CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

September 21, 2023

Genny Donart, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: 5500 Escondina Lane NW Grading and Drainage Plan Engineer's Certification Date: 09/14/23 Engineer's Stamp Date: 04/24/23 Hydrology File: F14D076F

Dear Ms. Donart:

PO Box 1293 Based upon the information provided in your submittal received 09/14/2023, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 5500 Escondina Lane NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

 NM 87103
 Engineer's Certification, per the DPM Part 6-14 (G): Engineer's Certification Checklist for Subdivision and Part 6-14 (H): Required Certification Language is required.

www.cabq.gov If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department



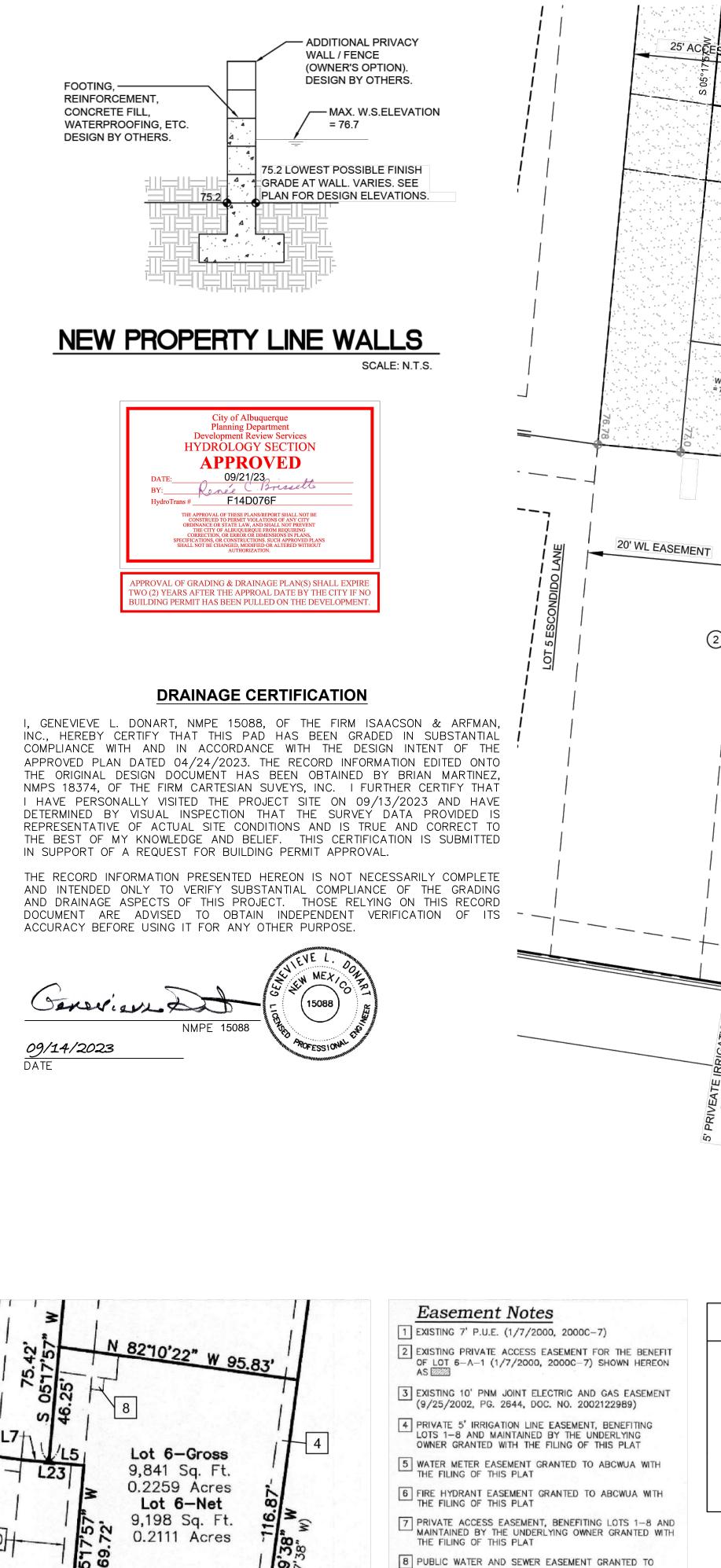
City of Albuquerque

Planning Department Development & Building Services Division

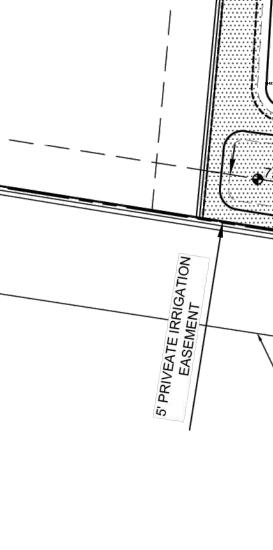
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

