#### **ENGINEER'S NOTES**

- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE
- THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE (1-800-STAKE-IT) PRIOR TO ANY
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK
- ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OF INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
- 10. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT THE OWNER'S
- CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH ARCHITECT'S FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
- COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
- 13. CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS. AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS
- 14. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
- 16. CONSTRUCT RETENTION BASIN AS SHOWN. CONTRACTOR TO SCARIFY BOTTOM OF BASIN TWO FEET DEEP AND NOT ALLOW COMPACTION OVER 80%.
- 17. THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S)' PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.
- SEWER LINES DESIGNED IN PROFILE AND PUBLIC WATER LINES ARE REQUIRED TO BE ASBUILT AND THE INSTALLATION AND TESTING WITNESSED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODES R18-9-E301 "4.01 GENERAL PERMIT: SEWAGE COLLECTIONS SYSTEMS" AND R18-5-507 AND 508 "APPROVAL OF CONSTRUCTION" AND "RECORD DRAWINGS", RESPECTIVELY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNER 72 HOURS IN ADVANCE WHEN THOSE SYSTEMS ARE READY TO BE WITNESSED.
- THE WORK PRODUCT PRESENTED IS BELIEVED TO BE COMPLIANT WITH THE INTENT OF THE CURRENT AMERICANS DISABILITIES ACT (ADA) REQUIREMENTS AS INTERPRETED BY THE REVIEWING AGENCY(S). IF CONSTRUCTION OF THE PROJECT IS DELAYED, THIS WORK PRODUCT SHOULD BE UPDATED TO ACCOUNT FOR ANY RELEVANT ADA UPDATES BEFORE CONSTRUCTION BEGINS.
- 20. LOWEST FLOOR (LF) REFERS TO EITHER FLOOR/SLAB ELEVATION OR TOP OF BASEMENT SLAB. LF ELEVATIONS ON THE GRADING AND DRAINAGE PLANS FOR RESIDENTIAL UNITS REFLECT SLAB ON GRADE CONDITIONS AND CANNOT BE LOWERED WITHOUT AGENCY APPROVAL IN LOCATIONS WHERE 'SPECIAL FLOOD HAZARD AREAS' EXIST. IN NON-FLOOD HAZARD LOCATIONS, TO ENSURE THAT ADEQUATE RESIDENTIAL LOT DRAINAGE CAN BE ACHIEVED, A PROFESSIONAL ENGINEER SHOULD BE CONSULTED IF THE LF FOR THE SLAB IS PROPOSED TO BE LOWERED, OR IF A BASEMENT IS TO BE CONSTRUCTED.

# FAIRMONT SCOTTSDALE PRINCESS TEMPORARY PARKING

## GRADING & DRAINAGE PLAN SCOTTSDALE, ARIZONA

A PORTION OF SECTION 35, TOWNSHIP 4 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

**COMMENCING** AT THE CENTER OF SAID SECTION 35. A 3-INCH BUREAU OF LAND MANAGEMENT (BLM)

SECTION, A 3-INCH CITY OF SCOTTSDALE BRASS CAP FLUSH, BEARS NORTH 89°57'23" WEST (BASIS OF

BRASS CAP FLUSH STAMPED T4N R4E C1/4 S35 1995, FROM WHICH THE WEST QUARTER CORNER OF SAID

THENCE ALONG THE EAST-WEST MID-SECTION LINE OF SAID SECTION, NORTH 89°57'23" WEST, A DISTANCE

THENCE LEAVING SAID MID-SECTION LINE, NORTH 00°02'37" EAST, A DISTANCE OF 90.00 FEET, TO THE

NORTHERLY LINE OF PRINCESS BOULEVARD RECORDED IN DOCUMENT 1989-0136742. MARICOPA COUNTY

THENCE SOUTH 39°32"22" EAST, A DISTANCE OF 54.03 FEET, TO SAID NORTHERLY LINE AND A POINT OF

THENCE ALONG SAID NORTHERLY LINE, SOUTHWESTERLY ALONG SAID NON-TANGENT CURVE TO THE

RIGHT, HAVING A RADIUS OF 75.00 FEET, CONCAVE NORTHWESTERLY, WHOSE RADIUS BEARS NORTH

27°15'56" WEST, THROUGH A CENTRAL ANGLE OF 27°18'34", A DISTANCE OF 35.75 FEET, TO THE CURVES

THIS PARCEL DESCRIPTION IS BASED ON THE MINOR SUBDIVISION PLAT FOR FAIRMONT SCOTTSDALE

PRINCESS, RECORDED IN BOOK 1104, PAGE 3, MCR AND OTHER CLIENT PROVIDED INFORMATION AND IS

LOCATED WITHIN AN AREA SURVEYED BY WOOD. PATEL & ASSOCIATES, INC. DURING THE MONTH OF

FEBRUARY, 2015. ANY MONUMENTATION NOTED IN THIS PARCEL DESCRIPTION IS WITHIN ACCEPTABLE

TOLERANCE (AS DEFINED IN ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS DATED 02/14/2002) OF

THENCE LEAVING SAID NORTHERLY LINE, NORTH 00°00'00" EAST, A DISTANCE OF 884.84 FEET;

END; THENCE NORTH 89°57'23" WEST, A DISTANCE OF 417.40 FEET, TO THE POINT OF BEGINNING.

PARCEL DESCRIPTION

BEARING), A DISTANCE OF 2647.54 FEET:

RECORDS (MCR) AND THE POINT OF BEGINNING

INTERSECTION WITH A NON-TANGENT CURVE:

SAID POSITIONS BASED ON SAID SURVEY.

THENCE NORTH 90°00'00" EAST, A DISTANCE OF 417.42 FEET; THENCE SOUTH 00°00'00" WEST, A DISTANCE OF 835.15 FEET;

CONTAINING 370,326 SQUARE FEET OR 8.5015 ACRES, MORE OR LESS.

SUBJECT TO EXISTING RIGHT-OF-WAYS AND EASEMENTS.

#### **EARTHWORK QUANTITIES (ESTIMATED)**

| RAW CUT:  | 3234 CY |
|-----------|---------|
| RAW FILL: | 4140 CY |

QUANTITIES ARE ESTIMATED IN PLACE.

#### CITY OF SCOTTSDALE NOTES

PLEASE REFER TO SHEETC2 FOR CITY OF SCOTTSDALE NOTES.

#### **QUANTITIES**

PLEASE REFER TO SHEET C2 FOR ESTIMATED QUANTITIES FOR WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS.

#### **LEGEND**

PLEASE REFER TO SHEET C2 FOR LEGEND AND LIST OF ABBREVIATIONS.

#### **UTILITY NOTES**

- THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR APPROVAL WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN, OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE FURNISHED INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS SHALL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORESEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.
- THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.

#### FEMA FIRM NOTE (ZONE AO)

ACCORDING TO FEMA FLOOD INSURANCE RATE MAPPING. THE SUBJECT PROPERTY IS LOCATED IN 'SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD' "ZONE AO". ZONE AO IS DESCRIBED AS: "FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY SHEET FLOW ON SLOPING TERRAIN); AVERAGE DEPTHS DETERMINED. FOR AREAS OF ALLUVIAL FAN FLOODING, VELOCITIES ALSO DETERMINED."

## FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| COMMUNITY NUMBER | PANEL NUMBER | PANEL DATE | SUFFIX | DATE OF FIRM | FIRM ZONE | BASE FLOOD ELEVATION<br>(IN AO ZONE, USE DEPTH) |
|------------------|--------------|------------|--------|--------------|-----------|---|
| 04013C           | 1320         | 10/16/2013 | L      | 07/20/2021   | AO        | 1   |

#### ENGINEER'S CERTIFICATION

ENGINEER'S CERTIFICATION: THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A ONE-HUNDRED YEAR STORM, AND ARE IN ACCORDANCE WITH CITY OF SCOTTSDALE REVISED CODE, CHAPTER 37-FLOODPLAIN AND STORMWATER REGULATIONS.

**ENGINEER SIGNATURE** 

01/31/2024 DATE

DATE

#### AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/ LAND SURVEYOR

#### NO CONFLICT SIGNATURE BLOCK NAME OF COMPANY | TELEPHONE | DATE | UTILITY UTILITY CONTACTED SIGNED COMPANY REPRESENTATIVE NUMBER ELECTRIC ARIZONA PUBLIC SERVICE HAILEY PARKS 602-493-4401 08/22/2022 TELEPHONE 480-221-7810 LUMEN JEANETTE DEBOARD 08/22/2022 NATURAL GAS SOUTHWEST GAS ANDY SAKS 480-730-3857 08/22/2022 CABLE TV COX COMMUNICATIONS JACOB HORSMAN 08/22/2022 OTHER MCI RICHARD YOUNG 602-615-8995

#### **ENGINEER'S CERTIFICATION**

I NICHOLAS E. BROWN, P.E., AS THE ENGINEER OF RECORD FOR THIS DEVELOPMENT, HEREBY CERTIFY THAT ALL UTILITY COMPANIES LISTED ABOVE HAVE BEEN PROVIDED FINAL IMPROVEMENT PLANS FOR REVIEW, AND THAT ALL CONFLICTS IDENTIFIED BY THE UTILITIES HAVE BEEN RESOLVED. IN ADDITION, "NO CONFLICT" FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY AND ARE INCLUDED IN THIS SUBMITTAL.

