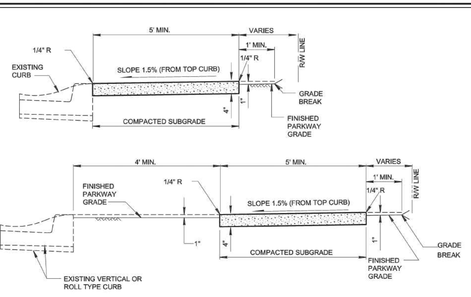
VANE DETAIL

SECTION A–A

CAST IRON FRAME – GRATE – CURB BOX

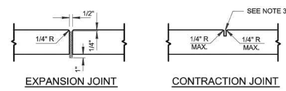
NOTE:
DIMENSIONAL CHANGE REQUIRED FROM 3'-5" WIDTH TO 3'-0" AND 1'-9" DEPTH TO 2'-0"
MATERIAL CAST GRAY IRON ASTM A-48-83 CLASS 35B.
FRAME WEIGHT 209 LBS; GRATE 140 LBS; CURB BOX 92 LBS.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
534-3	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CATCH BASIN TYPE 'E' (DETAILS)	01-01-1998	534-3



NOTES:

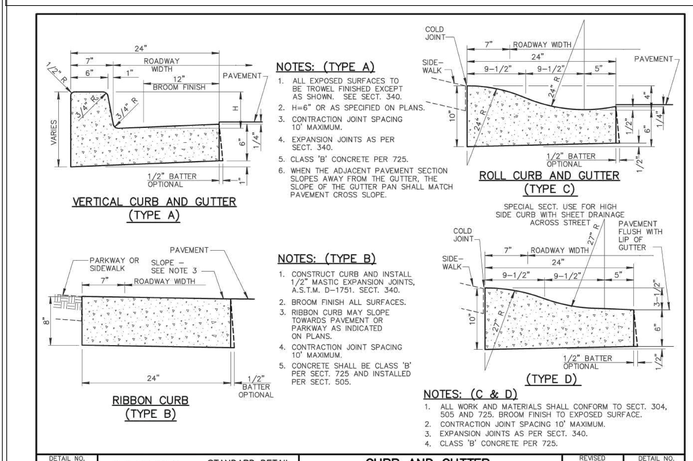
1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 340.
2. EXPANSION JOINTS SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, PER SECTION 729.
3. LARGE AGGREGATE, IN CONTRACTION JOINT SHALL BE SEPARATED TO A DEPTH OF 1", FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINTS SHALL CONFORM TO SECTION 340, BE INSTALLED PRIOR TO CONCRETE PLACEMENT, AND AT A MAXIMUM SPACING OF 50'.
5. CONCRETE SHALL BE CLASS 'B' PER SECTION 725.
6. WHEN SIDEWALK AND ADJACENT CURB ARE CONSTRUCTED MONOLITHICALLY, ALL EXPANSION AND CONTRACTION JOINTS SHALL EXTEND ACROSS THE CURB.



EXPANSION JOINT

CONTRACTION JOINT

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
230	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	SIDEWALKS	01-01-2014	230



VERTICAL CURB AND GUTTER (TYPE A)

NOTES: (TYPE A)

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER SECT. 340.
5. CLASS 'B' CONCRETE PER 725.
6. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE CUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.

ROLL CURB AND GUTTER (TYPE C)

RIBBON CURB (TYPE B)

NOTES: (TYPE B)

1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751. SECT. 340.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONTRACTION JOINT SPACING 10' MAXIMUM.
5. CONCRETE SHALL BE CLASS 'B' PER SECT. 725 AND INSTALLED PER SECT. 505.

(TYPE D)

NOTES: (C & D)

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECT. 304, 505 AND 725. BROOM FINISH TO EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
220-1	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CURB AND GUTTER TYPES A, B, C AND D	01-01-2007	220-1

Registered Professional Engineer (Civil) CERTIFICATE NO. 72867 PETER SCHOENAUER Date Signed 12-19-2008 ARIZONA U.S.A.

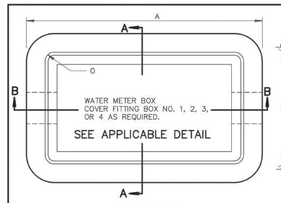
TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV. | DATE: | BY: | DESCRIPTION

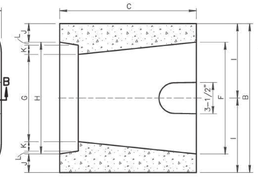
TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

SITE DETAILS 1

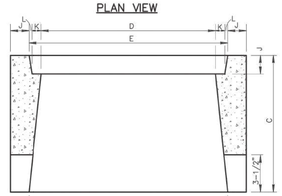
DRAWN: pss
APPROVED: pss
DATE:
PROJ#: 21-041
SCALE: AS SHOWN



PLAN VIEW



SECTION A–A



SECTION B–B

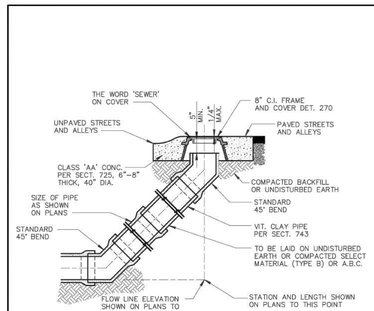
NOTES:

1. THE METER BOXES SHALL CONFORM TO DIMENSIONS AS SHOWN AND SHALL NOT VARY MORE THAN A 1/16 OF AN INCH
2. THE METER BOXES SHALL BE MADE OF CLASS 'AA' CONCRETE PER SECT. 725. ACCEPTABLE ALTERNATIVE MATERIALS INCLUDE "POLYMER CONCRETE", "SHEET MOLDED COMPOUND" (SMC), "BULK MOLDED COMPOUND" (BMC), AND POLYETHYLENE WITH POLYMER CONCRETE FRAME
3. MINIMUM VERTICAL LOAD RATING PER TIER 5 ANSI/SCTE77 TESTING STANDARD FOR GRADE LEVEL ENCLOSURES AND COVERS
4. FOR LOAD REQUIREMENTS ABOVE 5,000 POUNDS USE DETAIL 319, TRAFFIC RATED BOX AND COVER

METER BOX DIMENSIONS

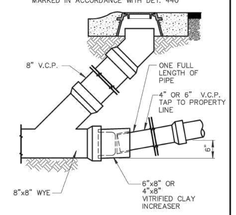
DIMS	BOX NUMBER 1	2	3	4
A	18-1/2"	23"	28-3/8"	33-1/8"
B	11-3/4"	17-1/4"	17-5/8"	22-3/8"
C	12"	12"	12"	12"
D	14"	20"	24"	27-3/4"
E	16"	22-1/8"	26-1/4"	30-5/8"
F	9-1/4"	14-1/2"	15-1/8"	19-3/4"
G	7"	12-1/2"	13"	17"
H	9-1/4"	14-1/4"	15-1/4"	19-3/4"
I	5-7/8"	8-5/8"	8-7/8"	11-1/8"
J	1-1/2"	1-1/2"	2-1/4"	1-1/2"
K	3/4"	1/2"	3/4"	5/8"
L	1/4"	1/2"	1/2"	5/8"
M	16"	21-7/8"	26"	30-1/2"
O	1/2"	1/2"	1/2"	5/8"
	5/8" OR 3/4" METER	1" METER	1-1/2" METER	2" METER

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
320	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	NON TRAFFIC RATED WATER METER BOXES	01-01-2017	320



CLEANOUT INSTALLATION

NOTE:
END OF SEWER TAP TO BE SEALED AND MARKED IN ACCORDANCE WITH DET. 440

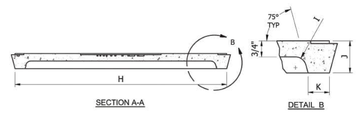


SEWER TAP AT CLEANOUT

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
441	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	SEWER CLEANOUT	01-01-2001	441

NOTES:

1. POTABLE WATER COVER TINTED GRAY AND RECLAIMED WATER COVER TINTED PANTONE PURPLE 512
2. DIMENSIONS SHOWN SHALL NOT VARY MORE THAN A 1/16 OF AN INCH
3. ACCEPTABLE ALTERNATIVES INCLUDE "SHEET MOLDED COMPOUND" (SMC), AND "BULK MOLDED COMPOUND" (BMC). PLASTICS ARE NOT ACCEPTABLE MATERIALS
4. SLOTTED AUTOMATIC METER READING (AMR) HOLE PER AGENCY OR STANDARD SPECIFICATION
5. MARKING PER AGENCY AND/OR UTILITY
6. REFER TO DETAIL 320 FOR VERTICAL LOAD RATING



POLYMER CONCRETE COVER DIMENSIONS

DIMS	COVER NUMBER 1	2	3	4
A	15-3/4"	21-7/8"	26"	30-3/8"
B	9"	14"	15"	19-1/2"
C	5"	7"	9"	10"
D	3/4"	1"	3/8"	3/8"
E	8-1/2"	13-1/4"	14-1/8"	19"
F	4-3/8"	6-5/8"	8"	10-3/4"
G	3/4"	3-3/8"	3-3/4"	6-1/4"
H	15-3/8"	21"	25-1/8"	29-1/2"
I	3/8"	1/2"	1"	1/4"
J	1-1/2"	1-1/2"	2-1/4"	1-1/2"
K	3/4"	1"	1"	1"

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
315	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	POLYMER CONCRETE WATER METER BOX COVER	01-01-2017	315

Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed 12-28-21
ARIZONA, U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	DESCRIPTION	BY:

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

UTILITY DETAILS

DRAWN: pss
APPROVED: pss
DATE:
PROJ#: 21-041
SCALE: AS SHOWN

SHEET 9 OF 11

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

ADS Advanced Drainage Systems, Inc.

SiteASSIST® FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

TAKE 5 OIL CHANGE SEDONA

SEDONA, AZ

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

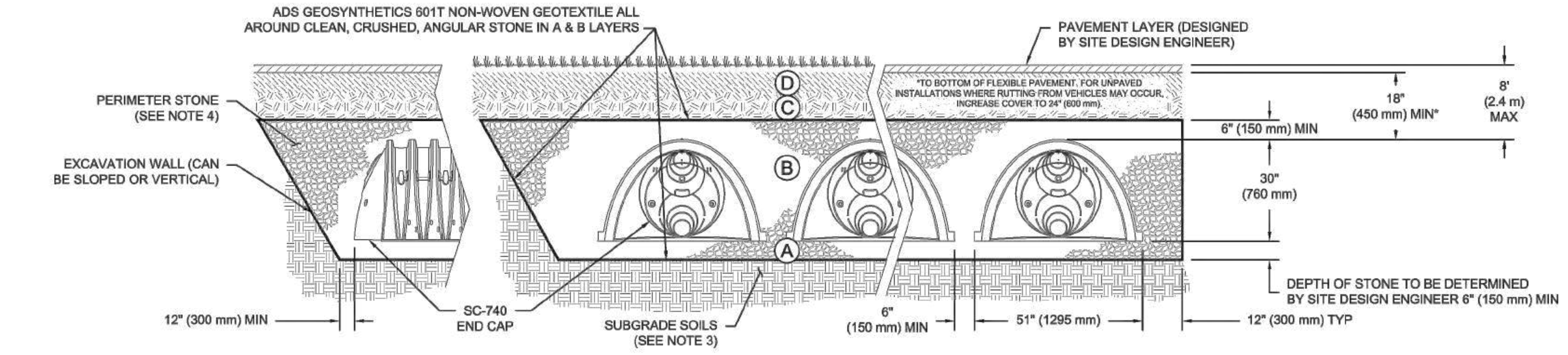
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

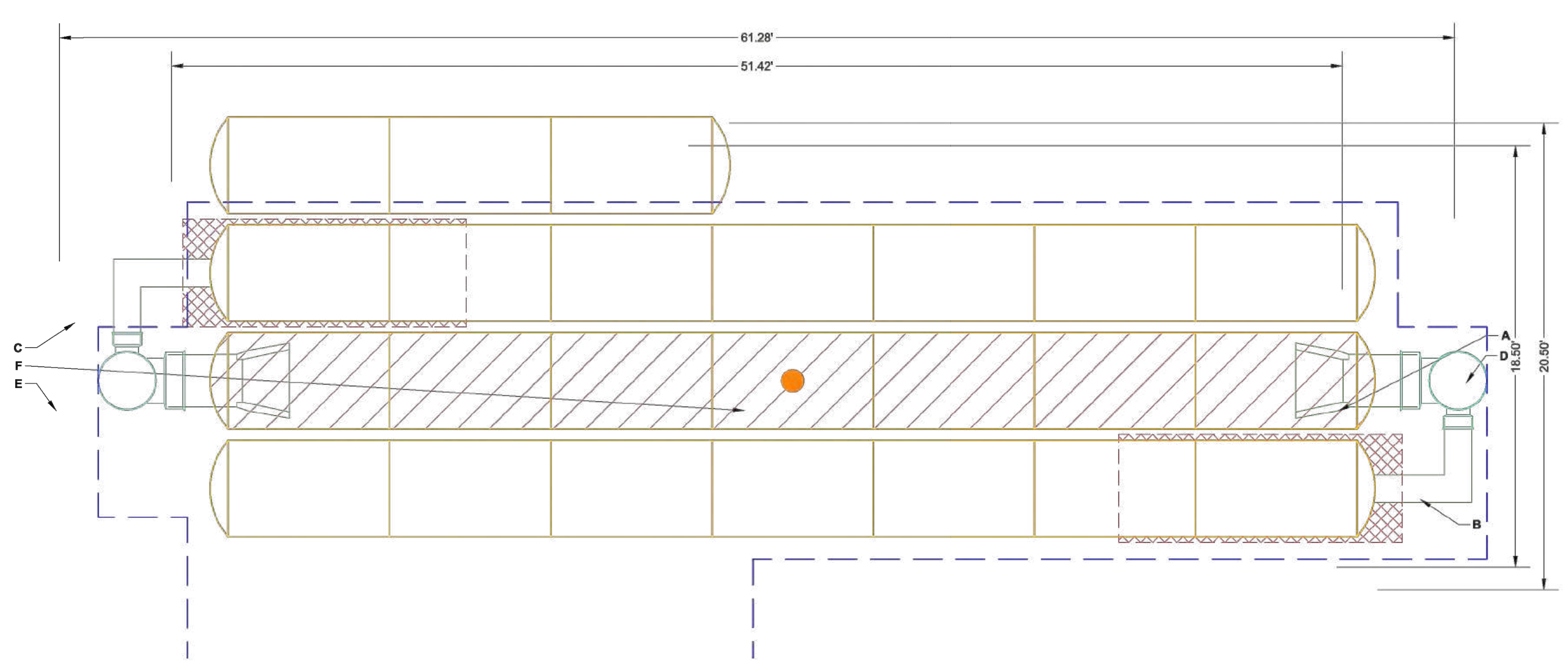
TAKE 5 OIL CHANGE SEDONA, SEDONA, AZ — StormTech® Chamber System — 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — SHEET 3 OF 6

PROPOSED LAYOUT	
24	STORMTECH SC-740 CHAMBERS
8	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	STONE VOID
2108	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)
1033	SYSTEM AREA (SF)
163.6	SYSTEM PERIMETER (ft)

CONCEPTUAL ELEVATIONS	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	11.00
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	5.00
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	4.50
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	4.50
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	4.50
TOP OF STONE:	3.50
TOP OF SC-740 CHAMBER:	3.00
12" x 12" TOP MANIFOLD INVERT:	1.54
12" x 12" TOP MANIFOLD INVERT:	1.54
24" ISOLATOR ROW PLUS INVERT:	0.51
24" ISOLATOR ROW PLUS INVERT:	0.51
BOTTOM OF SC-740 CHAMBER:	0.50
BOTTOM OF STONE:	0.00

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PREFABRICATED END CAP, PART#: SC740EPE24BR / TYP OF ALL 24" ISOLATOR ROW PLUS CONNECTIONS	0.10"	
MANIFOLD	B	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
MANIFOLD	C	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	D	30" DIAMETER (24.00" SUMP MIN)		2.3 CFS IN
NYLOPLAST (INLET W/ ISO PLUS ROW)	E	30" DIAMETER (24.00" SUMP MIN)		2.3 CFS IN
INSPECTION PORT	F	4" SEE DETAIL		



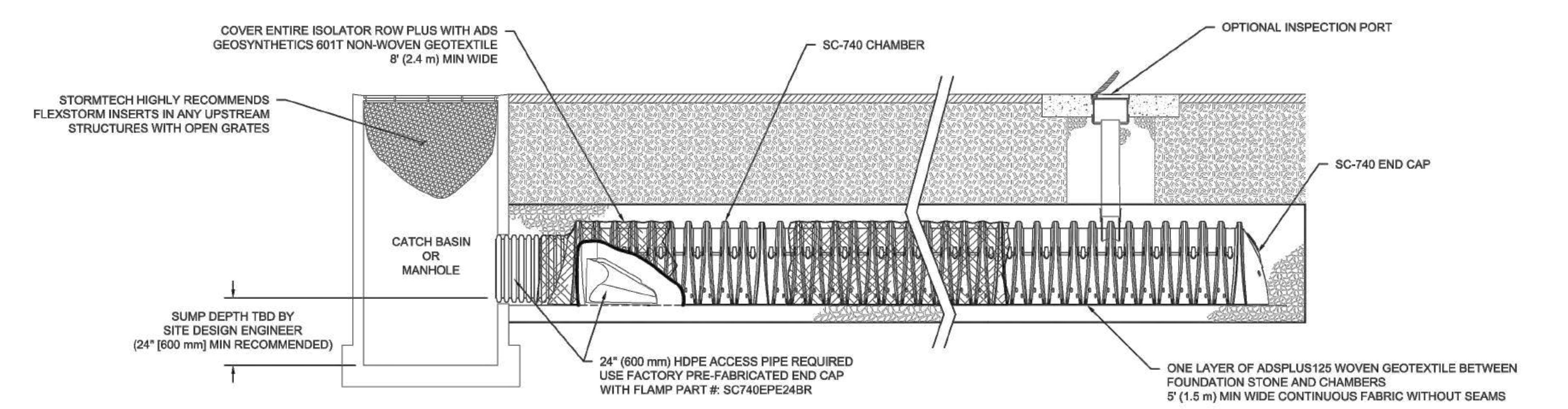
ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

TAKE 5 OIL CHANGE SEDONA, SEDONA, AZ — StormTech® Chamber System — 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — SHEET 2 OF 6



SC-740 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

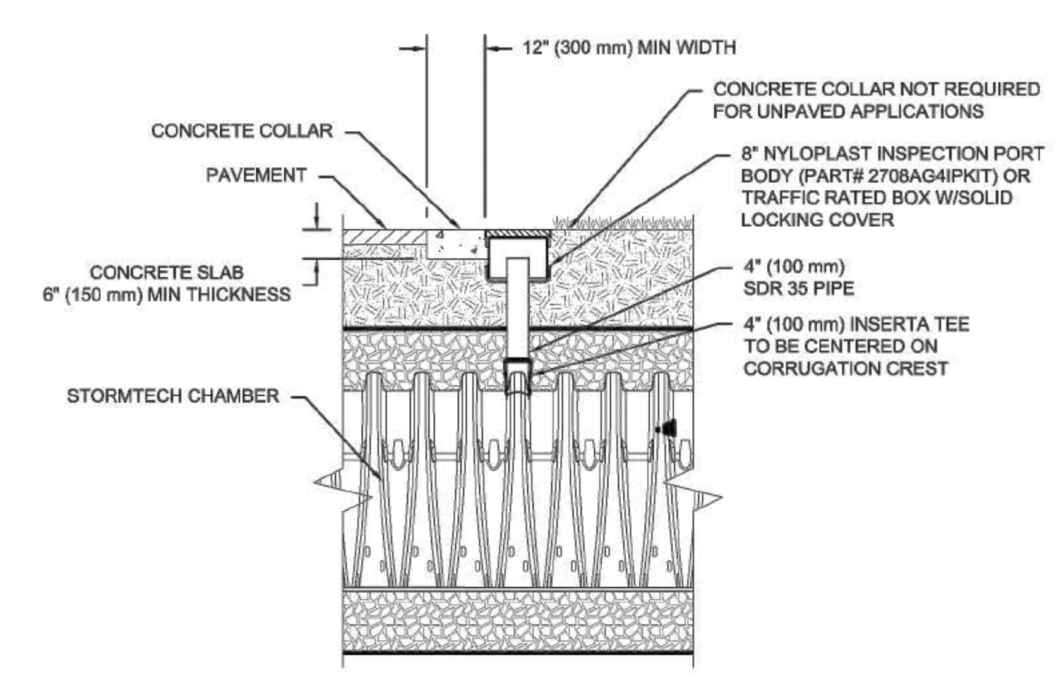
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

TAKE 5 OIL CHANGE SEDONA, SEDONA, AZ — StormTech® Chamber System — 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — SHEET 4 OF 6

Registered Professional Engineer (Civil) — CERTIFICATE NO. 72867 — PETER SCHOENAUER — ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	DESCRIPTION	BY:

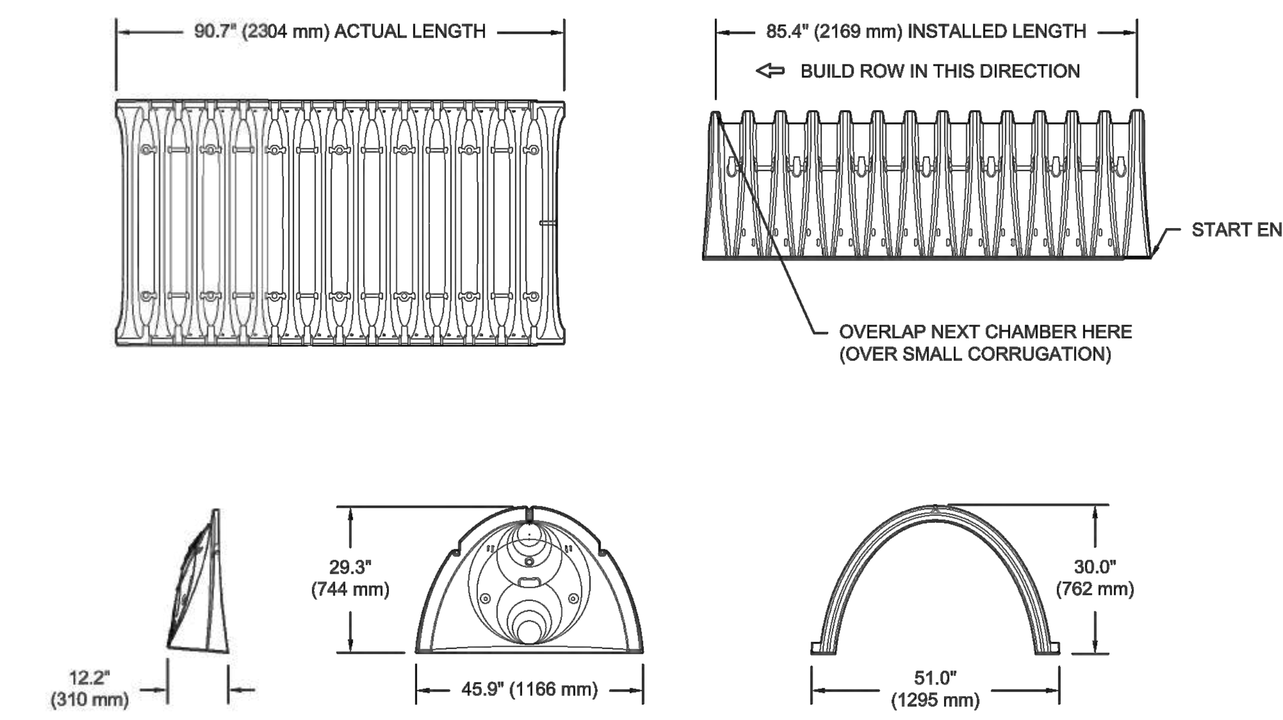
TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

STORMTECH CHAMBER DETAILS

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SC-740 TECHNICAL SPECIFICATION

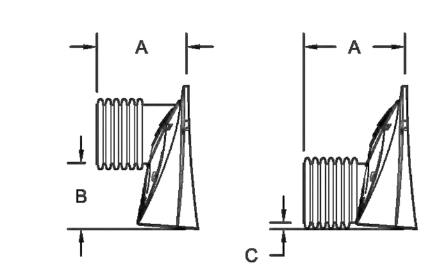
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

