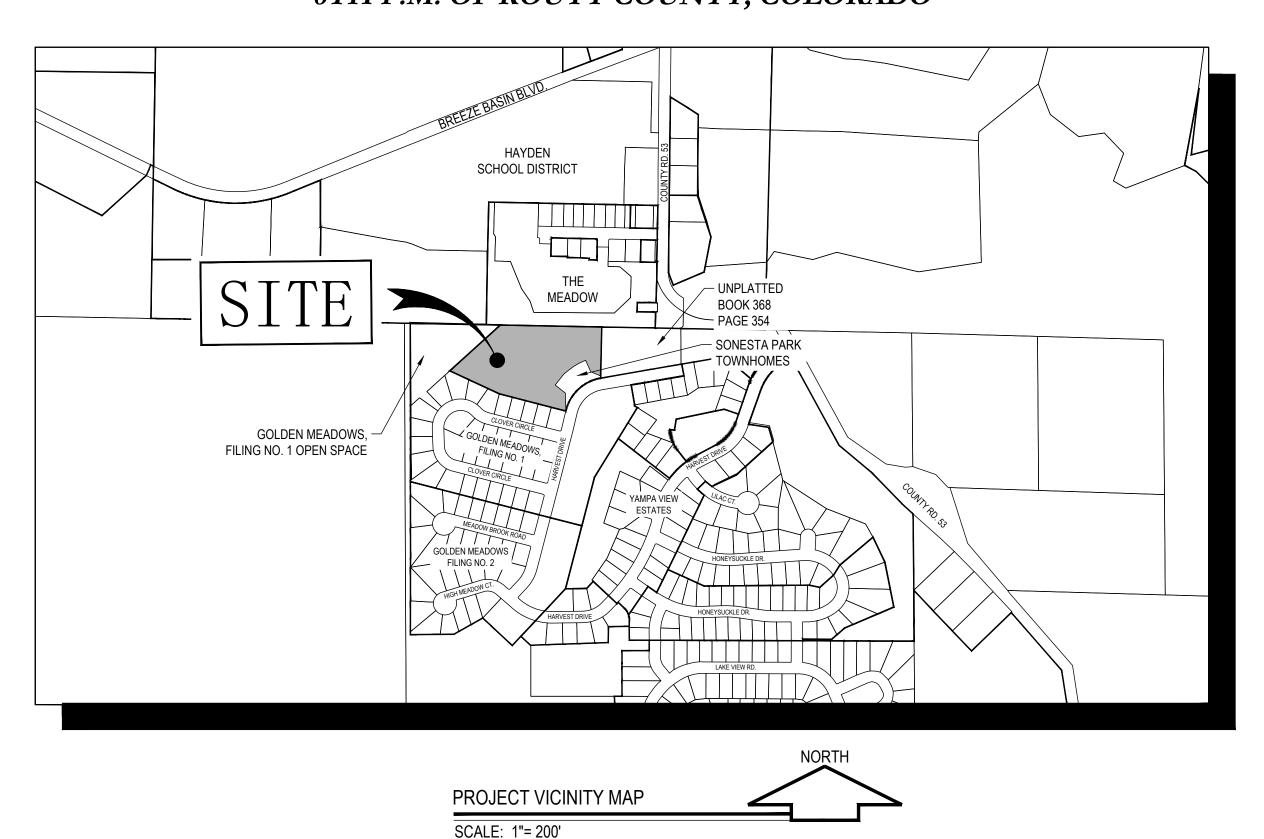
LEGEND	EXISTING	PROPOSED
PROPERTY BOUNDARY	N56°34'55"	N56°34'55"
SECTION LINE	340	340
LOT BOUNDARY		
EASEMENT		
SETBACK		
EDGE OF ASPHALT		
CENTERLINE OF ROAD		
CURB CURB FLOWLINE		
	5004	5004
1 FT CONTOUR	— — 5281 — —	5281
5 FT CONTOUR	— — 5280 — —	5280
EDGE OF GRAVEL		
CENTER LINE OF DITCH	$\rightarrow - \cdots \rightarrow - \cdots \rightarrow - \cdots -$	<i>→→→-</i>
WATER LINE	—xw—xw—xw—	www
CURB STOP, GATE VALVE, FIRE HYDRANT		
TUDILET DI OCK		
THRUST BLOCK SEWER LINE	xsxsxsxs	ssss
MANHOLE AND CLEANOUTS	(S) ((S) (
ELECTRICAL - UNDERGROUND		
ELECTRICAL - OVERHEAD	XE XE XE XE	— UGE — UGE — — OHE — — OHE — — — OHE — OH
ELECTRICAL - OVERHEAD - HIGH VOLTAGE	HVE	HVE HVE HVE
ELECTRICAL-PRIMARY	XEXEXEXE	——E——E——E——
FIBER OPTIC	F0 — F0 — F0 —	
TELEPHONE	XTXTXTXT	
UNDERGROUND	UGT UGT	ugt ugt
UTILITY PEDESTALS		
UTILITY POLE		
GAS	— xg—— xg—— xg——	GAS
FENCE	— x — x — x — x —	— x —— x —— x —
WOODEN FENCE OR HANDRAIL		
EDGE OF CONCRETE		
DECK		
BUILDING		
OVERHANG		
PERIMETER DRAIN	— st — st —	— st — st —
WALL		
VEGETATION OUTLINE		
STORM INLET		
CULVERT WI/ FLARED END SECTIONS (OUTLETS)		
ASPHALT		
CONCRETE		
GRAVEL/SOFT SURFACE		
ROCK/RIP RAP		
SNOW STORAGE		

ABBREVIATIONS:

			
\FF	ABOVE FINISHED FLOOR	INV	INVERT
λP	ANGLE POINT	LF	LINEAL FEET
APR	APPROXIMATE	LP	LOW POINT
\ \	ASPHALT	MAX	MAXIMUM
		MIN	MINIMUM
BFF	BASEMENT FINISH FLOOR	MOD	MODULE
BVC	BEGIN VERTICAL CURVE	NG	NATURAL GROUND
3W	BOTTOM OF WALL	NO	NUMBER
) N	CURB	NTS	NOT TO SCALE
)L	CENTERLINE	O/S	OFFSET
CLNG	CEILING	OHD	OVERHEAD DOOR
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
0/0	CLEAN OUT	PED	PEDESTAL
CONC	CONCRETE	PI	POINT OF INTERSECTION
CNR	CORNER	PL	PROPERTY LINE
CR	CURB RETURN	PR	PROPOSED
CS	CURB STOP	PT	POINT
)	DEPTH	PVC	POINT OF VERTICAL CURVE
)	DRAIN INLET	PVC	POLYVINYL CHLORIDE PIPE
)IP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
MH	DRAINAGE MANHOLE	RD	ROAD
PRN	DRAIN	R	RADIUS
)T	DITCH	RO	ROUGH OPENING
)W	DRIVEWAY	ROW	RIGHT-OF-WAY
Α	EACH	RW	RETAINING WALL
G	EXISTING GRADE	SQFT	SQUARE FEET
LEV	ELEVATION	SMH	SEWER MANHOLE
NGR	ENGINEER	SS	SANITARY SEWER
ΘA	EDGE OF ASPHALT	STA	STATION
OW	EDGE OF WALK	STRUCT	STRUCTURAL
Χ	EXISTING	SW	SIDEWALK
ES	FLARED END SECTION	TB	THRUST BLOCK
FE	FINISH FLOOR ELEVATION	TBD	TO BE DETERMINED
G:	FINISH GRADE	TBR	TO BE REMOVED
H	FIRE HYDRANT	TBW	TO BE NEMOVED TOP BACK OF WALK
:L	FLOW LINE	TEL	TELEPHONE
Ŧ	FOOT OR FEET	TOP	TOP OF PIPE
GFE .	GARAGE FFE		
₿B	GRADE BREAK	TW	TOP OF WALL
SYP	GYPSUM	TYP	TYPICAL
łC	HANDICAP RAMP	VOL VP	VOLUME
iP	HIGH POINT		VALLEY PAN
 V	INLET	W	WIDTH
		WL W/	WATERLINE
		W/	WITH