01/31/2024

#### SHEET INDEX

**COVER SHEET INDEX MAP & NOTES** GRADING AND DRAINAGE PLAN C3-C4

C5-C6 PAVING PLAN **DETAILS** 

STORM WATER MANAGEMENT PLAN STORM WATER MANAGEMENT DETAILS

#### **BENCHMARK**

3-INCH CITY OF SCOTTSDALE BRASS CAP FLUSH WITH ISLAND CURB LOCATED APPROXIMATELY 450' NORTH OF THE PRINCESS DRIVE & SCOTTSDALE ROAD INTERSECTION, BEING THE WEST QUARTER CORNER OF SECTION 35, TOWNSHIP 4 NORTH, RANGE 4 EAST, OF THE GILA & SALT RIVER MERIDIAN. HAVING AN ELEVATION OF 1556.46', NAVD 88 DATUM.

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON NAVD 1988, MCDOT, AND MEET THE FEMA BENCHMARK MAINTENANCE (BMM) CRITERIA

### **PUBLIC UTILITIES**

CITY OF SCOTTSDALE SEWER CITY OF SCOTTSDALE **ELECTRIC TELEPHONE NATURAL GAS** SOUTHWEST GAS COX COMMUNICATIONS

### SOILS REPORT NOTE

A SOILS GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT TITLED FAIRMOUNT SCOTTSDALE PRINCESS - TEMPORARY PARKING BY ALPHA GEOTECHNICAL & MATERIALS, INC. DATED OCTOBER 13, 2023, REPORT NO, 23-G-14112.

#### STIPULATION CONFORMANCE STATEMENT

"THE ENGINEER OF RECORD ON THESE PLANS HAS RECEIVED A COPY OF THE APPROVED STIPULATIONS FOR THIS PROJECT AND HAS DESIGNED THESE PLANS IN CONFORMANCE WITH THE APPROVED STIPULATIONS."

**ENGINEER SIGNATURE** 

PRINCESS BLVL SEC. 35, T.4N., R.4E. E FRANK LLOYD WRIGHT BLVD VICINITY MAP

## OWNER / DEVELOPER

STRATEGIC HOTELS & RESORTS 150 NORTH RIVERSIDE PLAZA, SUITE 4270 CHICAGO, IL 60606 **CONTACT: TIMOTHY TAYLOR** PHONE: (312) 658-6038

#### **ENGINEER**

WOOD, PATEL & ASSOCIATES, INC. 2051 WEST NORTHERN AVENUE, SUITE 100 PHOENIX, ARIZONA 85021 CONTACT: DARIN MOORE, P.E. PHONE: (602) 335-8500 FAX: (602) 335-8580

#### PROJECT SITE DATA

ASSESSOR PARCEL NUMBER(S) 215-07-014B, 215-07-015C, 215-08-003C PROJECT SITE ADDRESS: 7575 E PRINCESS BLVD SCOTTSDALE, ARIZONA 85255 PROJECT SITE AREA(S): NET AREA = 8.00 AC DISTURBED AREA = 8.68± AC ZONING:

**ENGINEERING DEPARTMENT MANAGER** 

## CITY OF SCOTTSDALE CIVIL APPROVAL

01/31/2024

| REVIEW & RECOMMENDED APPROVAL BY: |  |                     |  |  |
|-----------------------------------|--|---------------------|--|--|
| PAVING                            |  | SIGNS &<br>MARKINGS |  |  |
| GRADING &<br>DRAINAGE             |  | PLANNING            |  |  |
| WATER &<br>SEWER                  |  | FIRE                |  |  |
| RETAINING<br>WALLS                |  | SIGNALS &<br>STREET |  |  |
|                                   |  |                     |  |  |

DATE

KIN F P 

WOOD

PATEL

Wood, Patel & Associates, Inc.

Construction Management

Call at least two full working days before

ARIZONA811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5346 In Maricopa County: (602) 263-1100

www.woodpatel.com

Land Survey

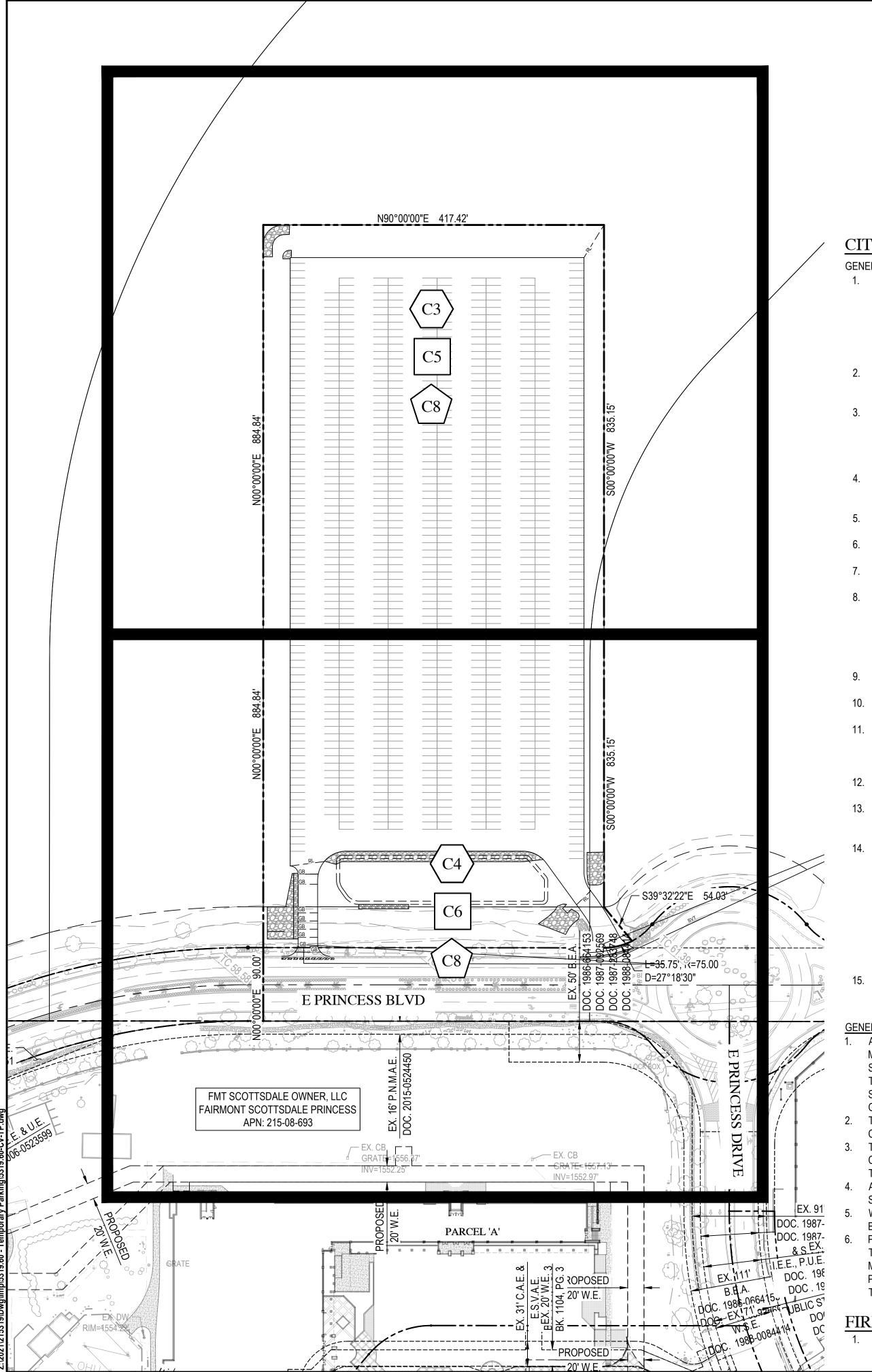
S

PRINCE

EXPIRES 03-31-25 SCALE (HORIZ.) SCALE (VERT.) N/A 01/31/2024

> JOB NUMBER 215319.60 OF C9

CHECKED BY: NB DESIGNED BY: RS/JM DRAFTED BY: JS/SF



## PAVING QUANTITIES (ESTIMATED)

| 2" G.S.A. OVER 12" COMPACTED SUBGRADE                | 23,996 | SY |
|--|--------|----|
| 2" G.S.A. OVER 6" A.B.C. OVER 12" COMPACTED SUBGRADE | 5,700  | SY |
| 3" A.C. OVER 6" A.B.C. HOT MIX ASPHALT               | 32     | SY |
| 4" A.B.C OVER 12" COMPACTED SUBGRADE                 | 258    | SY |
| SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT           | 14     | SY |
| SAWCUT & REMOVE EXISTING CURB & GUTTER               | 54     | LF |
| SAWCUT & REMOVE VERTICAL CURB AT GUTTER LINE         | 66     | LF |
|  |        |    |