| Project Title: | Hydrology File # |
|---|---|
| | |
| City Address, UPC, OR Parcel: | |
| Applicant/Agent: | Contact: |
| | Phone: |
| Email: | |
| Applicant/Owner: | Contact: |
| Address: | Phone: |
| Email: | |
| (Please note that a DFT SITE is one that need | ds Site Plan Approval & ADMIN SITE is one that does not need it.) |
| TYPE OF DEVELOPMENT: PLAT | (#of lots) RESIDENCE |
| DFT | SITE ADMIN SITE |
| RE-SUBMITTAL: YES NO | |
| DEPARTMENT: TRANSPORTA | TION HYDROLOGY/DRAINAGE |
| Check all that apply under Both the Type | of Submittal and the Type of Approval Sought: |
| TYPE OF SUBMITTAL: | TYPE OF APPROVAL SOUGHT: |
| ENGINEER/ARCHITECT CERTIFICA | TION BUILDING PERMIT APPROVAL |
| PAD CERTIFICATION | CERTIFICATE OF OCCUPANCY |
| CONCEPTUAL G&D PLAN | CONCEPTUAL TCL DFT APPROVAL |
| GRADING & DRAINAGE PLAN | PRELIMINARY PLAT APPROVAL |
| DRAINAGE REPORT | FINAL PLAT APPROVAL |
| DRAINAGE MASTER PLAN | SITE PLAN FOR BLDG PERMIT DFT |
| CLOMR/LOMR | APPROVAL |
| TRAFFIC CIRCULATION LAYOUT (7 | SIA/RELEASE OF FINANCIAL GUARANTEE |
| ADMINISTRATIVE | FOUNDATION PERMIT APPROVAL |
| TRAFFIC CIRCULATION LAYOUT F APPROVAL | OR DFT GRADING PERMIT APPROVAL |
| TRAFFIC IMPACT STUDY (TIS) | SO-19 APPROVAL |
| STREET LIGHT LAYOUT | PAVING PERMIT APPROVAL |
| OTHER (SPECIFY) | GRADING PAD CERTIFICATION |
| omer(billen i) | WORK ORDER APPROVAL |
| | CLOMR/LOMR |
| | OTHER (SPECIFY) |