CIVIL PERMIT PLANS for SONESTA PARK

LOCATED IN THE NE ¹/₄ OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 88 WEST, 6TH P.M. OF ROUTT COUNTY, COLORADO



PROJECT CONTACT LIST

PROJECT OWNER

HEALTH CARE MANAGEMENT LLC. EMAIL: leif@denversportslab.com

PROJECT ARCHITECT WEFING DESIGN STUDIO

OFFICE: (312) 583-7087 ATTN: Erich Wefing EMAIL: erich@wds-ad.com Fine Arts Building, Suite 512 Chicago, IL 60605

CIVIL ENGINEER

FOUR POINTS SURVEYING AND ENGINEERING ATTN: Walter Magill, PE 410 South Lincoln Ave, Suite 15 P.O. Box 775966 Steamboat Springs, CO 80487

SHEET INDEX

No. DATE

PERMIT PLANS PREPARED BY

FOUR POINTS SURVEYING &

IF THIS DRAWING IS PRESENTED IN A FORMAT OTHER THAN 24" X 36", TH GRAPHIC SCALE SHOULD BE UTILIZE

ENGINEERING

DATE: 10-02-2025

DESIGN BY: DSC

REVIEW BY: WNM

JOB #: 1409-002 DRAWN BY: DSC

SHEET NUMBER	SHEET TITLE	PLAN LIS
C1	COVER SHEET	SHEET 1 OF
C2	EXISTING CONDITIONS PLAN	SHEET 2 OF
C3	OVERALL SITE PLAN/GRADING PLAN	SHEET 3 OF
C4	STORMWATER PROFILES	SHEET 4 OF
C5	SANITARY PLAN AND PROFILE	SHEET 5 OF
C6	WATER PLAN AND PROFILE	SHEET 6 OF
C7	ROADWAY PLAN AND FIRE TURNING ANALYSIS	SHEET 7 OF
C8	ROADWAY PROFILE AND SECTIONS VIEWS	SHEET 8 OF
C9	GENERAL CIVIL DETAILS	SHEET 9 OF

REVISIONS

OFFICE: (970) 871-6772

EMAIL: walterm@fourpointsse.com

INT

SURVEYING | ENGINEERING

CELL: (970) 819-1161

UTILITY CONTACT LIST

WATER AND SANITARY SEWER

TOWN OF HAYDEN PUBLIC WORKS 178 WEST JEFFERSON AVE. CONTACT: BRYAN RICHARDS PHONE: 970-757-6002 bryan.richards@haydencolorado.org

ELECTRICAL

YAMPA VALLEY ELECTRICAL ASSOCIATION 32 10TH STREET STEAMBOAT SPRINGS, CO CONTACT: LARRY BALL

PHONE: 970-871-2264

ATMOS ENERGY

30405 DOWNHILL DRIVE STEAMBOAT SPRINGS, CO CONTACT: DON CRANE PHONE: 970-879-3223

TELEPHONE

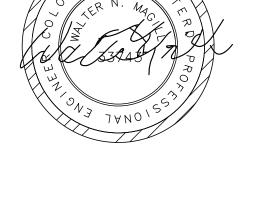
CENTURY LINK 138 7TH STREET STEAMBOAT SPRINGS, CO CONTACT: JASON SHARPE jason.sharpe@centurylink.com

CABLE TELEVISION

COMCAST 625 SOUTH LINCOLN, SUITE #205 STEAMBOAT SPRINGS, CO 80487 PHONE: CONTACT: TONY HILDRETH PHONE: 970-328-2517 tony_hildreth@comcast.com

UTILITY NOTIFICATION CENTER OF COLORADO

CALL TWO BUSINESS DAYS BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND UTILITIES 1-800-922-1987





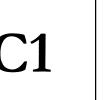
SHEET #



Four Points Surveying & Engineering 410 S. Lincoln Ave, Unit 15

P.O. Box 775966 Steamboat Springs, CO 80487 (970)-871-6772 walterm@fourpointsse.com

PHONE: 970-328-2517



GENERAL NOTES:

- 1. BENCHMARK = FOUND RED PLASTIC CAP ON #5 REBAR, ELEVATION=7369.12 IN THE SOUTHEAST PROPERTY CORNER (SEE EXISTING CONDITIONS PLAN).
- 2. EXISTING CONDITIONS SURVEYED BY FOUR POINTS SURVEYING & ENGINEERING COMPLETED ON OCTOBER 20, 2020. TOPOGRAPHY GENERATED FROM 2018 ROUTT COUNTY GIS LIDAR DATA.
- 3. TOWN OF HAYDEN PLAN REVIEW AND APPROVAL IS ONLY FOR GENERAL CONFORMANCE WITH HAYDEN TOWN MUNICIPAL CODE. THE TOWN OF HAYDEN IS NOT RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF THE DRAWINGS. DESIGN, DIMENSIONS, AND ELEVATIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE
- 4. ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.
- 5. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES. CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987 AND ANY NECESSARY PRIVATE UTILITY TO PERFORM LOCATES PRIOR TO CONDUCTING ANY
- 6. ALL INFRASTRUCTURE CONSTRUCTION AND RELATED WORK SHALL CONFORM TO THE TOWN OF HAYDEN STANDARD SPECIFICATIONS, LATEST REVISION.
- 7. ALL WATER AND SANITARY SEWER CONSTRUCTION AND RELATED WORK SHALL CONFORM TO THE TOWN OF HAYDEN UTILITIES STANDARD SPECIFICATIONS, LATEST EDITION.
- 8. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS REQUIRED TO PERFORM THE WORK SUCH AS RIGHT-OF-WAY PERMIT. GRADING AND EXCAVATION PERMIT. CONSTRUCTION DEWATERING PERMIT. STORM WATER QUALITY PERMIT, ARMY CORP OF ENGINEER PERMIT, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF ALL APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK. AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.
- 9. PRIOR TO ANY WORK IN THE RIGHT-OF-WAY INCLUDING STREET CUTS, CONTACT HAYDEN PLANNING DEPARTMENT FOR PERMIT REQUIREMENTS.
- 10.PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE FOR INSPECTIONS AND TESTING AT AN ADEQUATE FREQUENCY FOR THE PROJECT ENGINEER TO DOCUMENT THAT PROJECT IS CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- 11.CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- 12.CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL (SIGNS, BARRICADES, FLAGMEN, LIGHTS, ETC) IN ACCORDANCE WITH THE MUTCD, CURRENT EDITION.
- 13.CONTRACTOR MUST SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN (CSMP) AND EROSION CONTROL PLAN (ECP) FOR REVIEW AND APPROVAL BY HAYDEN PLANNING & ENGINEERING PRIOR TO START OF CONSTRUCTION. THE CSMP AND ECP MUST BE MAINTAINED ON-SITE AND UPDATED AS NEEDED TO REFLECT CURRENT CONDITIONS
- 14.THE FOLLOWING PRIVATE IMPROVEMENTS REQUIRE CONSTRUCTION OBSERVATION PER THE TOWN OF HAYDEN ENGINEERING SERVICES SPECIFICATION OR AS REQUIRED BY THE TOWN OF HAYDEN PLANNING AND ENGINEERING:
- 15.RECORD DRAWINGS ARE REQUIRED FOR: PUBLIC AND PRIVATE WATER AND SEWER.
- 16.ALL PIPE OUTFALLS REQUIRE FLARED END SECTIONS AND RIPRAP.
- 17.EXISTING ASPHALT PAVEMENT SHALL BE STRAIGHT SAW CUT WHEN ADJOINING WITH NEW ASPHALT PAVEMENT OR WHEN ACCESS TO UNDERGROUND UTILITIES IS REQUIRED. TACK COAT SHALL BE APPLIED TO ALL EXPOSED SURFACES INCLUDING SAW CUTS, POTHOLES, TRENCHES, AND ASPHALT OVERLAY. ASPHALT PATCHES IN THE RIGHT-OF-WAY SHALL BE PER TOWN OF HAYDEN SPECIFICATIONS.