#### PARKING QUANTITIES (PROVIDED)

903 EA STANDARD 9'X18' PARKING STALL

#### CITY OF SCOTTSDALE NOTES

#### GENERAL CONSTRUCTION NOTES FOR CAPITAL PROJECTS

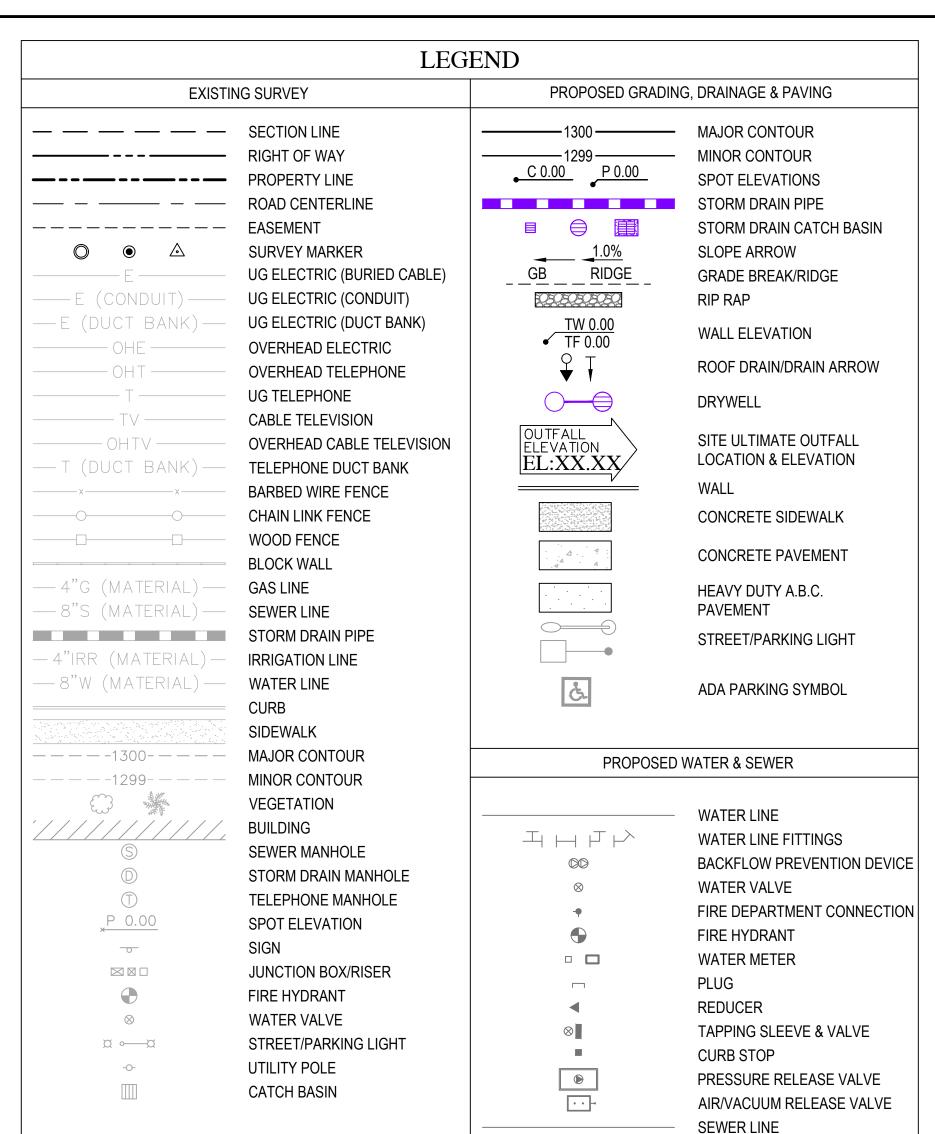
- 1. ALL IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THE 2020 MARICOPA COUNTY ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND DETAILS AND CITY OF SCOTTSDALE'S DESIGN STANDARDS & POLICIES MANUAL (DS&PM). IF THERE IS A CONFLICT, THE LATTER SHALL APPLY. ALL FACILITIES CONSTRUCTION SHALL COMPLY WITH THE LATEST BUILDING CODES AS AMENDED AND ADOPTED BY THE CITY OF SCOTTSDALE.
- THE ENGINEERING DESIGNS ON THESE PLANS ARE APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY
- BASED ON THE INFORMATION SUBMITTED ON THE PLANS AND ASSOCIATED DOCUMENTS, THE CITY HAS REVIEWED AND FOUND THEM TO BE IN ACCORDANCE WITH THE SCOTTSDALE REVISED CODE AND ARE ACCEPTABLE FOR PERMIT ISSUANCE. THIS ACCEPTANCE BY THE CITY DOES NOT AUTHORIZE VIOLATIONS OF ANY APPLICABLE CODE, ORDINANCE OR STANDARD AS ADOPTED BY THE SCOTTSDALE REVISED CODE.
- APPROVAL OF THE PLANS BY THE CITY IS VALID FOR SIX MONTHS. IF A PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS OF REVIEW, THE PLANS SHALL BE RESUBMITTED TO THE CITY FOR REAPPROVAL
- ANY DEVIATION FROM THE APPROVED PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO THAT CHANGE BEING INCORPORATED INTO THE PROJECT.
- A CITY CAPITAL PROJECTS INSPECTOR WILL INSPECT ALL WORK WITHIN THE CITY RIGHTS-OF-WAY, EASEMENTS AND FACILITIES.
- 7. ANY SPECIAL INSPECTION REQUIRED SHALL BE IN ADDITION TO ANY ROUTINE INSPECTION BY THE
- CITY ENCROACHMENT AND BUILDING PERMITS ARE REQUIRED FOR WORK IN PUBLIC RIGHTS-OF-WAY, EASEMENTS GRANTED FOR PUBLIC PURPOSES AND FACILITIES. PERMITS WILL BE ISSUED BY THE CITY THROUGH THE CITY'S ONE STOP SHOP. COPIES OF ALL PERMITS SHALL BE RETAINED ON-SITE AND SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE WORK STOPPAGE UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR SALVAGING PROTECTED NATIVE PLANTS PRIOR TO THE START OF CONSTRUCTION
- CONTRACTOR SHALL CONTACT AZ 811 TWO FULL WORKING DAYS PRIOR TO BEGINNING
- 11. ALL EXCAVATION AND GRADING WHICH IS NOT IN PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC PURPOSES MUST CONFORM TO SECTION 1803 AND APPENDIX J OF THE LATEST INTERNATIONAL CODE COUNCIL AS ADOPTED AND AMENDED BY THE CITY OF SCOTTSDALE. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY
- 12. THRUST RESTRAINT, WHERE REQUIRED, ON ALL CITY WATER LINES SHALL BE PROVIDED USING MEGALUG MECHANICAL JOINT RESTRAINTS OR CITY-APPROVED EQUAL
- 13. ANY ASPHALT MIX DESIGN USED ON CITY PROJECTS SHALL HAVE BEEN APPROVED FOR THAT USE PER SECTION 5-10 OF THE CITY'S DS&PM AND APPEAR ON THE "APPROVED LIST OF ASPHALT MIXES" AS DISTRIBUTED BY THE EAST VALLEY ASPHALT COMMITTEE (EVAC).
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT NO ADDITIONAL COST TO THE CITY, ANY AND ALL PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE STRUCTURES, ETC. OUTSIDE THE PAY LIMIT THAT ARE DAMAGED DUE TO THEIR ACTIVITIES ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND REPLACEMENT OF NEWLY CRACKED ROADWAY INFRASTRUCTURE, THE REMOVAL AND REPLACEMENT OF EXISTING CRACKED ROADWAY INFRASTRUCTURE WHERE THE CRACKS HAVE BEEN ENLARGED DUE TO THE CONTRACTOR'S OPERATIONS, THE REMOVAL AND REPLACEMENT OF DEFORMED ROADWAY INFRASTRUCTURE. ALL SAWCUTS USED FOR THE REMOVAL OF THESE ITEMS SHALL BE PERPENDICULAR AND PARALLEL TO THE CENTERLINE CONTROLLING THAT ITEM, OR AT THE DIRECTION OF THE CITY'S CAPITAL PROJECTS INSPECTOR.
- ALL CAPITAL IMPROVEMENT PROJECTS SHALL MEET THE PROCEDURES AND STANDARDS FOR THE USE OF TEMPORARY/SECURITY FENCING AROUND THE PERIMETER OF CONSTRUCTION SITES, AS DEFINED IN THE CITY'S ZONING ORDINANCE, ARTICLE VII, SECTION 7.700.