TAKE 5 OIL CHANGE SEDONA
SEDONA, AZ
DATE: | DRAWN: BD
PROJECT #: | CHECKED: N/A

REV	DRW	CHK	DESCRIPTION

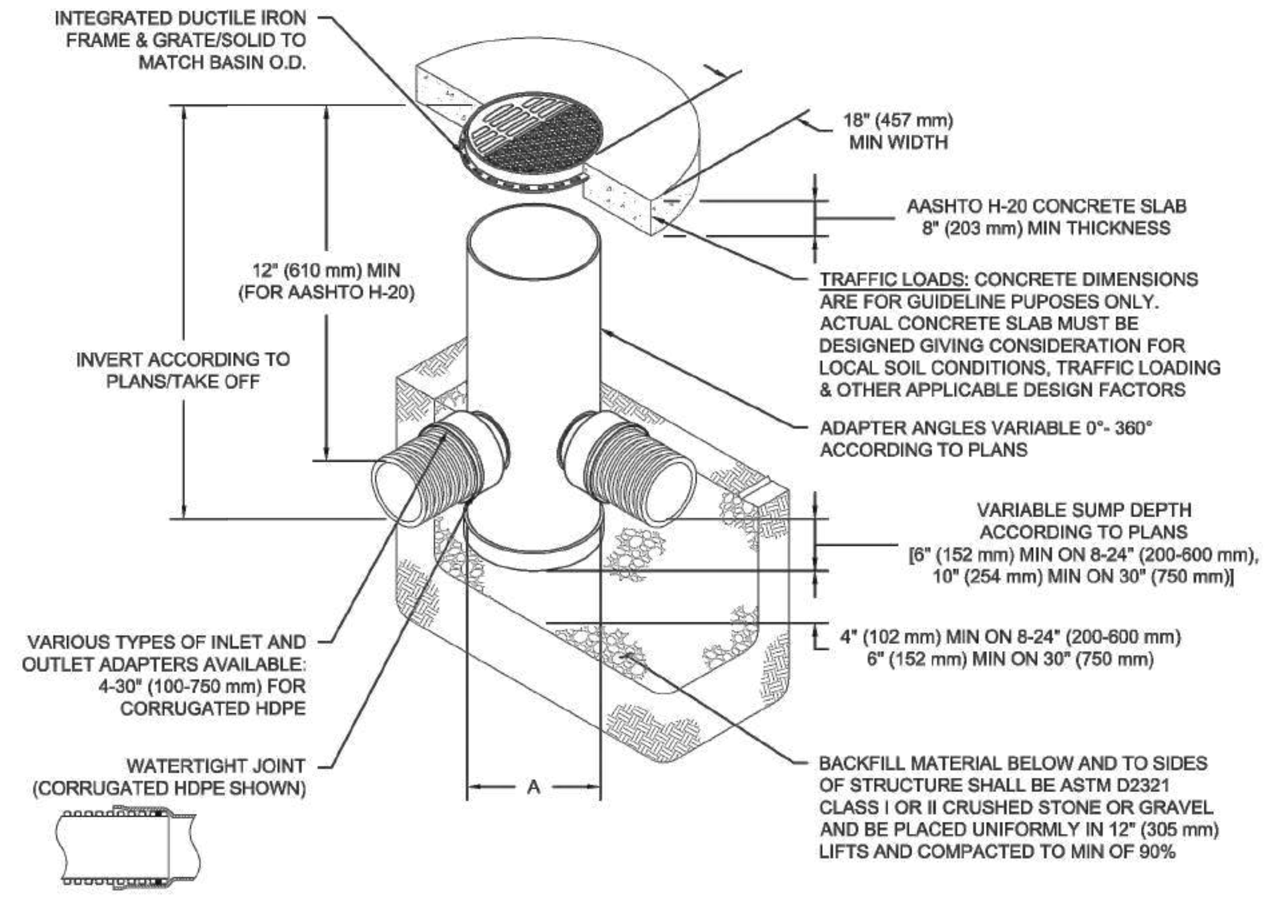
StormTech®
Chamber System
888-892-2694 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

SHEET
5 OF 6

NYLOPLAST DRAIN BASIN

NTS



NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

TAKE 5 OIL CHANGE SEDONA
SEDONA, AZ
DATE: | DRAWN: BD
PROJECT #: | CHECKED: N/A

REV	DRW	CHK	DESCRIPTION

Nyloplast®
770-932-2443 | WWW.NYLOPLAST-US.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET
6 OF 6

Registered Professional Engineer (Civil)
CERTIFICATE NO. 72867
PETER SCHOENAUER
Date Signed 10-08-2021
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewatereng.com

REV.	DATE:	DESCRIPTION	BY:

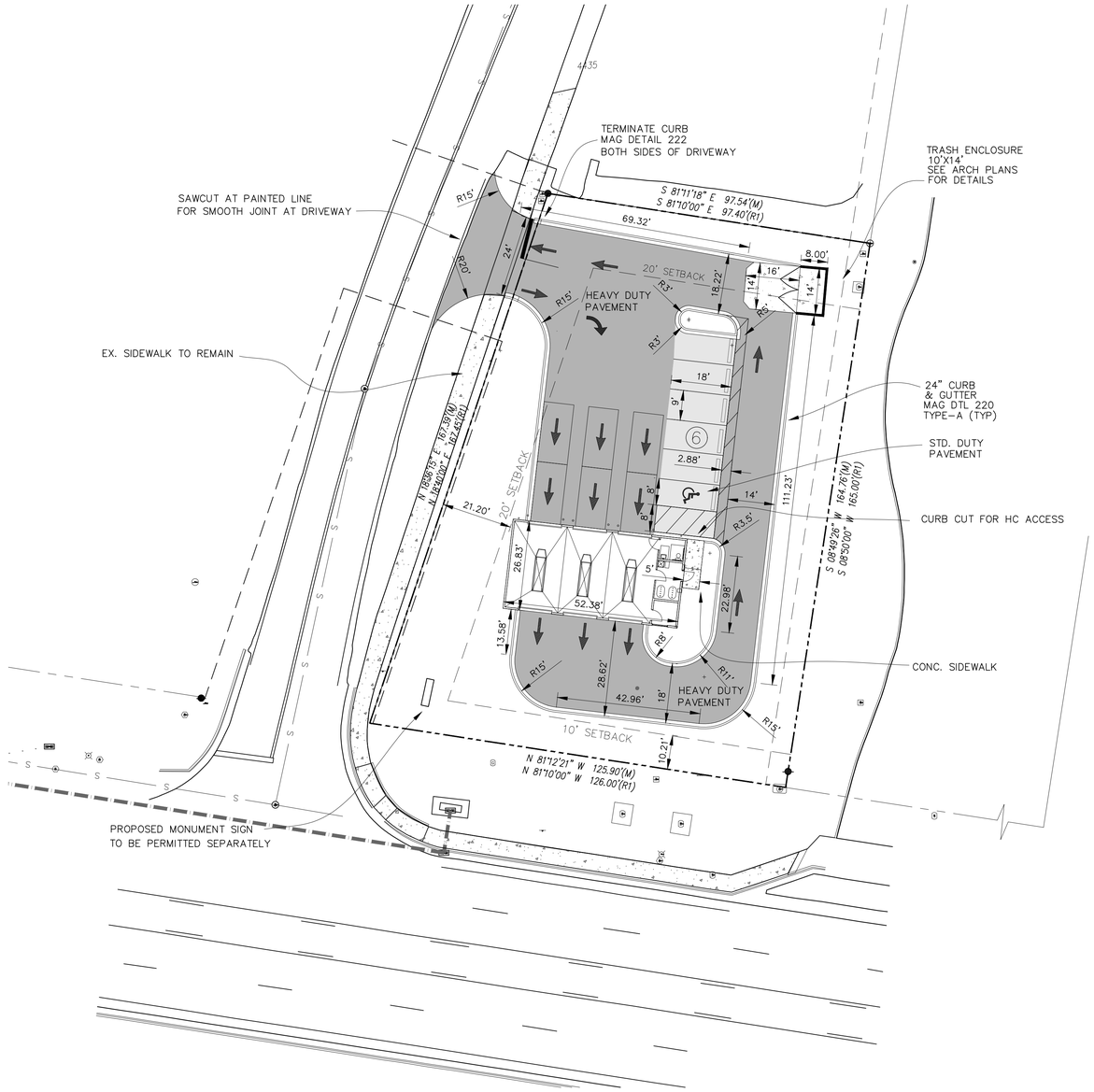
TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

STORMTECH CHAMBER DETAILS

DRAWN: pss
APPROVED: pss
DATE:
PROJ#: 21-041
SCALE: AS SHOWN

SHEET
11 OF 11

MASTER SIGN PLAN



GRAPHIC SCALE
0 20 30 40
(IN FEET)
1"=20'

Registered Professional Engineer (Civil)
CERTIFICATE No. 72867
PETER SCHOENAUER
Date Signed 12-08-2021
ARIZONA U.S.A.

TIDEWATER ENGINEERING, INC.
200 PLANTATION CHASE
ST. SIMONS ISLAND, GEORGIA 31522
PHONE (912) 268-2164 EMAIL: pete@tidewaterengr.com

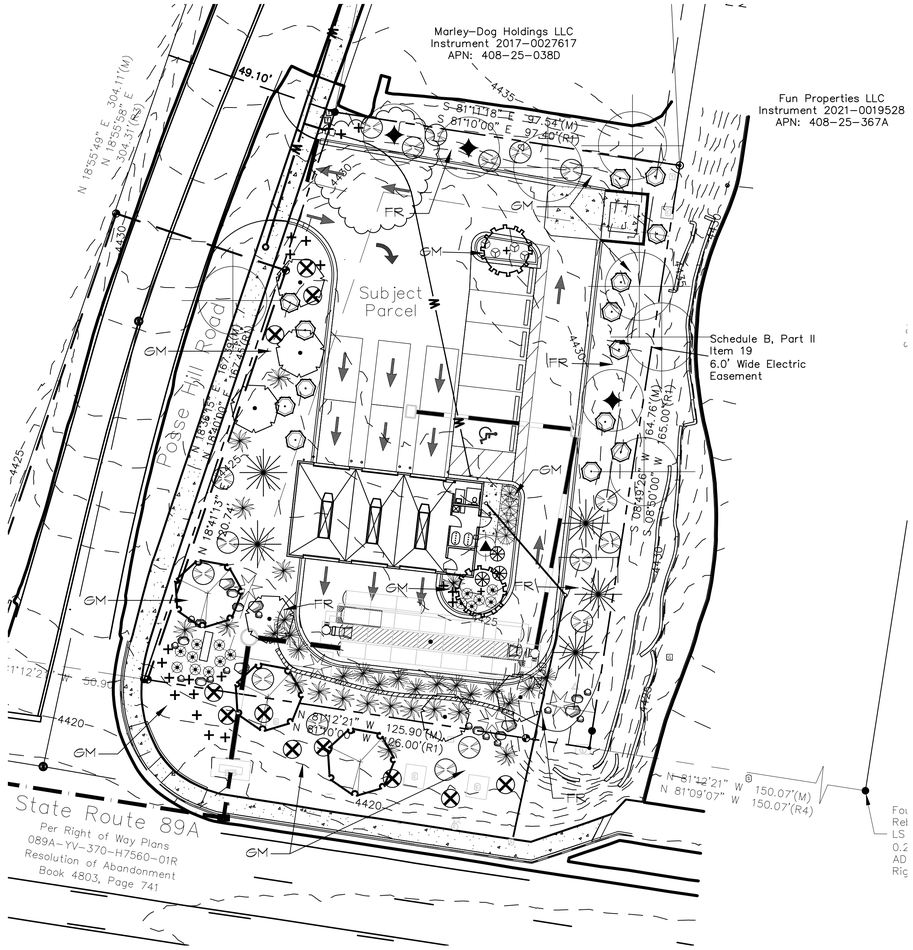
REV.	DATE:	BY:	DESCRIPTION

TAKE-5 OIL CHANGE
80 POSSE HILL ROAD
SEDONA, AZ 86336

MASTER SIGN PLAN

DRAWN:	pss
APPROVED:	pss
DATE:	
PROJ#:	21-041
SCALE:	AS SHOWN

SHEET 1 OF 1



LANDSCAPE NOTES

1. Prior to plant pit excavation all plants shall be located in the field with flagging or stakes and approved by Landscape Architect or Owner's Representative.

2. All plants shall be nursery grown unless otherwise noted. Plants shall be healthy, well formed and well branched, vigorous, symmetrical and free from pests and diseases. They shall conform in quality and size to the American Nursery Stock and the Arizona Nursery Association Growers committee recommended tree specifications. Plant materials shall be protected adequately during transport and delivery. Contractor to assure all plants are adequately watered while on site.

3. Trees shall be staked per detail.

4. All plant pits shall drain at a minimum rate of 6"per2 hours. Plant pits in caliche shall be deepend to a sufficient depth to meet the 6" per 2 hour minimum.

5. Soil conditioner/compost shall consist of composted ground or shredded fir or pine bark shavings. Maximum pH 7.5, 85% shall pass a one-quarter screen. Nitrogen stabilized, minimum of 0.5% nitrogen. Submit Laboratory analysis to Landscape Architect / Owners Representative for review and approval prior to use.

6. Fertilizer - Slow release tablets, Agriform 20-10-5 slow release, 21 gram tablets or approved equal for trees and shrubs. Agricultural gypsum (c) Powdered soil sulfur (85-95% pure soil sulfur). Fertilizers shall be delivered to the site in un-opened containers, each fully labeled and bearing the name or trademark and narranty of the producer. Submit product specifications for review and approval by Owner's Representative.

7. Plant pit backfill mix shall consist of 65% site soil and 35% soil conditioner/compost. Site soil shall be mixed with six (6) pounds of agricultural gypsum and one (1) pound of powdered soil sulfur for each cubic yard of backfill mix. The backfill mix shall be an homogenous blend of the required materials. Place one (1) Agriform tablet for each 1-gallon plant, two (2) tablets each for 5 - gallon plants and three (3) tablets for trees. Evenly distribute tablets around the plant rootball in the backfill mix.

8. Backfill mix shall well worked about the rootball and settled by tamping and watering and be at the required finish grade as shown for water-harvesting basins.

9. The Contractor shall at all times keep the area of his work in a neat and orderly condition, insofar as the storage of material and the removal of dirt and debris caused by his work operations, cleaning up of debris, etc. shall be explicitly followed. Upon completion of work the Contractor shall thoroughly clean all paving, walls, curbs boulders, etc. by sweeping area and washing the area with water from a pressurized hose.

North

SCALE: 1" = 20'-0"

0' 10' 20' 40'

Call at least two full working days before you begin excavation.
ARIZONA811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

PLANT LEGEND

BOTANICAL NAME:
COMMON NAME:

SYMBOL	TREES:	SIZE:	GPH:
	Cercis occidentalis Western Redbud	Min. 2" Cal.	8
	Pinus edulis Pinyon Pine	8' Tall	8
	Fraxinus velutina Arizona Ash	Min. 2" Cal.	8
	Cupessus arizonica Arizona Cypress	8' Tall	8
	Quercus virginiana Live Oak	Min. 2" Cal.	8
	Existing Trees -To Remain in Place Prune and remove lower branches, damaged branches and deadwood. Irrigate all trees to remain in place with 1 - 2 GPH Multi-Port Emitter for a total of 12 GPH.		

SHRUBS AND ACCENTS	SIZE:	GPH:
Leucophyllum frutecens "Compacta" Compact Texas Ranger	2' Tall	2
Arctostaphylos pungens Pointleaf Manzinita	2' Tall	2
Photinia fraseri Red Tip Photinia	2' Tall	2
Dasylirion quadrangulatum Toothless Sotol	2' Tall	1
Yucca Elata Soaptree Yucca	15 Gal.	.5
Hamelia patens "Sierra Red" Firecracker bush	2' Tall	2
Hesperaloe Parviflora "Breaklights" Red Aloe	2' Tall	1
Mulhenbergia capilaris Regal Mist	2' Tall	2
Mulhenbergia lindheimeri Autumn Glow Muhlenbegergia	2' Tall	2
Juniperus sabrina "Buffalo" Buffalo Juniper	2' Tall	2
Evonymus For. "Sunrise" Sunrise Witercreeper	2' Tall	2
Rosmarinus officianalis Prostrate Rosemary	1 Gal.	2

BOULDERS:

Note: Native Surface Select - Weathered Boulders - Native to the area Sizes Are Approximate -

- 18"x 24"x 2'
- 2'x 3'x 2'
- 4'x 4'x 3'

GENERAL NOTES

1. Contractor shall visit site and examine existing conditions prior to submitting a bid.

2. Prior to commencing work on site arrange an on-site meeting with the Owner or his Representative.

3. Contractor is required to contact Blue Stake to identify and locate all existing utilities prior to any type of excavation on site. Any damage to underground utilities or structures shall be repaired at the Contractors expense.

4. Submit to Owner's Representative manufacturers or vendors certified analysis for soil amendments and fertilizer materials. Submit other data substantiating that materials comply with the specified soil amendments.

LANDSCAPE CALCULATIONS

LANDSCAPE AREA = 7,240 S.F.
LANDSCAPE REQUIREMENTS
1 TREE/ 400 S.F. & 4 SHRUBS /400S.F.
No. Trees Required = 18 - Trees provided = 18
No. Shrubs required = 73 - Shrubs provided = +72

INERT GROUNDCOVERS:

GM Granite Mulch: 1-1/4" Minus - "Sedona Red" - Min. 2" Depth

FR Fractured Rock 4"Minus "Sedona Red"
Rock shall be angular, fractured rock material

Pre-Emergent Herbicide: All landscape areas shall be treated with Surflan per-emergent herbicide or approved equal. Herbicide shall meet all applicable local, State and Federal environmental and labeling laws. Under no circumstances shall a soil sterilant be used on the site. Submit specification to Owners Representative for review and approval prior to application. Apply herbicide per manufacturer's recommendations.

All granite mulch and rock rip-rap areas shall be watered settled. Wash off all boulders at completion

LANDSCAPE MAINTENANCE

It shall be the responsibility of the owner, lessee. heirs, agent, homeowners association or other liable entity of the property to permanently maintain all approved landscaping in accordance with the approved landscape plan.

1. Required maintenance shall include regular watering, pruning, mowing, fertilizing, clearing of debris and weeds, removal and replacement of dead plants and repair and replacement of irrigation systems and architectural features.

2. Any required plant materials not surviving shall be replaced with plants of the same variety and quality as those removed within 30 days of their demise or in the next planting period. This requirement may be waived by the director if the remaining landscaping on site satisfies the minimum landscape requirements.

3. Failure to maintain approved landscaping shall constitute a violation of the LDC.

4. Maintenance of the landscaping within public right-of-way shall be included in accordance with the terms of encroachment permits authorizing such landscaping.

5. All plants shall be allowed to grow in natural patterns. Over-pruning plants into unnatural shapes is prohibited.

6. Vegetation shall be selected, placed and maintained, so that at maturity it does not interfere with utility lines, building, traffic sight lines, vehicular parking, pedestrian circulation, and property rights of adjacent owners, and would not significantly damage or create upheaval of sidewalks and pavement.

ADOT NOTES:
1. MATERIALS WITHIN SVT'S SHALL BE PLACED SO AS NOT TO INTERFERE WITH A VISIBILITY PLANE DESCRIBED BY TO HORIZONTAL PLANES 24^ AND 72^ ABOVE FINISH GRADE OF THE TRAVEL LANE, ALL SHRUB HEIGHTS IN THE SVT'S SHALL BE MAINTAINED AT 24^ AND BELOW AND TREE CANOPY'S SHALL BE MAINTAINED AT A MINIMUM 72^ HEIGHT.
2. ALL REQUIRED MAINTENANCE SHALL BE PROVIDED BY TAKE-5 OIL CHANGE AND ITS SUCCESSORS. MAINTENANCE SHALL INCLUDE WEEKLY TRASH PICKUP, PRUNING, PLANT REPLACEMENT, IRRIGATION REPAIR, SEASONAL SCHEDULING ADJUSTMENT

LANDSCAPE PLAN

JOHN HUCKO - LANDSCAPE ARCHITECT
5236 N. STONEHOUSE PL.
TUCSON, ARIZONA 85750
P: (520) 400.8529
E: jhucko789@comcast.net

PROJECT NO: 21-71 DATE: 10/11/21

National Landscape Architect
CERTIFICATE NO.
18943
JOHN R. HUCKO
ARIZONA, U.S.A.
EXPIRES 3/31/2024

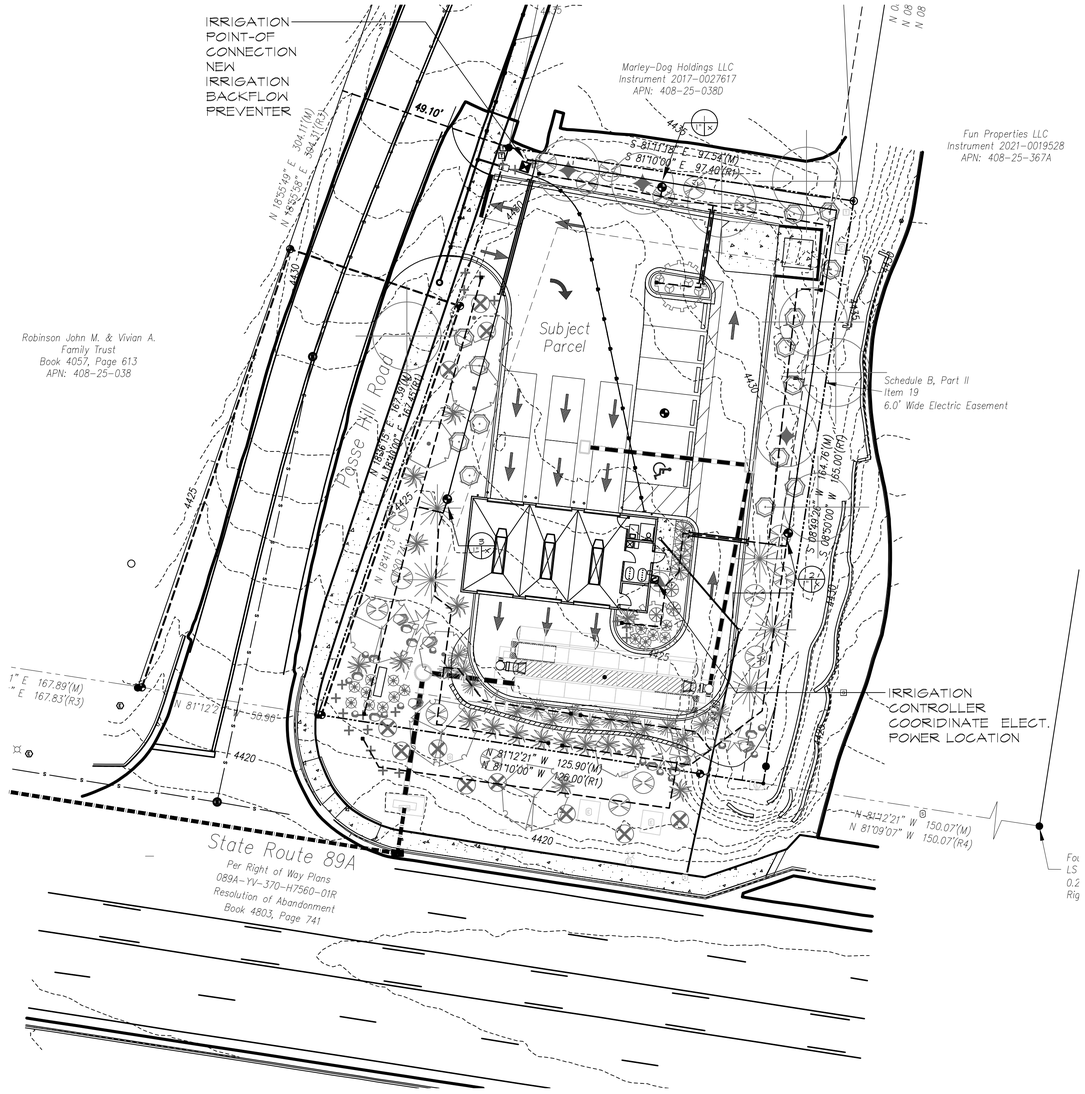
NO.	DATE	REVISION

TAKE - 5 OIL CHANGE
SEDONA, ARIZONA
XXXXXXX

OWNER

SITE ADDRESS
80 POSSE HILL ROAD
SEDONA, ARIZONA 86336

SHEET NUMBER



North

SCALE: 1" = 20'-0"

0' 10' 20' 40'

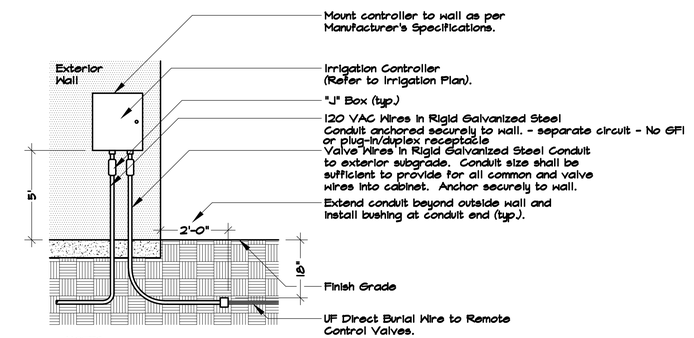
IRRIGATION LEGEND

Symbol	Manufacture	Description
M		Water Meter - Irrigation P.O.C
C	HUNTER	I-CORE 6 Station #IC-600-PL - Wall-Mount,
	FEBCO	Reduced Pressure Backflow Preventer, Febco 825Y - 3/4". w/ Guardshack security cabinet.
	RAIN BIRD	XCZ - 100-PRB-COM 1"- Control Zone Kit
	Sch 40 PVC	Mainline - 3/4"
	Sch 40 PVC	2" Sleeve.
	SCH 40 PVC	Lateral line - size as shown.
	CL 200 PVC	3/4" CL 200 PVC Drip Irrigation Lateral w/ Rain Bug XBT-20-6 Multi-outlet Emitter @ 2 GPH each Outlet XBT-20 Single-outlet Emitter @ 2 GPH w/ RBT-220V Distribution Tubing.
	Lasco	AP-075 - 3/4" Hose End Flush Cap.

