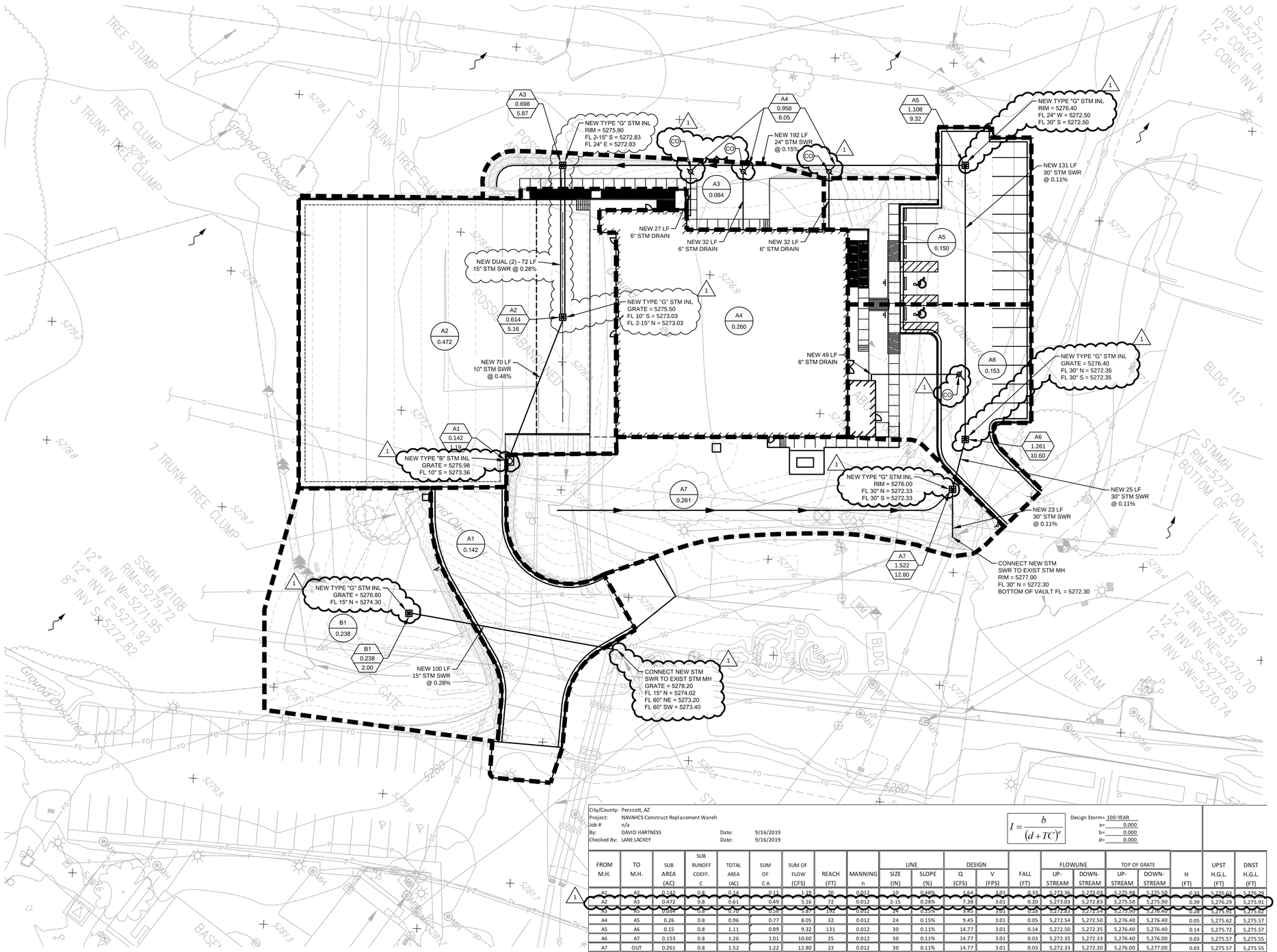

City/County: Perscott, AZ
Project: NAVAHCS Construct Replacement Wareh
Job # n/a
By: DAVID HARTNESS Date: 9/16/2019
Checked By: LANE LACKEY Date: 9/16/2019