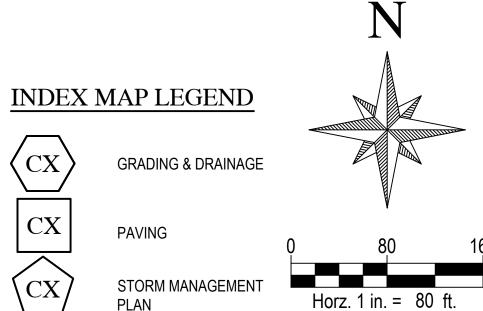
#### GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION

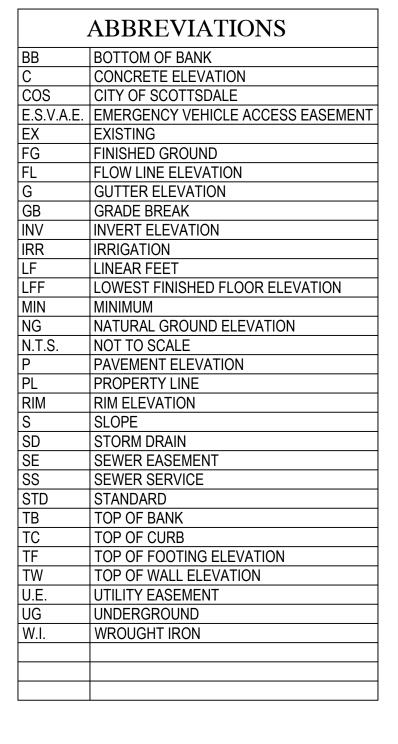
- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MAG UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL
- THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- 3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF A RIGHT-OF-WAY PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN THIS TIME FRAME, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- 4. A CITY INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE. NOTIFY INSPECTION SERVICES 72 HOURS BEFORE BEGINNING WORK.
- WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS.
- PERMISSION TO WORK IN THE RIGHT-OF-WAY (PWR) PERMITS ARE REQUIRED FOR ALL WORKS WITHIN THE RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.

#### FIRE NOTE:

ALL PRIVATE STREETS AND DRIVES SHALL CONFORM TO THE FIRE DEPARTMENT GUIDELINES FOR EMERGENCY VEHICLE ACCESS.







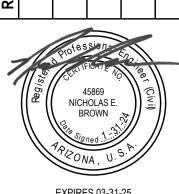
SEWER MANHOLE

CLEANOUT



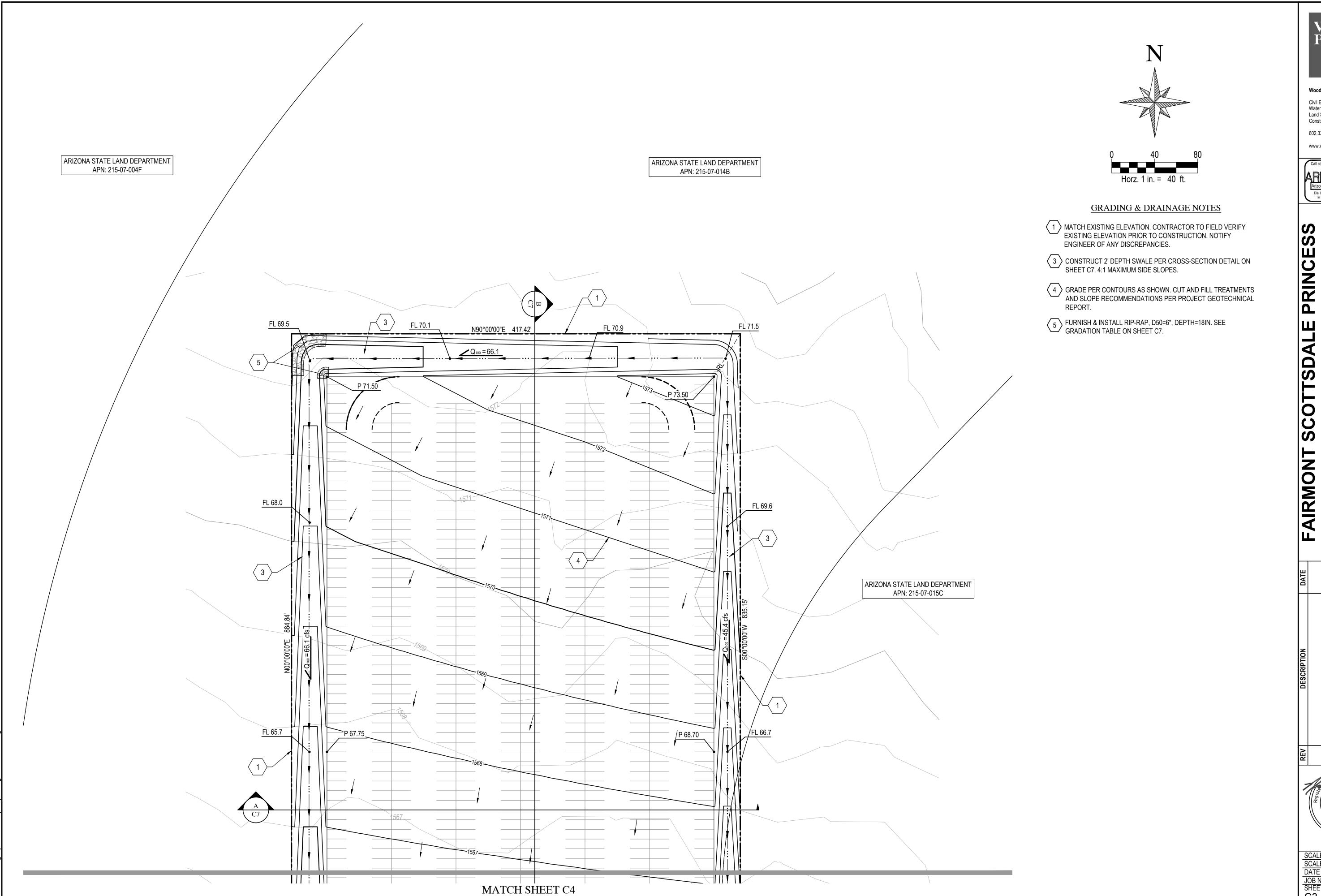


PRINCE



EXPIRES 03-31-25 SCALE (HORIZ.) SCALE (VERT.) N/A 01/31/2024 JOB NUMBER 215319.60 SHEET

OF C9 CHECKED BY: NB DESIGNED BY: RS/JM DRAFTED BY: JS/SF



WOOD PATEL

Wood, Patel & Associates, Inc. Civil Engineering Water Resources Land Survey Construction Management

602.335.8500

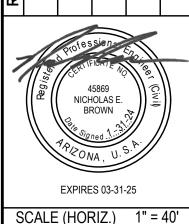
www.woodpatel.com

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



SCALE (HORIZ.) 1" = 40'