VALVE IDENTIFIER — XX — SIZE — GPM

IRRIGATION NOTES

1. Plan is schematic only. All mainlines, valves, etc. shall be placed within planting areas wherever possible.
2. The entire irrigation system shall satisfy all code requirements and be installed as per manufacturers' specifications.
3. Contractor shall sleeve all mainlines (2" or less), valve wires and laterals under all paved surfaces and walls, extending sleeves 1 foot from edge of paved surface or wall. Mainlines greater than 2 inches in diameter shall be direct buried. Contractor shall coordinate sleeve installation through wall/footing to bring irrigation into the planters located in the storage/parking area
4. Contractor shall coordinate installation of drip irrigation lines prior to installation of plant material with the Owner's Representative.
5. Trees to be irrigated by multi-outlet emitters. Shrubs and groundcover to be irrigated by single-outlet emitters.
6. Contractor shall apply for Reduced Pressure Backflow Preventer permit from Dept. of Water Backflow Prevention Department.
7. All irrigation equipment shall be as specified, or approved equal per the discretion of the owner.
8. The irrigation system has been designed for a minimum static water pressure of 50 PSI. Contractor shall verify water pressure in the field before construction and notify to owner/general contractor of any discrepancy.



NOTES:
All wiring to be installed as per City Code.
Refer to Electrical Plans for location and power source.

1 WALL-MOUNTED IRRIGATION CONTROLLER
NTS

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

National Landscape Architect
CERTIFICATE NO. 18943
JOHN R HUCKO
Date Signed 10/11/2021
ARIZONA, U.S.A.
EXPIRES 3/31/2024

NO.	DATE	REVISION

TAKE - 5 OIL CHANGE
SEDONA, ARIZONA
XXXXXXX

OWNER

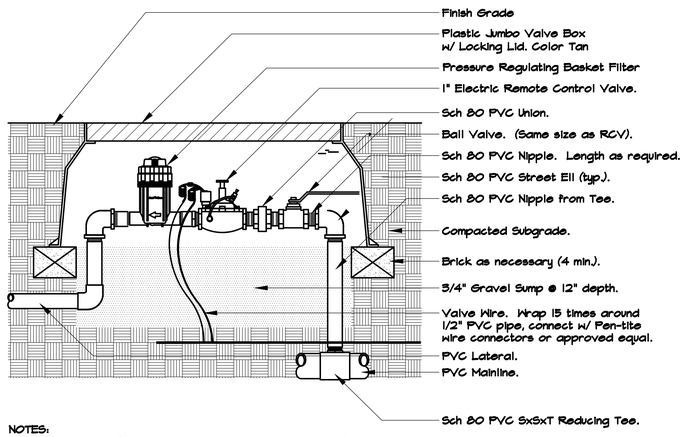
SITE ADDRESS
80 POSSE HILL ROAD
SEDONA, ARIZONA 86336

SHEET NUMBER
2 OF 3

IRRIGATION PLAN

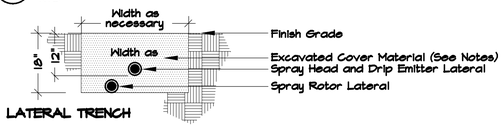
JOHN HUCKO - LANDSCAPE ARCHITECT
5236 N. STONEHOUSE PL.
TUCSON, ARIZONA 85750
P: (520) 400.8529
E: jhucko789@comcast.net

PROJECT NO: 21-71 DATE: 10/11/21

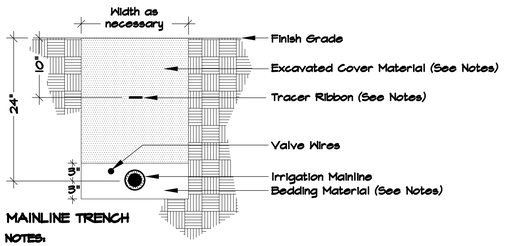


NOTES:
Apply Recto Seal #5 or Teflon Tape to all pipe joints & thread connections, or approved equal.
Compact soil around piping and valve box to same density as undisturbed soil.
Refer to Specifications for piping material.

1 REMOTE CONTROL VALVE WITH FILTER - DRIP
NTS



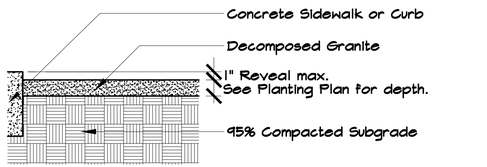
LATERAL TRENCH



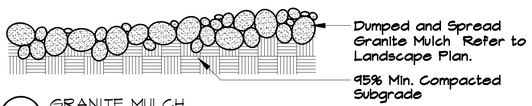
MAINLINE TRENCH

NOTES:
All electrical wire connections to valves and splices to be installed within a valve box and made with Pen-tite waterproof connectors, or approved equal.
Bundle and tape wiring at 10 foot intervals.
Valve wires to be installed within mainline trench wherever possible.
Bedding material shall be 1/4" minus sand, and shall be 3 inches below mainline and 3 inches above mainline.
Excavated cover material shall be free from debris and rocks 1/2 inch or greater.
Install Tracer Ribbon in all mainline trenches including quick coupler lines.
(See Specifications.).

2 TRENCHING DETAIL

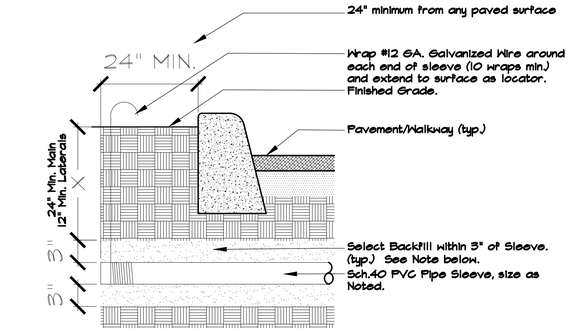


3 SCREENED ROCK / DECOMPOSED GRANITE
NTS



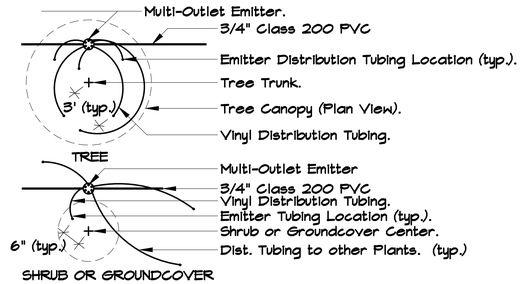
4 GRANITE MULCH
NTS

Call at least two full working days before you begin excavation.
ARIZONA811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



NOTE:
Backfill within 3" of sleeve shall be free of rocks and stones larger than 1/2" Dia. If rock cannot be removed from excavated soil, provide clean sand bedding.

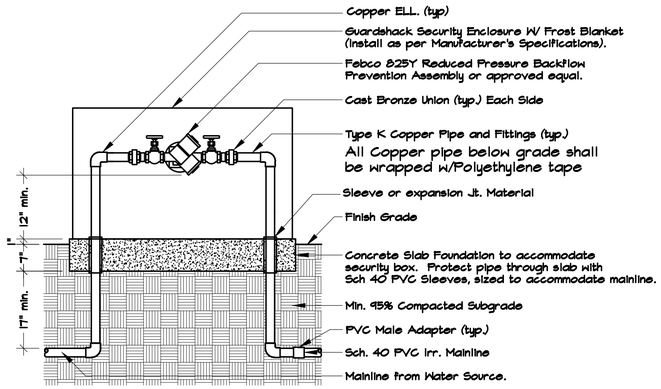
5 PIPE SLEEVING
NTS



SHRUB OR GROUNDCOVER

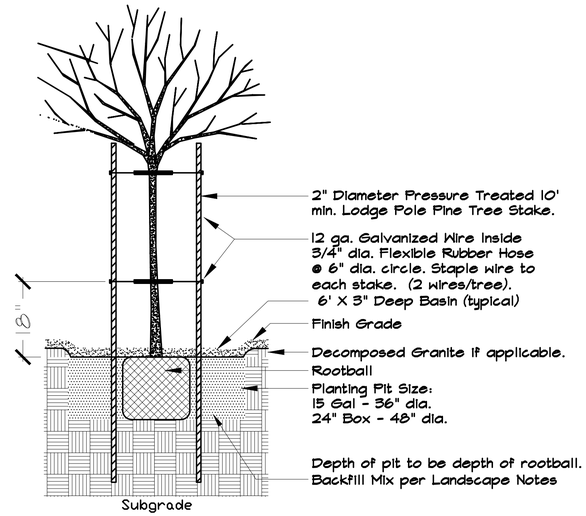
NOTES:
Refer to Irrigation Key for Manufacturer.

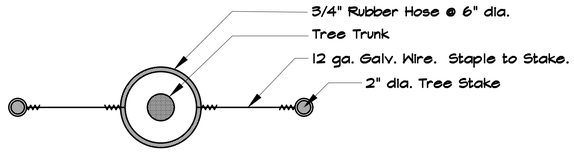
6 EMITTER PLACEMENT
NTS



NOTES:
Apply Recto Seal #5 or Teflon Tape to all pipe joints & thread connections, or approved equal.
Compact soil around mainline piping to same density as undisturbed soil.
Refer to specifications for piping material.
Supply keyed padlock, Master Lock Model #457 w/ two keys, or approved equal, for locking security enclosure.

7 REDUCED PRESSURE TYPE BACKFLOW PREVENTER
NTS

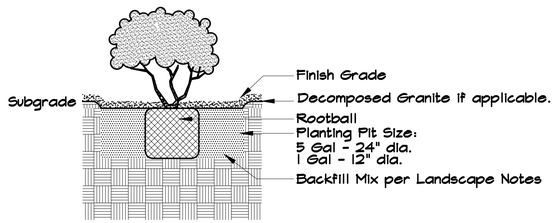




DETAIL PLAN OF HOSE AND WIRE

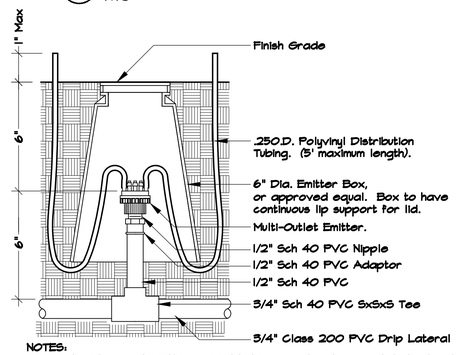
NOTE:
See Specifications for application of FeRROMEC AC Liquid Iron to all trees.
Plant pit to be to the depth of the rootball, typical.

8 SINGLE TRUNK TREE PLANTING
NTS



NOTE: Plant pit to be to the depth of the rootball, typical.

9 SHRUB PLANTING
NTS



NOTES:
Compact soil around emitter assembly to same density as undisturbed soil.

10 EMITTER INSTALLATION
NTS

LANDSCAPE - IRRIGATION DETAILS

JOHN HUCKO - LANDSCAPE ARCHITECT
5236 N. STONEHOUSE PL.
TUCSON, ARIZONA 85750
P: (520) 400.8529
E: jhucko789@comcast.net

PROJECT NO: 21-71 DATE: 10/11/21

Registered Landscape Architect
CERTIFICATE NO. 18843
JOHN R. HUCKO
Date Signed 10/11/2021
ARIZONA, U.S.A.
EXPIRES 3/31/2024

NO.	DATE	REVISION

TAKE - 5 OIL CHANGE
SEDONA, ARIZONA
XXXXXXX

OWNER

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SHEET NUMBER
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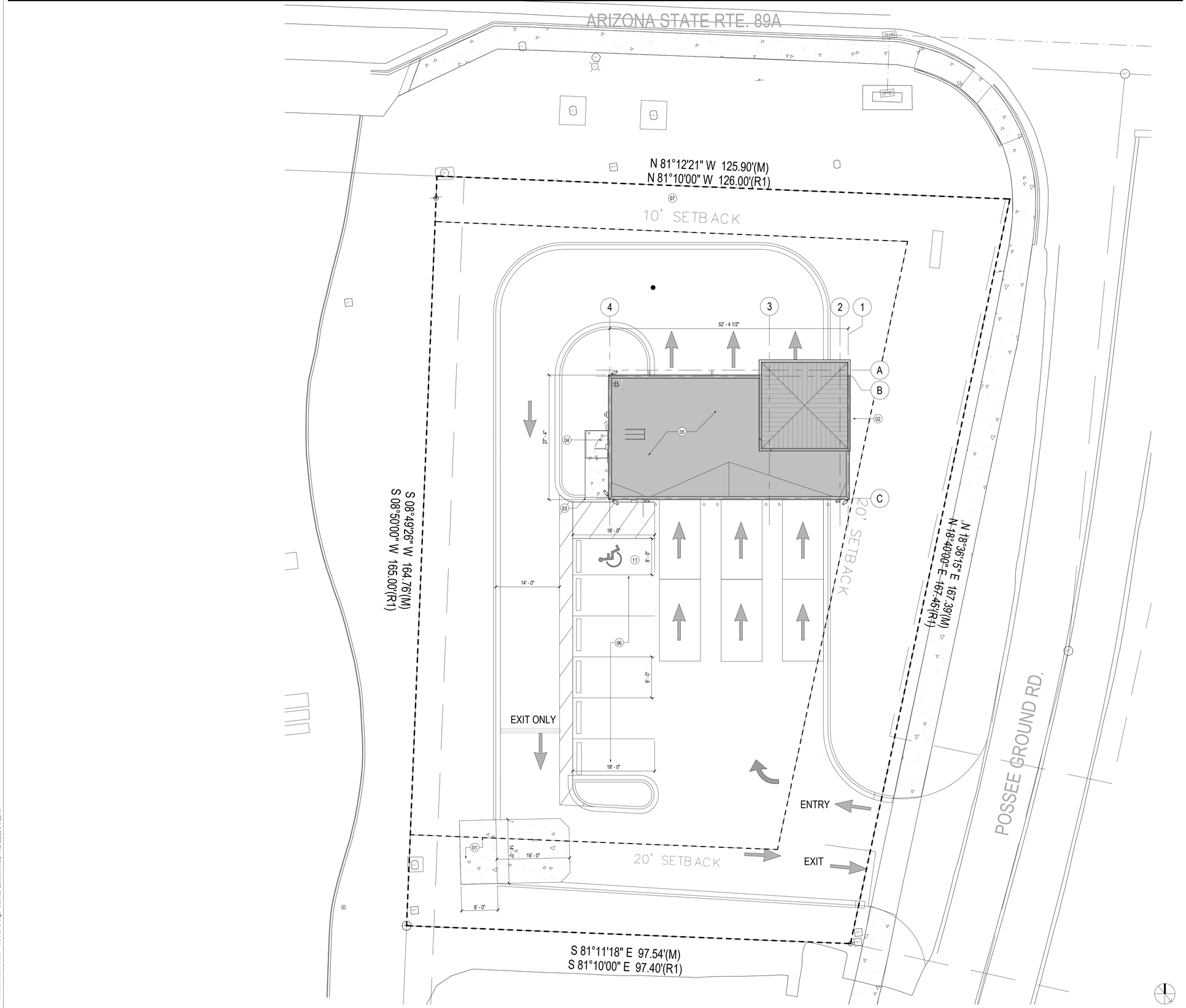

01 ARCHITECTURAL SITE PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

01 DUMPSTER ENCLOSURE. REFER TO SHEET A5.101 FOR ADDITIONAL INFORMATION
02 RAISED CUPOLA. REFER TO PLANS SHEET A1.102 FOR ADDITIONAL INFORMATION. AND DETAILS
03 CURB CUT RAMP FOR ACCESSIBLE PATH TO BUILDING. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION AND DETAILS
04 SERVICE DOOR ACCESS / ENTRY
05 REFER TO CONSTRUCTION PLAN FOR BUILDING OUTLINE AND DIMENSIONS ON SHEET A1.101
06 REFER TO CIVIL PLANS FOR PARKING LAYOUT, COUNTS AND DETAILS
07 REFER TO CIVIL DRAWINGS AND DRAINAGE PLAN FOR SPECIFIC LAYOUT AND DIMENSIONS OF RETENTION POND
11 ACCESSIBLE PARKING SPACE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION

GENERAL NOTES

A. REFER TO CIVIL DRAWINGS FOR ALL SITE INFORMATION. ARCHITECTURAL SITE PLAN SHOWN FOR REFERNCE ONLY FOR LOCATION, ORIENTATION OF BUILDING AND DUMPSTER ENCLOSURES.

B. REFER TO CIVIL DRAWINGS FOR SITE UTILITIES. GC TO REFER TO MEP DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION

C. REFER TO CIVIL DRAWINGS FOR SURVEY, SITE GRADING AND ADDITIONAL INFORMATION TO COORDINATE WITH STRUCTURAL FOUNDATION PLANS AND DETAILS.

Take 5 Oil Change

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Gensler

2575 E Camelback Rd
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United States

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Fax 602.523.4949

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Telephone 980.999.6122

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709 Catawba Street
Belmont, NC 28012
Telephone 704.399.3943

△	Date	Description
1	10.08.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

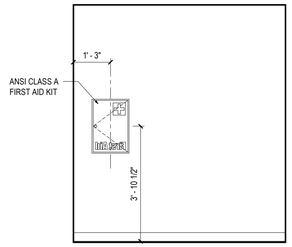
Project Name
Take 5 Oil Change

Project Number
59.6678.008

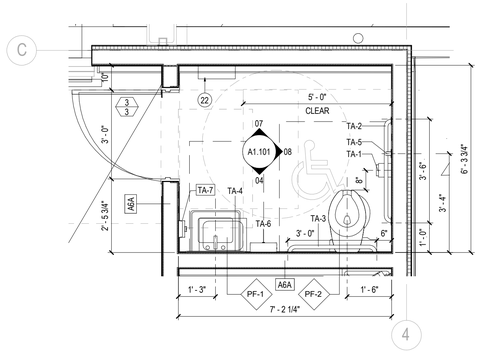
Description
ARCHITECTURAL SITE PLAN

Scale
1/8" = 1'-0"

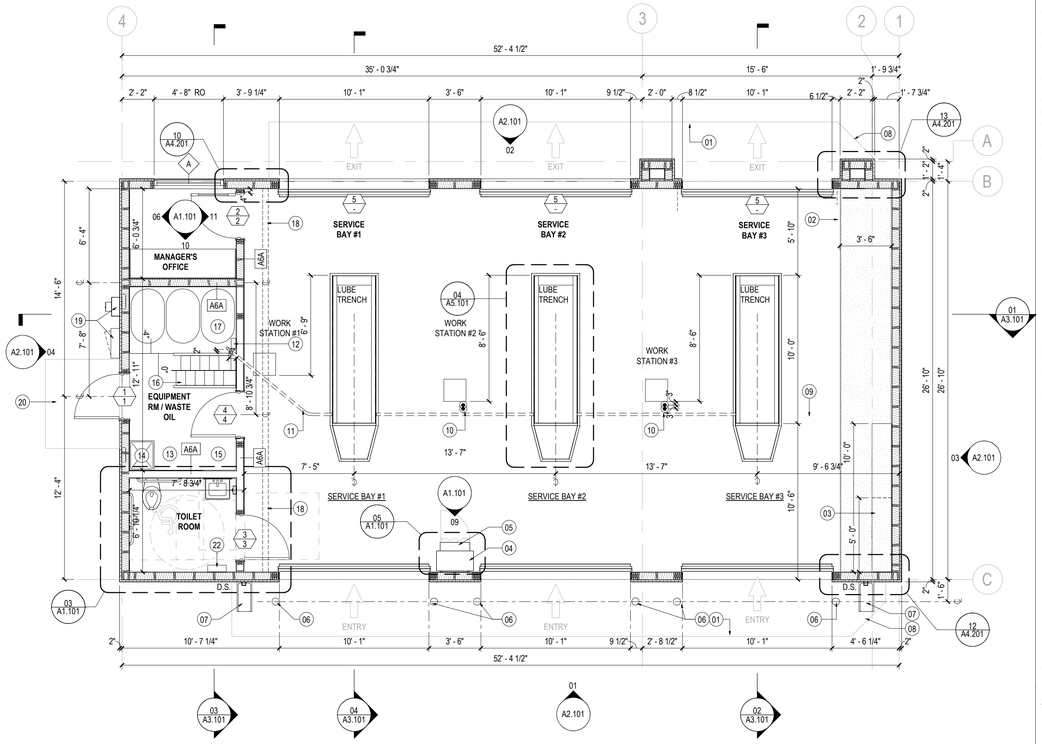
A0.100



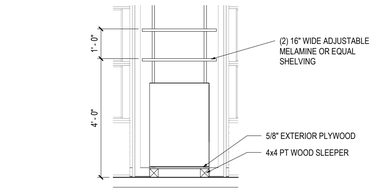
07 INTERIOR ELEVATION - TOILET ROOM - A
SCALE: 1/2" = 1'-0"



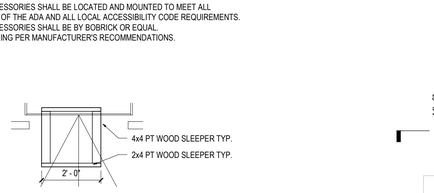
03 ENLARGED PLAN - TOILET ROOM
SCALE: 1/2" = 1'-0"



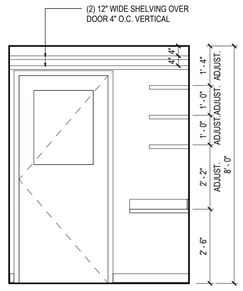
01 CONSTRUCTION PLAN - LEVEL 01
SCALE: 1/4" = 1'-0"



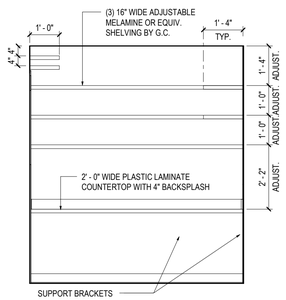
09 INT ELEV. - REFRIGERATOR STAND
SCALE: 1/2" = 1'-0"



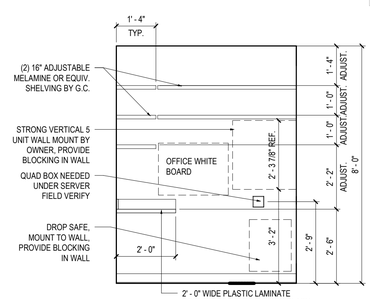
05 PLAN DETAIL - REFRIGERATOR STAND
SCALE: 1/2" = 1'-0"



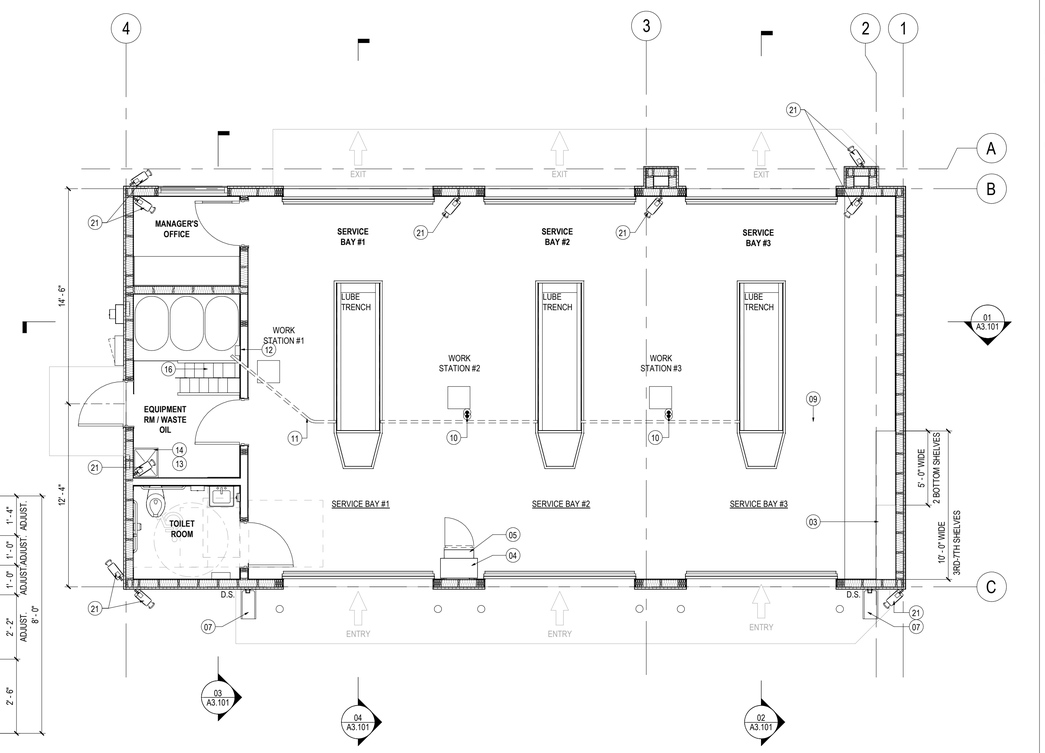
11 INT ELEV. - MGR'S OFFICE A
SCALE: 1/2" = 1'-0"



10 INT ELEV. - MGR'S OFFICE B
SCALE: 1/2" = 1'-0"



06 INT ELEV. - MGR'S OFFICE C
SCALE: 1/2" = 1'-0"



02 EQUIPMENT PLAN - LEVEL 01
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURES SCHEDULE

TAG	DESCRIPTION
PF-1	WALL MOUNTED SINK
PF-2	FLOOR MOUNTED TANKLESS TOILET

TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION
TA-1	TOILET PAPER HOLDER
TA-2	42" GRAB BAR
TA-3	36" GRAB BAR
TA-4	24" W X 1/4"D X 36"H MIRROR
TA-5	18" GRAB BAR
TA-6	PAPER TOWEL DISPENSER
TA-7	SOAP DISPENSER

RESTROOM NOTES:
NOTE 1: ALL TOILET ACCESSORIES SHALL BE LOCATED AND MOUNTED TO MEET ALL REQUIREMENTS OF THE ADA AND ALL LOCAL ACCESSIBILITY CODE REQUIREMENTS.
NOTE 2: ALL TOILET ACCESSORIES SHALL BE BY BOBRICK OR EQUAL.
NOTE 3: PROVIDE BLOCKING PER MANUFACTURER'S RECOMMENDATIONS.