GRADING:

- 1. GRADING SHALL OCCUR WITHIN THE PROPERTY LIMITS. WHERE OFF-SITE WORK IS APPROVED, WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER MUST BE OBTAINED PRIOR TO ANY OFF-SITE GRADING OR CONSTRUCTION.
- 2. VEGETATED SLOPES 3:1 AND GREATER REQUIRE SOIL STABILIZATION WITH STRAW BLANKET AT MINIMUM UPON FINAL GRADING AND SEEDING/REVEGETATION.
- 3. ADJUST RIMS OF CLEANOUTS, MANHOLES, VALVE COVERS TO FINAL GRADE.

EROSION CONTROL

- 1. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SITE MANAGEMENT PLAN (CSMP) TO HAYDEN PLANNING AND ENGINEERING FOR APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
- 2. CONTRACTOR SHALL WORK IN A MANNER THAT MINIMIZES THE POTENTIAL FOR EROSION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, INSPECTING, AND MAINTAINING ALL NECESSARY EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION AND REMOVING EROSION CONTROL WHEN PROJECT IS COMPLETE AND VEGETATION IS ESTABLISHED.
- 4. ANY AREA DISTURBED BY CONSTRUCTION AND NOT PAVED OR NATURAL ROCK SURFACE SHALL BE REVEGETATED WITHIN ONE CONSTRUCTION SEASON.

WATER, SEWER AND UTILITY NOTES:

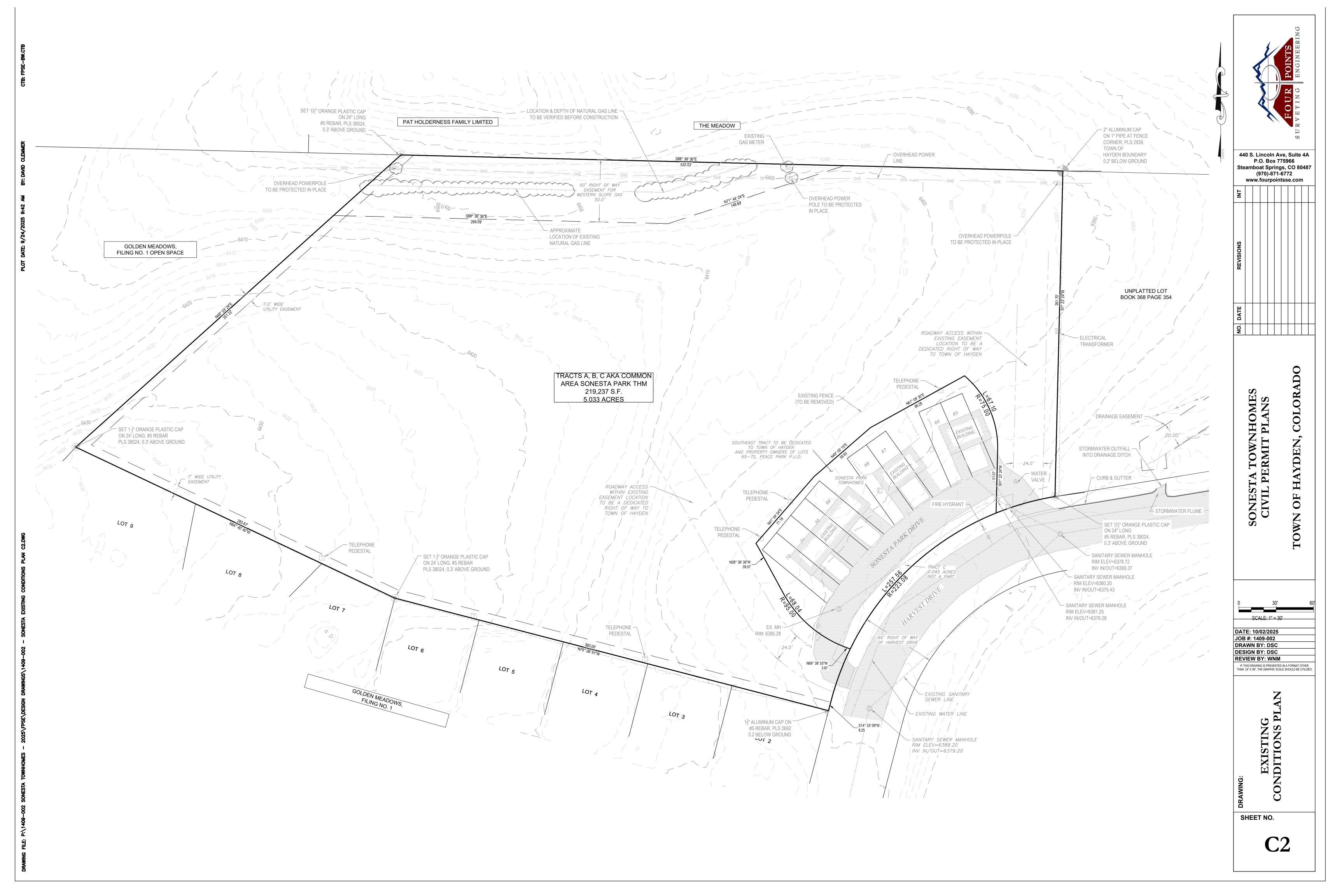
- 1. EXISTING UTILITY LOCATIONS WERE OBTAINED FROM FIELD LOCATES AND FIELD SURVEYING AND HAVE NOT BEEN VERIFIED WITH ANY ADDITIONAL UNDERGROUND POTHOLING. POTHOLING AND VERIFICATION OF LINE LOCATIONS SHALL BE REQUIRED AT ALL EXISTING UTILITY CROSSINGS.
- 2. MINIMUM SEPARATION BETWEEN PARALLEL WATER AND SEWER MAINS AND SERVICES IS TEN (10') FEET. MINIMUM SEPARATION BETWEEN PARALLEL WATER AND SEWER SERVICE LINES IS TEN (10') FEET.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF HAYDEN WATER AND SEWER STANDARDS AND SPECIFICATIONS, LATEST EDITION.