SCALE (VERT.) N/A

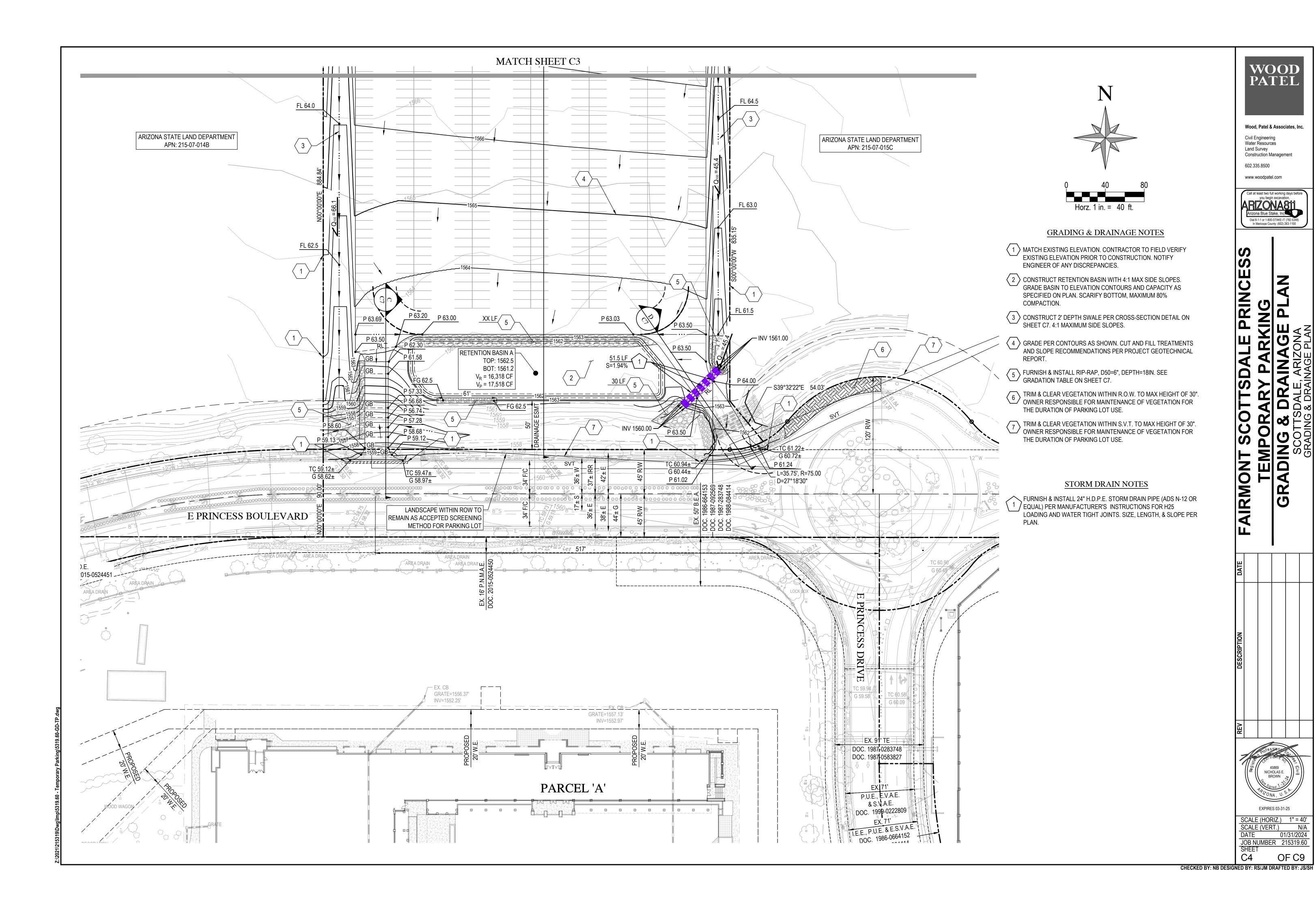
DATE 01/31/2024

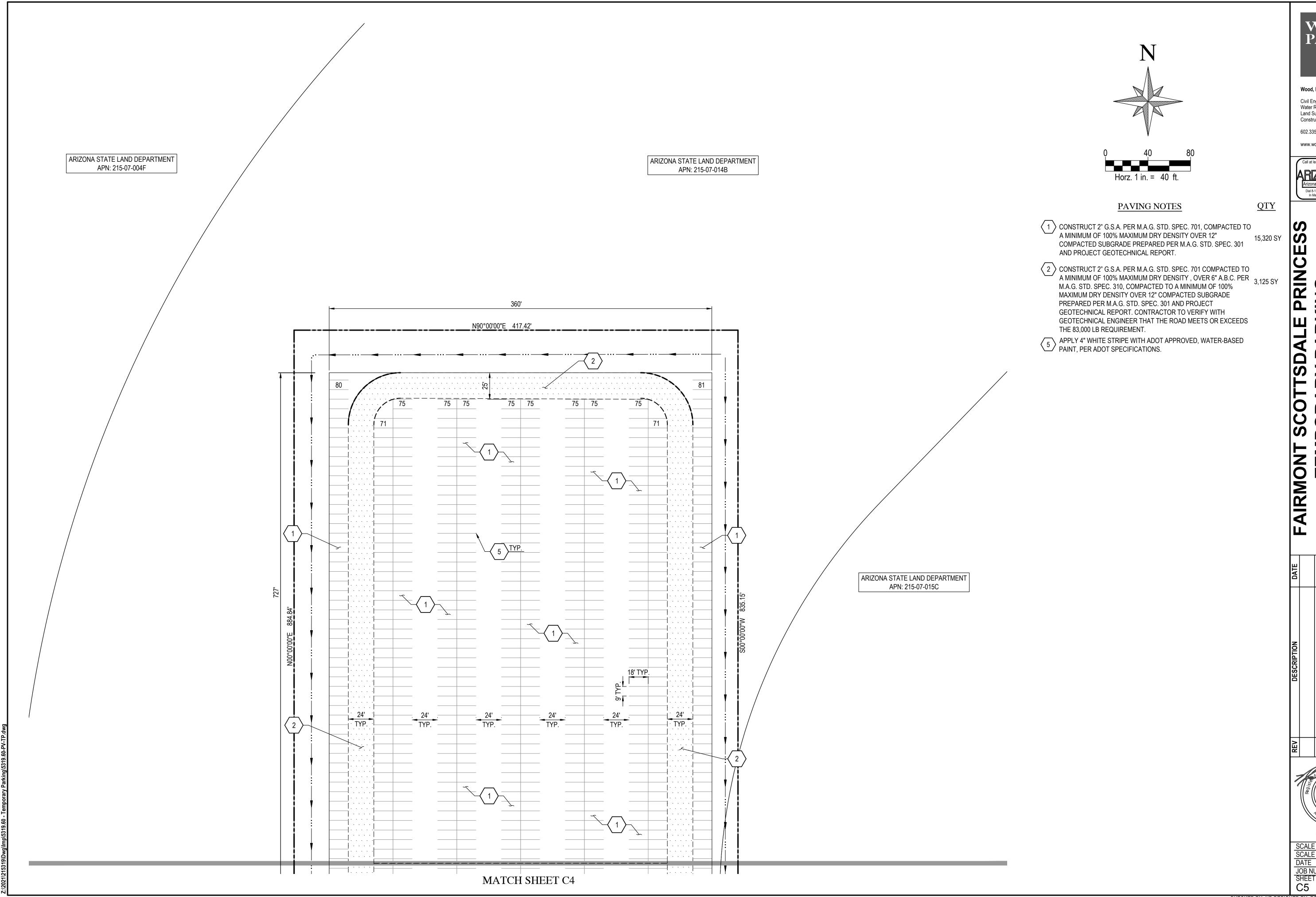
JOB NUMBER 215319.60

SHEET

C3 OF C9

CHECKED BY: NB DESIGNED BY: RS/JM DRAFTED BY: JS/SH





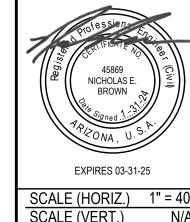
WOOD PATEL

Wood, Patel & Associates, Inc. Civil Engineering Water Resources Land Survey Construction Management