SHEET NOTES

01 4" CONC. APRON, STAIN BLACK, COORD W/ CIVIL PLANS
02 2" RECESSED SLAB AT OIL TANK AREA
03 (7) 16" DEEP X VARIES WIDE X 12" O.C. HIGH ADJUSTABLE MELAMINE OR EQUIV. SHELVING START 15" A.F.F. BY G.C.
04 16" ADJUSTABLE SHELVES MELAMINE OR EQUIV. ABOVE REFRIG.
05 REFRIG. ON PLATFORM FRAME
06 6" PIPE BOLLARDS TYP.
07 1X2 SPLASHBLOCK OR CONNECT TO STORM DRAIN (COORDINATE WITH CIVIL)
08 ADJUST CHAMFER AS NEEDED PER SITE PLAN
09 3" DIA. PVC. STUB UP 1"
10 2 POWER/DATA CONDUITS STUB UP 6" ABOVE FINISH CONCRETE.
11 3" DIAM. PVC USE SWEEPS AT TURNS
12 WASTE OIL PUMP - REFER TO P-2
13 OIL INTERCEPTOR (RECESSED) - REFER TO P-2
14 20X24 MOP SINK
15 STATIONARY AIR COMPRESSOR SELECTED BY OWNER.
16 68DEG ALTERNATING TREAD STAIR - FSI INDUSTRIES OR EQ. BOLT TOP AND BOTTOM PLATE PER MANUFACTURERS RECOMMENDATIONS
17 RECESSED SLAB IN WASTE TANK AREA
18 ATTIC WALL ABOVE
19 ELECTRICAL METER / PANEL - PAINT DARK BRONZE
20 5'X6' CONCRETE LANDING - SLOPE AWAY FROM BUILDING 1:50 MAX
21 SECURITY CAMERA LOCATIONS BY G.C. (PROVIDE GROUNDING WIRE TO ALL)
22 ANSI CLASS A FIRST AID KIT SELECTED BY OWNER

GENERAL NOTES

A. REFER TO SERIES G1.002 FOR GRAPHIC SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
B. REFER TO SHEET G3.001 FOR DOOR & WINDOW SCHEDULES, INTERIOR & EXTERIOR WALL TYPES
C. INSULATE OFFICE WALLS AS REQUIRED TO ATTAIN R-19 VALUE
D. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. THE TYPE, LOCATION AND DIMENSIONS OF ALL PARTITIONS AND DOORS SHALL BE AS SHOWN ON ARCHITECT'S DRAWINGS. IN CASE OF CONFLICT, NOTIFY ARCHITECT PRIOR TO PARTITION INSTALLATION. ARCHITECT'S PLAN SUPERSEDES ALL OTHERS.
E. ALL PARTITIONS ARE DIMENSIONED FROM FINISHED FACE TO FINISHED FACE U.N.O. AND SHALL ALLOW FOR THICKNESS OF WALL FINISHES. INCLUDING WOOD AND FABRIC PANELS.
F. ALL DIMENSIONS MARKED "HOLD" OR "CLEAR" SHALL BE MAINTAINED.
G. PROVIDE 20 GA IN-WALL METAL BLOCKING FOR WALL-MOUNTED MILLWORK AND AV EQUIPMENT.
H. OPERATIONAL NOTES: CLASS 1 LIQUIDS ARE NOT STORED IN TAKE 5 BUILDINGS. CLASS IIIB LIQUID (MOTOR OIL) IS STORED IN THE BACK ROOM AREA. NO LIQUIDS ARE STORED IN THE LUBE TRENCHES. VEHICLES ARE OPERATED ONLY FOR THE DURATION OF MOVING THEN INTO AND OUT OF THE BUIULDING.
I. MELAMINE SOLID WOOD SHELVING: COLOR TBD. 12" MELAMINE OR EQ SHELVING, ON ADJUSTABLE MOUNT HARDWARE WITH VERTICAL STANDARDS AT 24" O.C. MAX SPACING. 16" MELAMINE OR EQ SHELVING ON HEAVY DUTY "MAX LOAD" ADJUSTABLE MOUNT HARDWARE WITH VERTICAL STANDARDS AT 24" O.C. MAX SPACING. CLOSET ROD TO BE WOOD DOWEL.

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△	Date	Description
1	10.08.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

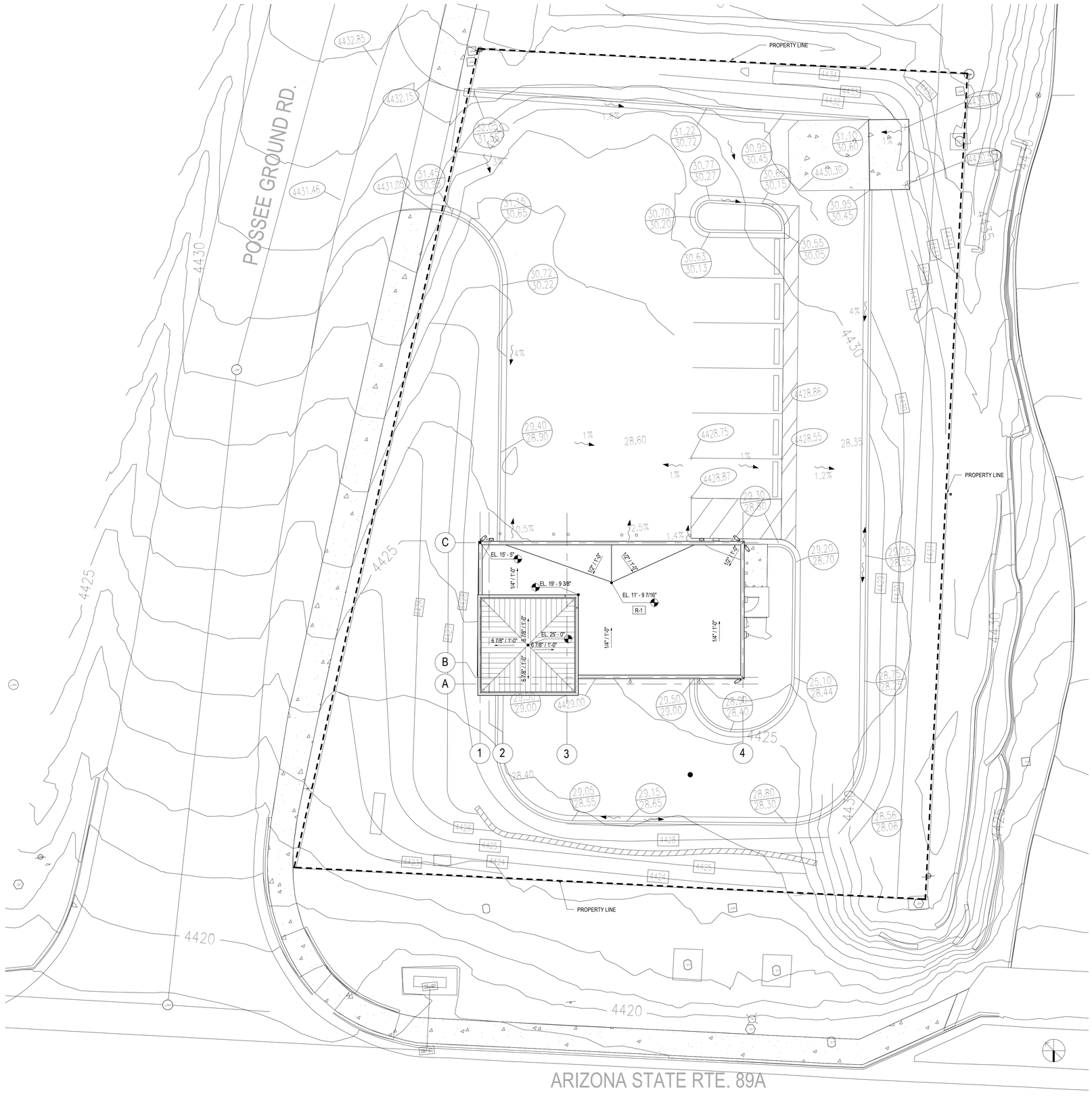
Project Name
Take 5 Oil Change

Project Number
59.6678.008

Description
CONSTRUCTION PLAN, EQUIPMENT PLAN & SCHEDULE, ENLARGED TOILET ROOM PLAN, AND INTERIOR ELEVATIONS

Scale
As indicated

A1.101



01 ROOF PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

GENERAL NOTES

A. REFER TO CIVIL DRAWINGS FOR ALL SITE INFORMATION. ARCHITECTURAL SITE PLAN SHOWN FOR REFERNCE ONLY FOR LOCATION, ORIENTATION OF BUILDING AND DUMPSTER ENCLOSURES.

B. REFER TO CIVIL DRAWINGS FOR SITE UTILITIES. GC TO REFER TO MEP DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION

C. REFER TO CIVIL DRAWINGS FOR SURVEY, SITE GRADING AND ADDITIONAL INFORMATION TO COORDINATE WITH STRUCTURAL FOUNDATION PLANS AND DETAILS.

Take 5 Oil Change

80 Posse Ground Rd
Sedona AZ 86336

Gensler

2575 E Camelback Rd
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Phoenix, AZ 85016
United States

Tel 602.523.4900
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ALLIED CONSULTING ENGINEERS

MEP Engineer
709 Catawba Street
Belmont, NC 28012
Telephone 704.399.3943

△	Date	Description

Seal / Signature

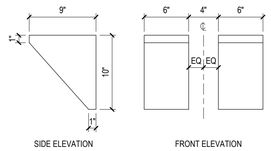
Project Name
Take 5 Oil Change

Project Number
59.6678.008

Description
ROOF PLAN

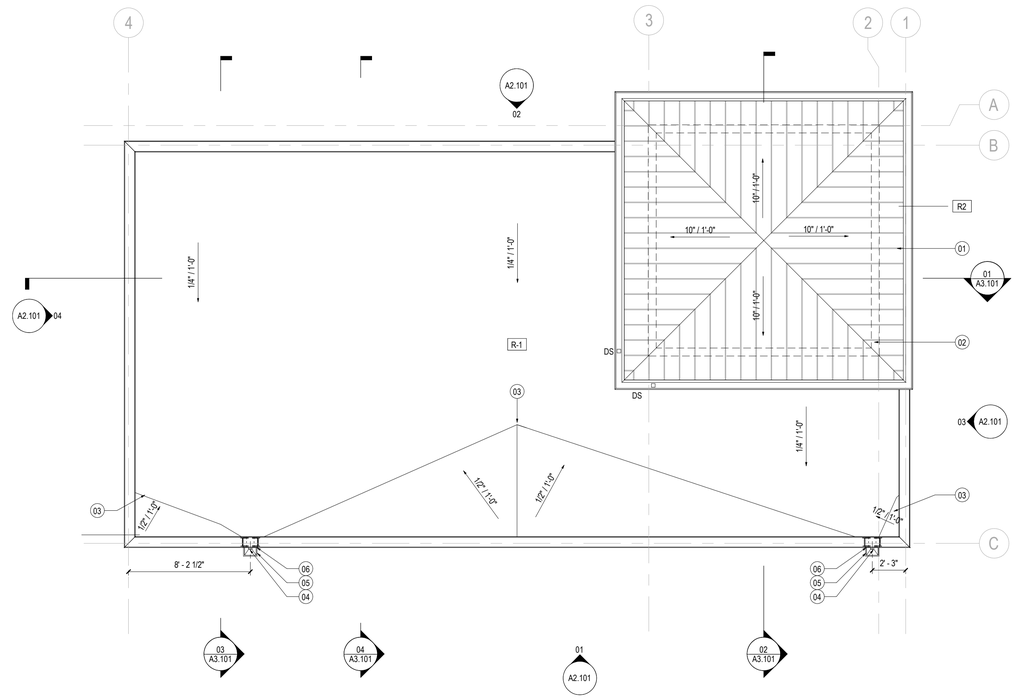
Scale
1/8" = 1'-0"

A1.100

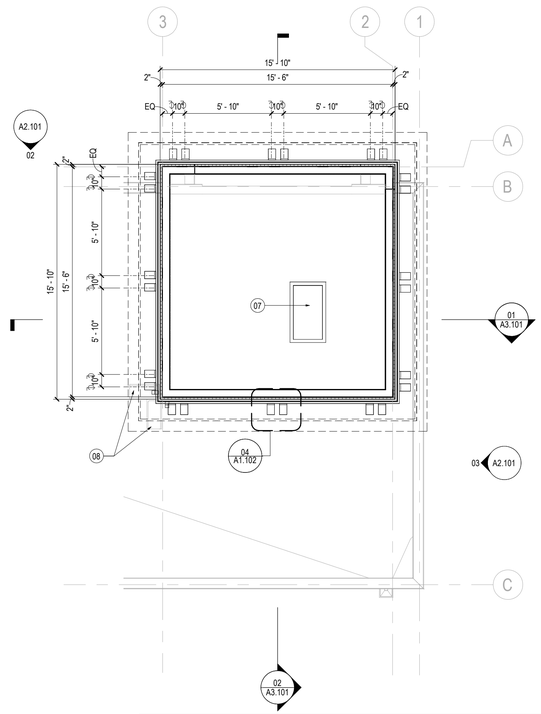


NOTE: FINISH 8 - REFER TO FINISH SCHEDULE

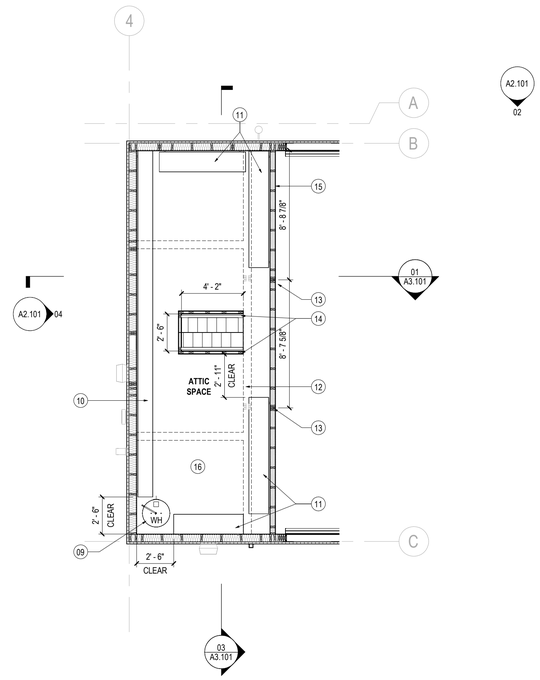
04 EIFS BRACKET DETAIL
SCALE: 1 1/2" = 1'-0"



01 CONSTRUCTION ROOF PLAN
SCALE: 1/4" = 1'-0"



03 CONSTRUCTION PLAN - LEVEL 03 - CUPOLA BASE
SCALE: 1/4" = 1'-0"



02 ATTIC LEVEL
SCALE: 1/4" = 1'-0"

SHEET NOTES

01 STANDING SEAM, PREFINISHED METAL ROOF - SEE ELEVATIONS FOR COLOR
02 COUPLA WALLS BEYOND
03 CRICKETS SLOPE TO SCUPPER - TYPICAL
04 LEADER HEAD AND 4X5 DOWNSPOUT
05 6X8 PRIMARY SCUPPER
06 6X12 OVERFLOW SCUPPER
07 22" X 42" OPEN ACCESS HATCH
08 1X2 SPLASHBLOCK ALIGNED WITH DOWNSPOUT ABOVE.
09 WATER HEATER SEATING ON FLOOR IN ATTIC STORAGE - SEE PLUMBING DWGS
10 12" DEEP WOOD SHELVING WITH 1X2 SUPPORTS, (3) SHELVES AT 14" O.C. VERTICALLY (TYP.)
11 16" DEEP WOOD SHELVING WITH 1X2 SUPPORTS, (3) SHELVES AT 14" O.C. VERTICALLY (TYP.)
12 2X6 WALL BELOW
13 (3) 2X4 STUDS & DOUBLE JOIST BELOW
14 2X4 SIDEWAYS WALL TO BE 42" ABOVE ATTIC STORAGE FLOOR W/ 1X WOOD CAP
15 EXTEND 2X4 WALL TO UNDERSIDE OF ROOF DECK & INSULATE
16 3X4 PLYWOOD FLOOR (TYP.)

GENERAL NOTES

A. ROOFING MEMBRANE TO BE MECHANICALLY FASTENED TPO.
B. ALL RIGID INSULATION TO BE POLYISOCYANURATE
C. ROOF INSULATION TO BE MINIMUM R-25
D. PROVIDE 4" CONTINUOUS CANT STRIP AT PERIMETER - TYPICAL
E. OVERFLOW DRAIN TO BE 2" HIGHER THAN ROOF DRAIN - TYPICAL

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△	Date	Description
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Project Name
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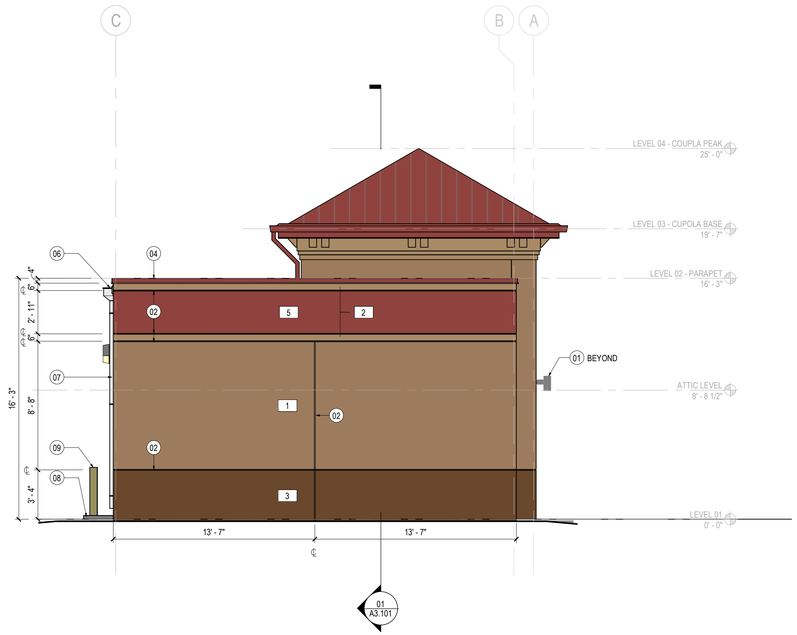
Project Number
59.6678.008

Description
CONSTRUCTION PLAN - ROOF, ATTIC, & COUPLA

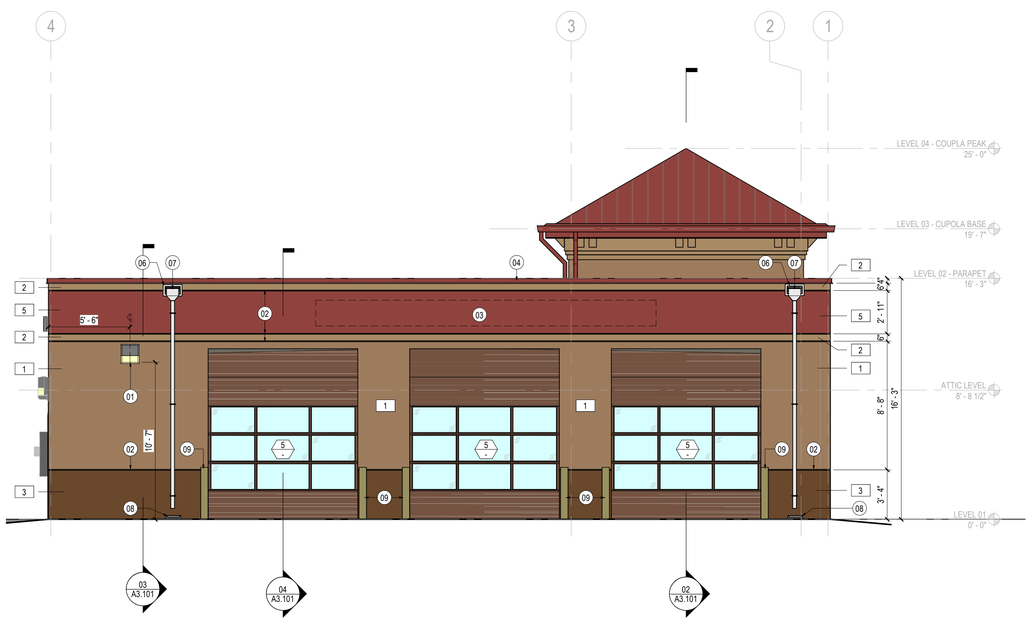
Scale
As indicated

A1.102

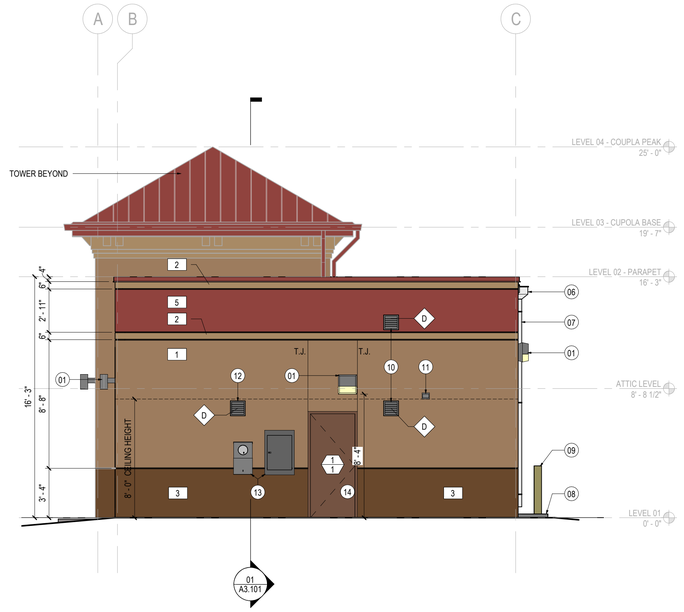
EXTERIOR FINISH SCHEDULE			
NO.	AREA	COATS	COLOR
1	EIFS MAIN COLOR	--	MATCH DE6118, SANDPIT
2	EIFS ACCENT BAND	--	MATCH DE6145, ROCKY RIDGE
3	EIFS WAINSCOT	--	MATCH DEA159, RICH MOCHA
4	COPING / CORNICE	--	MATCH DEA152, DEEP CRIMSON
5	EIFS SECONDARY COLOR	--	MATCH DEA152, DEEP CRIMSON
6	TOWER - ROOF AND GUTTER PRE-FINISHED STANDING SEAM	--	MATCH DEA152, DEEP CRIMSON
7	TOWER - FASCIA PRE-PRIMED LP SMARTSIDE TRIM	2	MATCH DEA152, DEEP CRIMSON
8	TOWER - SOFFIT PRE-PRIMED LP SMARTSIDE VENTED SOFFIT	2	MATCH DE6145, ROCKY RIDGE



