

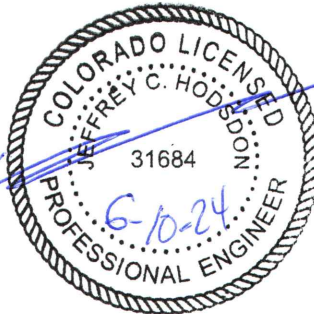


LSC TRANSPORTATION CONSULTANTS, INC.
2504 East Pikes Peak Avenue, Suite 304
Colorado Springs, CO 80909
(719) 633-2868
FAX (719) 633-5430
E-mail: lsc@lsctrans.com
Website: <http://www.lsctrans.com>

Estates at Cathedral Pines
Trip Generation & Access Technical Memo
(LSC #S224150)
EPC PCD File No. PUDSP2210 & SF2234
May 15, 2024

Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Accepted for File

By: Gilbert LaForce, P.E.
Engineering Manager

Date: 07/08/2024 2:43:18 PM
El Paso County Department of Public Works



Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

Elaine Cawfield

6/11/2024

Date



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March 29, 2024 [w/ minor revision 5-15-24]

Mr. Bill Guman
William Guman & Associates, Ltd.
731 North Weber Street, Suite 10
Colorado Springs, CO 80903

RE: Estates at Cathedral Pines
El Paso County, CO
Trip Generation & Access Technical Memo
LSC #S224150

Dear Mr. Guman,

LSC Transportation Consultants, Inc. has prepared this “trip generation and access” technical memorandum for the proposed Estates at Cathedral Pines in El Paso County, Colorado. The 35-acre site (El Paso County parcel ID 6200000411) is located northwest of the intersection of Peregrine Way and Winslow Drive. Access is proposed to Winslow Drive about 1,100 feet north of Peregrine Way.

This report presents information regarding the proposed land use, the estimated vehicle-trip generation, and an evaluation of the site-access point relative to County access criteria. The memo is called a “Trip Generation & Access Technical Memo” as the criteria under *Engineering Criteria Manual (ECM)* section B.1.2.D “No TIS Required” is met.

This memo also references a deviation request and a *Land Development Code* waiver.

PROPOSED LAND USE

The 35-acre property is zoned PUD RR-5 is located. The land-use application is for eight lots for single-family homes.

SITE ACCESS

The site access is proposed to Winslow Drive approximately 1,100 feet north of Peregrine Way (centerline distance). This location is about 840 feet south of Saxton Hollow Road in Cathedral Pines. A copy of the site plan is attached for reference. The two subdivision streets are called Hamptonshire Point and Sterling Manor Heights. These are proposed to be private streets.

Winslow Drive is a Rural Local roadway extending north from Peregrine Way about 1,900 feet to Saxton Hollow Road. The posted speed limit along this paved road is 25 miles per hour (mph).

Intersection Spacing

Winslow Drive is a Rural Local roadway. The proposed subdivision access/entry street (Hamptonshire Point) intersection with Winslow Drive would be at least 840 feet from the nearest intersection. This spacing along Winslow Drive would meet the *ECM* minimum intersection spacing of 330 feet for Rural Local roadways.

The intersection spacing along Hamptonshire Point between Winslow Drive and Sterling Manor Heights is proposed at 300 feet.

SIGHT DISTANCE

Entering Sight Distance

Intersection entering sight distance at the proposed Hamptonshire Point/Winslow Drive meet sight-distance requirements in *ECM* Table 2-21. The following are the existing sight-distance measurements. These measurements were conducted in the field by LSC. The measurements were taken from a driver's eye height of 3.5 feet to an approaching vehicle height of 3.5 feet.

1. Greater than 600 feet looking south from Hamptonshire Point
2. Greater than 400 feet looking north from Hamptonshire Point

Please refer to the attached entering sight-distance exhibit for details. The lines of sight for the access point intersection will need to be kept clear of any sight-distance obstructions. This includes landscaping, signage, etc. proposed for the residential development.

Stopping Sight Distance to Downstream Intersection

Stopping sight distance along Winslow Drive approaching Hamptonshire Point meets stopping sight-distance requirements in *ECM* Table 2-17 (or 2-18 for grades over 3%). The exhibit shows the stopping sight-distance on the profile plan sheet. This assumes the driver's eye height of an approaching vehicle at 3.5 feet to a height of 0.5 feet above the road (conservative for intersection stopping sight distance to a downstream intersection, as a downstream object height of 3.5 feet at the center of each intersection is used for this application).

TRIP GENERATION ESTIMATE

The trip-generation estimates for this proposed development are based on nationally published trip-generation rates from *Trip Generation, 11th Edition, 2021* by the Institute of Transportation Engineers (ITE). Table 1 shows the results of the trip-generation estimates.

The development is expected to generate about 75 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, which generally occurs for one hour between 6:30 a.m. and 8:30 a.m., about 1 vehicle would enter and 4 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 p.m. and 6:15 p.m., about 5 vehicles would enter and 3 vehicles would exit the site.

"LINK LOS" FOR WINSLOW DRIVE

Winslow Drive is a Rural Local, paved roadway. The *ECM* design ADT for a "Rural Local" roadway is 750 vehicles per day (vpd) average daily traffic (ADT). Given the area road network, it is unlikely that the area buildout traffic volume, including this project, would exceed 750 vpd ADT on Winslow Drive.

EVALUATION AGAINST ECM APPENDIX B

The criteria under *Engineering Criteria Manual (ECM)* section B.1.2.D "No TIS Required" is met. Please refer to the attached worksheet.

DEVIATIONS AND WAIVERS

A **deviation request** has been included with the resubmittal of this application. This deviation request is for intersection spacing and a few other geometric/roadway design elements on Hamptonshire Point.

A **waiver** to section 8.4.4.C of the El Paso County ***Land Development Code*** has also been included with the resubmittal of this application. Section 8.4.4.C reads: *Public Roads Required. Divisions of land, lots, and tracts shall be served by public roads.* The request is to allow the two subdivision roadways, Hamptonshire Point and Sterling Manor Heights, to be private instead of public roads.

COUNTY ROAD IMPROVEMENT FEE PROGRAM

This project will be required to participate in the El Paso County Road Improvement Fee Program. The applicant will select the "Opt-out" option (no PID) and would pay the "Full Fee" amount at building permit. The current (2019) fee amount associated with this option is **\$3,850** per dwelling unit (subject to change). Based on 8 lots, the total building permit fee for this plat would be \$28,640.

* * * * *

Please contact me if you have any questions.

