

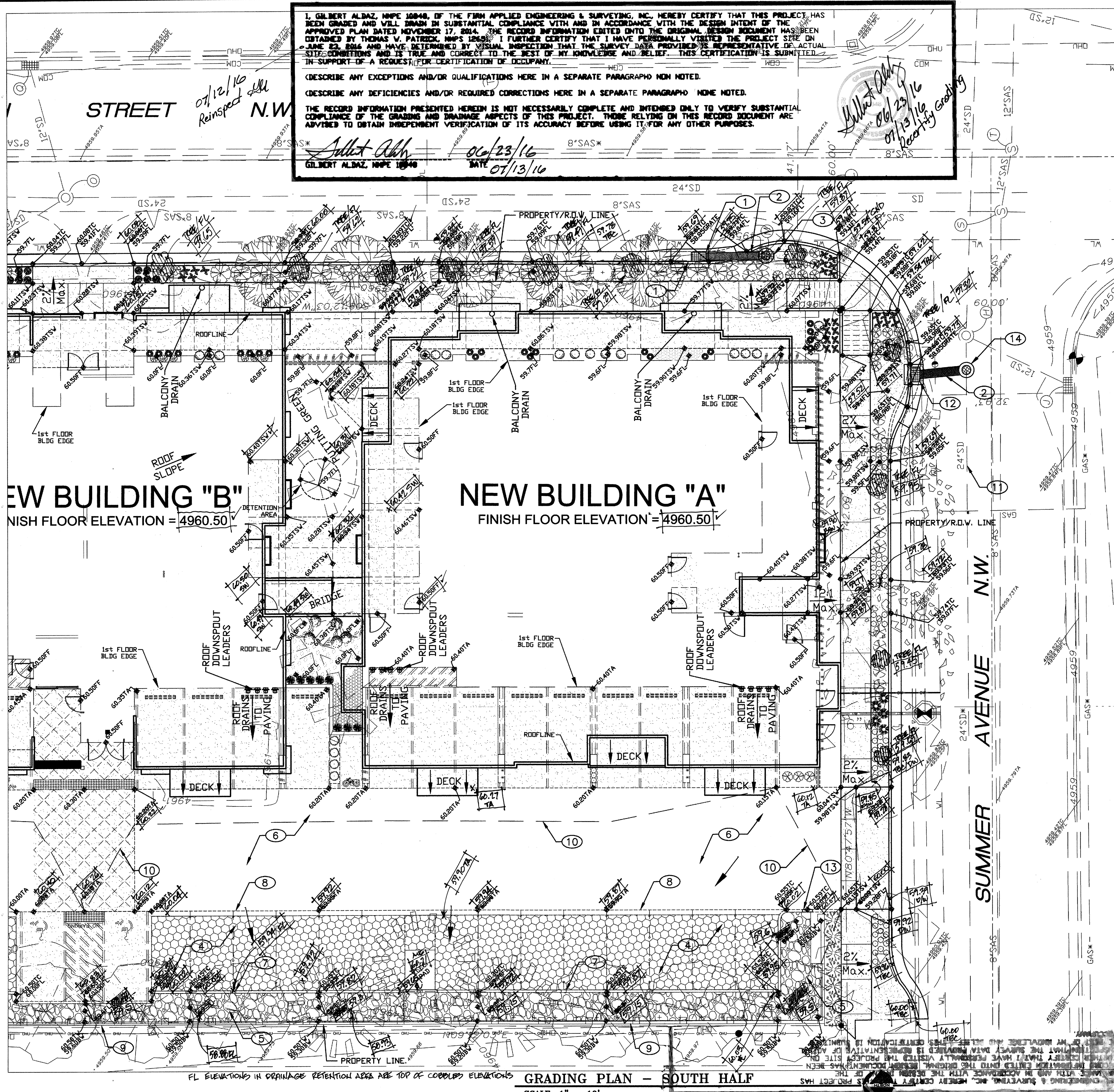
I, GILBERT ALBAZ, NPE 10048, OF THE FIRM APPLIED ENGINEERING & SURVEYING, INC. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED NOVEMBER 17, 2014. THE RECORD INFORMATION EDITED INTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS W. PATRICK, NPS 12651. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JUNE 23, 2016 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATION OF OCCUPANCY.