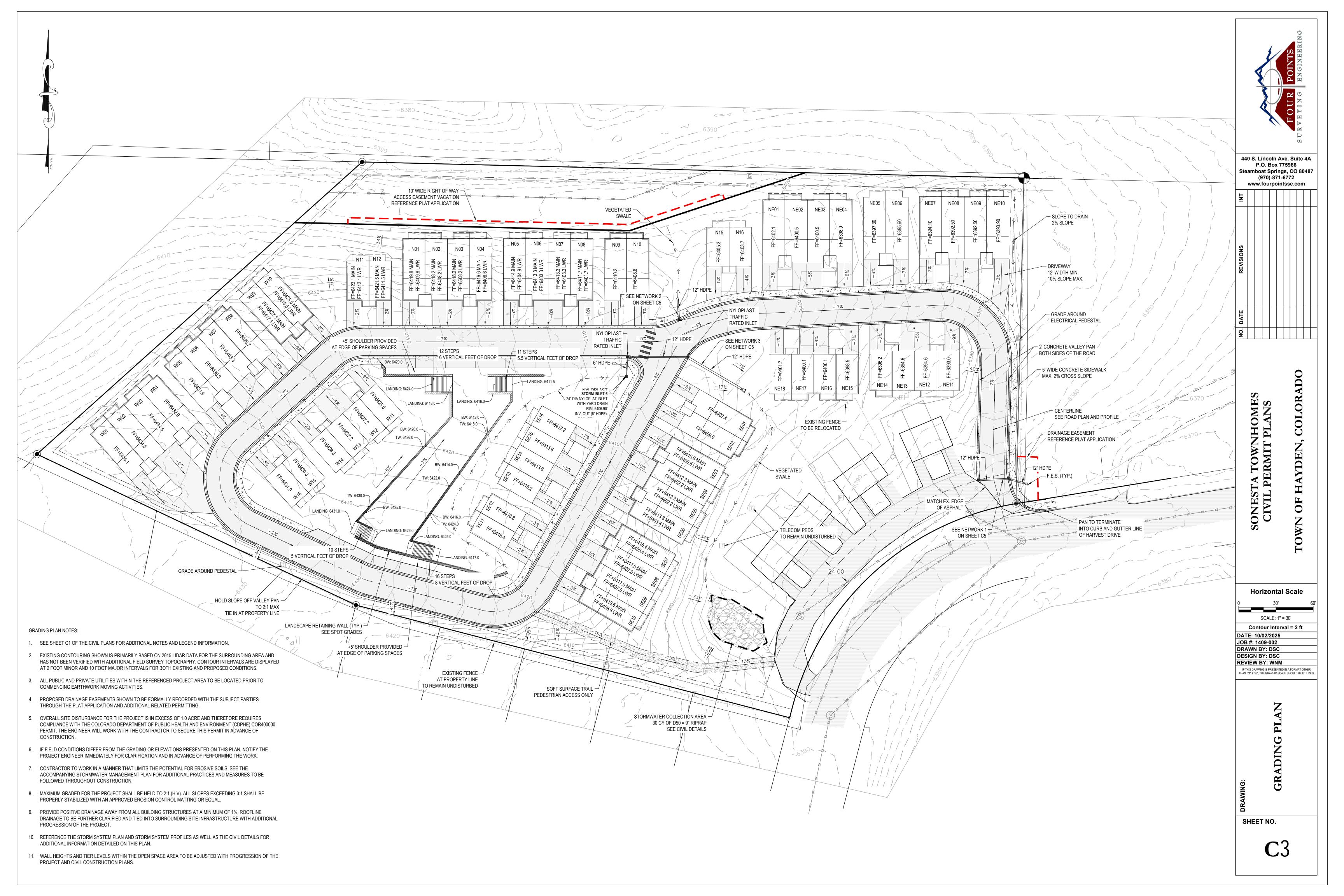
ALL WATER SERVICE LINES SHALL BE TYPE "K" COPPER AND SEAMLESS BETWEEN FITTINGS.

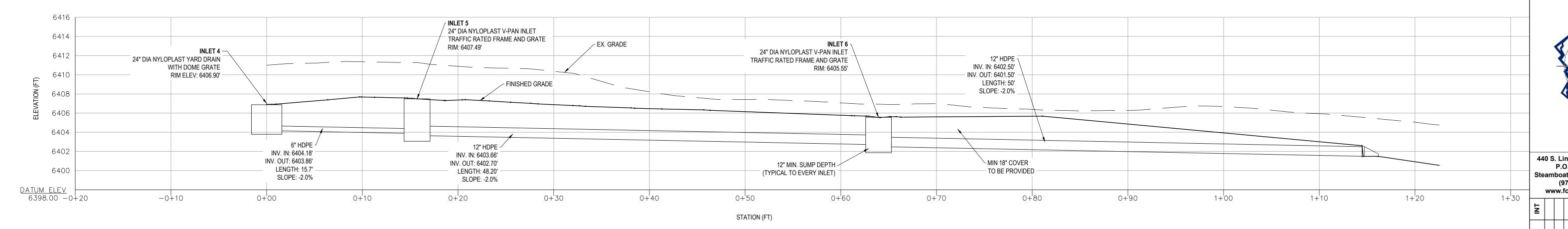
- 4. MINIMUM COVER FROM FINISHED GRADE TO TOP OF WATER MAIN LINE IS SEVEN (7') FEET UNLESS OTHERWISE NOTED.
- 5. MINIMUM SEPARATION BETWEEN UTILITY PEDESTALS AND FIRE HYDRANTS IS FIFTEEN (15') FEET. MINIMUM SEPARATION BETWEEN FIRE HYDRANTS, WATER OR SEWER MAINS, AND ENDS OF CULVERTS IS FIVE (5') FEET. MINIMUM SEPARATION BETWEEN WATER AND SEWER SERVICE LINES IS TEN (10') FEET. NO RIP-RAP IS PERMITTED WITHIN TEN (10') FEET OF A SEWER MAIN.
- 6. VALVES SHALL BE OPERATED BY UTILITY PERSONNEL ONLY.

THE PLACEMENT OF BACKFILL.