DATE SUBMITTED: ____







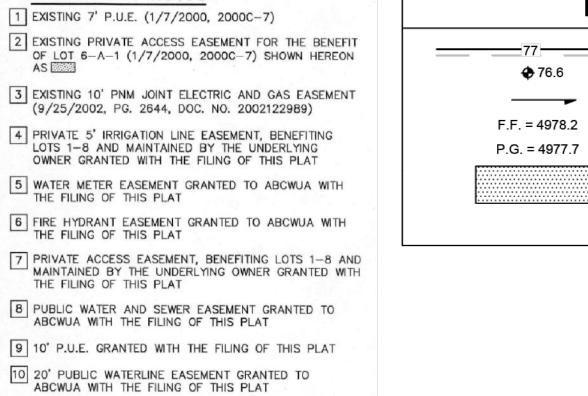
25' ACRESS EASEMEN

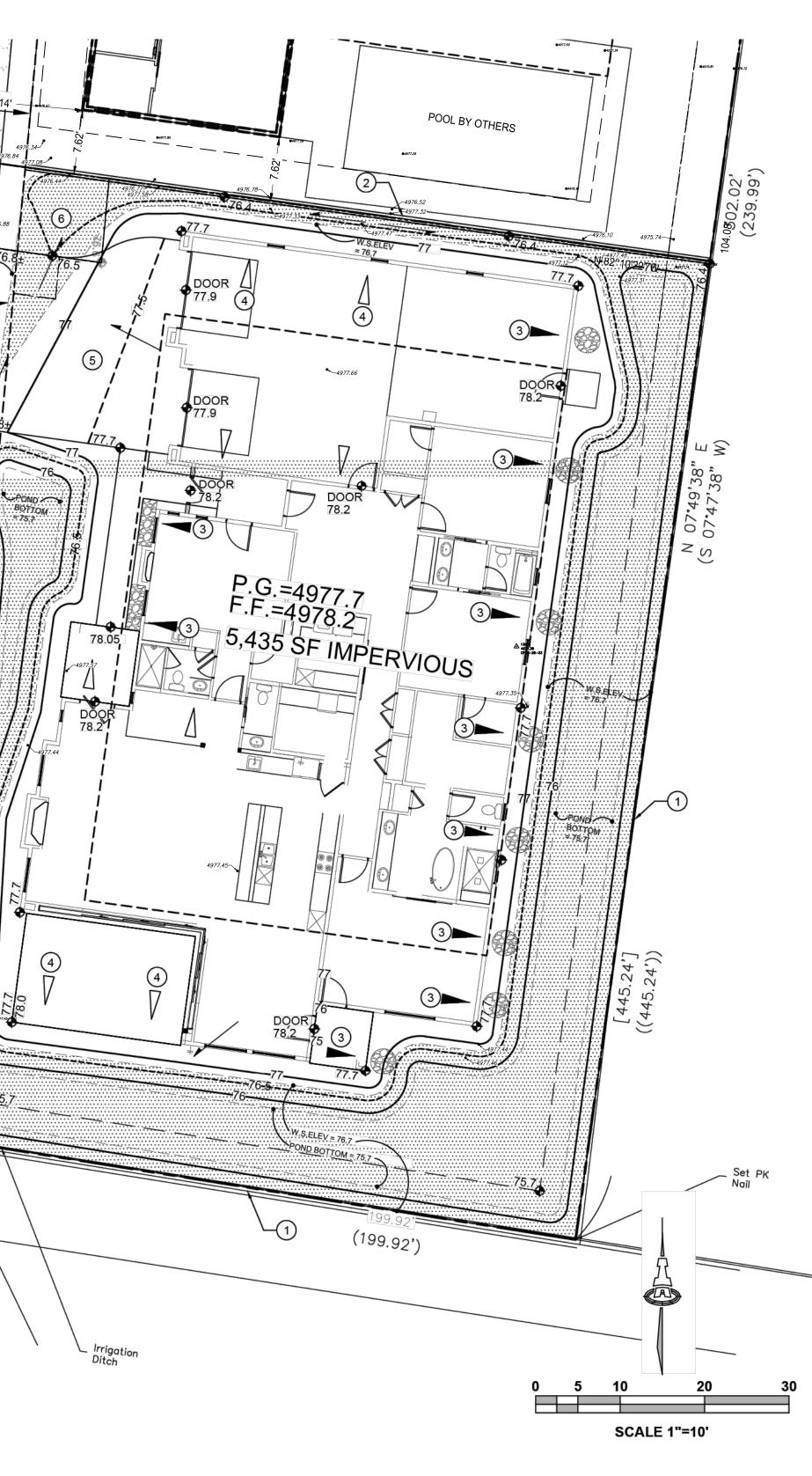
95.83'