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E.
Principal

JCH:jas

Enclosures: Table 1
ECM Appendix B – “No TIS Required” Worksheet
Site Plan Exhibit
Sight Distance Exhibits

Table 1

Table 1
Trip Generation Estimate
Estates at Cathedral Pines

Land Use Code	Land Use Description	Trip Generation Units	Trip Generation Rates ⁽¹⁾						Total Trips Generated			
			Average Weekday Traffic	Morning Peak Hour		Afternoon Peak Hour		Average Weekday Traffic	Morning Peak Hour		Afternoon Peak Hour	
				In	Out	In	Out		In	Out		
210	Single-Family Detached Housing	8 DU ⁽²⁾	9.43	0.18	0.52	0.59	0.35	75	1	4	5	3
Notes: (1) Source: "Trip Generation, 11th Edition, 2021" by the Institute of Transportation Engineers (ITE) (2) DU = dwelling unit												
Source: LSC Transportation Consultants, Inc.											2/28/2023	

ECM Appendix B – “No TIS Required” Worksheet



ECM Appendix B – “No TIS Required” Worksheet

Estates at Cathedral Pines

ECM Section B.1.2.D. No TIS Required

No TIS is required if all of the criteria below are satisfied:

☐ **Vehicular Traffic:**

- ☐ (1) Daily vehicle trip-end generation is less than 100 or the peak hour trip generation is less than 10;
- ☐ (2) There are no additional proposed minor or major roadway intersections on major collectors, arterials, or State Highways;
- ☐ (3) the increase in the number of vehicular trips does not exceed the existing trip generation by more than 10 peak hour trips or 100 daily trip ends;
- ☐ (4) The change in the type of traffic to be generated (i.e., the addition of truck traffic) does not adversely affect the traffic currently planned for and accommodated within, and adjacent to, the property;
- ☐ (5) acceptable LOS on the adjacent public roadways, accesses, and intersections will be maintained;
- ☐ (6) no roadway or intersection in the immediate vicinity has a history of safety or accident Problems [LSC is not aware of any problems]; and
- ☐ (7) there is no change of land use with access to a State Highway.

☐ **Pedestrian Traffic:** Paved pedestrian facilities exist or will be constructed on, or adjacent to, the site; or, the proposed use will not generate any new pedestrian traffic.

☐ **Bicycle Traffic:** Paved bicycle lanes or paths exist or will be constructed on, or adjacent to, the site; or, the proposed use will not generate any new bicycle traffic.

Site Plan Exhibit



A STATEMENT ESTABLISHING THE PURPOSE AND INTENT OF THE PUD ZONING DISTRICT
In maintaining consistency with the zoning of surrounding properties, this development shall be a PUD. Further, the lot sizes are of similar area to those neighboring the development. PUD zoning allows for the accommodation of lot sizes sought, while taking into account those natural features within the property, and minimizing developmental impact on the environment therein.

Authority This PUD is authorized by Chapter 4 of the El Paso County Land Development Code, adopted pursuant to the Colorado Planned Unit Development Act of 1972, as amended.

Applicability The provisions of this PUD shall run with the land. The landowners, their successors, heirs or assigns shall be bound by this Development Plan, as amended and approved by the Planning and Community Development Department Director or Board of County Commissioners.

Adoption The adoption of this development plan shall evidence the findings and decisions of the El Paso County Board of County Commissioners that this Development Plan for Estates at Cathedral Pines is in general conformity with the El Paso County Master Plan, El Paso County Policy Plan and applicable Small Area Plan(s); is authorized under the provision of the El Paso County Land Development Code; and that the El Paso County Land Development Code and this development plan complies with the Colorado Planned Unit Development Act of 1972, as amended.

The provisions of this Development Plan shall prevail and govern the development of Estates at Cathedral Pines, provided, however, that where the provisions of this Development Plan do not address a particular subject, the relevant provisions of the El Paso County Land Development Code, as amended and in effect at the time of the PUD plan approval (or owner acknowledge the PUD changes with the Code), or any applicable resolutions or regulations of El Paso County, shall be applicable.

To further the mutual interest of the residents, occupants, and owners of the PUD and of the public in the preservation of the integrity of this development plan, the provisions of this plan relating to the use of land and the location of common open space shall run in favor of El Paso County and shall be enforceable law or in equity by the County without limitation on any power or regulation otherwise granted by law.

Where there is more than one provision within the development plan that covers the same subject matter, the provision which is most restrictive or imposes higher standards or requirements shall govern.

The total number of dwellings shown on the development plan for development within the specified planning areas is the maximum development requested for platting or construction (plus any approved density transfers). The actual number of dwellings or level of development may be less due to subdivision or Site Development Plan requirements, land carrying capacity, or other requirements of the Board of County Commissioners.

At the time of any final plat application, the applicant shall provide a summary of the development, to date, to Planning and Community Development Department, in order to assure maximum development limits are not exceeded.

The cover sheet shall include any cross reference to the ZCP or previous PUD Development Plan, including any recording references.

Floodplain statement: The parcel is within FEMA Floodplain Map number 0804100315G, effective 12/7/2018. The property is regarded as Zone X, an area of minimal flood hazard.

There shall be no direct lot access to Winslow Drive.

Easements:
Unless otherwise indicated, all side, front, and rear lot lines are hereby platted on either side with a 10 foot public utility and drainage easement unless otherwise indicated. All exterior subdivision boundaries are hereby platted with a 20 foot public utility and drainage easement. The sole responsibility for maintenance of the easements is hereby vested with the individual property owners.

LEGAL DESCRIPTION: TR IN SE4 SEC 2-12-66 DES AS FOLS: BEG AT SW COR OF SE4 SEC 2, TH N 00°49'17" 1583.77 FT, N 89°17'56" E 965.20 FT, S 00°49'17" E 1583.77 FT TO A PT ON S LN OF SD SE4, TH S 89°17'56" W 965.20 FT TO POB, TOG WITH INGRESS-EGRESS EASEMENT DES BY REC #200027778. EL PASO COUNTY, COLORADO

TAX SCHEDULE NUMBER: 6200000411

PROPOSED LAND USE: SINGLE-FAMILY RESIDENTIAL
AND ACCESSORY DWELLING UNITS

EXISTING ZONING: RR-5 PROPOSED ZONING: PUD

EXISTING LAND USE: VACANT

PROPOSED DENSITY: 228 DU/AC (Gross), .276 DU/AC (Net)

TOTAL NUMBER OF DWELLING UNITS: 8

SETBACKS: 25' FRONT, 25' SIDE AND 25' REAR

WIDTH AT SETBACK LINE: 200'

MAX. LOT COVERAGE: 25%

MAXIMUM HEIGHT: 30'

VICINITY MAP:



PARCEL AREA: 35.09 ACRES

TAX STATUS: TAXABLE

OPEN SPACE AREAS: Tract "A": 1.64 acres

Tract "B": 0.86 acres

Open Space Easement: 2.30 acres

Total area: 4.80 acres

OPEN SPACE PERCENTAGE: 13.6%

OWNER NAME AND ADDRESS:

GREGG & ELAINE CAWLFIELD
VILLAGREE DEVELOPMENT LLC
5710 VESSEY RD
COLORADO SPRINGS, COLORADO 80908
PHONE: (719) 413-6900
EMAIL: gregg@villagreedev.com
Elaine@villagreedev.com