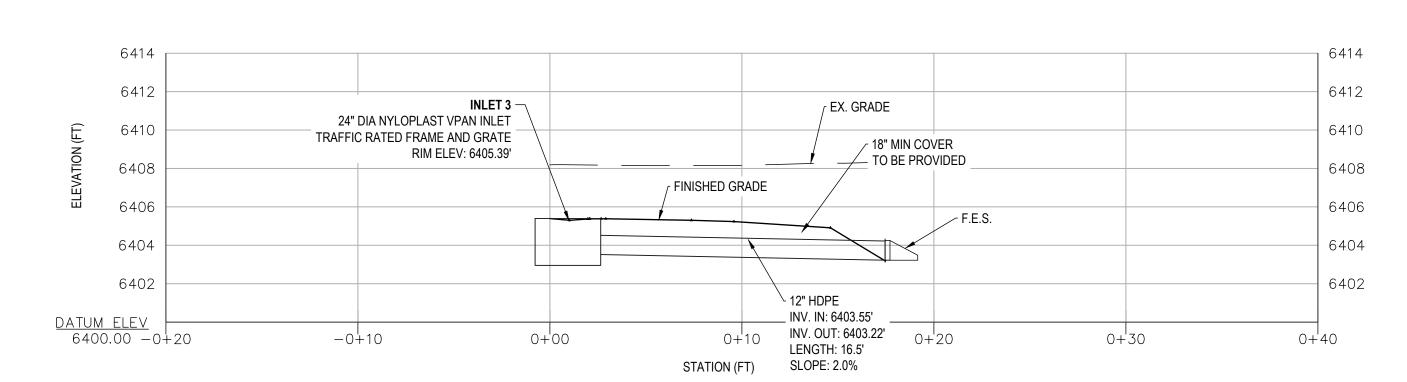
- 7. SEWER SERVICES ARE ANTICIPATED TO BE FOUR (4") INCH DIAMETER, SDR 35 PVC, MINIMUM SLOPE OF 2%, UNLESS NOTED
- 7. WATER SERVICES ARE ANTICIPATED TO BE ONE (1") INCH DIAMETER, POLYETHYLENE PRESSURE PIPE, UNLESS NOTED
- 8. DISINFECTION, BACTERIOLOGICAL, AND HYDROSTATIC TESTING IS REQUIRED FOR THE 8" DIP WATER/FIRE SERVICE PIPE.
- 9. ALL MECHANICAL JOINTS, RESTRAINT, THRUST BLOCKS AND CROSSING MUST BE OBSERVED BY THE ENGINEER PRIOR TO
- 10. MECHANICAL RESTRAINTS AND THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, REDUCERS AND DEAD ENDS.
- 11. ALL FITTINGS ASSOCIATED WITH UTILITY INSTALLATION WILL BE ON-SITE PRIOR TO WATER LINE SHUT DOWN.
- 12. SHARED WATER SERVICE CURB STOPS FOR DUPLEXES SHALL NOT BE PERMITTED. EACH INDIVIDUAL DUPLEX UNIT SHALL HAVE ITS OWN INDEPENDENT CURB STOP. METER PITS SHALL BE INSTALLED FOR ALL UNITS AND SHALL BE INSTALLED WITHIN THE UTILITY EASEMENT.



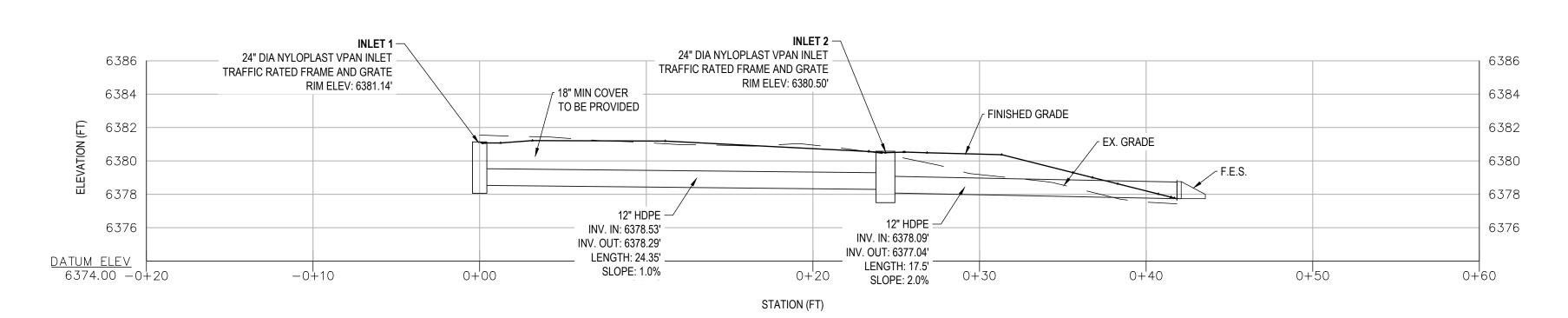




STORM SYSTEM 3 HORIZONTAL SCALE: 1" = 5' VERTICAL SCALE: 1" = 5'



STORM SYSTEM 2 HORIZONTAL SCALE: 1" = 5' VERTICAL SCALE: 1" = 5'



STORM SYSTEM 1

HORIZONTAL SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'