03 WEST ELEVATION
SCALE: 1/4" = 1'-0"



01 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



04 EAST ELEVATION
SCALE: 1/4" = 1'-0"

02 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

SHEET NOTES

01 LIGHT FIXTURE (TYPICAL) - REFER TO ELECTRICAL DWGS.
02 "V" JOINT IN EIFS - REFER TO DETAIL 10 / A4.201 FOR MORE INFORMATION
03 OIL CHANGE SIGN (37 S.F.) SHOWN FOR REFERENCE ONLY
04 PREFINISHED GALV. METAL COPING TO MATCH FINISH 4
05 A.C. UNIT LOUVER - COLOR DARK BRONZE
06 PREFINISHED METAL OVERFLOW SCUPPER (COLOR - DARK BRONZE)
07 PREFINISHED METAL DOWNSPOUT & LEADERHEAD (COLOR - DARK BRONZE)
08 1X2 SPLASHBLOCK OR CONNECT TO STORM DRAIN (COORDINATE WITH CIVIL)
09 6" ROUND PIPE BOLLARD TYPICAL - COLOR TO MATCH FINISH 5
10 EF-2 W/ THERMOSTAT & GRAVITY LOUVER
11 BATH FAN WALL CAP
12 12X12 INTAKE LOUVER - COLOR TO MATCH FINISH 1
13 ELECTRICAL METER / PANEL - PAINT DARK BRONZE
14 PAINT DOOR & FRAME TO BE SW #6076 - TURKISH COFFEE

GENERAL NOTES

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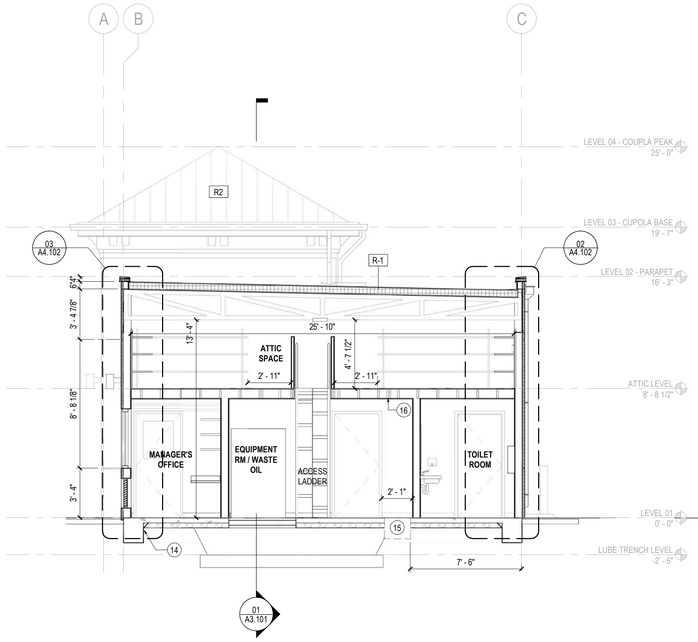
Description
BUILDING ELEVATIONS

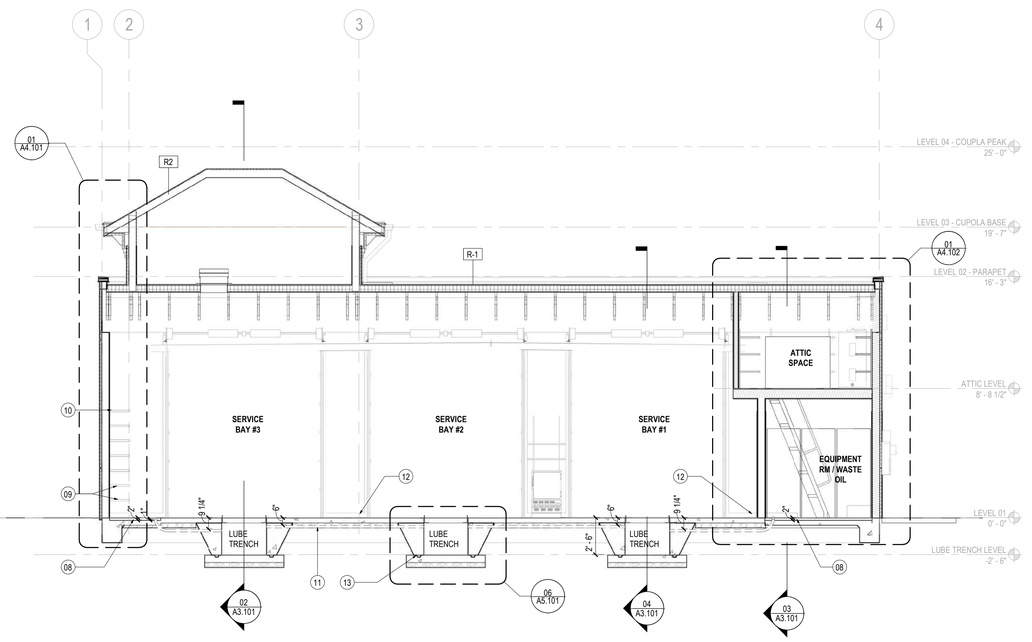
Scale
1/4" = 1'-0"

A2.101



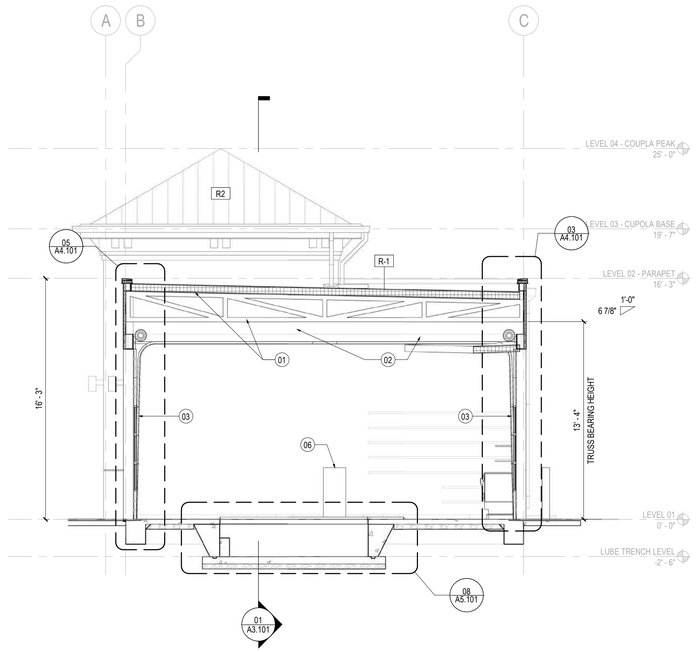
03 BUILDING SECTION - THROUGH SUPPORT AREAS

SCALE: 1/4" = 1'-0"



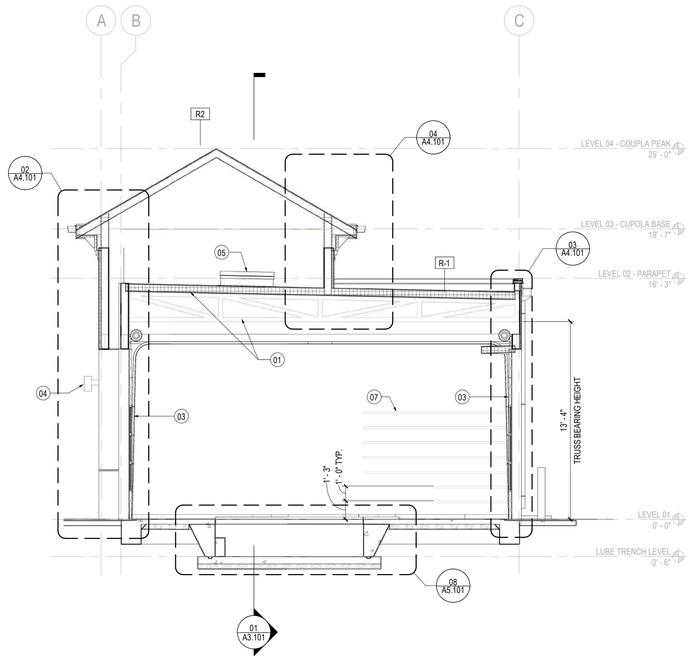
01 BUILDING SECTION - LONGITUDINAL

SCALE: 1/4" = 1'-0"



04 BUILDING SECTION - THROUGH SERVICE BAY 3 (SERVICE BAY 2 SIM)

SCALE: 1/4" = 1'-0"



02 BUILDING SECTION - THROUGH SERVICE BAY 1

SCALE: 1/4" = 1'-0"

SHEET NOTES

01 PAINT ALL EXPOSED STRUCTURAL MEMBERS
02 OVERHEAD DOOR SUPPORTS
03 OVERHEAD DOOR
04 EXTERIOR LIGHT REFER TO ELECTRICAL DRAWINGS.
05 ROOF HATCH
06 WORK STATION SEE PLAN FOR LOCATIONS
07 (7) 16" DEEP ADJUSTABLE MELAMINE OR EQUIVILENT SHELVING.
08 2" DEPRESSED SLAB AT OIL AREAS
09 1ST 2 SHELVES ARE 5' WIDE & THE REST ARE 10' WIDE
10 (7) 16" DEEP X VARIES WIDE X 12" O.C. HIGH ADJUSTABLE MELAMINE OR EQ. SHELVING START 15" A.F.F. BY G.C.
11 3" DIA. PVC (TYP.) USE SWEEPS AT TURNS
12 VINYL BASE
13 CONTINUOUS WATERSTOP AROUND TRENCH, TYPICAL AT ALL LUBE TRENCHES. REFER TO STRUCTURAL DWGS.
14 PERIMETER INSULATION 2'-0" @ OFFICE ONLY
15 OIL INTERCEPTOR RECESSED
16 DOUBLE FLOOR JOIST - REFER TO STRUCTURAL DWGS

GENERAL NOTES

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Description
BUILDING SECTIONS

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A3.101

PLUMBING LEGEND

- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- SANITARY PIPING (SAN)
- VENT PIPING (V)
- COMPRESSED AIR PIPING (A)
- BALL VALVE
- CAP
- CHECK VALVE
- FREEZELESS WALL HYDRANT (FWH)
- HOSE BIBB (HB)
- PIPE DOWN
- PIPE UP
- FLOOR CLEANOUT (FCO)
- FLOOR DRAIN (FD)

ABV	ABOVE
A/C	ABOVE CEILING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLW	BELOW
B/S	BELOW SLAB
CLG	CEILING
CO	CLEANOUT
CONN	CONNECT OR CONNECTION
CONT	CONTINUATION
DN	DOWN
DS	DOWNSPOUT
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
E.C.	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
EX, EXIST, (E)	EXISTING
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
HD	HUB DRAIN
IE, INV ELEV	INVERT ELEVATION
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
OH	OVERHEAD
ORD	OVERFLOW ROOF DRAIN
P.C.	PLUMBING CONTRACTOR
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RWC	RAINWATER CONDUCTOR
SF, SQ FT	SQUARE FOOT
T&P	TEMPERATURE AND PRESSURE
TP	TRAP PRIMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF
W	WASTE

WATER HAMMER ARRESTER SCHEDULE

PDI SIZE	FIXTURE UNITS	MODEL
A	1 – 11	SIOUX CHIEF 652–AS
B	12 – 32	SIOUX CHIEF 653–BS
C	33 – 60	SIOUX CHIEF 654–CS
D	61 – 113	SIOUX CHIEF 655–DS
E	114 – 154	SIOUX CHIEF 656–ES
F	155 – 330	SIOUX CHIEF 657–FS

WATER HAMMER ARRESTERS SHALL BE SEAMLESS, PISTON–TYPE, SIZED AND INSTALLED IN ACCORDANCE WITH PDI–WH201. INSTALL WATER HAMMER ARRESTER IN STANDARD TEE, SAME SIZE AS CONNECTED PIPING. AIR CHAMBERS WILL NOT BE PERMITTED.

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC–1	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3”	1–1/2”	1/2”	–	FIXTURE: AMERICAN STANDARD CADET PRO RIGHT HEIGHT NO. 215AA.104, 1.28 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3” FLUSH VALVE, EVERCLEAN SURFACE. SUPPLY: McGUIRE 1/2” X 3/8” CHROME–PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL SELF–SUSTAINING CHECK HINGES, STA–TITE FASTENING SYSTEM, ANTIMICROBIAL.
L–1	LAVATORY	WALL HUNG ADA HEIGHT	VITREOUS CHINA	1–1/2”	1–1/2”	1/2”	1/2”	FIXTURE: AMERICAN STANDARD LUCERNE NO. 0355.012, 20” X 18”, FRONT OVERFLOW, SELF–DRAINING DECK WITH SPLASH SHIELDS, FAUCET LEDGE WITH FAUCET HOLES ON 4” CENTERS. FAUCET: AMERICAN STANDARD SEVA NO. 1480.150.002, POLISHED CHROME–PLATED CAST BRASS, SINGLE CONTROL CENTERSET, WITH 0.5 GPM VANDAL–RESISTANT AERATOR. MIXING VALVE: LEONARD LF–170 ASSE 1070 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1–1/4” OFFSET TAILPIECE, McGUIRE 1–1/4” X 1–1/2” 17 GAUGE CHROME–PLATED CAST BRASS P–TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2” X 3/8” CHROME–PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. CARRIER: ZURN Z1231 SERIES CONCEALED ARM SYSTEM FOR WALL LAVATORIES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E–Z UNDERSINK PIPING COVERS, WITH P–TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS, AND OFFSET TAILPIECE COVER.
SS–1	SERVICE SINK	FLOOR MOUNTED SINGLE BOWL	MOLDED STONE	1–1/2”	1–1/2”	1/2”	1/2”	FIXTURE: FIAT MODEL FL–1 FLOOR MOUNTED SERV–A–SINK, 23” X 21–1/2” X 13” DEEP, WITH DRAIN AND STOPPER, WHITE BAKED ENAMEL ANGLE LEGS WITH LEVELING DEVICES. FAUCET: AMERICAN STANDARD LAUNDRY FAUCET NO. 7573.140.002, POLISHED CHROME–PLATED CAST BRASS, 4” CENTERSET, HOSE END SWIVEL SPOUT, LEVER HANDLES. PROVIDE VACUUM BREAKERS ON SUPPLIES. TRAP: CHROME–PLATED BRASS TAILPIECE, McGUIRE 1–1/2” 17 GAUGE CHROME–PLATED CAST BRASS P–TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2” X 3/8” CHROME–PLATED CAST BRASS FLEXIBLE SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. SPRAYER: T&S BRASS B–7212–01–ESB WALL HUNG SPRAYER WITH HOSE MOP BRACKET: PROVIDE MOP BRACKET

PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
FD–1	FLOOR DRAIN	ZURN ZN415B–P	CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR, 6” DIAMETER ”TYPE B” POLISHED NICKEL BRONZE STRAINER, 1/2” TRAP PRIMER CONNECTION.
FCO	FLOOR CLEAN OUT	ZURN ZN1400–BP	ADJUSTABLE, COATED CAST IRON BODY, ROUND SCORIATED NICKEL BRONZE TOP, BRONZE PLUG.
WCO	WALL CLEAN OUT	ZURN Z1446–BP–VP	CAST IRON NO–HUB CLEANOUT TEE, WITH ROUND STAINLESS STEEL WALL ACCESS COVER, BRONZE PLUG, VANDAL–PROOF SECURING SCREW.
GCO	GRADE CLEAN OUT	ZURN Z1400–BP–VP	ADJUSTABLE, COATED CAST IRON BODY, ROUND CAST IRON TOP, BRONZE PLUG, VANDAL–PROOF SCREWS, SET IN 18” X 18” X 6” DEEP CONCRETE SLAB.
FWH–1	FREEZELESS WALL HYDRANT	WOODFORD MODEL B67C	ENCLOSED, ANTI–SIPHON, AUTOMATIC DRAINING, CAST BRASS WALL HYDRANT, CHROME PLATED FINISH, 3/4” INLET, 3/4” MALE HOSE THREAD NOZZLE, LOOSE TEE KEY OPERATION, WITH A DOUBLE CHECK BACKFLOW PREVENTION DEVICE. INCLUDES WOODFORD 67BX BRASS BOX IN CHROME FINISH, WITH HINGED COVER AND TEE KEY OPERABLE LOCK
HB–1	HOSE BIBB	WOODFORD MODEL 26P½–PC	INTERIOR, EXPOSED, ANTI–SIPHON, AUTOMATIC DRAINING, POLISHED CHROME FINISH, 1/2” FLANGED FEMALE PIPE THREAD INLET, 3/4” MALE HOSE THREAD NOZZLE, WITH POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY, WITH A DOUBLE CHECK BACKFLOW PREVENTION DEVICE.
WH–1	ELECTRIC WATER HEATER	AO SMITH MODEL DEL–10	COMMERCIAL ELECTRIC, LOWBOY, 10 GALLON CAPACITY, 1.5 KW INPUT, 115V–1 PHASE, 7.5 GPH AT 80°F TEMPERATURE RISE, GLASS–LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE.
OI–1	OIL INTERCEPTOR, RECESSED IN FLOOR	JR SMITH 8599–10–5	FABRICATED STEEL WITH DIAMOND PLATE COVER, SEDIMENT BASKET, DUCO COATED INSIDE AND COAL TAR EPOXY OUTSIDE, COMPLETE WITH FLOW CONTROL FITTING, 10 GPM FLOW RATE, 5 GPM STORAGE, PROVIDE CLEANOUT ACCESS, EXTENSIONS IF REQUIRED

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. SCOPE: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
2. CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, AND DEPARTMENT OF HEALTH. APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE CODES, LAWS, OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.
3. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
4. WARRANTY: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
5. COORDINATION: VERIFY ALL ROUGH–IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING PIPING AT CMU WALLS SO THAT THE PIPING IS PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
6. SCALE: DO NOT SCALE PLANS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALLS, WALL DIMENSIONS, ETC.
7. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE BIDDING PROJECT AND BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS, AND/OR ANY POTENTIAL PROBLEMS OBSERVED, BEFORE CONTINUING WORK IN THE AFFECTED AREAS.
8. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
   –PLUMBING FIXTURES AND EQUIPMENT
   –DOMESTIC WATER SYSTEM
   –SANITARY WASTE AND VENT SYSTEM
   –COMPRESSED AIR SYSTEM
   –INSULATION
   –HEAT TRACE

FIXTURES:

1. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
2. SEAL ALL EDGES OF PLUMBING FIXTURES IN CONTACT WITH FLOORS, WALLS, OR COUNTERTOPS USING SANITARY–TYPE, ONE–PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.
3. PROVIDE PERMANENTLY ATTACHED VACUUM BREAKERS FOR ALL FIXTURES/FAUCETS TO WHICH HOSES MAY BE CONNECTED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

DOMESTIC WATER PIPING:

1. FURNISH AND INSTALL A COMPLETE SYSTEM OF DOMESTIC HOT AND COLD WATER FROM SITE SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING DOMESTIC WATER SUPPLIES. VERIFY LOCATION OF BEGINNING POINTS.
2. DOMESTIC WATER PIPING BELOW GROUND:
   2.1. AWWA C151 CEMENT–LINED DUCTILE IRON PIPE AND FITTINGS FOR PIPING 4” AND LARGER; ASTM B 88 TYPE 'K' SOFT COPPER TUBE WITH WROT COPPER FITTINGS, AND BRAZED OR PRESSURE–SEALED JOINTS FOR PIPING 3” AND SMALLER.
   2.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
3. DOMESTIC WATER PIPING ABOVE GROUND:
   3.1. ASTM B 88 TYPE 'L' HARD COPPER TUBE WITH WROUGHT COPPER FITTINGS, AND SOLDERED OR PRESSURE–SEALED JOINTS.
   3.2. IF PERMITTED BY LOCAL CODES, FLOWGUARD GOLD CPVC COPPER TUBE SIZE SDR 11 PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
   3.3. IF PERMITTED BY LOCAL CODES, ASTM F876 CROSSLINKED POLYETHYLENE PEX–A TUBING, AND ASTM F1960 PEX–A COLD EXPANSION FITTINGS MAY BE USED. DO NOT INSTALL PEX TUBING IN RETURN AIR PLENUMS.
4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. SHUT–OFF VALVES SHALL BE NIBCO TWO–PIECE, BRONZE, FULL PORT, BALL TYPE. PROVIDE SHUT–OFF VALVES ON ALL BRANCH PIPING SERVING TWO OR MORE FIXTURES, AND WHERE INDICATED ON THE DRAWINGS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.
6. PROVIDE AN ASSE 1070 TEMPERATURE LIMITING DEVICE SET AT 110 DEGREES FAHRENHEIT FOR ALL PUBLIC HAND WASHING LAVATORIES, PUBLIC GROUP WASH FIXTURES, AND HAND SINKS.
7. PROVIDE A PRESSURE REDUCING VALVE WITH STRAINER AT THE SERVICE ENTRANCE TO THE BUILDING IF THE INCOMING WATER PRESSURE EXCEEDS 80 PSI.
8. PROVIDE CHECK VALVES IN THE HOT AND COLD WATER SUPPLY PIPING TO ALL FAUCETS TO WHICH HOSES MAY BE CONNECTED (MOP BASINS, CAN WASHES, SERVICE SINKS, ETC.), AND TO ALL SPRAY FAUCETS (PRE–RINSE, BED PAN CLEANERS, ETC.), UNLESS FAUCET HAS INTEGRAL CHECK VALVES.
9. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER–PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS.
10. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER PIPING IS CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT–SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
11. INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.

SANITARY WASTE AND VENT PIPING:

1. FURNISH AND INSTALL COMPLETE SYSTEMS OF SANITARY WASTE AND VENT PIPING FROM ALL PLUMBING FIXTURES AND/OR EQUIPMENT REQUIRING WASTE AND VENT CONNECTIONS. ALL WASTE AND VENT PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. SANITARY WASTE AND VENT PIPING BELOW GROUND:
   2.1. ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   2.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET–TYPE FITTINGS MAY BE USED. FOAM CORE PVC PIPE IS NOT APPROVED.
3. SANITARY WASTE AND VENT PIPING ABOVE GROUND:
   3.1. ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   3.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET–TYPE FITTINGS MAY BE USED. FOAM CORE PVC PIPE IS NOT APPROVED.
4. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE SANITARY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE SANITARY PIPING 2–1/2” AND SMALLER AT 1/4” PER FOOT MINIMUM, AND SLOPE SANITARY PIPING 3” AND LARGER AT 1/8” PER FOOT MINIMUM.
5. WHERE SANITARY PIPING IS EXPOSED IN TOILET ROOMS, PROVIDE CHROME–PLATED BRASS PIPING WITH MATCHING ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES AND SINKS.
6. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL SOIL AND WASTE STACKS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
7. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO AN APPROVED WASTE RECEPTOR. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
8. PROVIDE AUTOMATIC TRAP PRIMER ON ALL TRAPS WITH TRAP SEAL SUBJECT TO LOSS BY EVAPORATION. IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION, A TRAP SEAL MAINTENANCE DEVICE MAY BE USED IN LIEU OF A TRAP PRIMER WHERE TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION.
9. ON SLOPED ROOFS, PAINT SANITARY VENT PIPING ABOVE ROOF TO MATCH ROOF COLOR.
10. MODIFY PIPING AS REQUIRED SO THAT SANITARY VENT TERMINALS ARE A MINIMUM OF 10' FROM ANY BUILDING FRESH AIR INLET OR AS OTHERWISE REQUIRED BY LOCAL AUTHORITIES.

COMPRESSED AIR PIPING:

1. WORK TO INCLUDE PIPING FROM EXISTING PIPING TO ALL NEW EQUIPMENT REQUIRING COMPRESSED AIR SUPPLY, INCLUDING FINAL CONNECTIONS TO EQUIPMENT.
2. COMPRESSED AIR PIPING: ASTM B 88 TYPE 'L' HARD COPPER TUBE WITH WROT COPPER FITTINGS, AND BRAZED JOINTS.
3. SHUT–OFF VALVES SHALL BE FULL PORT, BALL TYPE APPROVED FOR USE IN COMPRESSED AIR PIPING SYSTEMS. PROVIDE SHUT–OFF VALVES AT CONNECTIONS TO EXISTING PIPING, AND AT EACH CONNECTION TO EQUIPMENT.
4. INSTALL AIR PIPING WITH 1% SLOPE DOWNWARD IN DIRECTION OF FLOW.
5. INSTALL BRANCH CONNECTIONS TO EQUIPMENT FROM TOP OF COMPRESSED AIR MAINS.
6. PROVIDE DRAIN LEG AT END OF EACH COMPRESSED AIR MAIN AND BRANCH.
7. PROVIDE PRESSURE REGULATOR AND FILTER AT EACH CONNECTION TO EQUIPMENT AS REQUIRED. VERIFY ALL CONNECTION REQUIREMENTS WITH OWNER.
8. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER–PLATED.