W.S.ELEV

= 76.7

W.S.ELEV

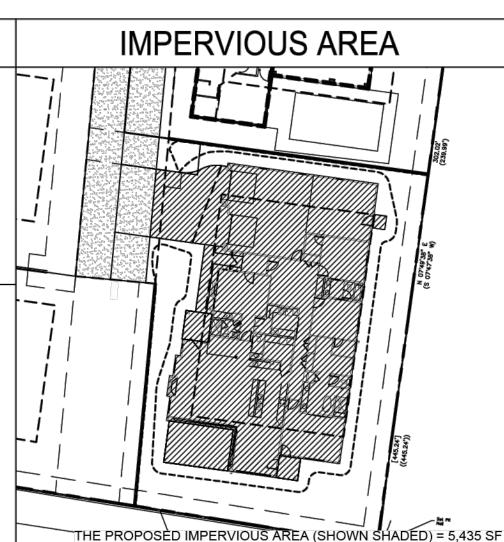




LEGEND

PROPOSED SPOT ELEVATION FLOW DIRECTION FINISH FLOOR ELEVATION PAD GRADE ELEVATION RETENTION POND LIMITS

PROPOSED CONTOUR



GENER

- PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP CONTRACTOR SHALL GRADE AND COMPACT SUBGRADE BASED ON
- ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES. POND DESIGN PARAMETERS AND STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN SHALL BE STRICTLY ADHERED TO FOR CERTIFICATION PURPOSES.
- POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES WILL BE THE RESPONSIBILITY OF THE FACILITIES OWNER. EROSION PROTECTION AS NEEDED.
- PER THE SUBDIVISION GRADING AND DRAINAGE PLAN, THE PROPOSED OWNER SHALL COORDINATE WITH STRUCTURAL DESIGNER WITH **REGARDS TO THE BUILDING & FOUNDATION** THE ADJACENT PONDING.
- FOR ENGINEER'S CERTIFICATION OF CONTRACTOR SHALL PROVIDE AN A PREPARED BY A LICENSED SURVEY AS-BUILT INFORMATION:
- FINISH FLOOR ELEVATION .. SPOT ELEVATIONS AT EACH SPO ..
- APPROVED PLAN TOP AND TOE LIMITS AND ELEV .. REQUIRED CAPACITY IS PROVID PROVIDED ON THIS PLAN ARE B

✓ # KEYEC

- EXISTING RETAINING/PRIVACY WAL CONSTRUCTION.
- NEW PRIVACY WALL. FINAL GRADES REQUIRED TO PROVIDE THE NECES ON-SITE PONDING TO EQUALIZE.
- ROOF DRAIN DISCHARGE: INSTALL SPLASHPAD, PRECAST CONCRETE CONCENTRATED ROOF DRAIN LOCA **RECOMMENDS INSTALLING 3/4" MIN** EROSION CONTROL MATERIAL TO F POND BOTTOM.
- 4. SLOPE ROOF SHEETFLOW DISCHA **RECOMMENDS INSTALLING 3/4" MIN** EROSION CONTROL MATERIAL TO F
- 5. GRADE DRIVEWAY TO DRAIN TO ON
- 6. PROTECT EXISTING PNM TRANSFOR

BUILDING DE

THE BUILDING PAD AREA SHALL BE PRE GEOTECHNICAL REPORT.

THE BUILDING DESIGN SHALL ADDRESS TEN FEET OF BUILDING.

POND VOLUME (

| Area 3020 |
|--------------|
| 3020 |
| |
| 2700 |
| 1785 |
| 1260 |
| |

| | | CALC | ULATIONS: | Lot 6,] |
|--|---|--|---|--|
| | Ba | sed on City | of Albuquerq | ue DMP, |
| | | 10 ⁻ | 100-YEA | AR, 6-HO |
| AREA OF SI | TE: | | | 9841 |
| | | | 100- | year, 6-h |
| | | | DE | VELOPE |
| | | | | Are |
| | | | | 1.4.4 |
| On-Site Weig | hted Exce | | tion (100-Year, | |
| On-Site Weig | htēd Excē | ss Precipita Weighted I | $E = E_A A$ | |
| On-Site Weig On-Site Vohi | | Weighted I | $E = E_A A$ | 6-Hour S $A + E_B A_B$ $A_A + A$ |
| | | Weighted I | $E = E_A A$ Dev $= E^* A$ | $6-Hour S$ $A_A + E_B A_B$ $A_A + A$ eloped E |
| On-Site Vohu | ne of Run | Weighted I | $E = E_A A$ Dev $= E^* A$ | 6-Hour S $A + E_B A_I$ $A_A + A$ eloped E A / 12 eloped V |
| On-Site Vohu | ne of Run Discharge | Weighted I off: V360 e Rate: Qp | $E = E_A A$ \boxed{Dev} $= E^* A$ \boxed{Dev} | 6-Hour S $A + E_B A_I$ $A_A + A$ eloped E A / 12 eloped V |
| On-Site Vohī On-Site Peak For Precipitat | ne of Run Discharge ion Zone | Weighted I off: V360 e Rate: Qp | $E = E_A A$ \boxed{Dev} $= E^* A$ \boxed{Dev} | 6-Hour S $A + E_B A_I$ $A_A + A$ eloped E A / 12 eloped V |
| On-Site Vohi On-Site Peak For Precipitat Q _P / | ne of Run Discharge ion Zone A = | Weighted I off: V360 • Rate: Qp 2 | $E = E_A A$ \boxed{Dev} $= E^* A$ \boxed{Dev} | 6-Hour S $A + E_B A_I$ $A_A + A$ eloped E A / 12 eloped V |

| AL | NOT | ES |
|----|-----|----------|
| | | <u> </u> |

OF FINISH MATERIAL (I.E. TOP OF PAVEMENT, TOP OF LANDSCAPING, ETC.).