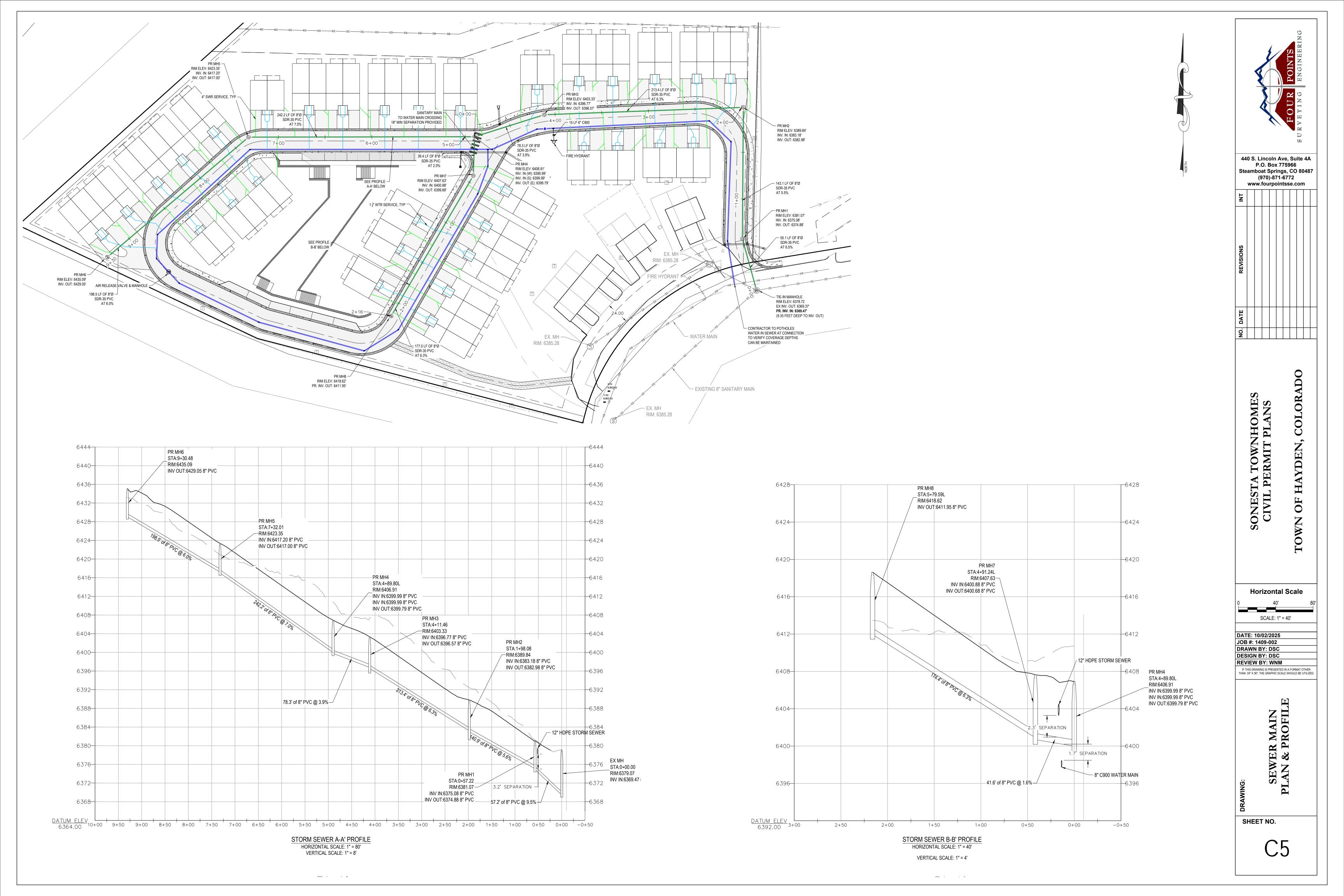
TYPICAL NYLOPLAST ROAD INLET

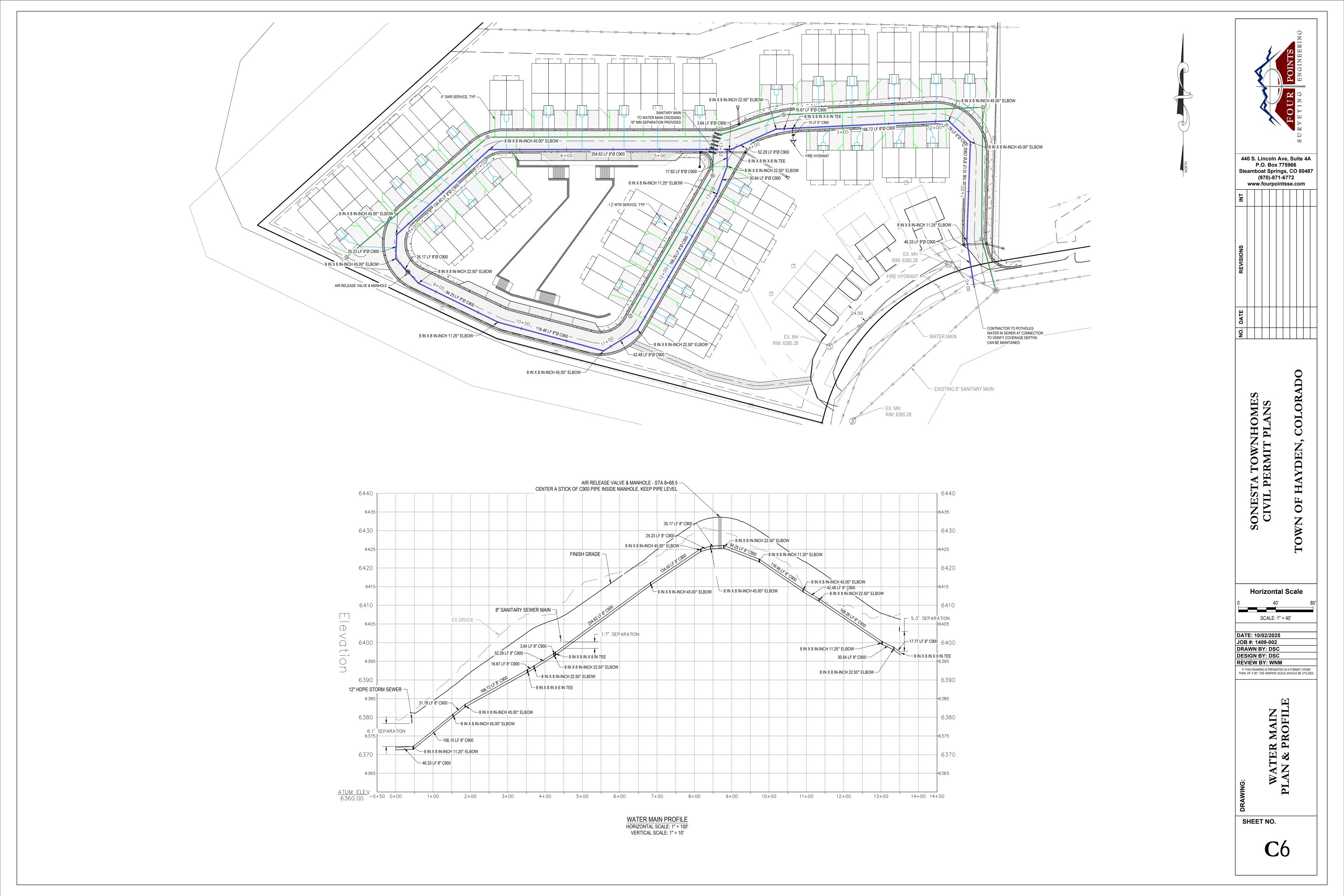
						TATOU TO T	FOOR	SURVEYING ENGIN	-	
7.0	44 Ste	P.6	O. E at S (70)	30x Spr)-87	77 ing 71-	759 S, 677	66 CO 72	80)48	
30	Ī									
	REVISIONS									
	DATE									
	N O									