INSULATION:

1. INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
3. DOMESTIC WATER PIPING:
   3.1. INSULATE METALLIC WATER SYSTEM WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH 1” ELASTOMERIC FOAM INSULATION, OR 1” FIBERGLASS PIPE INSULATION WITH FACTORY–APPLIED ALL SERVICE JACKETING. 1/2” INSULATION MAY BE USED FOR METALLIC PIPING 1” AND LESS.
   3.2. INSULATE NON–METALLIC PIPING INSTALLED IN RETURN AIR PLENUMS WITH FIRE BARRIER PLENUM WRAP LISTED FOR THE PIPE MATERIALS AND PIPE SIZE, IF THE PIPE AND FITTINGS ARE NOT LISTED FOR INSTALLATION IN RETURN AIR PLENUMS.

HEAT TRACE:

1. DOMESTIC WATER PIPING:
   1.1. IN AREAS SUBJECT TO FREEZING TEMPERATURES, WRAP WITH HEAT TRACE AND INSULATION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN TEMPERATURE AT 40°F OR ABOVE.

WATER HAMMER ARRESTER REQUIREMENTS:

1. PROVIDE WATER HAMMER ARRESTERS CONFORMING TO PDI–WH201 OR ASSE 1010, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, WHERE QUICK CLOSING VALVES ARE UTILIZED. A QUICK CLOSING VALVE IS A VALVE OR FAUCET THAT CLOSES AUTOMATICALLY WHEN RELEASED, OR THAT IS CONTROLLED BY MECHANICAL MEANS FOR FAST–ACTION CLOSING. REFER TO WATER HAMMER ARRESTER SCHEDULE.
2. AS A MINIMUM, PROVIDE ONE WATER HAMMER ARRESTER FOR EACH BRANCH LINE TO EACH TOILET ROOM LESS THAN 20' IN LENGTH, LOCATED BETWEEN THE LAST TWO FIXTURES SERVED. FOR BRANCH LINES GREATER THAN 20' IN LENGTH, A SECOND WATER HAMMER ARRESTER IS REQUIRED.

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Date	Description
7/29/2021	ISSUE FOR CONSTRUCTION

Seal / Signature

Registered Professional Engineer CERTIFICATE NO. 53752 EDWIN D. BELK Date Signed ARIZONA USA 7/29/21 Electrical Expires 09–30–21

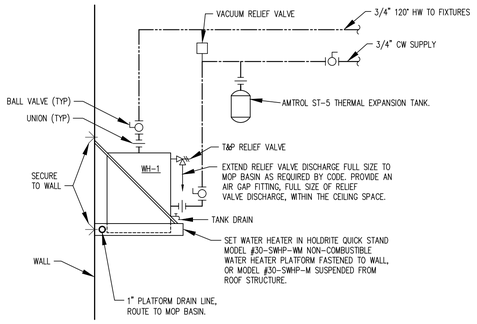
Project Name
Take 5 Oil Change

Project Number
59.6678.001

Description
PLUMBING NOTES, LEGEND AND SCHEDULES

Scale
As indicated

P0.01

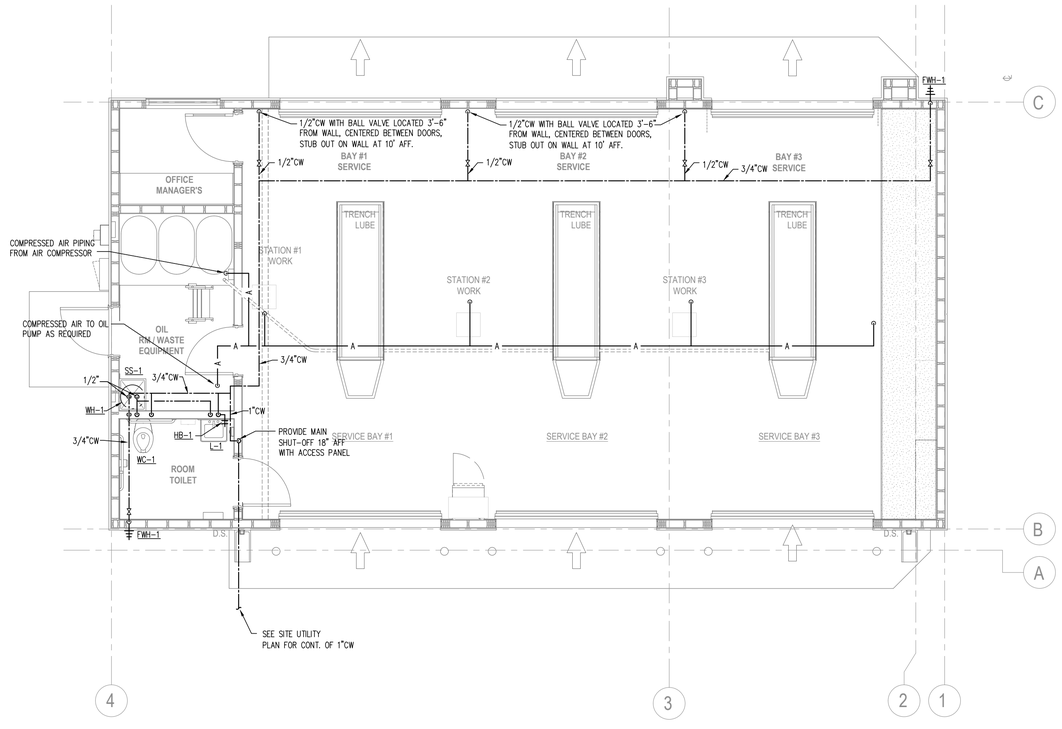


NOTES:
1. WATER HEATER PLATFORM SHALL BE MOUNTED ABOVE CEILING OR AS HIGH AS POSSIBLE ON WALL.
2. PROVIDE HEAT TRAPS AS REQUIRED PER LOCAL CODE, UNLESS WATER HEATER HAS INTEGRAL HEAT TRAPS.
3. WATER HEATER AND RELATED COMPONENTS SHALL BE INSTALLED PER CODE AND MANUFACTURER'S INSTRUCTIONS.

3 P1.01 **DOMESTIC WATER HEATER DETAIL**
NOT TO SCALE

GENERAL NOTES

1. PROVIDE HEAT TRACE ON ALL PIPING RUN EXPOSED IN SERVICE BAY AND STORAGE ROOM
2. VERIFY/CONFIRM ALL HOSE BIBB LOCATIONS WITH OWNER PRIOR TO STARTING WORK
3. COMPRESSED AIR SYSTEM BY OTHERS. SEE OWNER AND EQUIPMENT PROVIDED FOR ADDITIONAL INFORMATION.
4. SEAL ALL PIT PENETRATIONS



2 P1.01 **PLUMBING FLOOR PLAN - WATER SUPPLY**
SCALE: 1/4" = 1'-0"

EQUIPMENT LIST		
QTY	PART #	PARTS
3		330 V SW TANK
2	3340-014	1/4" WATER BIBB
2	3340-014	4-PRODUCT OIL BAR BRACKET
2	3340-009	TIRE INFLATOR WITH GAUGE
1		TIE KIT
6		1/2" BALL VALVE
1		1" BALL VALVE
1		1/4" FILTER REG/SEPERATOR
100'		3/4 FUEL HOSE BLACK
15		3/4 PUSH LOCK FITTINGS

EQUIPMENT LIST, NOTES AND ADDITIONAL INFORMATION

The waste oil pump shall be a Samson Item # 2836 40gal/minute Aluminum 1" diaphragm pump, wall mount available from Samson, as well as filter/regulator and Y-Strainer or appropriate 1" filter and connection fittings.

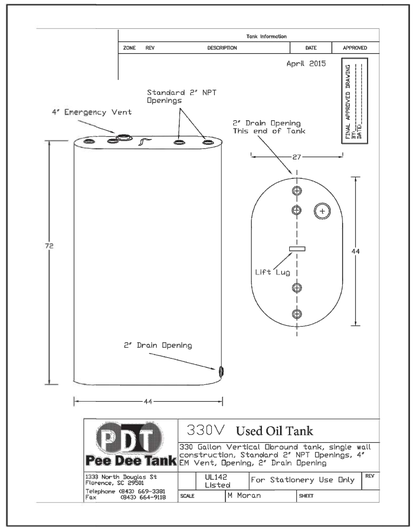
The front of the rolling pan has a 3/4" galvanized plug that must be installed by equipment installers. On the rear of the pan is a 3/4" ball valve with the valve facing towards the floor so the employees can push it open with their toes. Threaded into the ball valve is a 3/4" gasoline swivel, or a 2-plane swivel. Threaded into the swivel is either a 3/4" barb fitting, or a Push-Lok barb fitting. Either will work. Pushed onto the hose barb is 3/4" gasoline hose. It does not have to be too flexible. 1 wire is sufficient. Use worm gear hose clamps where applicable.

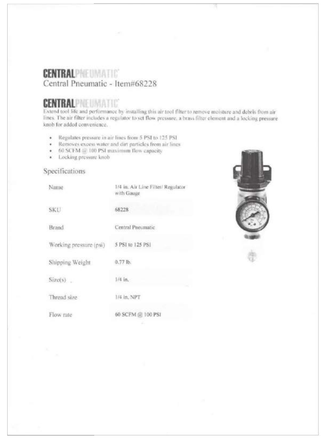
For a 3 bay, use approximately 75' of hose. The method of install is as follows:

1. Pull hose through 3" chase beginning in tank room. Pull all the way through to bay 3 and hook up to the rolling pan as described above.
2. At the back of bay 2, cut the hose on the same side as the deep side of the rolling pans. Insert a galvanized tee or brass tee and install a 6' hose between the tee and the bay 2 rolling pan. Same thing on bay 1.
3. Cut and fit hose to Y-Strainer via reducer coupling from 1" to 3/4" and a hose barb. Use short pieces of 1" pipe and an elbow to go into the inlet of pump. Outlet is a 1" hose that is fitted to the top of the tank.
4. Used oil tanks are "bunged together" at the bottom with hoses and ball valves so all can be filled at once, and you can shut them off to empty them via pump truck through the fill cap.
5. It is recommended that an overfill alarm/air switch is used. Use the correct one for the style and part number of pump installed. The alarm/switch will shut off the air to the pump at a certain fill level, preventing a spill.

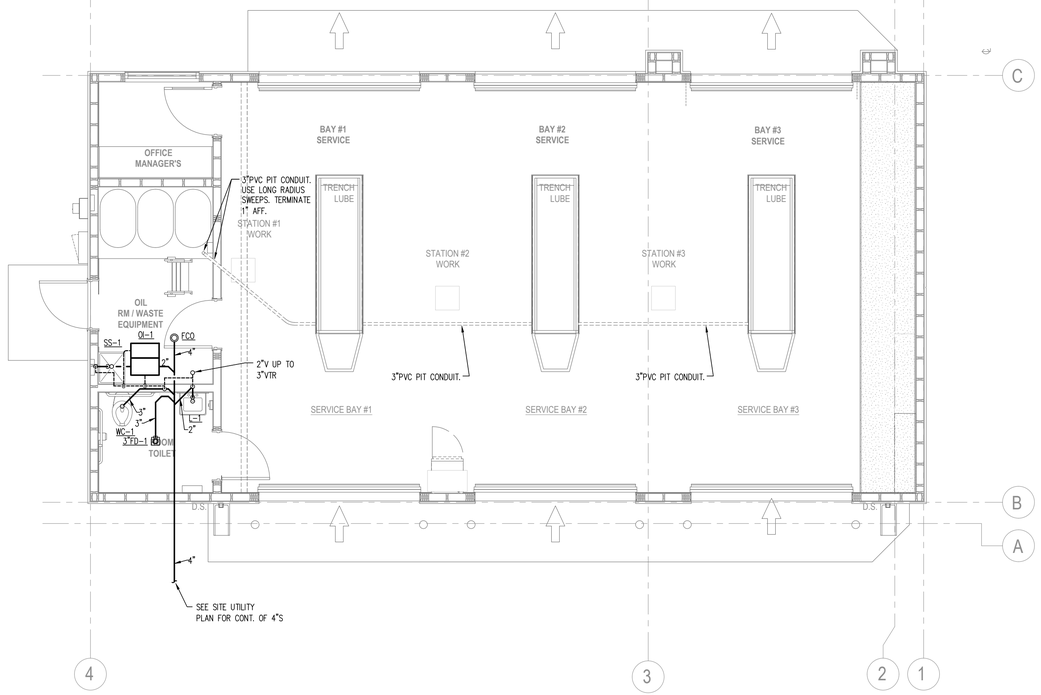
The air compressor "Bel Aire, Item # 6061V". 2hp roll around compressor.

The pit magnets are Item # 07661, a 24 inch black powder coated tool holder with yellow stripe. They can be found at Master Magnets at 800-525-3536 and the website is www.Magnetsource.com .





4 P1.01 **USED OIL SYSTEM INFO - FOR REFERENCE ONLY**
NO SCALE



1 P1.01 **PLUMBING FLOOR PLAN - WASTE AND VENT**
SCALE: 1/4" = 1'-0"

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△	Date	Description
	7/29/2021	ISSUE FOR CONSTRUCTION

Seal / Signature

Registered Professional Engineer CERTIFICATE NO. 53752 EDWIN D. [illegible] Signed ARIZONA USA 7/29/21
Electrical
Expires 09-30-21

Project Name
Take 5 Oil Change

Project Number
59.6678.001

Description
PLUMBING FLOOR PLANS

Scale
As indicated

P1.01

Take 5 Oil Change

80 Posse Ground Rd.
Sedona, AZ 86336

FAN SCHEDULE

SYMBOL	TYPE	CFM	APPROX. S.P.	DRIVE	RPM	ELECTRICAL DATA WATTS	ELECTRICAL DATA H.P.	ELECTRICAL DATA VOLTAGE	MANUFACTURER GREENHECK	CONTROL	ACCESSORIES
EF-1	EXHAUST	100	0.25	DIRECT	708	128	–	120V/1ø	SP-B150	D	1 2 4 5 6 8 12 13
EF-2	EXHAUST	200	0.25	DIRECT	1400	113	–	120V/1ø	SEI-10428-P	C	1 2 4 5 8 11 12
EF-1	EXHAUST	150	0.25	DIRECT	1080	128	–	120V/1ø	SP-B150	C	1 2 4 5 6 8 12 13

ACCESSORIES
1: DISCONNECT BY E.C.
2: BACKDRAFT DAMPER
3: PREFAB. ROOF CURB
4: BIRDSCREEN
5: SPEED CONTROLLER
6: HANGING BRACKETS WITH VIBRATION ISOLATION
7: DISCHARGE HOOD
8: WL, WALL LOUVER DISCHARGE
9: MFG ROOF CAP
10: WALL MOUNTING COLLAR
11: MOTOR SIDE FAN GUARD
12: COLOR BY ARCHITECT
13: EXHAUST GRILLE
14: UL 762

CONTROL:
A: WALL MOUNTED SWITCH
B: WALL MOUNTED PUSH BUTTON SWITCH
C: WALL MOUNTED THERMOSTAT
D: INTERLOCK WITH ROOM LIGHT SWITCH
E: CONTINUOUS OPERATION
F: INTERLOCK WITH KITCHEN HOOD CONTROLS

NOTES:
1. ALL FANS SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILLARY CONTACTS AS REQUIRED.
4. BACKDRAFT DAMPER ON ROOF SUPPLY FANS SHALL BE MOTORIZED.
5. WHEN A SPEED CONTROLLER IS REQUIRED AND MOUNTED TO EXHAUST FAN, SPEED SHALL BE ADJUSTED TO PROVIDE LISTED AIRFLOW PRIOR TO CEILING BEING INSTALLED.

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	LOCATION	MBH	KW	ELEC DATA VOLTS	ELEC DATA PHASE	ELEC DATA AMPS	MANUFACTURER QMARK	REMARKS
EH-1	TOILET	2.56	0.75	120	1	6.3	QCH1151F	1,2,4
EH-2	STORAGE	5.12	1.5	208	1	7.2	QCH1202F	1,2,4
IRH-1,2	SERVICE BAYS	20.5	6.0	208	1	–	BRM6083B	1,3,5

NOTES & ACCESSORIES:
1. HEATING CAPACITY BASED ON 65° F. E.A.T., 180° F. E.W.T.
2. DISCONNECT SWITCH
3. WALL MOUNTED THERMOSTAT
4. INTERNAL THERMOSTAT
5. CHAIN MOUNT 12'-0" AFF (FIELD COORD. FINAL MOUNTING HEIGHT WITH OWNER)

PTAC UNITS

UNIT TAG	AMANA MODEL	FAN CFM	OSA CFM	ESP (WG)	EER	COOLING (MBH)	ELECT. HEAT (KW)	VOLTAGE (V)	MCA (A)	MOCP (A)	WEIGHTS (LBS)
PTAC-1	PTC073G	310	10	0.4	11.7	7.7	3.5	208V/1ø	19.5	20	108

NOTES:
1) G.C. SHALL PROVIDE INSULAATED SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S. CONCEAL ALL ELECTRICAL CONNECTIONS WITH-IN KIT.
2) 2 SPEED FAN
3) PROVIDE EXTENDED SLEEVE IF REQUIRED. VERIFY PRIOR TO ORDERING.

VENTILATION CALCULATIONS

BASED ON TABLE 403.3 OF THE 2018 IMC

BASED ON EQUATION 4-1 FROM SECTION 403.3.1.1:
Vbz = RpPz + RaAz WHERE:
Az = ZONE FLOOR AREA
Pz = ZONE POPULATION
Rp = PEOPLE OUTDOOR AIR RATE
Ra = AREA OUTDOOR AIR RATE

PTAC-1

OFFICE:

$$Vbz = (50 \times 0.06) + \frac{50 \times 5 \times 5}{1000} = 4 \text{ CFM OA REQUIRED}$$

Ev = 0.8 Voz = Vbz/Ev = 4/0.8 = 5 CFM

TOTAL OUTDOOR AIR REQUIRED = 5

TOTAL OUTDOOR AIR PROVIDED = 10

NATURAL VENTILATION CALCULATION

SERVICE BAYS:

1150 (SF) x 0.04 = 46 (SF) (FREE AREA REQUIRED)

OVERHEAD DOOR AREA = 60'x10' 600 SF

TOTAL SF FREE AREA = 600 SF*

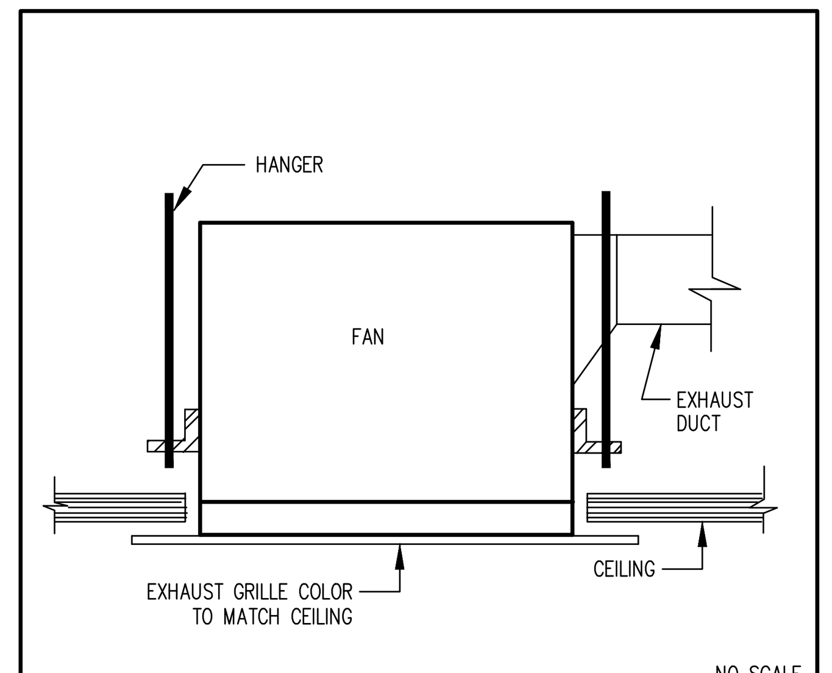
*NATURAL VENTILATION REQUIREMENT IS MET FOR THIS UNIT.

GENERAL COORDINATION NOTES

1. THE CONTRACTOR SHALL REVIEW THE ENTIRE SET OF DOCUMENTS INCLUDING BUT NOT LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND THE ENTIRE PROJECT MANUAL. THE CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETIONS OF HIS WORK. THE CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM HIMSELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY AFFECT THE WORK OR THE COST THEREOF. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR INTENT, HE SHALL NOTIFY THE ARCHITECT/ENGINEER AT ONCE IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN HIS WORK AND THE WORK OF OTHER TRADES PRIOR AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

HVAC GENERAL NOTES

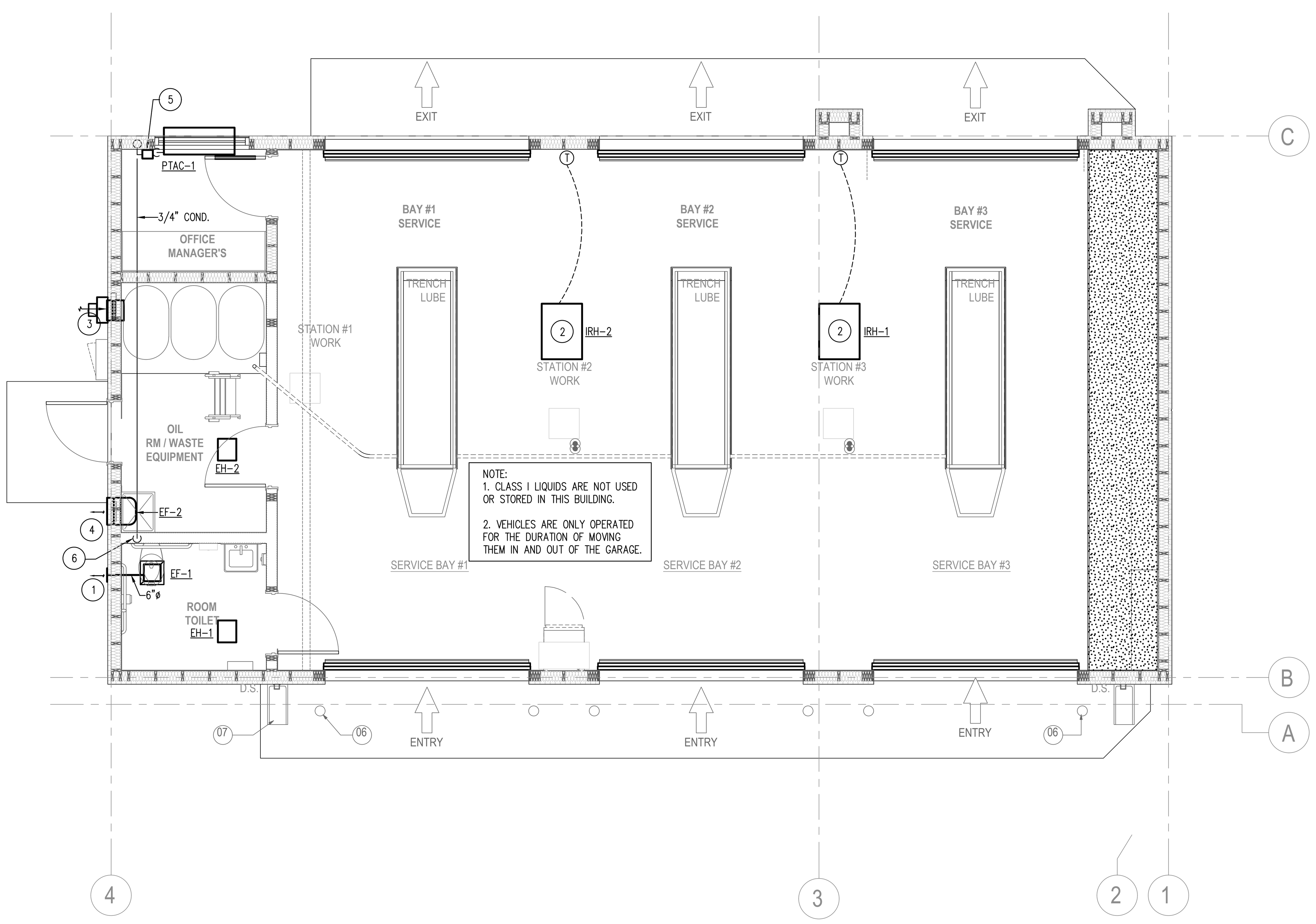
1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR OPEN AREA DIMENSIONS. CONTRACTOR SHALL ADJUST DUCT SIZE WHEN USING INTERNAL INSULATION IN LIEU OF EXTERNAL WRAP.
7. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
8. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
9. INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT. ANY THERMOSTAT LOCATED ON AN EXTERIOR WALL SHALL BE PROVIDED WITH AN INSULATED BASE.
10. LOCATE CEILING GRILLES IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
11. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
12. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
13. THE EXTERNAL STATIC PRESSURE FOR ALL FANS, HVAC UNITS, ETC IS BASED ON DUCT ROUTING AS INDICATED ON PLANS. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS IN THE FIELD AS AIR QUANTITIES MAY BE AFFECTED.
14. CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. BALANCE REPORT SHALL INCLUDE: SUPPLY & RETURN AIR FLOWS, ALL STATIC PRESSURES, SUPPLY & RETURN AIR TEMPERATURES AS WELL AS OUTDOOR AIR TEMPS AT TIME OF TEST. CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
15. PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
16. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.
17. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED.
18. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQ'D BY APPLICABLE CODES FOR THE LOCALE OF THIS PROJECT.
19. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL. CONSTRUCT METAL DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONTRUCTION MANUAL INCLUDING REQUIRED THICKNESS, BRACING, JOINTS AND FITTINGS AS APPLICABLE. ALL METAL DUCT SHALL BE EITHER ASTM A653 GALVANIZED STEEL OR ASTM B209 ALUMINUM. ALL EXHAUST DUCTS SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR PRESSURE CLASS 1"W.G. AND LEAKAGE CLASS 6 CFM/100 S.F.
20. THE MECHANICAL CONTRACTOR SHALL PROVIDE LOW VOLTAGE CONTROL LINES. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR.
21. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
22. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
23. MECHANICAL CONTRACTOR SHALL PAINT ALL LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
24. ALL CUTTING AND PATCHING OF WALLS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
25. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SHOP DRAWINGS ARE PROVIDED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE OF ANY PIECE OF EQUIPMENT, DUCTWORK OR DEVICE.
26. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD A MINIMUM OF TEN BUSINESS DAYS IN ADVANCE FOR COMPLETION OF FIELD INSPECTION FOR APPENDIX 5 OF THE 2018 INTERNATIONAL ENERGY CODE, IF ENFORCED.