APPLICANT:

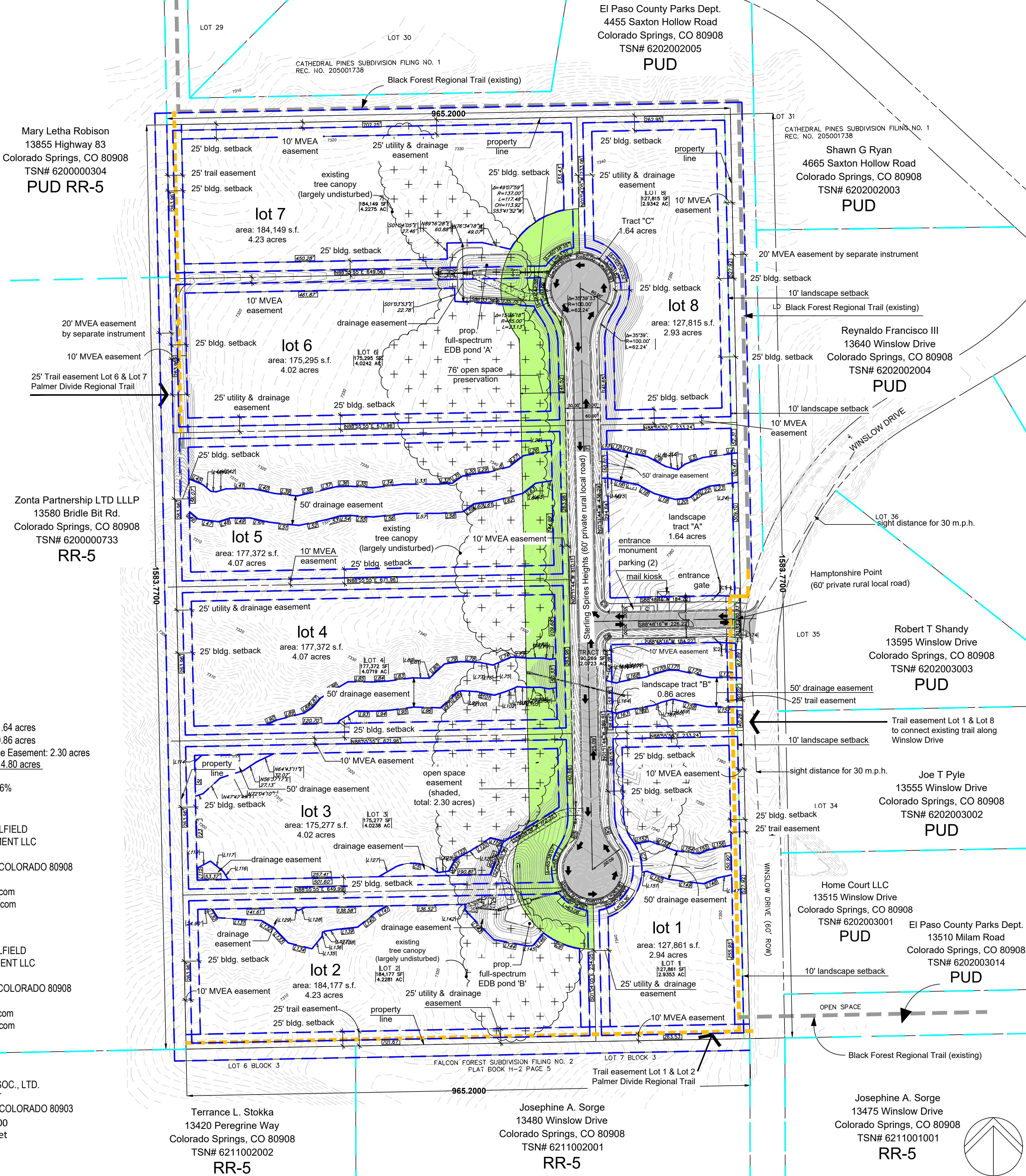
GREGG & ELAINE CAWLFIELD
VILLAGREE DEVELOPMENT LLC
5710 VESSEY RD
COLORADO SPRINGS, COLORADO 80908
PHONE: (719) 413-6900
EMAIL: gregg@villagreedev.com
Elaine@villagreedev.com

PLAN PREPARER:

WILLIAM GUMAN & ASSOC., LTD.
731 N. WEBER STREET
COLORADO SPRINGS, COLORADO 80903
PHONE: (719) 633-9700
EMAIL: bill@guman.net

ESTATES AT CATHEDRAL PINES PUD DEVELOPMENT PLAN PRELIMINARY PLAN

A PORTION OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF
SECTION 2, TOWNSHIP 12 SOUTH, RANGE 66 WEST
OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO



A "Soils and Geology Study, Winslow Drive, Estates at Cathedral Pines, El Paso County, Colorado" prepared by RMG - Rocky Mountain Group (July 21, 2023), indicated geologic hazards were not found to be present at this site. Potential geologic constraints were found onsite and include: potentially expansive soils/bedrock, potentially compressible soils, hard bedrock, seasonally shallow groundwater and potentially seasonally wet (psw) areas. The areas indicated as psw are identified as "No Build Areas".
The study concluded that the proposed development is feasible, and the geologic conditions identified are typical for the Front Range region of Colorado. Appropriate planning, engineering and suitable construction practices will be implemented to mitigate geologic conditions in areas where avoidance is not possible.

Line Legend

Setback Line ———
Black Forest Regional Trail (existing) ———
Proposed Trail Connections ———
Adjacent Property Lines ———
10' Landscape Setback ———
Property Lines ———
Easement Line ———
Open Space Easement ———
Tract C ———
For PUD

LAND OWNER CERTIFICATION

IN WITNESS WHEREOF: _____
HAS EXECUTED THESE PRESENTS THIS _____ DAY OF _____, 20____
A.D., A COLORADO LIMITED LIABILITY COMPANY

AUTHORIZED AGENT, MANAGER

STATE OF COLORADO
COUNTY OF _____

SIGNED BEFORE ME ON _____, 20____
BY _____ (NAME(S) OF INDIVIDUAL(S) MAKING STATEMENT).

Clerk and Recorder
(NOTARY'S OFFICIAL SIGNATURE)

(TITLE OF OFFICE)
I hereby certify that this instrument was
filed in my office on this _____ day
of _____, 20____, and was
recorded at Reception No. _____
of the records of El Paso County

Surveyor's Certificate
El Paso County Clerk and Recorder

I, _____, a duly registered Professional Land Surveyor in the
State of Colorado, do hereby certify that this plat truly and correctly represents the
results of a survey made on _____, by me or under my direct
supervision and that all monuments exist as shown hereon; that mathematical closure
errors are less than 1:10,000; and that said plat has been prepared in full compliance
with all applicable laws of the State of Colorado dealing with monuments, subdivision,
or surveying of land and all applicable provisions of the El Paso County Land
Development Code.

I attest the above on this _____ day of _____, 20____.