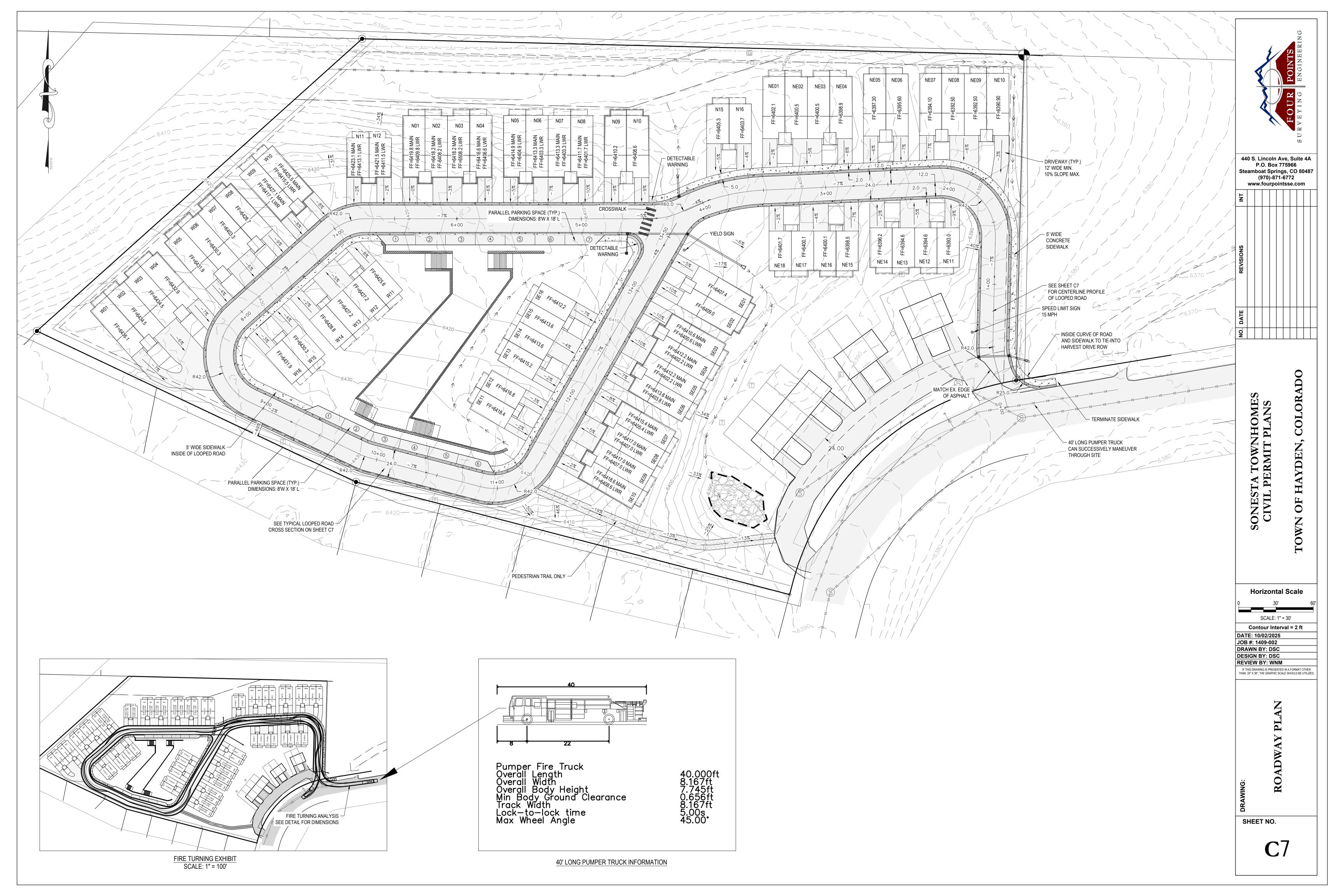
SONESTA TOWNHOMES CIVIL PERMIT PLANS OF

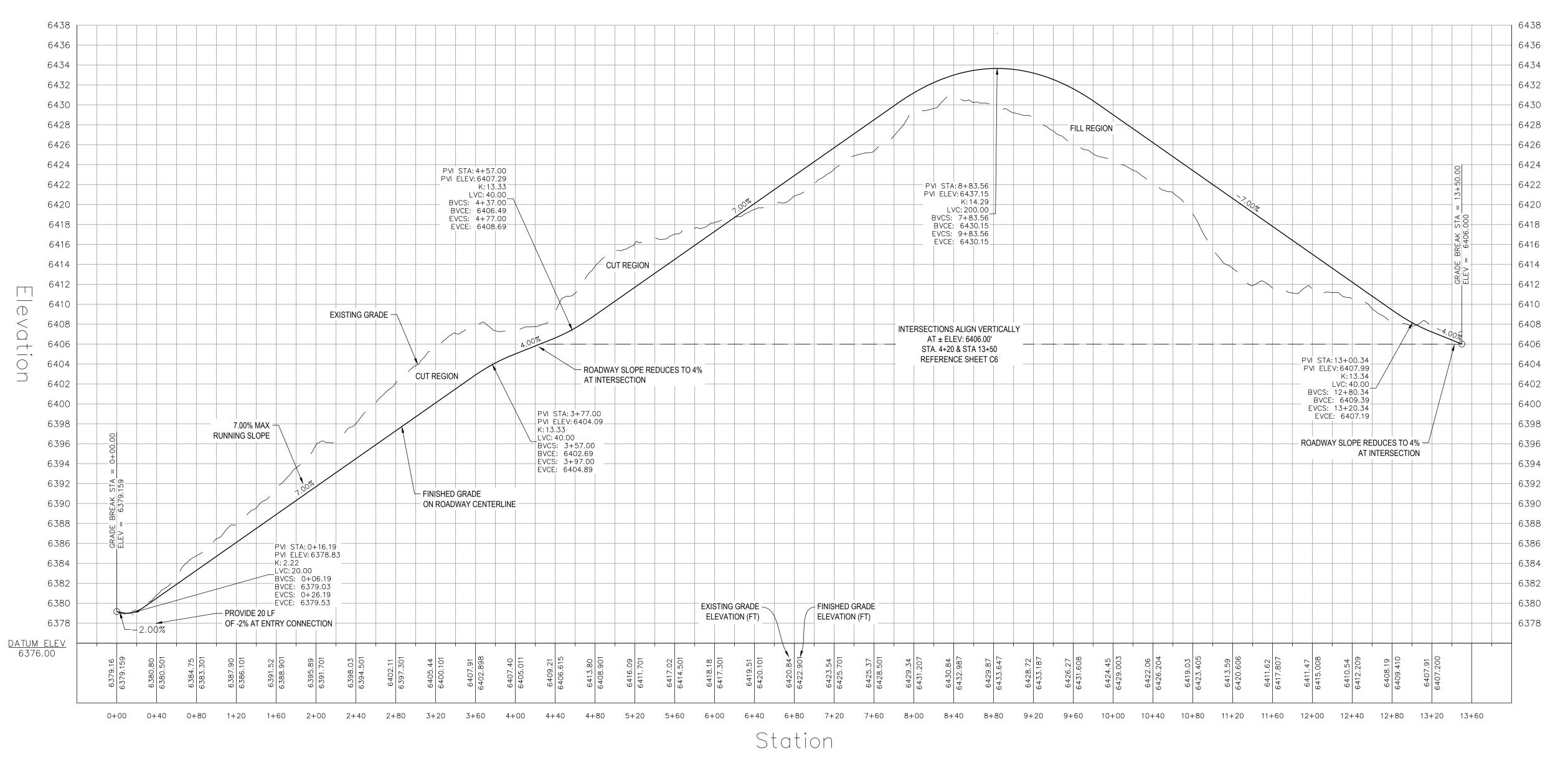
DATE: 10/02/2025 JOB #: 1409-002 DRAWN BY: DSC DESIGN BY: DSC REVIEW BY: WNM IF THIS DRAWING IS PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD BE UTILIZED. STORMWATER PROFILES

SHEET NO.

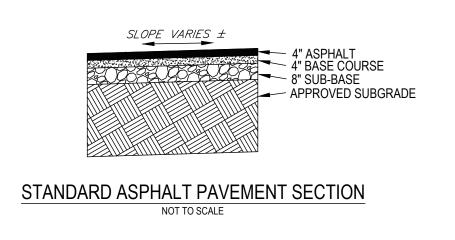


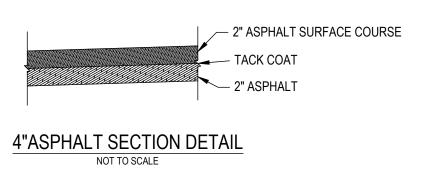


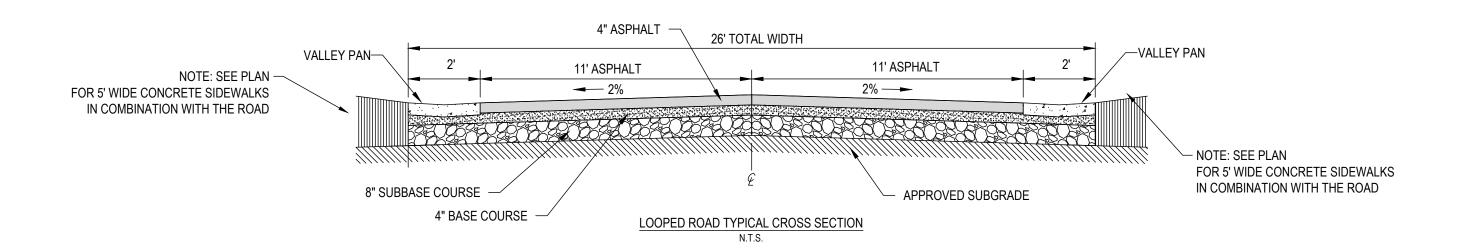




ROADWAY PROFILE HORIZONTAL SCALE: 1" = 60' VERTICAL SCALE: 1" = 6'







DRIVEWAY SURFACING NOTES:

- PRIOR TO THE PLACEMENT OF SUB-BASE AGGREGATES, THE EXPOSED SUB-GRADE SOILS SHALL BE UNIFORMLY SCARIFIED, MIXED, AND
 MOISTURE TREATED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT, AND THEN RE-COMPACTED TO AT LEAST 95% OF THE MAXIMUM
 STANDARD PROCTOR DENSITY.
- 2. BASE COURSE AND SUB-BASE AGGREGATES SHALL MEET THE CDOT CLASS 6 ABC AND CLASS 2/1 ABC SPECIFICATIONS, RESPECTIVELY. BASE COURSE AND SUB-BASE AGGREGATES SHALL BE PLACED IN ONE LIFT AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM MODIFIED PROCTOR DENSITY IN ACCORDANCE WITH ASTM 1557.
- 3. DRIVEWAY SLOPES SHALL BE FINE GRADED AND TRACKED PERPENDICULAR TO THE DRIVEWAY CENTERLINE. ALL ADJACENT SLOPES SHALL BE SEEDED WITH NATIVE GRASS SEED AND STABILIZED STRAW BLANKET OR SIMILAR EROSION CONTROL MAT. SEED SHALL BE WATERED AS NECESSARY TO PROMOTE AND SUSTAIN GROWTH.