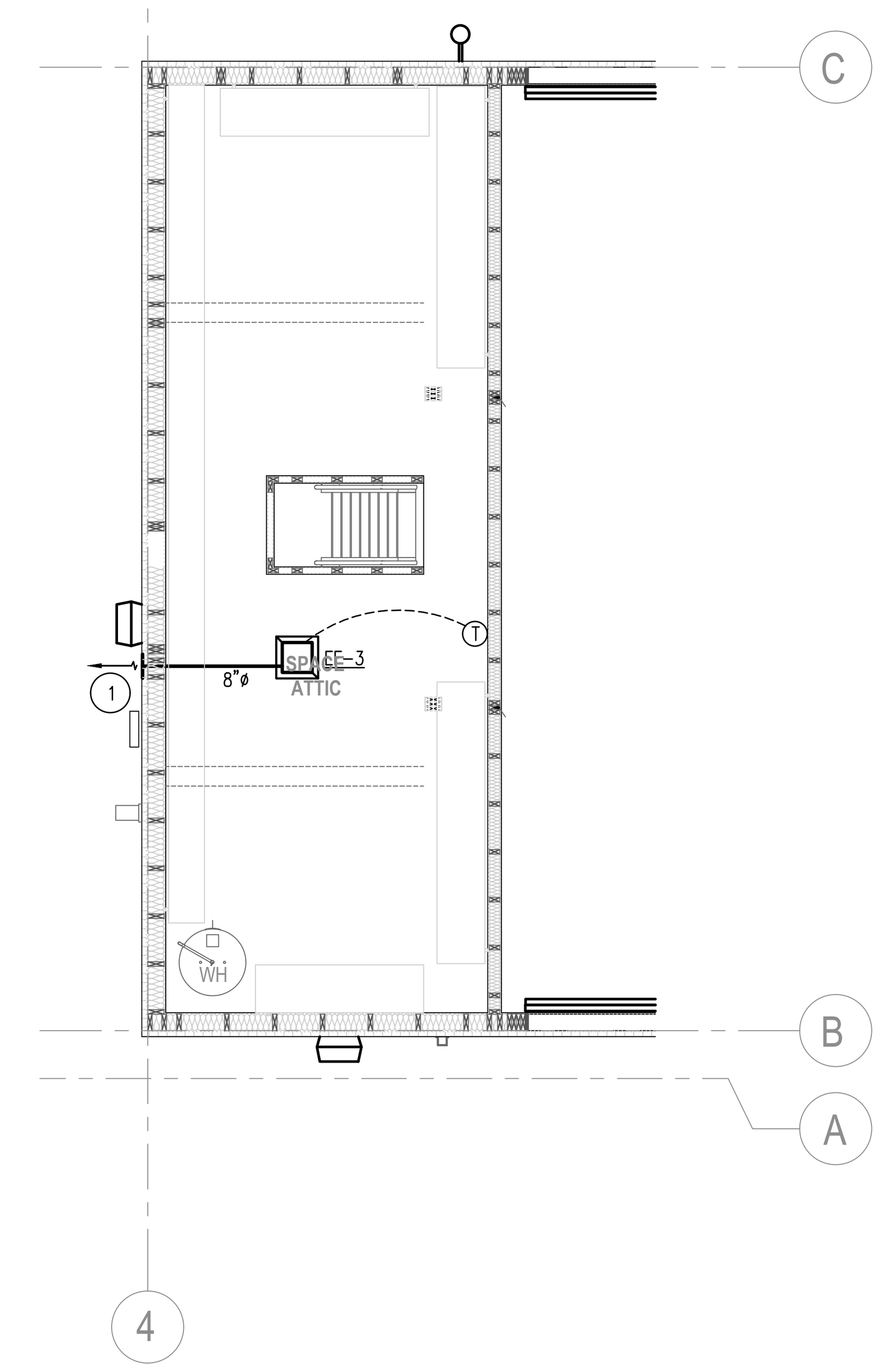
CEILING EXHAUST FAN 3

MECHANICAL KEYED NOTES

1. FAN MFR. WALL CAP.
2. HEATER SHALL BE MOUNTED MINIMUM 10' AFF. COORDINATE LOCATION OF HEATER WITH TAKE 5 REPRESENTATIVE.
3. 12"x12" RUSKIN ELB375 OUTSIDE AIR INTAKE LOUVER WITH BACKDRAFT DAMPER AND EXTERIOR WALL TRIM.
4. FIELD COORDINATE EXACT LOCATION OF FAN WITH ARCHITECTURAL ELEVATIONS.
5. LITTLE GIANT CONDENSATE PUMP MODEL VCMA-20, 120V-1ø, $\frac{1}{6}$ HP, 14 GPM@ 15'. MTD. HIGH ON WALL.
6. ROUTE CONDENSATE DOWN IN WALL AND SPILL OUT TO MOP SINK.



1 M1.01 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 M1.01 MECHANICAL ATTIC PLAN
SCALE: 1/4" = 1'-0"

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Telephone 704.399.3943

Date	Description
7/29/2021	ISSUE FOR CONSTRUCTION

Seal / Signature

EDWIN D. BEEK — ARIZONA USA — Electrical — Expires 09-30-21 — 7/29/21

Project Name
Take 5 Oil Change

Project Number
59.6678.001

Description
MECHANICAL NOTES, DETAILS, SCHEDULES AND FLOOR PLANS

Scale
As indicated

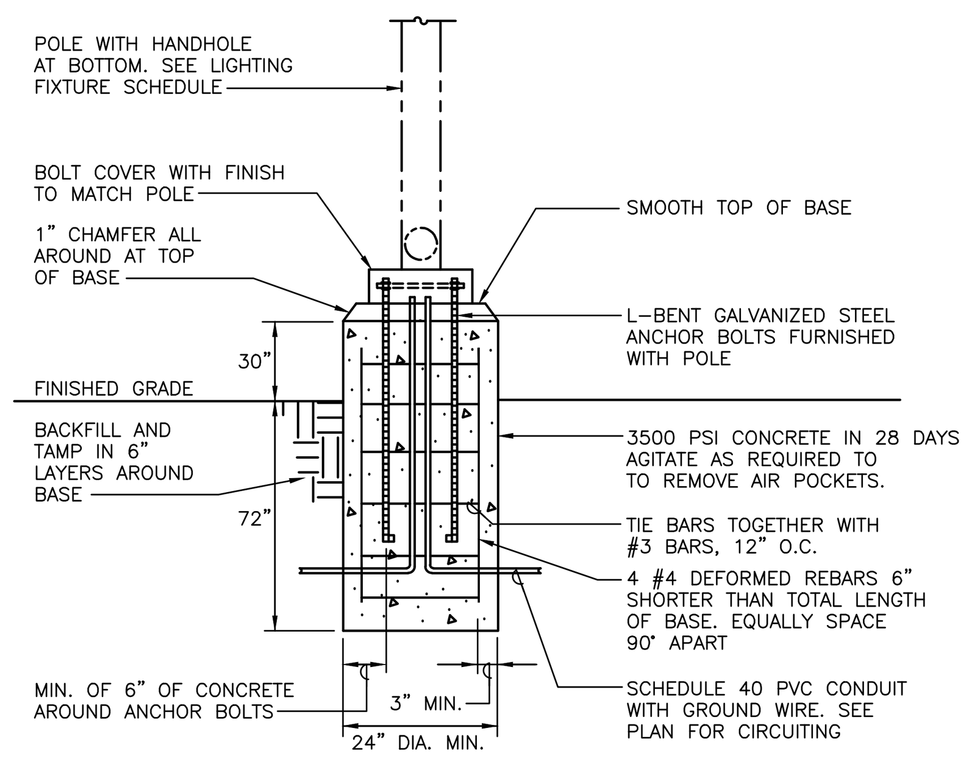
M1.01

LIGHT FIXTURE SCHEDULE

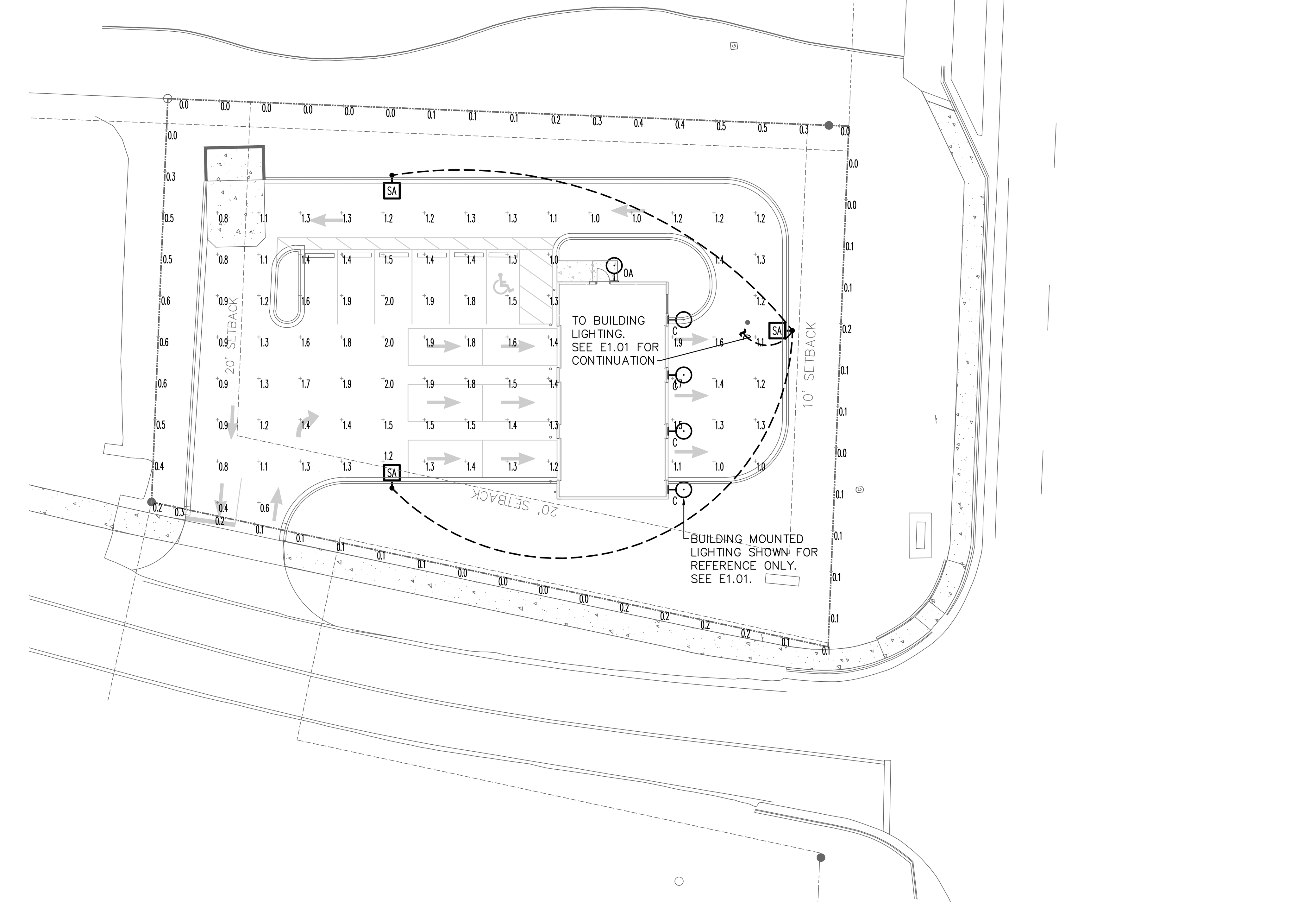
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	B.U.G RATING	BALLAST / DRIVER	LAMPS / LUMENS	VOLTS	WATTS
SA	COOPER LIGHTING	PRV-PA1B-730-U-T3-BK-HSS	POLE MOUNTED LED FIXTURE. BLACK FINISH. WET LOCATION LISTED. TYPE III WIDE DISTRIBUTION. 25'-0" STEEL POLE. HOUSE SIDE SHIELD.	B2-UO-G3	ELECTRONIC	LED 3000K	120	74
C	KICHLER	11310BKTLED	UP/DOWN LIGHTING WALL SCONCE, WET LOCATION RATED. PROVIDE WITH 1 #9536AZ LENS EACH FIXTURE	ELECTRONIC	LED 3000K 925 LUMENS	120/277	120	20.1
OA	LUMARK	LDWP-FC-3B-ED-7030	LED WALL PACK, DIE CAST ALLUMINUM HOUSING, BLACK FINISH, BOROSILICATE PRISMATIC GLASS, WET LOCATION LABEL.	B1-U0-G1	ELECTRONIC	LED 3000K 3,137LUMENS	120	47

Calculation Summary

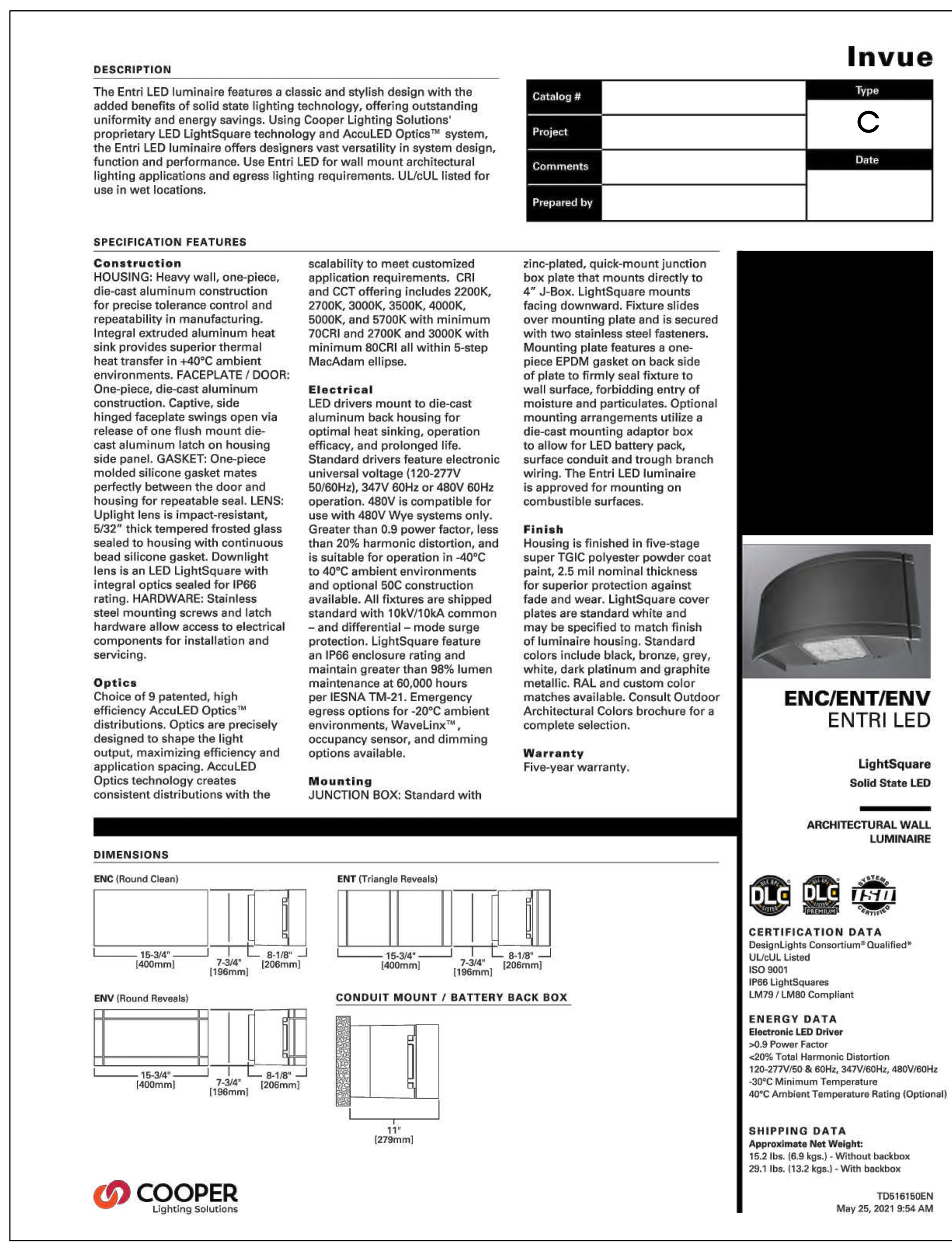
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING	Illuminance	Fc	1.34	2.0	0.4	3.35	5.00
PROPERTY LINE	Illuminance	Fc	0.18	0.6	0.0	N.A.	N.A.

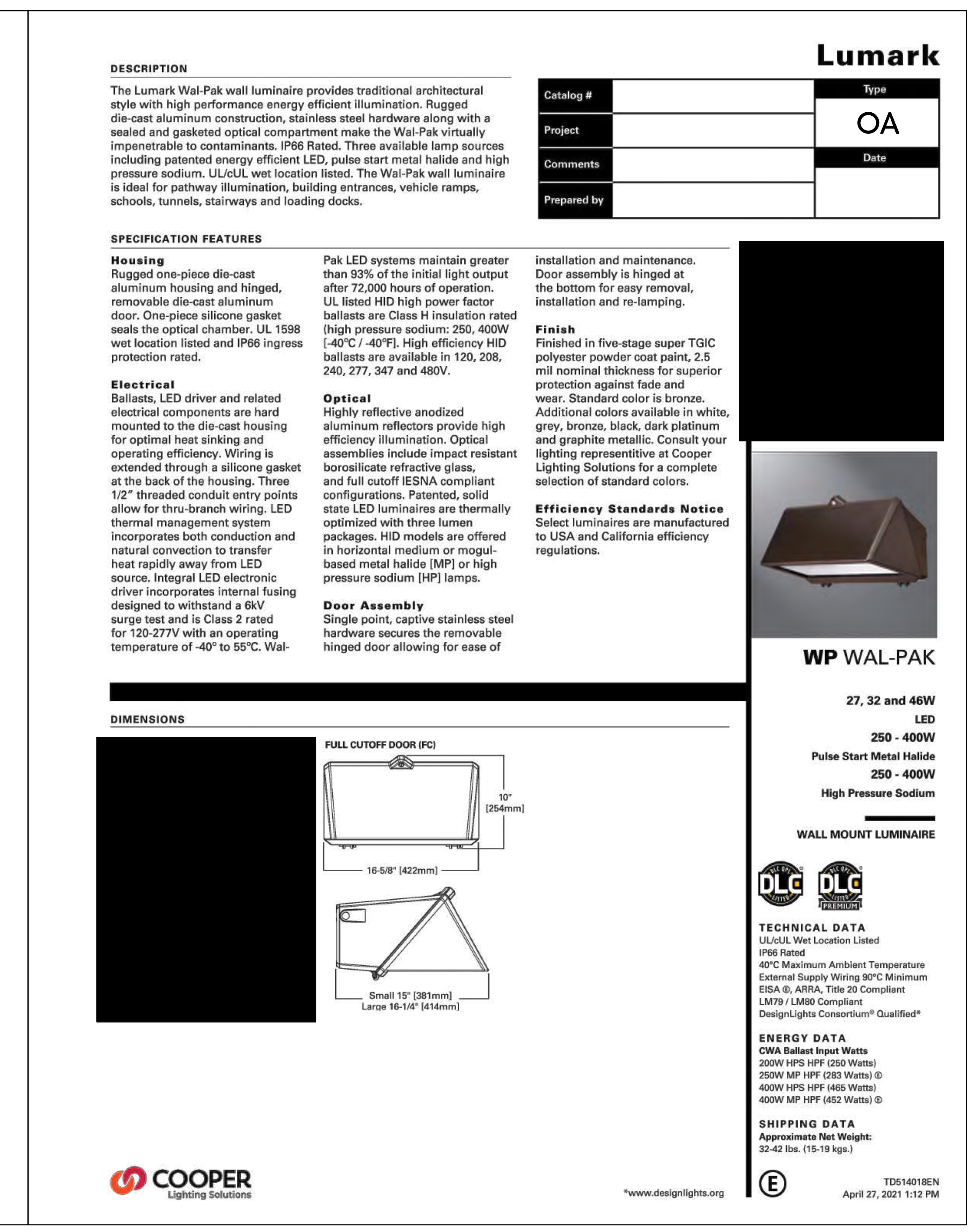


2 E1.00 POLE BASE DETAIL
NO SCALE



1 E1.00 SITE PLAN - PHOTOMETRICS
SCALE: 1" = 20'





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7/29/21
Electrical
Expires 09-30-22

Project Name
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Project Number
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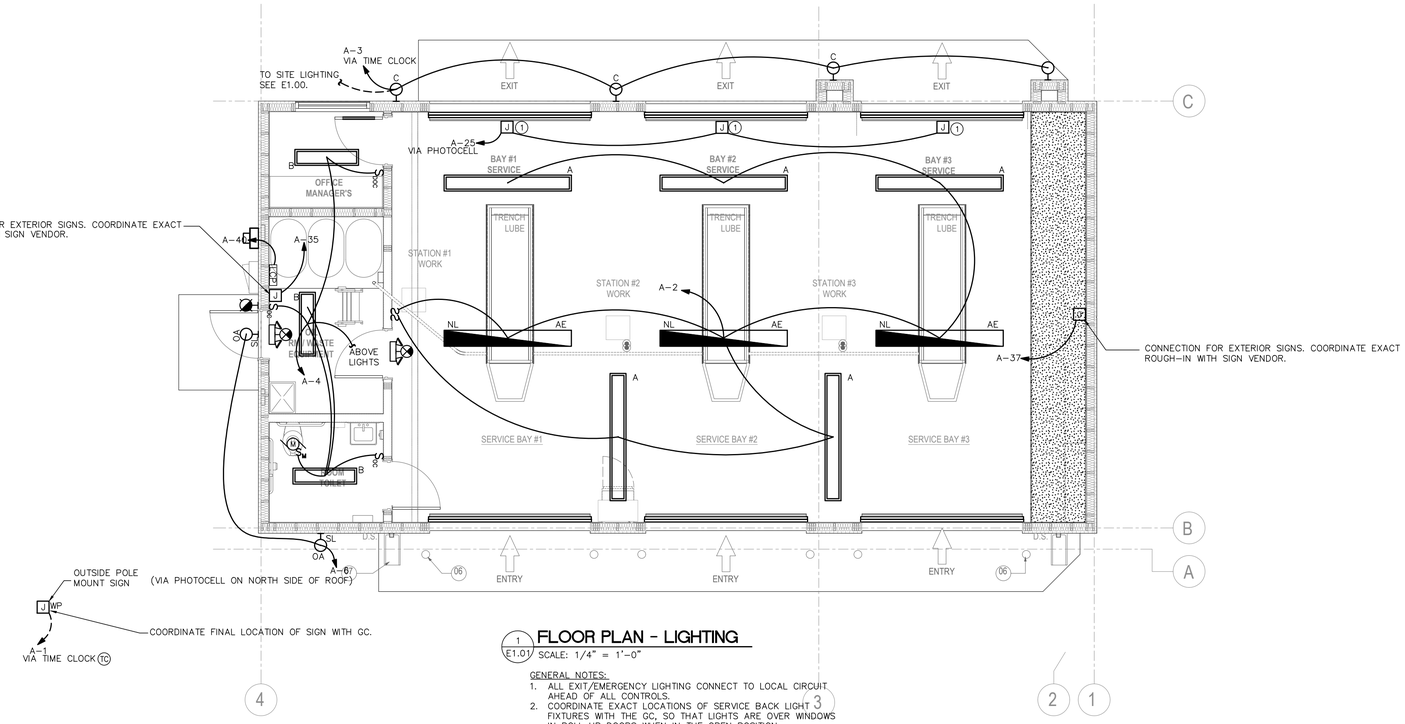
Description
SITE PHOTOMETRIC PLAN