ENGINEER RECOMMENDS THAT OWNER INSPECT THE SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY AREAS OF EROSION. ADD ADDITIONAL

RESIDENCE SHALL POND STORMWATER WITHIN 10' OF THE RESIDENCE.

| F SUBSTANTIAL COMPLIANCE, AUTOCAD FORMAT AS-BUILT SURVEY OR WHICH INCLUDES THE FOLLOWING | | | | This con rem Arfn | 020 Is desig cepts ain the nan, In l be u | gn, ca are d prope c. and | alcula owneo erty of I no p | ations, d by f Isaa part ti | , and / and cson & hereol |
|---|---|--|---|----------------------------|--|------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|
| OT ELEVATION SHOWN ON THE ATIONS FOR PONDS TO ENSURE DED. NOTE: PONDS ELEVATIONS BASED ON FINISHED CONDITION. | Elementary Element | | | firm purp the | or pose w writt acson & | corpoi hatsoe en | ration ever permi an | n for excep | r any ptwith |
|) NOTES | PROJ | ECT INFORM | ATION: | A ASA | J.E | 1631 Mil | No | ALION Y | |
| L. CONTRACTOR TO PROTECT DURING S SHOWN AT BASE OF WALL ARE SSARY POND VOLUME AND TO PERMIT SEE SECTION THIS SHEET. EROSION PROTECTION (3' DIA ROCK SPLASHPAD, OR EQUAL) AT ALL ATIONS. (OWNER'S OPTION) ENGINEER NOCK MULCH OVER PERMANENT PASS FLOW FROM SPLASHPADS TO RGE. (OWNER'S OPTION) ENGINEER NOCK MULCH OVER PERMANENT PASS FLOW FROM TO POND BOTTOM. NSITE PONDING AS SHOWN. INTER WITHIN EASEMENT THIS AREA. ESTINCTION SPLASHPADS TO SUBJECT OF THE SPONDED COMPACTED PER THE S PONDED STORM WATER WITHIN | PROPERTY: THE SIT BOUNDED TO THE WAAND TO THE EAST A PROPOSED IMPROV SINGLE FAMILY RES LANDSCAPING AND LEGAL: LOT 6 OF BO AREA: 0.2259 ACRES BENCHMARK: ACS W 1988) OFF-SITE: NO OFF-S FLOOD HAZARD: PEI 09/26/2008, THE SITE DEFINED AS AREAS DRAINAGE PLAN CO THE SITE IS PART OF HYDROLOGY WITH A PAD GRADE = 49 EACH LOT IS RE ALL ROOF FLOW PONDS. WALLS WILL BE THE 100-YEAR 1 SINCE ALL STOP | TE IS AN UNDEVELOPED RESIDEN VEST AND NORTH BY UNDEVELO IND SOUTH BY AGRICULTURE FIE (EMENTS: THE PROPOSED IMPRO DIDENCE WITH ACCESS DRIVE AN PONDING. (SQUE ESCONDIDO, BERNALILLO (S) (ONUMENT "DOUGLAS". ELEVATION (S) (S) (S) (S) (S) (S) (S) (S) (S) (S) | ATIAL LOT AND IS PED RESIDENTIAL LOTS, ELDS. DVEMENTS INCLUDE A ND ASSOCIATED O COUNTY, NM ON = 4975.078' (NAVD ROPERTY. B, EFFECTIVE DATE NE 'X' SHADED WHICH IS VE TO LEVEE. BDIVISION APPROVED BY LLOWS: ON 4976.67. AR 10-DAY VOLUME. ORMWATER RETENTION RTY LINES TO CONTAIN DLUME. PROPERTY, NO | Eng | ; | 10 | Albuquerque NM. 87107 | | |
| | PROPOS | | US AREA | | | | | | |
| PONDING Volume 572 CF 1121 CF 457 CF | THE PROPOSED IM INCLUDING PATIOS WITH AGGREGATE CONSTRUCTED WIT AREA. THE PROPOSED IM TOTAL AREA. MASTER DRAINAGE THIS LOT = 1,749 C ACTUAL 100-YEAR I | PERVIOUS AREA (SHOWN SHADE , WALKS, AND DRIVEWAY. THE S BASE COURSE PAVING. THE DRI TH PAVERS WHICH WOULD REDU PERVIOUS AREA IS APPROXIMAT E PLAN CALCULATED 100-YEAR 1 F (BASED ON IMPERVIOUS AREA DAY DAY VOLUME BASED ON PR | ED) = 5,413± SF STREET IS PERVIOUS IVEWAY MAY BE JCE THE IMPERVIOUS TELY 55% OF THE 0-DAY VOLUME FOR A OF 4,428 SF). | | 100% ISSUE: CONSTRUCTION | PROJECT NUMBER: IA 2497 | | BY: | CHECKED BY: ANW DATE: 04-2023 |
| 2150 CF HYDROLOGY CA | | PROVIDED AT A MAX. DEPTH OF | 1' = 2,150 CF. | Description | | | | | |
| 6, Bosque Escondida : May 5, 2022 P, Article 6-2 Hydrology dated June 26, 2020 HOUR CALCULATIONS I SF SF 0.2259 ACRE 5-hour BED ELOWS: | | 100-year 10-day Storm Vol | lume | Date | | | | | |
| PED FLOWS:EXCESS PRECArea A= 0 0% Precip. ZoneArea B= 2460 25% $E_{B} = 0$ Area C= 1968 20% $E_{C} = 1$ | 2 62 80 03 | V360 (from previous calculation) Area Treatment D (SF) Zone | 1384 5413 2 | ٥ | | | | | |
| Area D = 5413 55% E_D = 2. al Area = 9841 100% ar Storm) $A_{AB} + E_{C}A_{C} + E_{D}A_{D}$ $+ A_{B} + A_{C} + A_{D}$ E = 1.69 in. $V_{360} = 1384 \text{ CF}$ $cA_{C} + Q_{p}DA_{D} / 43,560$ | 33 | For 100-year 10 Day Storms: $V_{10day} = V_{360} + (A_D * (P_{10day} - P_{360}))$ $= V_{360} = A_D (SF) = Z_{ONE} = P_{10day} = P_{360} = P_{360$ | 1384 5413 2 3.62 2.29 1384 | Γ | Gr Drai | adi na | ing ge | Pla | |
| anna | 1 | | | 1 SF | IFFT | NUM | MRF | R | |