Surveyor's Name, (Signature) _____ Date _____
Colorado registered PLS # _____

Board of County Commissioners Certificate

This plat for _____ was approved for filing by the El Paso
County, Colorado Board of County Commissioners on the _____ day of _____,
20____, subject to any notes specified hereon and any conditions included in the
resolution of approval. The dedications of land to the public (streets, tracts, easements)
are accepted, but public improvements thereon will not become the maintenance
responsibility of El Paso County until preliminary acceptance of the public improvements
in accordance with the requirements of the Land Development Code and Engineering
Criteria Manual, and the Subdivision Improvements Agreement.

Chair, Board of County Commissioners _____ Date _____

TITLE VERIFICATION:
STEWART TITLE CO. dba UNIFIED TITLE
1710 JET STREAM DR., STE 200
COLORADO SPRINGS, COLORADO 80921
PHONE: (719) 578-5900
EMAIL: Lsimon@unifiedtitle.com

BOARD OF COUNTY COMMISSIONERS:
BOCC
200 SOUTH CASCADE AV., STE 100
COLORADO SPRINGS, COLORADO 80903
PHONE: (719) 520-7276
EMAIL: carctb@elpasoco.com

PCD DIRECTOR
MEGGAN HERINGTON
2880 INTERNATIONAL CIRCLE, STE 110
COLORADO SPRINGS, COLORADO 80910
PHONE: (719) 520-7941
EMAIL: megganherington@elpasoco.com

SURVEYOR:
JR ENGINEERING
5475 TECH CENTER DR., STE 235
COLORADO SPRINGS, COLORADO 80919
PHONE: (719) 593-2593
EMAIL: info@jrengineering.com

CLERK AND RECORDER
STEVE SCHLEIKER
1675 W. GARDEN OF THE GODS RD., STE 2201
COLORADO SPRINGS, COLORADO 80907
PHONE: (719) 520-6202
EMAIL: steveschleiker@elpasoco.com

Josephine A. Sorge
13475 Winslow Drive
Colorado Springs, CO 80908
TSN# 6211001001
RR-5

Josephine A. Sorge
13480 Winslow Drive
Colorado Springs, CO 80908
TSN# 6211002001
RR-5

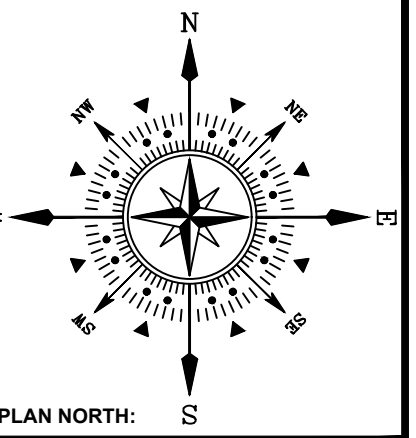
Terrance L. Stokka
13420 Peregrine Way
Colorado Springs, CO 80908
TSN# 6211002002
RR-5

0' 100' 200' 300'
SCALE: 1" = 100' - 0"

signature block

William Guman & Associates, Ltd.
LANDSCAPE ARCHITECTURE
731 North Weber Street
Colorado Springs, CO 80903
(719) 633-9700
www.GumanLtd.com
bill@guman.net

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ESTATES AT CATHEDRAL PINES
WINSLOW DRIVE
BLACK FOREST, CO 80908
PROJECT NAME:
PROJECT ADDRESS:
PROJECT DESCRIPTION:
DATE: 12/13/2022
DESIGNED: GEM
CHECKED: WFG

REVISIONS:
DATE: BY: DESCRIPTION:
05/17/2024 GEM ADDRESS COUNTY COMMENTS

PLAN SCALE: 1" = 100' (OR AS NOTED ON PLAN)

SHEET TITLE: PUD
DEVELOPMENT
PLAN

SHEET NO.
1
1 of 2 SHEETS

FILE NO.
PUDSP2210

All property owners are responsible for maintaining proper storm water drainage in and through their property. Public drainage easements as specifically noted on the plat shall be maintained by the individual lot owners unless otherwise indicated. Homebuilders are responsible to ensure proper drainage around structures, including elevations of foundations and window wells in relation to side-lot drainage easements and swales. Homeowners shall not change the grade of the lot or drainage swales within said easements, as constructed by the builder, in a manner that would cause adverse drainage impacts to properties. Structures, fences, materials or landscaping that could impede the flow of runoff shall not be placed in drainage easements.

No driveway shall be established unless an access permit has been granted by El Paso County.

Tracts A& B shall be utilized as drainage tract, open space and pedestrian access. Ownership and maintenance of said Tracts A&B shall be vested to The Estates at Cathedral Pines Homeowners Association.

Tract C shall be utilized as a private road. Ownership and maintenance of said Tract C shall be vested to Estates at Cathedral Pines Homeowners Association.

The subdivider(s) agree on behalf of him/herself and any developer of builder successors and assignees that subdivider and/or said successors and assigns shall be required to pay traffic impact fees in accordance with the El Paso County Road Impact Fee Program (Resolution No. 19-471), or any amendments thereto, at or prior to the time of building permit submittals. The fee obligation, if not paid at final plat recording, shall be documents on all sales documents and in plat notes to ensure that a title search would find the fee obligation before sale of the property.

Individual wells are the responsibility of each property owner. Permits for individual wells must be obtained from the State Engineer, who by law, has the authority to set conditions for the issuance of these permits.

Sewage treatment is the responsibility of each property owner. The El Paso County Department of Health and Environment must approve each system and, in some cases, the Department may require an engineer designed system prior to permit approval. These systems may cost more to design, install, and maintain.

Except as otherwise noted on the Preliminary Plan, individual lot purchasers are responsible for constructing driveways, including necessary drainage culverts per Land Development Code 6.3.3.C2 and 6.2.2.C.3. Due to their length, some of the driveways must be approved by the Fire District.

The private roads as shown on this plan will not be maintained by El Paso County until and unless the streets are constructed in conformance with El Paso County standards in effect at the date of the request for dedication and maintenance.

Unless otherwise indicated, all side, front and rear lot lines are platted on either side with a 10 foot public utility and drainage easement. All exterior subdivision boundaries are platted with a 20 foot public utility and drainage easement. The sole responsibility for maintenance of these easements is vested with the individual property owners.

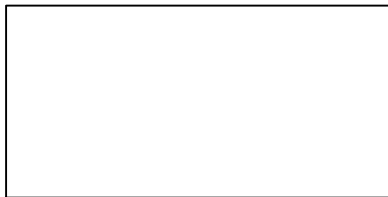
The open space easement crossing through Lots 2 through 7 shall be maintained by the individual lot owners.

ESTATES AT CATHEDRAL PINES

PUD DEVELOPMENT PLAN

PRELIMINARY PLAN

A PORTION OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF
SECTION 2, TOWNSHIP 12 SOUTH, RANGE 66 WEST
OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO



signature block



William Guman & Associates, Ltd.