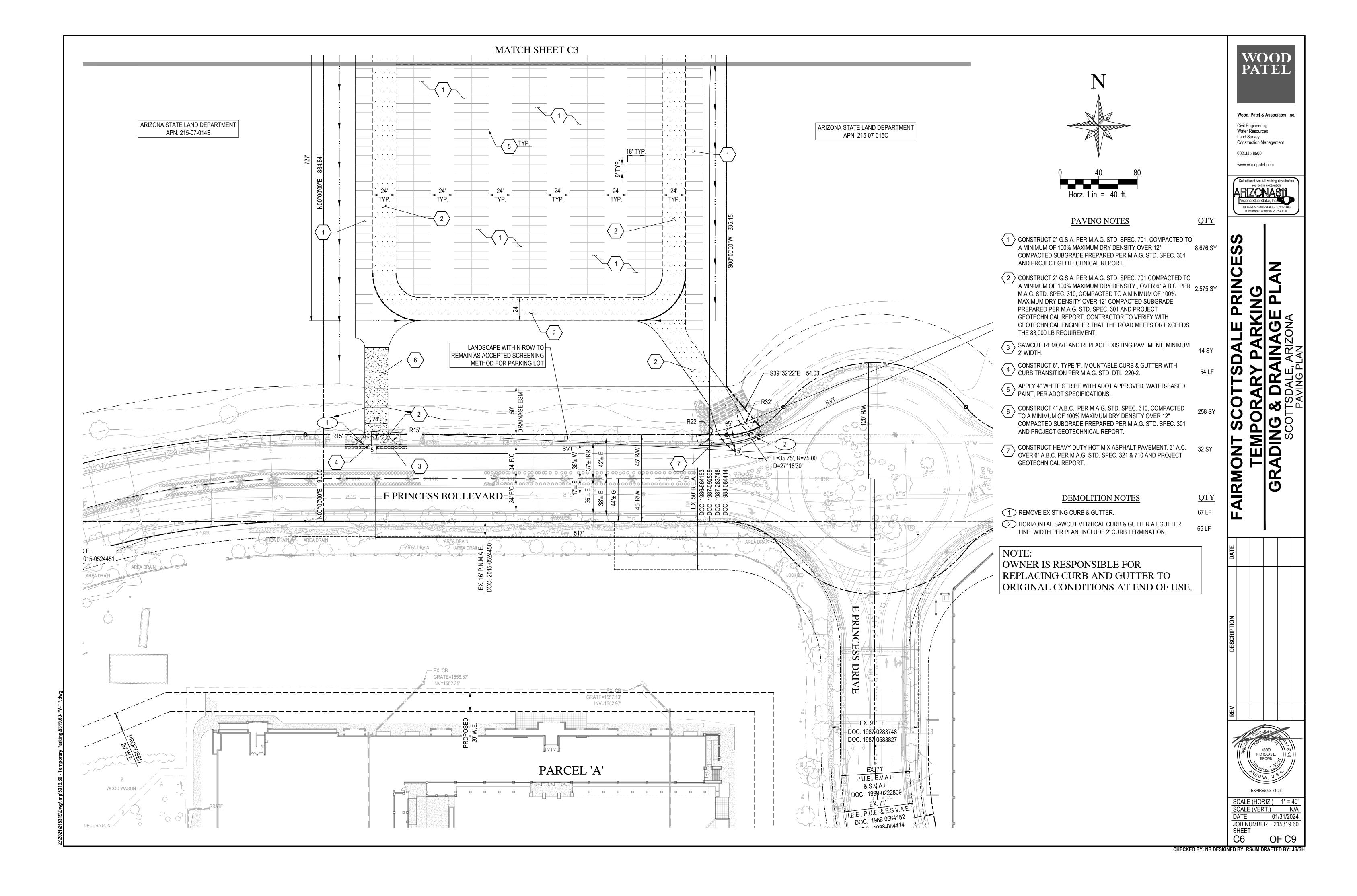
602.335.8500 www.woodpatel.com

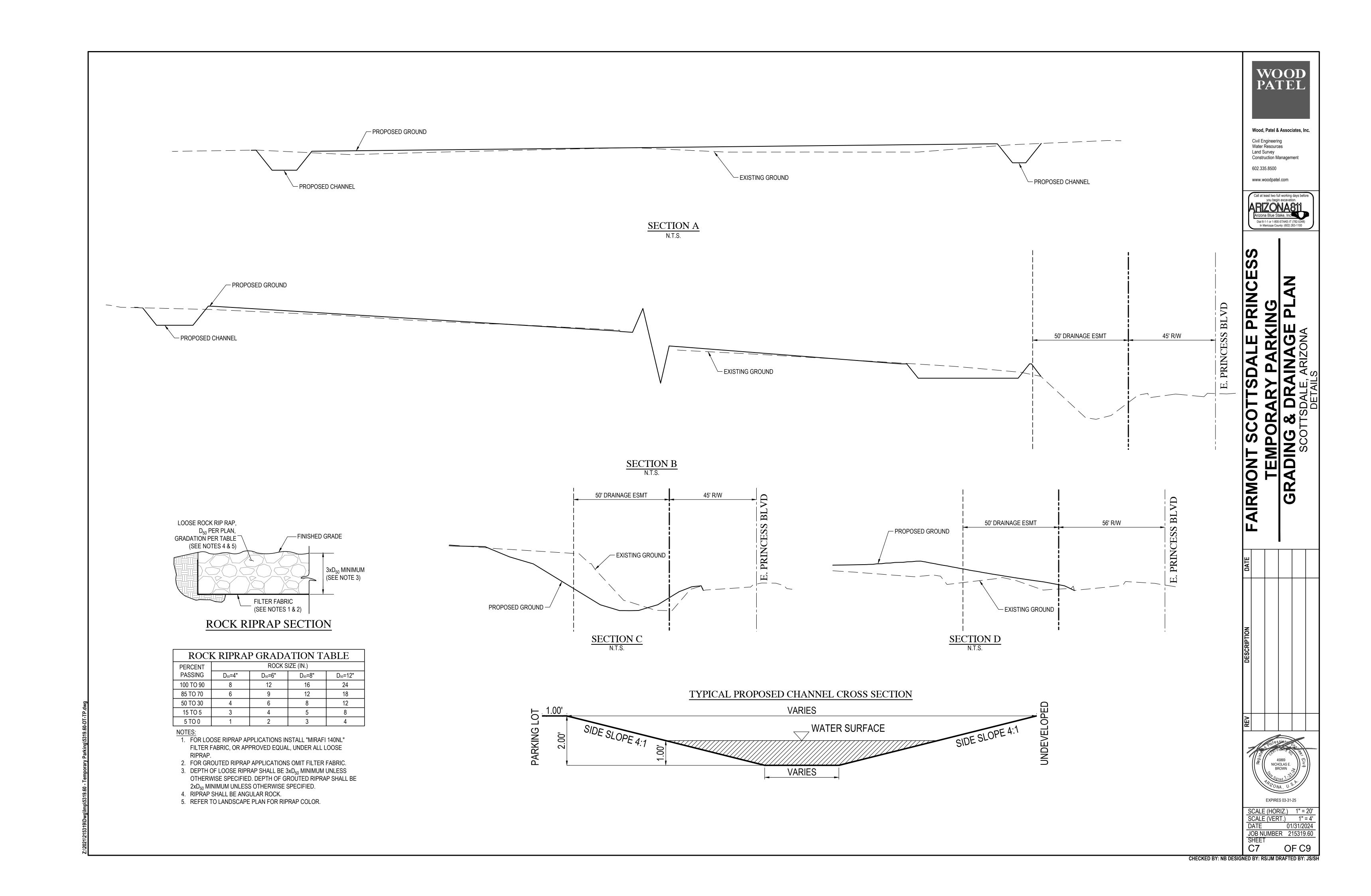
Call at least two full working days before you begin excavation.

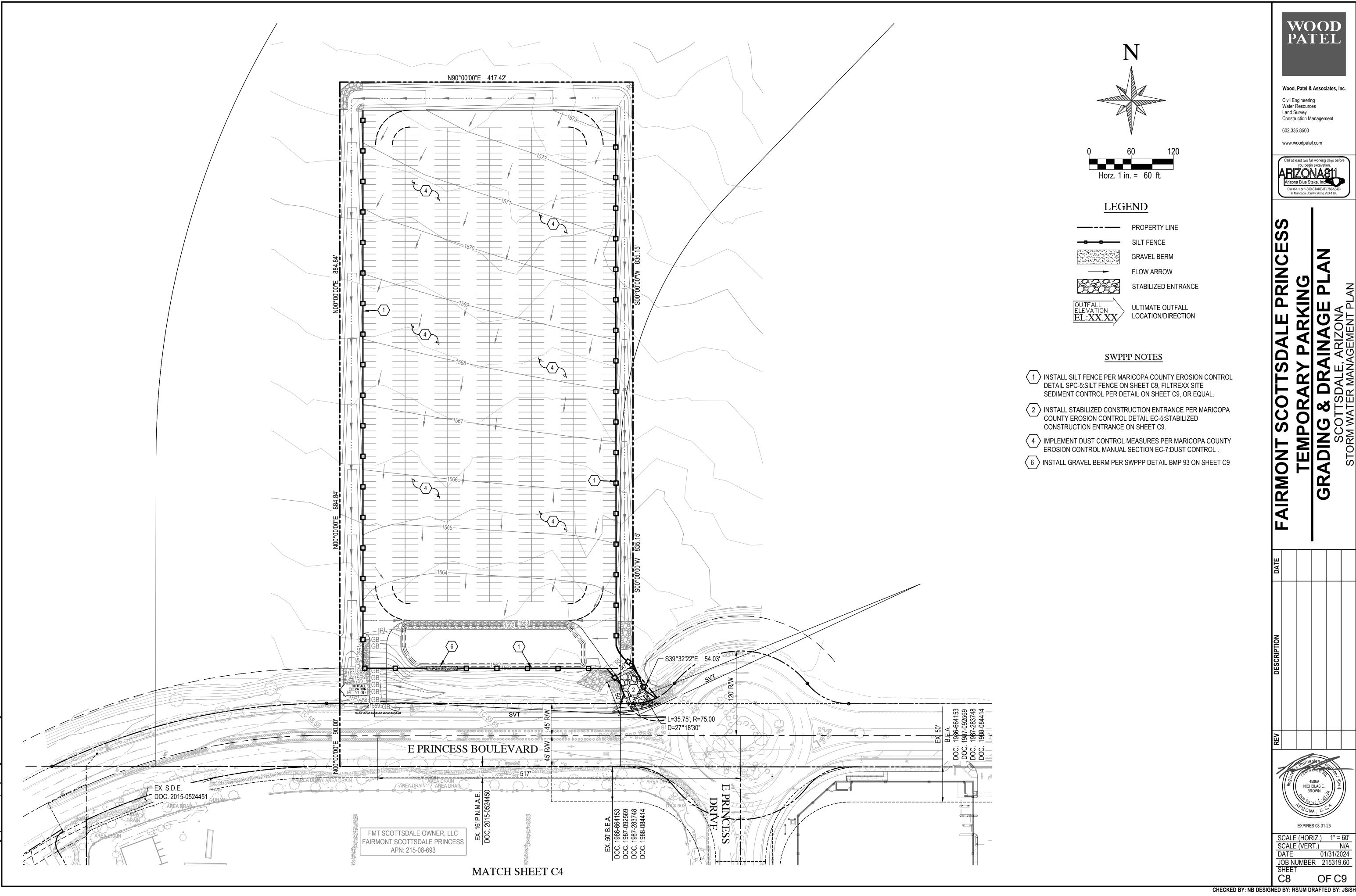
| DESCRIPTION             |  |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|--|
| REV                     |  |  |  |  |  |  |  |
| AS869 NICHOLAS E. BROWN |  |  |  |  |  |  |  |



SCALE (HORIZ.) 1" = 40'
SCALE (VERT.) N/A
DATE 01/31/2024
JOB NUMBER 215319.60
SHEET
C5 OF C9







WOOD PATEL Wood, Patel & Associates, Inc.