VICINITY MAP F-14

| \mathbf{Q}_{pC} | =. | 3.05 | | |
|-------------------|----|------|-----|-----|
| Q _{pD} | =. | 4.34 | | |
| Qp | =. | | 0.8 | CFS |

| WILL BE DIRECTED TO THE STORMWATER RETENTION CONSTRUCTED ON THE PROPERTY LINES TO CONTAIN -DAY MAXIMUM RETENTION VOLUME. MWATER IS RETAINED ON THE PROPERTY, NO M WATER QUALITY VOLUME IS REQUIRED. | | | | | 5500 E Albuque | | | | | | |
|---|---------------------|---|--------------|-------------------------|----------------------|-----------------|-------|-----------|-------------|--|--|
| ED IMPERVI | 008 | s ar | REA | | | | | | | | |
| ERVIOUS AREA (SHOWN S WALKS, AND DRIVEWAY. T ASE COURSE PAVING. THE H PAVERS WHICH WOULD F | HE STRE E DRIVEV | ET IS PE | RVIOUS BE | | 100% CONSTRUCTION | R: IA 2497 | | BJB/ANW | ÅNW | | |
| ERVIOUS AREA IS APPROX | | | | | | PROJECT NUMBER: | | N BY: | CHECKED BY: | | |
| PLAN CALCULATED 100-YEAR 10-DAY VOLUME FOR (BASED ON IMPERVIOUS AREA OF 4,428 SF). AY DAY VOLUME BASED ON PROPOSED IMPERVIOUS | | | | | ISSUE | PROJE | FILE: | DRAWN BY: | CHECK | | |
| ROVIDED AT A MAX. DEPTH | 1 OF 1' = | 2,150 CF | | cription | | | | | | | |
| DNS | | | | Descri | | | | | | | |
| 100-year 10-day Stor | | | | Date | | | | | | | |
| V360 (from previous calculation) Area Treatment D (SF) Zone | | 1384 5413 2 | | N | | | | | | | |
| For 100-year 10 Day Storms: $V_{10day} = V_{360} + (A_D * (P_{10day}))$ | - P360)/12' | " per foot) | | SI | HEET | TITI | E | | | | |
| V360 AD (SF) Zone P10day P360 V360 | | 1384 5413 2 3.62 2.29 1384 | | Grading & Drainage P | | | | | | | |
| + imp. area | = | 600 | 1 | SI | HEET | NUI | MBE | ER | | | |
| Total Volume (V10 day) | = | 1984 | 1 | | C | G- | -1 | 0 | 1 | | |

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SON & Solution Solution Solution Collection Collection

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due,