LANDSCAPE ARCHITECTURE

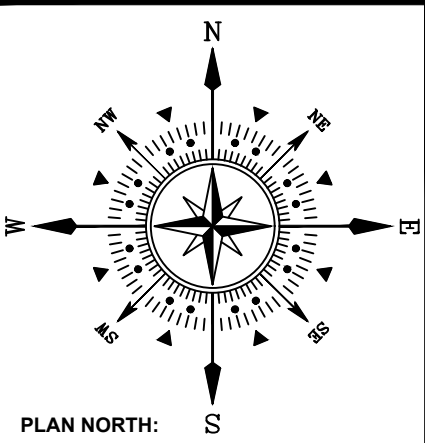
731 North Weber Street
Colorado Springs, CO 80903
(719) 633-9700

www.GumanLtd.com
bill@guman.net

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ONLY DRAWINGS BEARING THE OFFICIAL STAMP OF THE LICENSED LANDSCAPE ARCHITECT IN THE STATE OF COLORADO ARE VALID FOR CONSTRUCTION PURPOSES.



PLAN NORTH:

ESTATES AT CATHEDRAL PINES

WINSLOW DRIVE

BLACK FOREST, CO 80908

PROJECT NAME:

PROJECT ADDRESS:

PROJECT DESCRIPTION:

DATE:	12/13/2022
DESIGNED:	GEM
CHECKED:	WFG

REVISIONS:		
DATE:	BY:	DESCRIPTION:
05/17/2024	GEM	ADDRESS COUNTY COMMENTS
NOTES:		

PLAN SCALE: 1" = 1000' (OR AS NOTED ON PLAN)

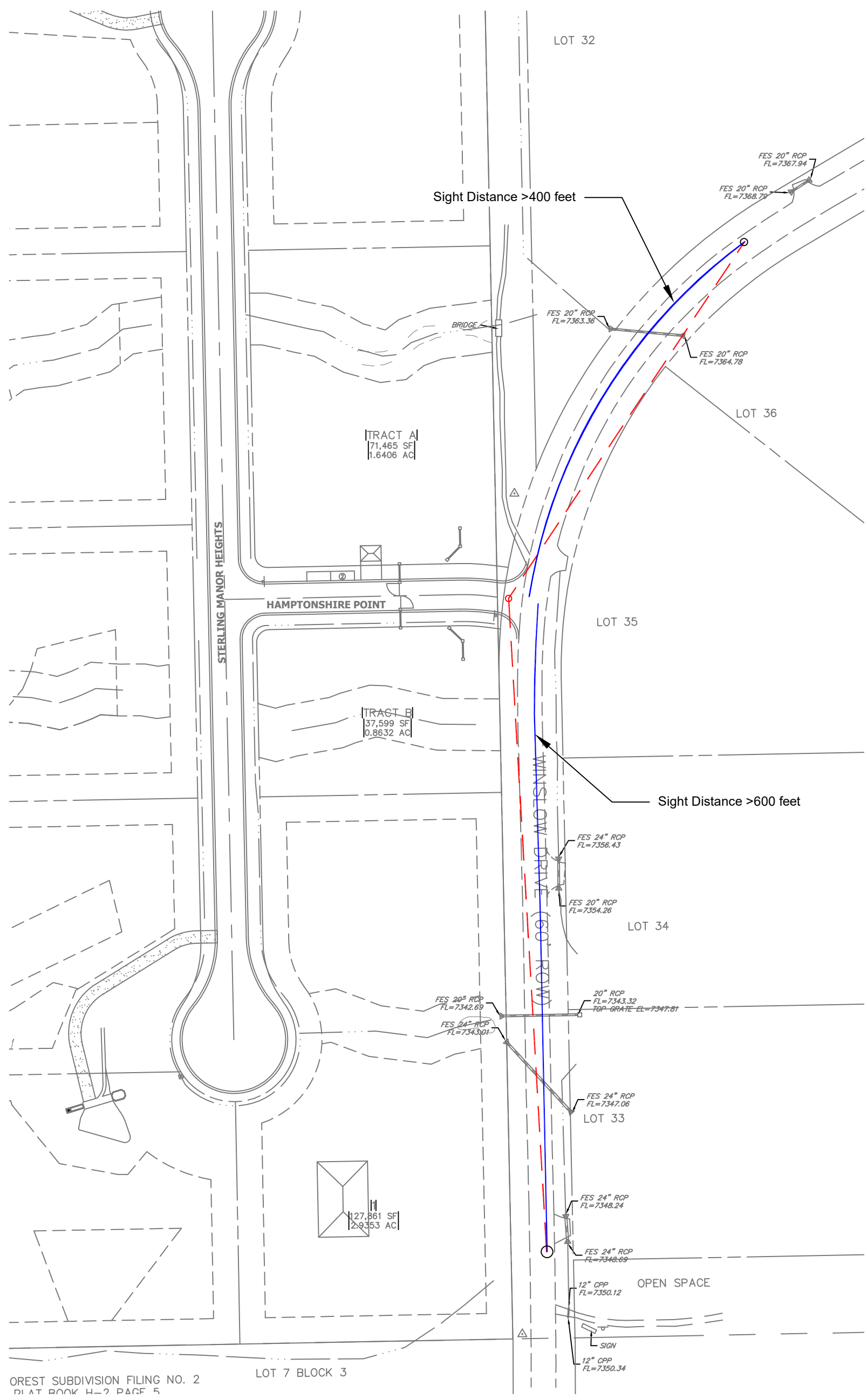
SHEET TITLE: PUD
DEVELOPMENT
PLAN

SHEET NO.

2
2 OF 2 SHEETS

FILE NO.
PUDSP2210

Sight Distance Exhibits



OREST SUBDIVISION FILING NO. 2
DIAT BOOK H-2 PAGE 5

LOT 7 BLOCK 3

ECM Prescribed Intersection Sight Distance for 30 mph Design
Speed is 335'

- Line-of-Sight for Entering Sight Distance
- Entering Sight Distance



Entering Sight Distance Exhibit

Estates at Cathedral Pines (LSC# S224150)