DESCRIBE ANY EXCEPTIONS AND/OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH NOTED.

DESCRIBE ANY DEFICIENCIES AND/OR REQUIRED CORRECTIONS HERE IN A SEPARATE PARAGRAPH NOTED.

THE RECORD INFORMATION PRESENTED HEREIN IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSES.

Silvestre Albaz
DATE 06/23/16
DATE 07/13/16
DATE 07/13/16
DATE 07/13/16



KEYED INVERT DATA

Storm Drain MH Rim = 4960.49' Inv. = 4956.84' (N) Inv. = 4956.69' (S) Inv. = 4956.79' (NE) Inv. = 4956.74' (W)	Storm Drain Inlet Top of Grate = 4958.56' Inv. = 4954.16' (NE)	Sanitary Sewer MH Rim = 4960.52' Inv. = 4950.47' (S) Inv. = 4950.32' (N) Inv. = 4950.22' (E) Inv. = 4950.17' (W)
Storm Drain Inlet Top of Grate = 4959.52' Inv. = 4957.6'	Storm Drain MH Rim = 4959.41' Inv. = 4956.91' (SW) Inv. = 4955.08' (NE) Inv. = 4953.71' (E) Inv. = 4953.66' (W)	Sanitary Sewer MH Rim = 4959.56' Inv. = 4949.41' (S) Inv. = 4949.41' (N) Inv. = 4949.41' (E) Inv. = 4949.41' (W) No Lines Flowing
Storm Drain MH Rim = 4960.30' Inv. = 4956.38' (N) Inv. = 4956.25' (S) Inv. = 4956.30' (NW)	Storm Drain Inlet Top of Grate = 4958.85' Inv. = 4953.71' (E) Inv. = 4953.66' (W)	Sanitary Sewer MH Rim = 4959.70' Inv. = 4952.00' (N) Inv. = 4949.55' (W) Inv. = 4949.35' (E)
Storm Drain Inlet Top of Grate = 4959.43' Inv. = 4957.5'	Storm Drain MH Rim = 4960.06' Inv. = 4956.11' (N) Inv. = 4956.06' (S)	Sanitary Sewer MH Rim = 4960.02' Lid Sealed
Storm Drain Inlet Top of Grate = 4959.43' Inv. = 4957.5'	Storm Drain MH Rim = 4960.30' Inv. = 4956.13' (NW) Inv. = 4956.13' (NE) Inv. = 4955.93' (N) Inv. = 4955.88' (S)	Sanitary Sewer MH Rim = 4959.95' Inv. = 4951.31' (E) Inv. = 4951.31' (W) Inv. = 4951.26' (N) Inv. = 4951.16' (S)
Manhole Rim = 4959.98' Full of debris	Storm Drain Inlet Top of Grate = 4959.19' Inv. = 4957.29' (SE)	Sanitary Sewer MH Rim = 4959.95' Inv. = 4951.31' (E) Inv. = 4951.31' (W) Inv. = 4951.26' (N) Inv. = 4951.16' (S)
Sanitary Sewer MH Rim = 4959.93' Inv. = 4952.89' (E)	Storm Drain Inlet Top of Grate = 4959.07' Inv. = 4956.97' (SW)	Sanitary Sewer MH Rim = 4959.97' Inv. = 4952.82' (S)
Storm Drain MH Rim = 4959.29' Inv. = 4954.34' (W) Inv. = 4954.24' (E) Inv. = 4954.29' (SW)		

SURVEYOR'S CERTIFICATE
I, THOMAS W. PATRICK, A DULY QUALIFIED LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME, OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS (UNLESS OTHERWISE NOTED) WAS ADDED BY ME, OR BY UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. COMMUNITY SCIENCES CORPORATION IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING AND/OR INTENT OF THE RECORD DRAWINGS.