Civil Engineering Water Resources Land Survey Construction Management

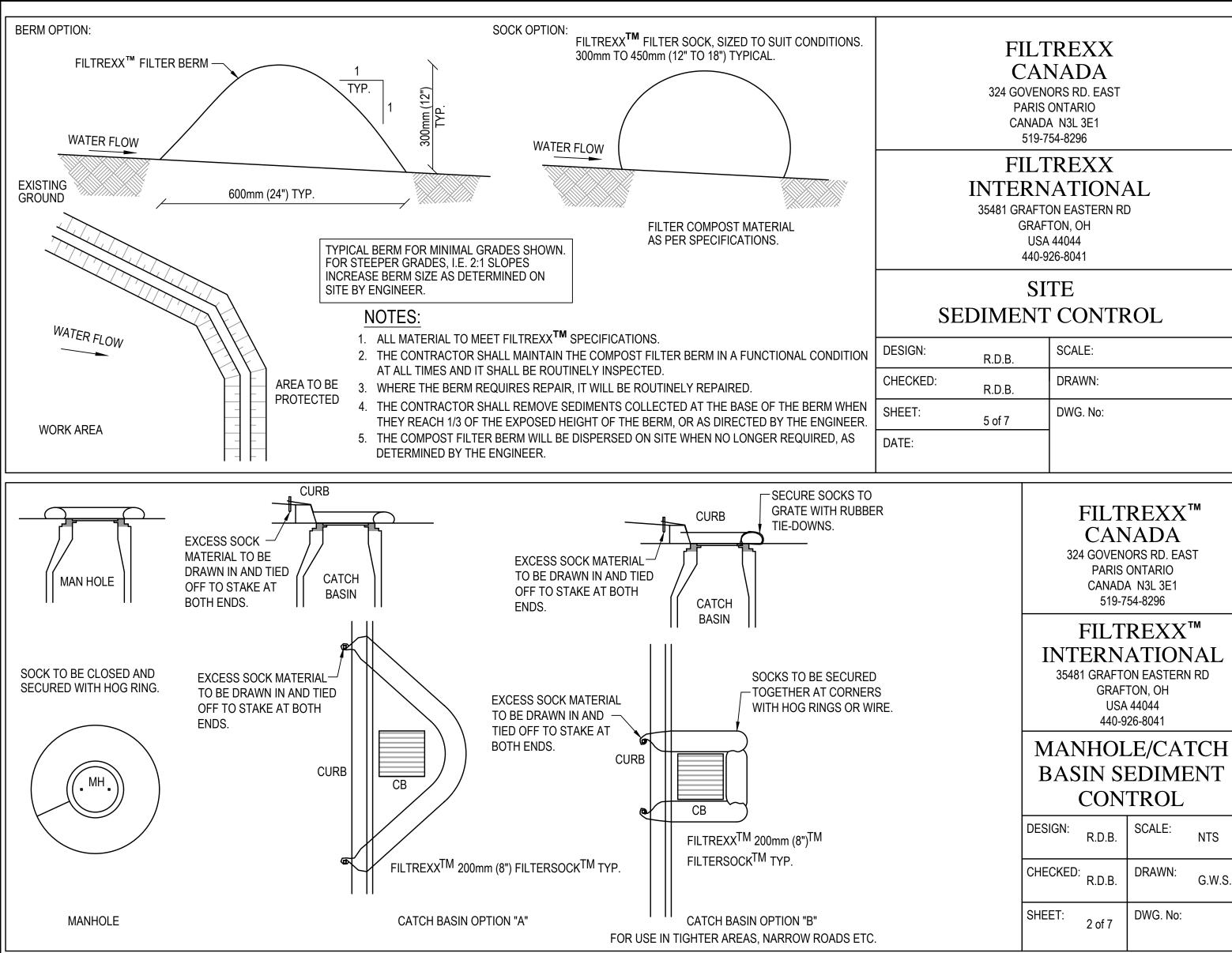
602.335.8500

www.woodpatel.com

Call at least two full working days before you begin excavation.

EXPIRES 03-31-25

SCALE (HORIZ.) 1" = 60'
SCALE (VERT.) N/A
DATE 01/31/2024
JOB NUMBER 215319.60
SHEET
C8 OF C9



#### TABLE 5.2 COMMONLY USED DUST SUPPRESSANTS **Functional** Limitations Mechanism Frequent light applications may be necessa Noisture wets particles Isually readily available, low material cost, during hot dry weather and can be labor Freshwater thereby increasing their mass and easy to apply ntensive. Over application may result in los and binding them together. of traction, erosion, or points of road failure, Reduces evaporation rate of surface ffectiveness in arid and semi-arid regions moisture, lowers the freezing point of wat At a relative humidity greater may be limited due to low relative humidity. I which reduces frost heave and freeze-thaw than approximately 30% (77 s very corrosive to aluminum alloys and Calcium cycles, thereby reducing required road F), the salts within the soil slightly corrosive to steel. Solubility of Chloride naintenance. Calcium Chloride also will pull moisture from the air calcium chloride results in leaching during increases the compacted density of existing above and retain it in the soil. neavy precipitation. Releases heat when road base material. Effectiveness is retained after reblading Reduces evaporation rate of surface moisture, lowers the freezing point of water Effectiveness in arid and semi-arid regions At a relative humidity greater which reduces frost heave and freeze-thaw may be limited due to low relative humidity. It than approximately 30% (77° cycles, thereby reducing required road is very corrosive to aluminum alloys and F), the salts within the soil maintenance Magnesium Chloride slightly corrosive to steel. Solubility of will pull moisture from the air increases the compacted density of existing calcium chloride results in leaching during above and retain it in the soil. road base material more than Calcium neavy precipitation. Chloride. Effectiveness is retained after reblading. Greatly increases dry strength of soil, not heavy precipitation. It is corrosive to Act as adhesives by binding humidity-dependent, imparts some plasticity aluminum alloys due to acidity (CaCO3 can to road surfaces, and lowers freezing point soil particles together and Derivatives neutralize the acidity). Proper aggregate mix of road surface and base. Effectiveness is s important to performance. Becomes retained after reblading. slippery when wet and brittle when dry. Low solubility after curing minimizes equires proper weather and time to cure. Tree Resin Act as adhesives by binding leaching and provides degree of surface No residual effectiveness after reblading. **Emulsions** soil particles together and waterproofing. Imparts some plasticity to Equipment requires prompt cleanup to avoid (tall oil) road surfaces, has a high bonding strength, uring of resin in hoses and pipes. and is non-corrosive. Requires proper weather and time to cure. Bind soil particles together by Applicable to a range of emission sources Water repellent. May be subject to UV Synthetic forming a polymerizing and function well in sandy soil conditions. sunlight) degradation. Application matrix; a function similar to Some types allow seeded vegetation to equipment requires timely cleaning. There is grow through the polymer matrix. no residual effectiveness after reblading. Asphalt and resinous products are adhesive binding soil particles together. Water insoluble when dry; provide a degree oad to become too hard for reblading. Tars, and Petroleum oil products coat of surface waterproofing. Good residual Bituments won't lower freezing point and Resins soil particles, increasing their petroleum oil products lack adhesive mass and binding them characteristics. together. Flexible, durable, water permeable, arid Cementitious based binders are only High purity gypsum mixes Cementitiou resists soil chemicals. Reduces amount of effective for dust control in non-traffic areas. with water and mulch to form aggregate required during initial Instead, consider mixing cementitious based a thin cement-like crust on Binders construction and has lower maintenance



### DUST CONTROL TABLE

costs than other dust suppressants.

binders with sub-base soils for greater soil

EC-7



WOOD

PATEI

Wood, Patel & Associates, Inc

Civil Engineering

Water Resources

Construction Management

Land Survey

602.335.8500

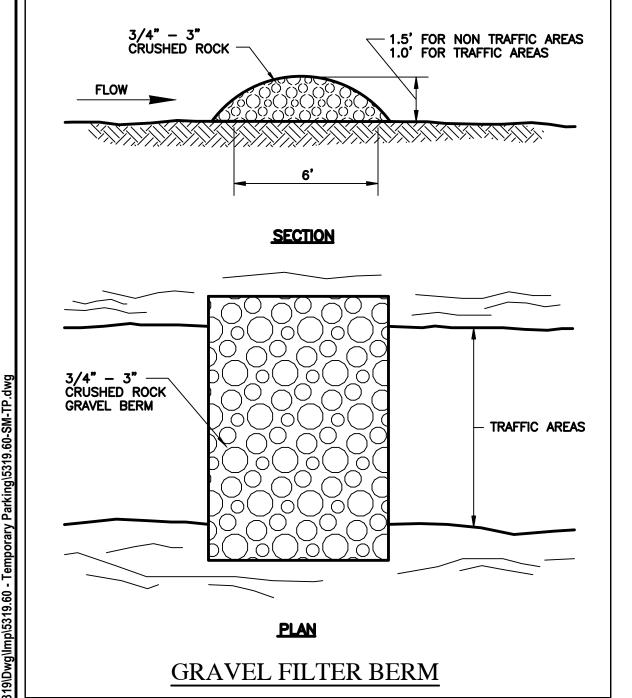
www.woodpatel.com

Call at least two full working days before

ARIZONA811

Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5346 In Maricopa County: (602) 263-1100



BMP-93

A VARIETY OF METHODS OF INTERCEPTING SEDIMENT AT LOW POINT INLETS THROUGH THE USE OF STONE, FILTER FABRIC, INLET INSERTS, AND OTHER MATERIALS. THIS IS NORMALLY LOCATED AT THE INLET. PROVIDING EITHER DETENTION OR FILTRATION TO REDUCE SEDIMENT AND FLOATABLE MATERIALS IN STORMWATER.