Exhibit 1

ESTATES AT CATHEDRAL PINES

STOPPING SIGHT DISTANCE

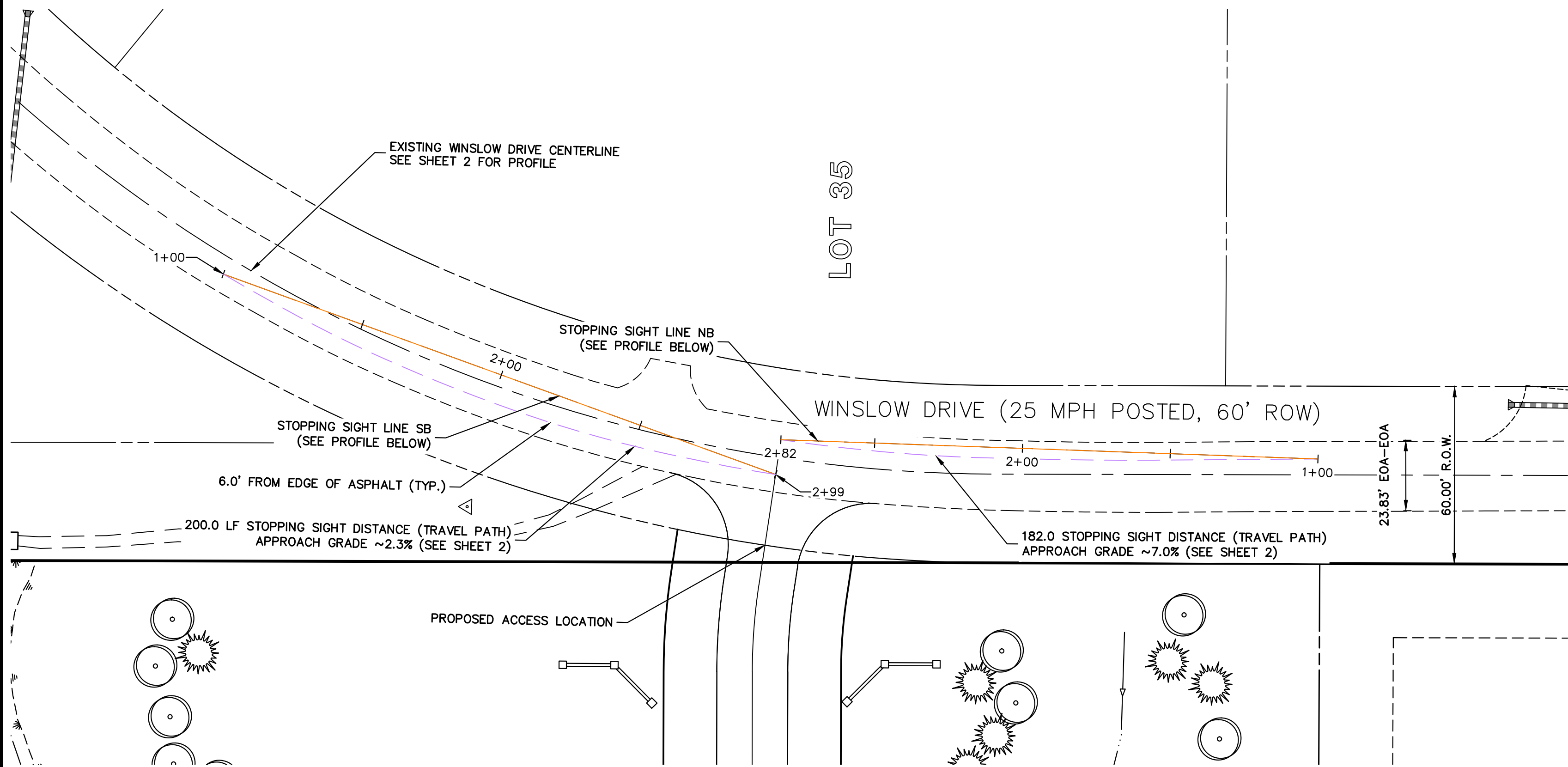


Table 2-17. Stopping Sight Distances

Design Speed (MPH)	Brake Reaction Distance (feet) ¹	Braking Distance on Level (feet)	Stopping Sight Distance	
			Calculated (feet)	Design (feet)
25	91.9	60.0	151.9	155
30	110.3	86.4	196.7	200
40	147.0	153.6	300.6	305
50	183.8	240.0	423.8	425
60	220.5	345.5	566.0	570
70	257.3	470.3	727.6	730

¹ Brake reaction distance predicted on a time of 2.5 seconds; deceleration rate of 11.2 feet/second used to determine calculated sight distance.