$$I = \frac{b}{(d+TC)^e}$$

Design Storm= 100-YEAR
e= 0.000
b= 0.000
d= 0.000

FROM M.H.	TO M.H.	SUB AREA (AC)	SUB RUNOFF COEFF. C	TOTAL AREA (AC)	SUM OF C A	SUM OF FLOW (CFS)	REACH (FT)	MANNING n	LINE SIZE (IN)	LINE SLOPE (%)	DESIGN Q (CFS)	DESIGN V (FPS)	FALL (FT)	FLOWLINE UP-STREAM	FLOWLINE DOWN-STREAM	TOP OF GRATE UP-STREAM	TOP OF GRATE DOWN-STREAM	H (FT)	UPST H.G.L. (FT)	DNST H.G.L. (FT)
A1	A2	0.142	0.8	0.14	0.11	1.19	70	0.012	10	0.48%	1.64	3.01	0.33	5,273.36	5,273.03	5,275.98	5,275.50	0.33	5,276.63	5,276.29
A2	A3	0.472	0.8	0.61	0.49	5.16	72	0.012	2-15	0.28%	7.38	3.01	0.20	5,273.03	5,272.83	5,275.50	5,275.90	0.39	5,276.29	5,275.91
A3	A5	0.084	0.8	0.70	0.56	5.87	192	0.012	24	0.15%	9.45	3.01	0.28	5,272.83	5,272.54	5,275.90	5,276.40	0.28	5,275.91	5,275.62
A4	A5	0.26	0.8	0.96	0.77	8.05	32	0.012	24	0.15%	9.45	3.01	0.05	5,272.54	5,272.50	5,276.40	5,276.40	0.05	5,275.62	5,275.57
A5	A6	0.15	0.8	1.11	0.89	9.32	131	0.012	30	0.11%	14.77	3.01	0.14	5,272.50	5,272.35	5,276.40	5,276.40	0.14	5,275.72	5,275.57
A6	A7	0.153	0.8	1.26	1.01	10.60	25	0.012	30	0.11%	14.77	3.01	0.03	5,272.35	5,272.33	5,276.40	5,276.00	0.03	5,275.57	5,275.55
A7	OUT	0.261	0.8	1.52	1.22	12.80	23	0.012	30	0.11%	14.77	3.01	0.03	5,272.33	5,272.30	5,276.00	5,277.00	0.03	5,275.57	5,275.55
B1	OUT	0.238	0.8	0.24	0.19	2.00	100	0.012	15	0.28%	3.69	3.01	0.28	5,274.30	5,274.02	5,276.80	5,278.20	0.28	5,275.55	5,275.27

1 DRAINAGE AREA LAYOUT
1" = 20'

NOTES

1. PROPOSED SITE DRAINAGE SYSTEM DESIGNED FOR THE 100-YEAR STORM EVENT, USING CITY OF PRESCOTT CRITERIA.
2. ALL PROPOSED STORM SEWER PIPE SHALL BE HDPE PIPE OR APPROVED EQUAL.
3. CLEANOUTS LOCATED IN PAVEMENT SHALL BE TRAFFIC RATED.

1

BENCHMARK

HELD A CITY OF PRESCOTT PUBLISHED BENCHMARK:

MOL-03 NAVD(88) ELEVATION = 5349.12

FOUND CARRIAGE BOLT WITH 2" WASHER ON TOP OF CURB ON N.W. CURB RETURN AT S.W. CORNER OF NORTH WASHINGTON AVENUE AND MOLLER STREET.

LEGEND

- "X" / X.XX — DRAINAGE AREA DESIGNATION / DRAINAGE AREA (ACRES)
- INL # / AC / FLOW — PROP INLET DESIGNATION / TOTAL ACCUMULATIVE ACRES / TOTAL ACCUMULATIVE FLOW (CFS)
- PROPOSED DRAINAGE AREA BOUNDARY
- NEW STORM SEWER
- NEW SWALE/DITCH
- SHEET FLOW DIRECTION

KEYED NOTES

CO — NEW STORM SEWER CLEANOUT (SEE NOTE 3)

1

0 20' 40'
SCALE: 1" = 20'

PLOTTED ON: 09/16/2019 6:31pm
FILE: S:\Projects\Spur Design\NAVAHCS Replacement Warehouse\DWG\13_165-CG-100 - DRAINAGE AREA MAP LAYOUT.dwg

ASI #1	9-10-2019
Revision #	Date

CONSULTANT INFORMATION

STRUCTURAL / CIVIL ENGINEER
H2B, INC. (AZ FIRM #18690)
1225 N. LOOP WEST, SUITE 800
HOUSTON, TX 77008
(713) 864-2900

COMMISSIONING
GLHN ARCHITECTS & ENGINEERS, INC.
2939 E. BROADWAY BLVD
TUCSON, AZ 85716
(520) 881-4546

MECH. / ELEC. / PLUMB. / TECH. ENGINEER
SPUR DESIGN
11020 KING STREET, SUITE 350
OVERLAND PARK, KS 66210
(405) 842-6100

FIRE PROTECTION ENGINEER
POOLE FIRE PROTECTION, INC.
19910 W. 161ST STREET
OLATHE, KS 66062
(913) 829-8650

LANDSCAPE ARCHITECT
ARC STUDIOS INC.
3117 E. FLOWER STREET
TUCSON, AZ 85716
(520) 882-9655

ARCHITECT

spur DESIGN
312 SW 25th Street, Oklahoma City, OK 73109, spur-design.com
11020 King Street, Suite 350, Overland Park, KS 66210, spur-design.com

CERTIFICATE NO. 57430 TOD J. HENNING A APPROVED SEPT. 30, 2019 OKLAHOMA U.S.A.

Office of Construction and Facilities Management

VA U.S. Department of Veteran Affairs

SHEET TITLE: DRAINAGE AREA MAP LAYOUT	PROJECT PHASE: BID DOCUMENTS
APPROVED: PROJECT DIRECTOR	FULLY SPRINKLERED
PROJECT TITLE: CONSTRUCT REPLACEMENT WAREHOUSE	VA PROJECT NUMBER: 649-414
PROJECT LOCATION: 500 AZ-89, PRESCOTT, AZ 86301	BUILDING NUMBER: 165
DRAWING NUMBER: 165-CG-100	
DATE: 4/23/2019	CHECKED BY: TH
DRAWN BY: DH	Dwg 13 OF 145

VA FORM 08-6231