STORM DRAIN INLET PROTECTION MEASURES PREVENT SOIL AND DEBRIS FROM SITE EROSION FROM ENTERING STORM DRAIN DROP INLETS AND CLOGGING THEM. TYPICALLY, THESE MEASURES ARE TEMPORARY CONTROLS THAT ARE IMPLEMENTED PRIOR TO LARGE-SCALE DISTURBANCE OF THE SURROUNDING SITE. THE EARLY USE OF STORM DRAINS DURING PROJECT DEVELOPMENT SIGNIFICANTLY REDUCES THE OCCURRENCE OF FUTURE EROSION PROBLEMS.

#### APPROPRIATE APPLICATIONS

STORM DRAIN INLET PROTECTION IS APPROPRIATE WHERE STORM DRAIN INLETS ARE TO BE MADE OPERATIONAL BEFORE PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. THERE ARE A VARIETY OF TYPES OF STRUCTURES THAT ARE APPLICABLE TO DIFFERENT CONDITIONS:

- <u>FILTER FABRIC FENCE</u> APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (LESS THAN 1 ACRE)
- FLAT AREA (LESS THAN 5 PERCENT SLOPE). INTENDED FOR RELATIVELY LOW FLOWS. • EXCAVATED DROP INLET SEDIMENT TRAP - INTENDED FOR RELATIVELY HIGH FLOWS. AN EXCAVATED DROP INLET TRAP PROVIDES PROTECTIONS AGAINST SEDIMENT ENTERING A STORM DRAIN INLET CAN BE PROVIDED BY EXCAVATING AN AREA IN THE APPROACH TO THE DRAIN. THE EXCAVATION VOLUME SHOULD
- BE APPROXIMATELY 1800 TO 3600 CUBIC FEET PER ACRE OF DISTURBED AREA DRAINED. BLOCK AND GRAVEL PROTECTION – USED WHEN THE FLOWS EXCEED 0.5 CUBIC FEET PER SECOND (CFS)
- AND IT IS NECESSARY TO ALLOW FOR OVERTOPPING TO PREVENT FLOODING AROUND THE INLET AREA. • FOAM OR FIBER ROLL BARRIERS - USE FOR RELATIVELY LOW FLOWS IN AREAS WHERE THEY CAN BE ANCHORED TO THE SURFACE. MOST APPROPRIATE FOR INLETS ON AN UNPAVED SURFACE.

#### LIMITATIONS

- SPECIAL CAUTION SHOULD BE EXERCISED WHEN INSTALLING INLET PROTECTION ON PUBLICLY TRAVELED STREETS OR IN DEVELOPED AREAS.
- · INLET PROTECTION IS ONLY VIABLE AT LOW POINT INLETS. INLETS THAT ARE ON SLOPE CANNOT BE EFFECTIVELY PROTECTED BECAUSE STORMWATER WILL BYPASS THE INLET AND CONTINUE DOWNSTREAM, CAUSING AN OVERLOAD ON DOWNSTREAM INLETS.
- PONDING WILL OCCUR AT THE INLET WITH POSSIBLE SHORT TERM FLOODING. CURB INLETS ON SLOPES CANNOT BE EFFECTIVELY PROTECTED BECAUSE THE STORMWATER WILL
- BYPASS THE INLET AND CONTINUE DOWNGRADE. FILTER FABRIC FENCES ARE LIMITED TO STORM DRAIN INLETS FOR SMALL DRAINAGE AREAS OF FIVE ACRES OR LESS. FILTER FABRIC FENCES ARE NOT APPROPRIATE IN PAVED AREAS. FOR LARGER DRAINAGE AREAS, SMALLER SEDIMENT CATCHMENT AREAS ARE RECOMMENDED.

#### PLANNING CONSIDERATIONS

WHERE STORM SEWERS ARE MADE OPERATIONAL BEFORE THEIR DRAINAGE AREA IS STABILIZED, OR WHERE CONSTRUCTION IS ADJACENT TO AN EXISTING STORM SEWER. LARGE AMOUNTS OF SEDIMENT MAY ENTER THE STORM SEWER SYSTEM. IN CASES OF EXTREME SEDIMENT LOADING, THE STORM SEWER ITSELF MAY CLOG AND LOSE A MAJOR PORTION OF ITS CAPACITY. TO AVOID THESE PROBLEMS, IT IS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM AT THE INLETS.

the soil surface.

THIS PRACTICE CONTAINS SEVERAL TYPES OF INLET FILTERS AND TRAPS WHICH HAVE DIFFERENT APPLICATIONS DEPENDENT UPON SITE CONDITIONS AND TYPE OF INLET. OTHER INNOVATIVE TECHNIQUES FOR ACCOMPLISHING THE SAME PURPOSE ARE ENCOURAGED, BUT ONLY AFTER SPECIFIC PLANS AND DETAILS ARE SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNMENT.

#### RECOMMENDED STANDARDS AND SPECIFICATIONS

- INSTALL INLET PROTECTION IN ACCORDANCE WITH THE FOLLOWING: FILTER FABRIC FENCE: PLACE 2 INCH BY 2 INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8 INCHES INTO THE GROUND. EXCAVATE A TRENCH APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES. STAPLE THE FILTER FABRIC (FOR MATERIAL SPECIFICATIONS, SEE SPC-5: SILT FENCE TO WOODEN STAKES SO THAT 32 INCHES OF THE FABRIC EXTENDS OUT AND CAN BE FORMED INTO THE TRENCH. USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2 INCH IN LENGTH. BACKFILL THE ENTIRE TRENCH WITH 3/4 INCH
- EXCAVATED DROP INLET SEDIMENT TRAP: CONSTRUCT THE INLET TRAP AS SHOWN IN THE STORM DRAIN DROP INLET PROTECTION DRAWING. ENSURE THAT THE EXCAVATION VOLUME CAN CONTAIN APPROXIMATELY 1800 TO 3600 CUBIC FEET PER ACRE OF DISTURBED AREA.
- GRAVEL BAG FILTER: IF THERE IS A HIGH CONTENT OF CLAYS AND SILTS, USE FILTER FABRIC IN CONJUNCTION WITH GRAVEL FOR ADDITIONAL FILTERING CAPACITY. CONSTRUCT THE GRAVEL BAG FILTER AS SPECIFIED BY GRAVEL FILTER BERMS.
- FOAM OR FIBER ROLL BARRIER: FOAM OR FIBER ROLL IS PLACED AROUND THE INLET AND MUST BE ANCHORED TO THE CURB SURFACE, SO THAT IT IS NOT CARRIED AWAY BY RUNOFF FLOWS.

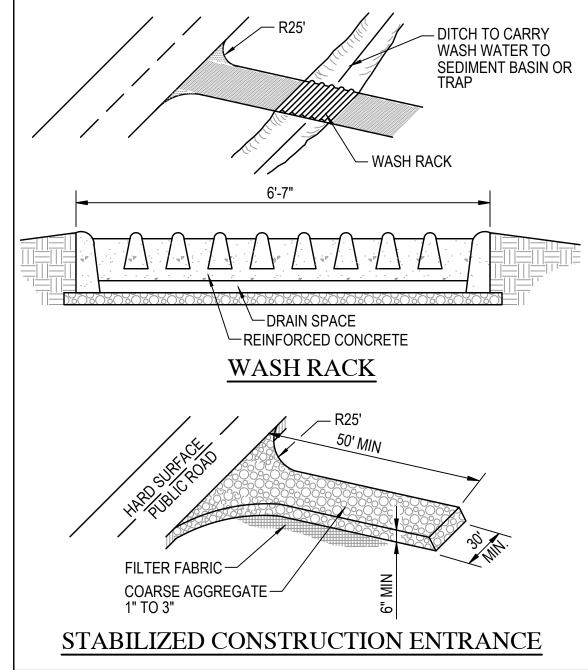
#### RECOMMENDED MAINTENANCE AND INSPECTION

FOR SYSTEMS USING FILTER FABRIC, INSPECTIONS SHOULD BE MADE ON A REGULAR BASIS, ESPECIALLY AFTER LARGE STORM EVENTS. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY HALF THE HEIGHT OF THE FENCE. IF AN EXCAVATED INLET SEDIMENT TRAP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY HALF THE DEPTH OF THE HOLE.

#### POST CONSTRUCTION METHODS

OR LESS WASHED GRAVEL.

FOLLOWING THE COMPLETION OF CONSTRUCTION PROJECTS IN RESIDENTIAL AND MUNICIPAL AREAS, MORE PERMANENT DROP-INLET PROTECTION DEVICES CAN BE INSTALLED IN STORM DRAIN INLETS. THE LINK UNDER THE VENDOR PRODUCTS SECTION LISTS SEVERAL DIFFERENT DROP-INLET PROTECTION DEVICES.



EC-5