Table 2-18. Stopping Distance at Grade

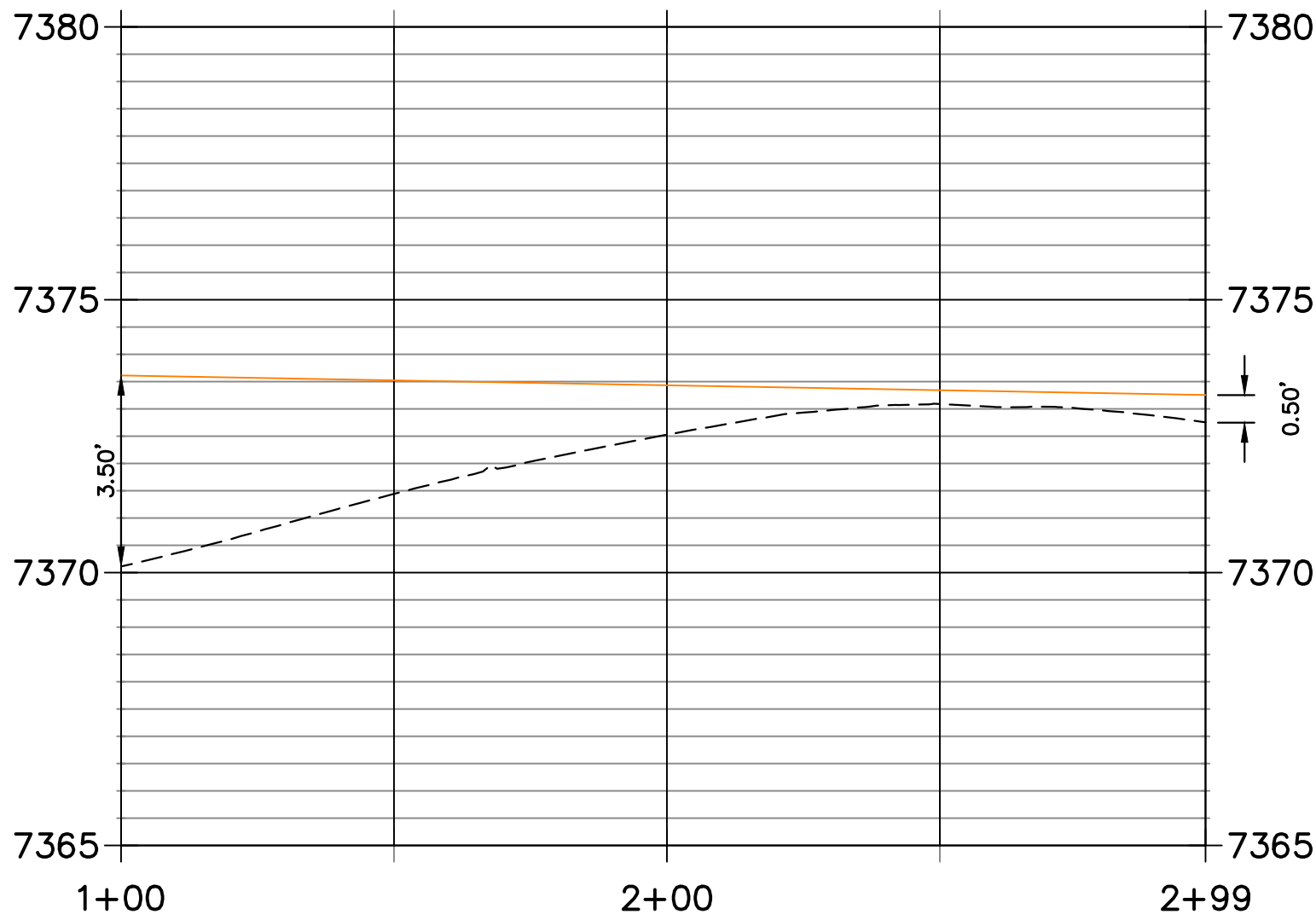
EXPAND

Design Speed (MPH)	Downgrades			Design Speed (MPH)	Upgrades		
	Stopping Distance (feet)				Stopping Distance (feet)		
	3%	6%	9%		3%	6%	9%
25	158	165	173	25	147	143	140
30	205	215	227	30	200	184	179
40	315	333	354	40	289	278	269
50	446	474	507	50	405	388	375
60	598	638	686	60	538	515	495
70	771	825	891	70	690	658	631

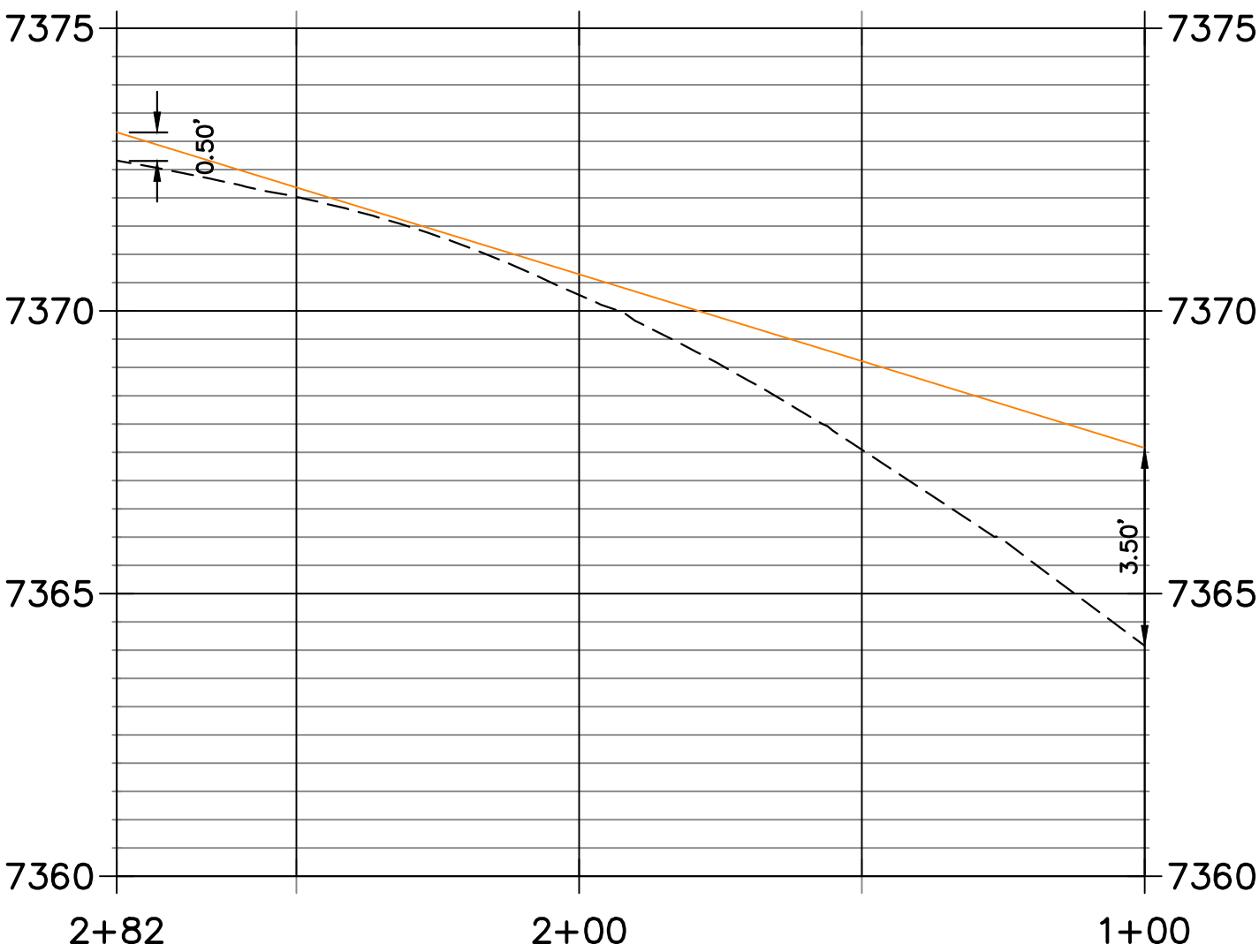
NOTES

- POSTED SPEED ON WINSLOW DRIVE IS 25 MPH. A DESIGN SPEED OF 30 MPH WAS USED IN SIGHT DISTANCE ANALYSIS.

STOPPING SIGHT SB PROFILE STA 1+00.00 TO 2+98.67



STOPPING SIGHT NB PROFILE STA 1+00.00 TO 2+81.77



HORIZONTAL
ORIGINAL SCALE: 1" = 30'
VERTICAL
ORIGINAL SCALE: 1" = 3'