Scale
As indicated

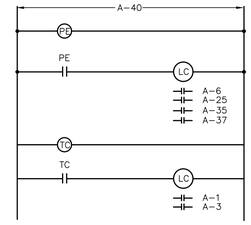
E1.00



1 FLOOR PLAN - LIGHTING
1/E1.01 SCALE: 1/4" = 1'-0"

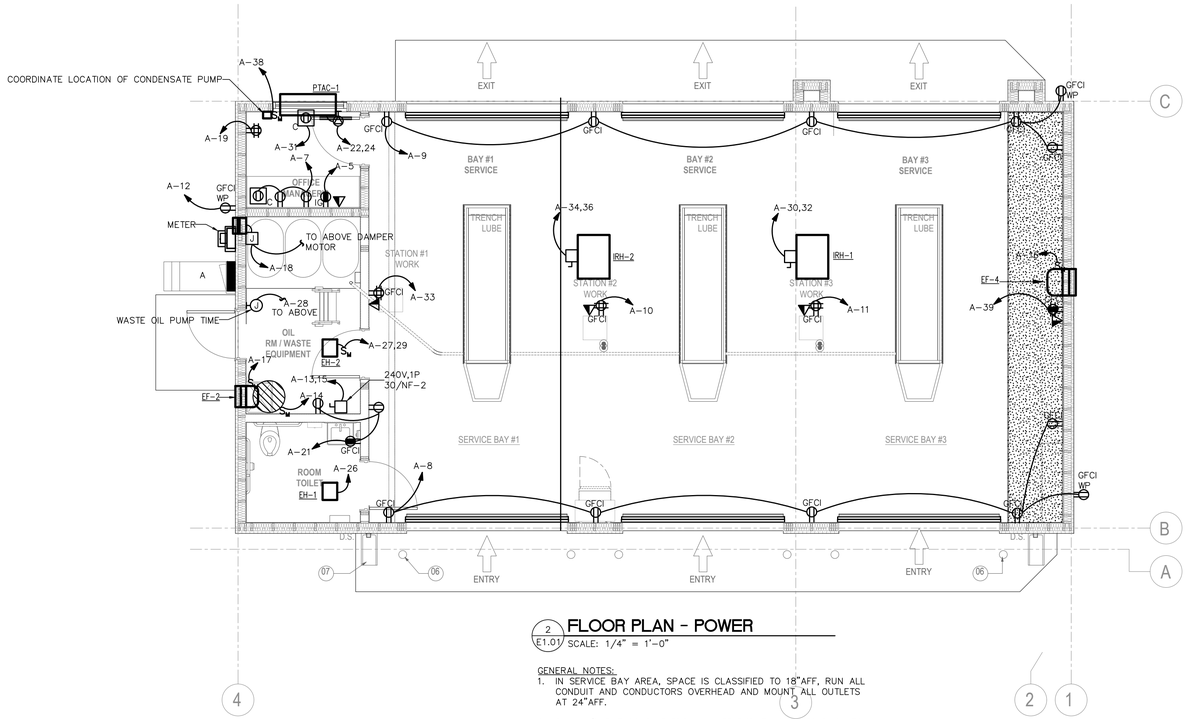
GENERAL NOTES:
1. ALL EXIT/EMERGENCY LIGHTING CONNECT TO LOCAL CIRCUIT AHEAD OF ALL CONTROLS.
2. COORDINATE EXACT LOCATIONS OF SERVICE BACK LIGHT FIXTURES WITH THE GC, SO THAT LIGHTS ARE OVER WINDOWS IN ROLL UP DOORS WHEN IN THE OPEN POSITION.
3. EXTERIOR LIGHTING SHALL COMPLY WITH THE CITY OF SEDONA, AZ LAND DEVELOPMENT CODE: ARTICLE 5.8 EXTERIOR LIGHTING AND 2019 COCONINO COUNTY ZONING ORDINANCE: SECTION 4.3 LIGHTING.
4. ILLUMINATED SIGNS SHALL BE TURNED OFF AT THE CURFEW TIME 11:00AM MST.
5. CONTROLS FOR UNSHIELDED LIGHTS MUST BE SET TO TURN OFF FROM 11:00PM MST TO SUNRISE THE FOLLOWING DAY.

(#) KEY NOTES:
1. PROVIDE JUNCTION BOX FOR BUILDING SIGN. FIELD COORDINATE FINAL SIGN LOCATION WITH ARCHITECTURAL ELEVATIONS AND SIGN VENDOR. E.C. SHALL MAKE FINAL CONNECTIONS TO BUILDING SIGNS.



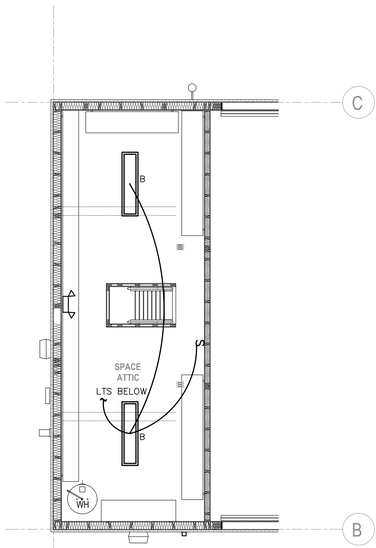
1 LIGHTING CONTROL SCHEMATIC
1/E1.01 NO SCALE

LC LIGHTING CONTACTOR, 6-POLE, 20A CONTACTS NEMA 1 ENCLOSURE.
PE PHOTOCELL IN NEMA 3R ENCLOSURE MOUNTED ON ROOF FACING NORTH.
TC TIME CLOCK



2 FLOOR PLAN - POWER
2/E1.01 SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. IN SERVICE BAY AREA, SPACE IS CLASSIFIED TO 18"AFF, RUN ALL CONDUIT AND CONDUCTORS OVERHEAD AND MOUNT ALL OUTLETS AT 24"AFF.
2. RUN A 3/4" EMT CONDUIT FROM ALL TELE/DATA OUTLETS BACK TO ROUTER IN OFFICE. COORDINATE WITH OWNER ON LOCATION OF ROUTER.
3. MOUNT APPLICABLE SWITCHES, RECEPTACLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE MOUNTED WITH THE TOP OF THE DEVICE NO HIGHER THAN 48" AFF AND THE BOTTOM OF THE DEVICE NO LOWER THAN 15" AFF. ELECTRICAL DEVICES ABOVE A COUNTER TOP OR OTHER OBSTRUCTION SHOULD COMPLY WITH ICC/ANSI 117.1-2015 SECTION 308.



3 ATTIC FLOOR PLAN - LIGHTING
3/E1.01 SCALE: 1/4" = 1'-0"

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△ Date	Description
7/29/2021	ISSUE FOR CONSTRUCTION

Seal / Signature

Registered Professional Engineer
ELECTRICAL
57752
EDWIN D. [illegible]
As Signed
ARIZONA USA
7/29/21
Electrical
Expires 09-30-22

Project Name
Take 5 Oil Change

Project Number
59.6678.001

Description
FLOOR PLAN - ELECTRICAL

Scale
As indicated

E1.01

PANEL:	A			BY: AKN	SHEET: 1
120/240 VOLTS, 1 Ø 3 WIRE,	TYPE: LOAD CENTER	AIC: 10,000		JOB # 21155	OF: 1
SURFACE MOUNTED,	200 AMP MAIN CIRCUIT BREAKER	NEUTRAL AMPS 200		CHECKED BY: EDB	DATE: 10/28/2021

LOAD	KVA A	KVA B	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	FRAME SIZE	CIRCUIT NO.	CIRCUIT NO.	FRAME SIZE	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	1.2		POLE SIGN	12	20	1	1	2	1	20	12	SERVICE BAY LIGHTS	0.5		L	0.5					1.2	
L		0.6	EXTERIOR LIGHTS	12	20	1	3	4	1	20	12	OFFICE LIGHTS		0.1	L	0.7						
R	1.0		COMPUTER RECEPT	12	20	1	5	6	1	20	12	OUTSIDE LIGHTS	0.2		L	0.2	1.0					
R		0.5	OFFICE RECEPTS	12	20	1	7	8	1	20	12	SERVICE BAY RECEPTS		1.1	R		1.6					
R	1.1		SERVICE BAY RECEPTS	12	20	1	9	10	1	20	12	WORK STATION	0.4		R		1.5					
R		0.4	WORK STATION	12	20	1	11	12	1	20	12	SERVICE RECEPT		0.2	R		0.6					
M	1.4		AIR COMPRESSOR	10	30	2	13	14	1	20	12	WH-1	1.5		H			1.4	1.5			
M		1.4					15	16	1	20		SPARE						1.4				
M	0.2		EF-2	12	20	1	17	18	1	20		SPARE						0.2				
R		0.4	DATA RACK	12	20	1	19	20	2	20	12	PTAC		1.8	H		0.4		1.8			
R	0.6		BATHROOM RECEPT	12	20	1	21	22					1.8		H		0.6		1.8			
			SPARE	12	20	1	23	24	1	20		SPARE										
L	1.0		BUILDNG SIGNAGE	12	20	1	25	26	1	20	12	EH-1	0.8		H	1.0			0.8			
H		0.8	EH-2	12	20	2	27	28	1	20	12	WASTE OIL PUMP TIMER		0.5	O				0.8		0.5	
H	0.8						29	30	2	30	10	IRH-1	2.3		H				3.0			
R		0.8	OFFICE SIGN	12	20	1	31	32						2.3	H		0.8		2.3			
L	0.4		WORK STATION	12	20	1	33	34	2	30	10	IRH-2	2.3		H	0.4			2.3			
L		1.0	BUILDNG SIGNAGE	12	20	1	35	36						2.3	H	1.0			2.3			
L	1.0		BUILDNG SIGNAGE	12	20	1	37	38	1	20	12	CONDENSATE PUMP	0.5		M	1.0		0.5				
R		0.4	WORK STATION	12	20	1	39	40	1	20	12	LCP		1.0	O		0.4				1.0	
			SPACE ONLY			1	41	42	1			SPACE ONLY										
	8.7	6.3	SUBTOTALS										10.1	9.2								
												TOTALS	18.7	15.5		4.8	6.9	3.5	16.3		2.7	

LOAD	KVA CONNECTED	D.F	KVA NET
LIGHTING	4.8	1.25	6.0
RECEPTACLES	6.9	1.00	6.9
RECEPTACLES	0.0	0.50	0.0
MOTORS	3.5	1.00	3.5
LARGEST MOTOR	0.0	1.75	0.0
HEAT	16.3	1.00	16.3
KITCHEN	0.0	0.65	0.0
OTHER	2.7	1.00	2.7
SPARE	0.0	1.00	0.0
TOTAL	34.2		35.4

CALCULATIONS: 35.4 / 0.240 147.5 A 125% 184 A

NOTES:
1 PANEL IS SE RATED

MECHANICAL EQUIPMENT SCHEDULE

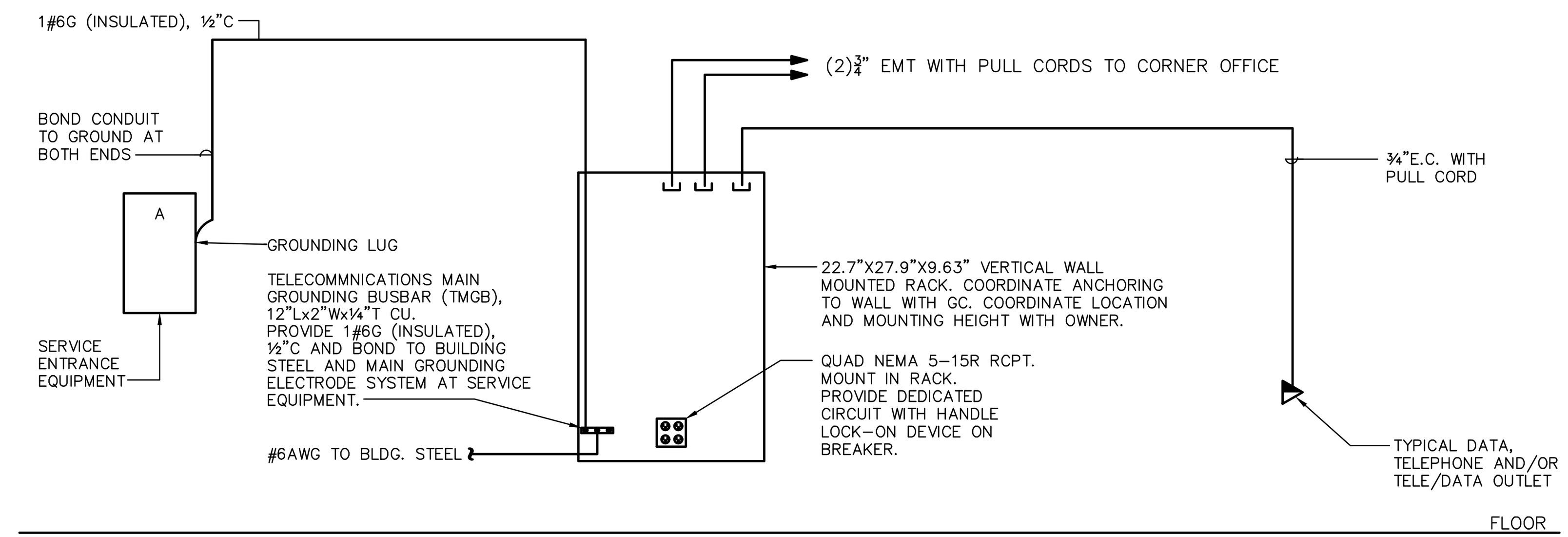
EQUIPMENT DESIGNATION	EQUIPMENT CATEGORY	MCA	MOCP	VOLTS	PHASE	HP/KW	DISCONNECT	NOTES
EH-1	ELECTRIC UNIT HEATER	6.30	15	120	1	0.75	INTEGRAL	
EH-2	ELECTRIC UNIT HEATER	7.2	15	240	1	1.5	S2	
EF-1,3	EXHAUST FAN			120	1	0.13	SM	
EF-2	EXHAUST FAN			120	1	0.11	SM	
EF-4	SERVICE BAY EXHAUST FAN			120	1	0.67	SM	
PTAC-1	PTAC UNIT	19.5	20	240	1	3.5	30/NF-2P	
WH-1	ELECTRIC WATER HEATER		20	120	1	1.5	SM	
IRH-1,2	SERVICE BAY ELECTIC HEATERS			240	1	6	60/NF-2P	

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS REQUIRED ALL DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL/PLUMBING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, PLUGS, CABLES, ETC., ON EQUIPMENT REQUIRING SUCH ITEMS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL/PLUMBING EQUIPMENT AS REQUIRED.

LIGHT FIXTURE SCHEDULE

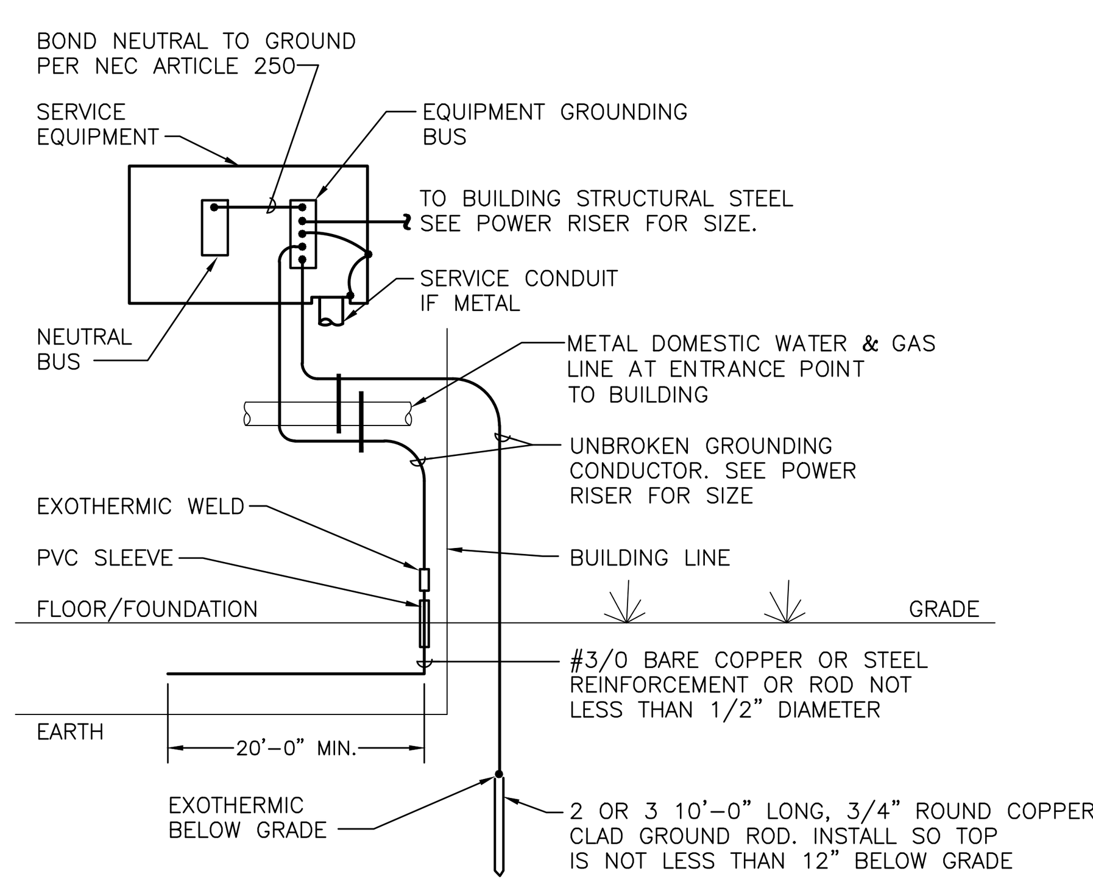
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	B.U.G RATING	BALLAST / DRIVER	LAMPS / LUMENS	VOLTS	WATTS
A	METALUX	8VT2-LD5-9-DR-UNV-L840-CD1-U	8' INDUSTRIAL LED LAMP VAPORTITE INDUSTRIAL REFRIGERATED CASE FIXTURE. CHAIN HUNG OPTION	NA	ELECTRONIC	LED 4000K 9054 LUMENS	120/277	66
AE	METALUX	8VT2-LD5-9-DR-UNV-VT-REM-EL-L840-CD1-U	8' INDUSTRIAL LED LAMP VAPORTITE INDUSTRIAL REFRIGERATED CASE FIXTURE. CHAIN HUNG OPTION. REMOTE EMERGENCY ENCLOSURE	NA	ELECTRONIC	LED 4000K 9054 LUMENS	120/277	66
B	LITHONIA	RTLA-30L-GZ10-LP840	1'X4' LED VOLUMETRIC SURFACE MOUNT FIXTURE	NA	ELECTRONIC	LED 4000K 3224LUMENS	120/277	26.6
BE	LITHONIA	RTLA-30L-GZ10-EL14L-LP840	1'X4' LED VOLUMETRIC SURFACE MOUNT FIXTURE WITH BATTERY BACKUP	NA	ELECTRONIC	LED 4000K 3224LUMENS	120/277	26.6
C	INVUE	ENV-SA1A-740-1-T3-BK-HSS	DOWN LIGHTING WALL SCONCE, WET LOCATION RATED.	B0-U0-G0	ELECTRONIC	LED 4000K 1544 LUMENS	120/277	20.1
OA	LUMARK	LDWP-FC-6B-ED-7040	LED WALL PACK, DIE CAST ALLUMINUM HOUSING, BLACK FINISH, BOROSILICATE PRISMATIC GLASS, WET LOCATION LABEL.	B1-U0-G1	ELECTRONIC	LED 4000K 3,137LUMENS	120/277	47
EX	LIGHT ALARMS	QLXN500-RN	WALL MOUNTED LED EXIT LIGHT WITH POLYCARBONATE HOUSING WITH SELF CONTAINED POWERPACK FOR 90 MIN. OPERATION. LEAD CALCIUM BATTERY.			LED	120/277	2.5
EM	LIGHT ALARMS	LCA-2LEDR	WALL MOUNTED EMERG LED LIGHT WITH POLYCARBONATE HOUSING WITH SELF CONTAINED POWERPACK FOR 90 MIN. OPERATION. LEAD CALCIUM			DOUBLE LED	120/277	4.9
EM EXT	LIGHT ALARMS	UQLXN500-R-2LED-R	WALL MOUNTED COMBO EMERG/EXIT LED LIGHT WITH POLYCARBONATE HOUSING WITH SELF CONTAINED POWERPACK FOR 90 MIN. OPERATION.			LED FOR FACE,	120/277	4.9
EXT	LIGHT ALARMS	ELF652D/LED-WP	REMOTE HEAD FEED FROM COMBO			DOUBLE LED	120/277	4.9

NOTES:
1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
2 SUSPEND TWO OPPOSITE CORNERS WITH WIRE TO STRUCTURE FROM ALL 4 CORNERS. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
3 FIXTURE FLANGES AND TRIMS SHALL MATCH CEILING TYPES.



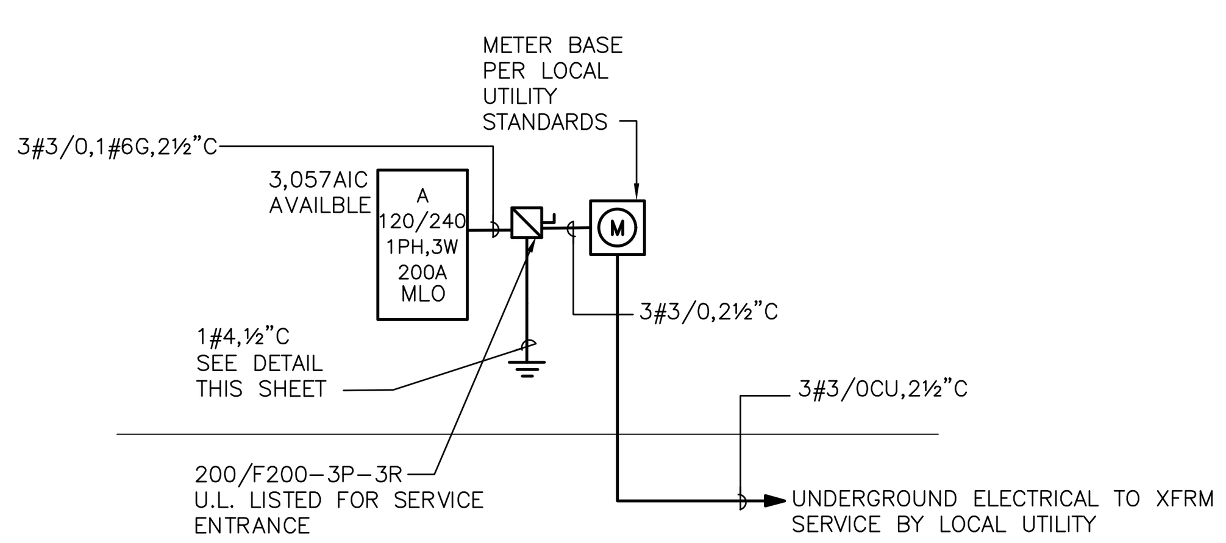
TELE/DATA RISER DIAGRAM NOTES:
1. FLOOR PLANS INDICATE THE EXACT QUANTITY AND LOCATION OF ALL TELEPHONE AND/OR DATA OUTLETS.
2. ALL TELEPHONE AND/OR DATA WIRING AND EQUIPMENT SHALL BE PROVIDED BY THE OWNER'S TELE/DATA SUPPLIER.

3 / E2.01 **TELEPHONE RISER DIAGRAM**
NO SCALE



RESISTANCE TO GROUND SHALL BE LESS THAN 25 OHMS

2 / E2.01 **SERVICE GROUNDING DETAIL**
NO SCALE



1 / E2.01 **POWER RISER DIAGRAM**
NO SCALE

GENERAL NOTES:
1. E.C IS RESPONSIBLE FOR UNDERGROUND SERVICE FROM UTILITY TRANSFORMER TO METER. COORDINATE WITH LOCAL UTILITY COMPANY ON LOCATION OF TRANSFORMER.

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Project Number
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Description
PANEL SCHEDULES AND RISER DIAGRAM

Scale
As indicated

E2.01