THOMAS W. PATRICK
NEW MEXICO
12651
DATE 6/22/2016
NEW MEXICO PROFESSIONAL SURVEYOR NO. 12651

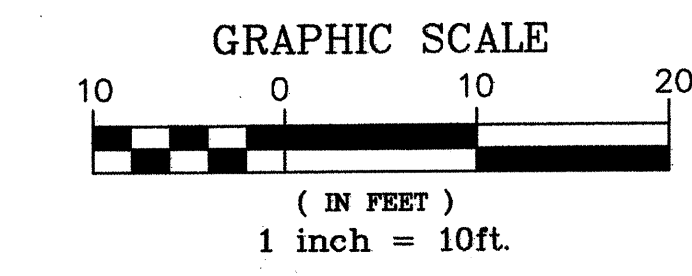
ADDITIONAL ELEVATIONS 7/12/2016

CONSTRUCTION NOTES:

1. CONSTRUCT SINGLE TYPE "A" INLET
2. INSTALL 18" STORM DRAIN.
3. REMOVE EXISTING TYPE "A" INLET AND INSTALL 4' ROUND MANHOLE, EXISTING LATERAL ON 4TH STREET IS TO REMAIN.
4. INSTALL GEOPAVE POROUS PAVEMENT SYSTEM WITH POROUS AGGREGATE PER PRESTO GEDSYSTEMS MANUFACTURERS RECOMMENDATIONS (SEE DETAIL SHEET 4).
5. INSTALL 12" THICK WITH 2-4" ROUND COBBLE DRAIN FIELD.
6. ASPHALT PAVING, SEE SITE PLAN FOR DETAILS.
7. 6" CONCRETE CURB WITH 1' OPENING, SEE SITE PLAN FOR DETAILS.
8. CONCRETE STRIP, SEE SITE PLAN FOR DETAILS.
9. BLOCK WALL, SEE SITE PLAN FOR DETAILS.
10. WATER SURFACE ELEVATION = 4960.15 REQUIRED FOR 0.5' RUNOFF DETENTION PRIOR TO SPILLING OVER DRIVEWAY.
11. FIELD VERIFY SIZE OF EXISTING STORMDRAIN LINE PRIOR TO CONSTRUCTION, IF DIFFERENT THAN 24" DIAMETER ADVISE ENGINEER PRIOR TO CONSTRUCTION.
12. CONSTRUCT SINGLE TYPE "C" INLET.
13. 2' WIDE CURB OPENING TO ALLOW DRAINAGE TO OVERFLOW OUT TO DRIVEWAY ON SUMMER AVENUE.
14. INSTALL NEW 4' ROUND MANHOLE IN EXISTING STORMDRAIN LINE.

LEGEND

NEW FINAL SURFACE GRADE	EXISTING TOP OF CURB ELEVATION
EXISTING CONTOUR GRADE	EXISTING FLOWLINE ELEVATION
DRAINAGE FLOW DIRECTION	NEW DIRT GRADE ELEVATION
NEW TOP OF CURB ELEVATION	FLOWLINE SHALE ELEVATION
NEW FLOWLINE OF CURB ELEVATION	NEW TOP OF WALL ELEVATION
NEW TOP OF ASPHALT ELEVATION	NEW BOTTOM OF WALL ELEVATION
NEW TOP OF SIDEWALK ELEVATION	XX.XX AS-BUILT (NED)
DRAINAGE SHALE	



City Project No. TBD

FILE:	DRAINAGE AND GRADING PLAN CUATRO DEVELOPMENT-SOUTH HALF	DATE/REVISIONS:
	APPLIED ENGINEERING AND SURVEYING, INC. ENGINEERS AND PLANNERS 1800 Blvd. Santa Fe Office: (505) 425-0125 gpatrick@ayps.com	SHEET NUMBER: CIVIL105 3 OF 4