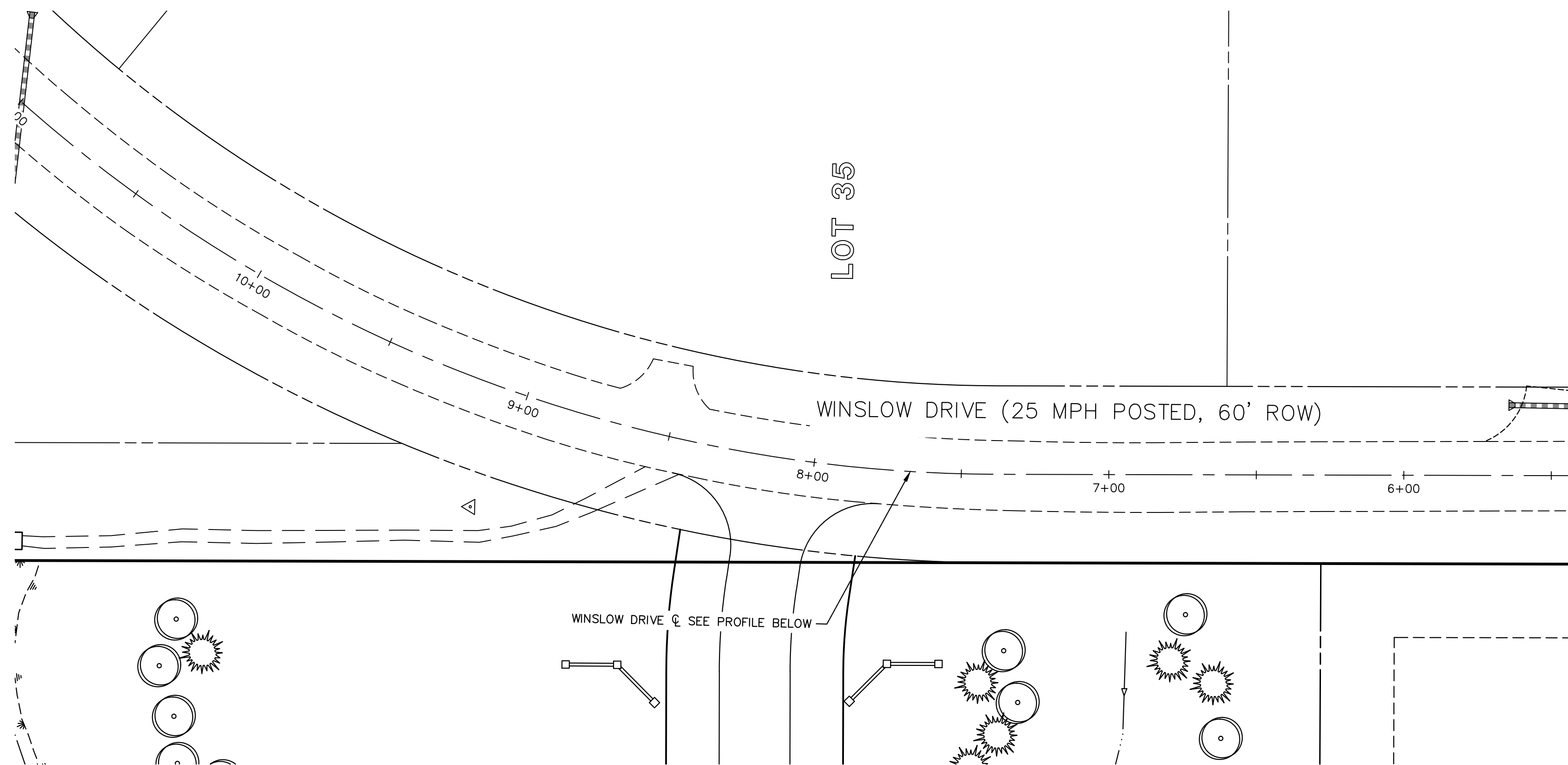
STOPPING SIGHT DISTANCE
ESTATES AT CATHEDRAL PINES
JOB NO. 25260.00
8/22/2023
SHEET 1 OF 3



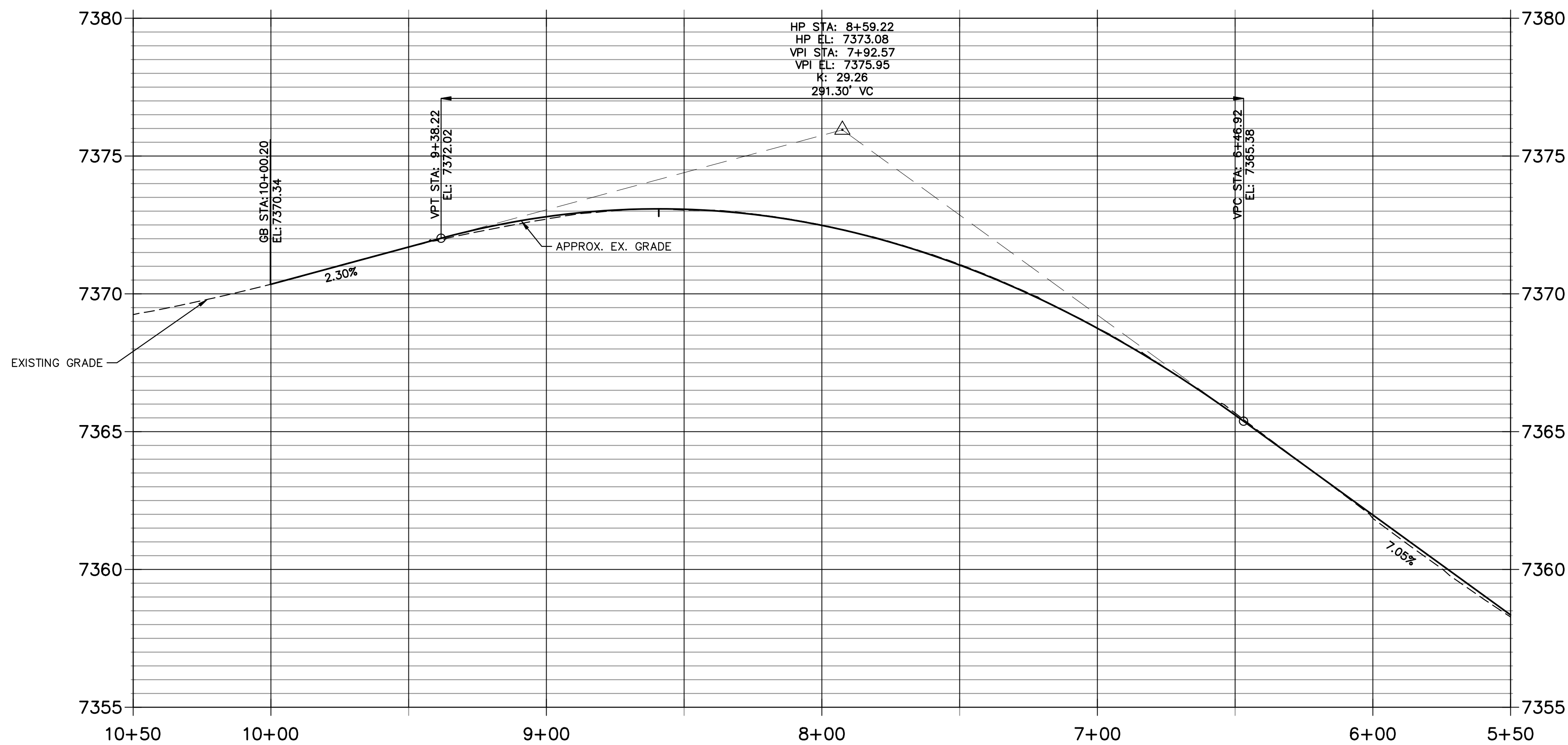
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ESTATES AT CATHEDRAL PINES

STOPPING SIGHT DISTANCE



**WINSLOW DR PROFILE
STA 5+50.00 TO 10+50.00**



HORIZONTAL
ORIGINAL SCALE: 1" = 30'
VERTICAL
ORIGINAL SCALE: 1" = 3'

STOPPING SIGHT DISTANCE
ESTATES AT CATHEDRAL PINES
JOB NO. 25260.00
8/18/2023
SHEET 1 OF 1



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