44 Ste	P.6 boa (9) . E	30) 3pr 3-87	k 77 ing 71-	759 s, 677	66 CO 72	80)48	
INT									
REVISIONS									
NO. DATE									
NO.									

SONESTA TOWNHOMES CIVIL PERMIT PLANS

DATE: 10/02/2025

JOB #: 1409-002

DRAWN BY: DSC

DESIGN BY: DSC

REVIEW BY: WNM

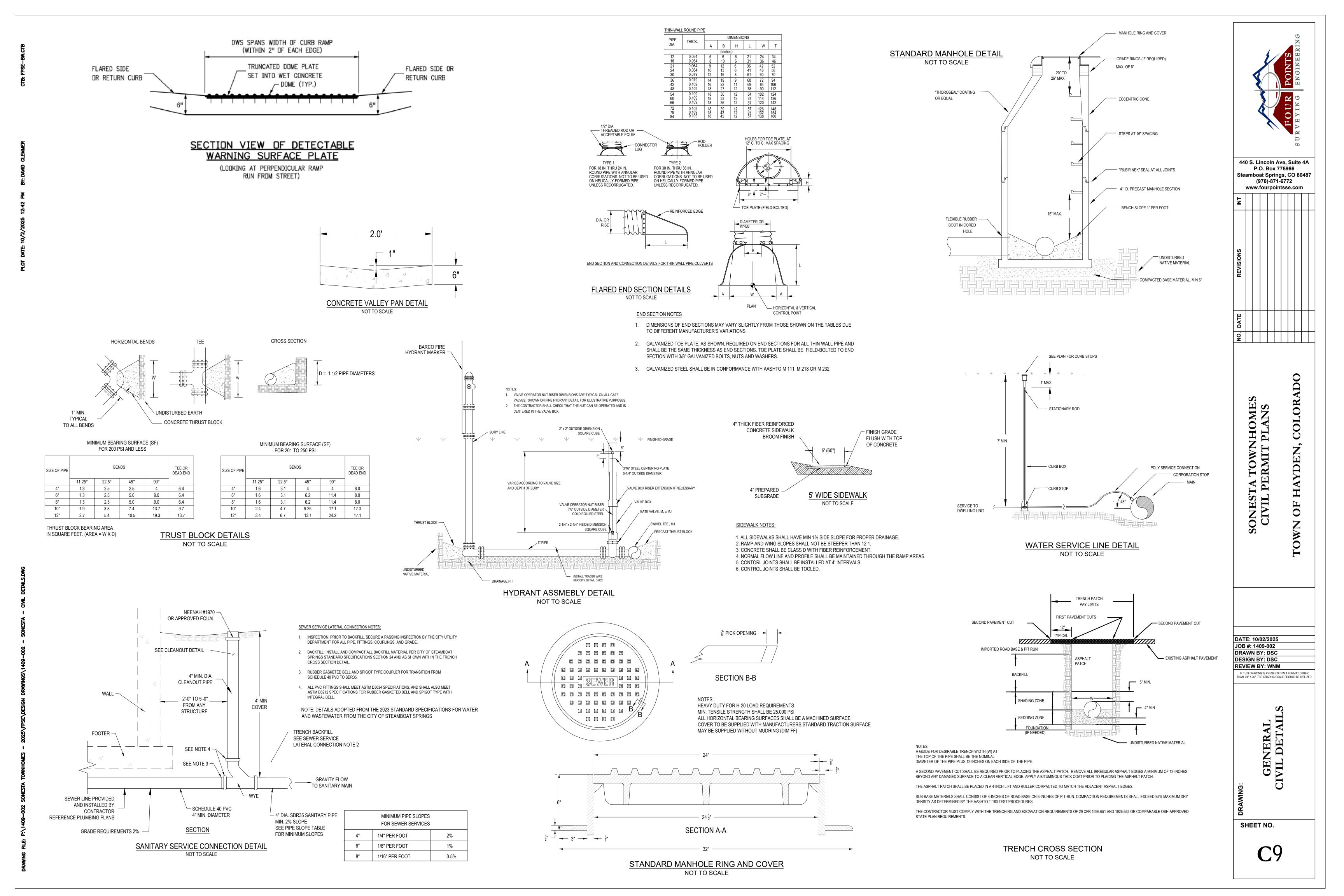
IF THIS DRAWING IS PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD BE UTILIZED.

ROADWAY PROFILE

DRAWING:

SHEET NO.

C{





Leif Sunde <leifsunde7@gmail.com>

Tracts A,B,C Sonesta Park

32 messages

Leif Sunde <leifsunde7@gmail.com>
To: tegan.ebbert@haydencolorado.org

Wed, Jan 18, 2023 at 1:49 PM

Tegan -

Thank you again for your time in the phone this morning. I thought I'd drop you an email regarding the plat documents I requested on the phone in case I mumbled through spelling my name out for you.

Thank you again for your time.

Leif

303.898.8995

Tegan Ebbert <tegan.ebbert@haydencolorado.org> To: Leif Sunde <leifsunde7@gmail.com> Wed, Jan 18, 2023 at 2:50 PM

Thanks, Leif.

Following is the link to the packet from the most recent public hearing pertaining to the Peace Park subdivision project. Peace Park is the new design/layout for the Sonesta property. Meeting minutes are attached.

https://haydencolorado.com/wp-content/uploads/2022/06/PC-Packet-6-23-22.pdf

Attached to this email is the approval letter from the prior hearing for Sketch Plan and Conceptual PUD.

The remaining steps are to submit a final plat application and Final PUD application. There are submittal deadlines to continue the process, being 6/23/24 deadline to submit the final plat application and 6/23/23 deadline to submit the final PUD application. There are a few options when it comes to infrastructure and filing a final plat. There needs to be a Subdivision Improvement Agreement executed and either the infrastructure would need to be installed or the developer/owner would need to bond a certain percentage of the project costs (typically 10%) if.

If someone wanted to proceed with the existing Sonesta Park PUD/Plat (attached), the Peace Park Project can be left to expire and that layout could be pursed instead. There are still a few items that would need to be addressed through a Subdivision Improvement Agreement such as installation of utilities, roads, etc.

Please let me know if you have any questions.

Thanks,

Tegan

Tegan Ebbert | Community Development Director | Tegan.ebbert@haydencolorado.org

Heart of the Yampa Valley ™
Haydencolorado.com
P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190
O: 970-276-3741 | C: 970-457-7216 | F: 970-276-3644
[Quoted text hidden]

3 attachments

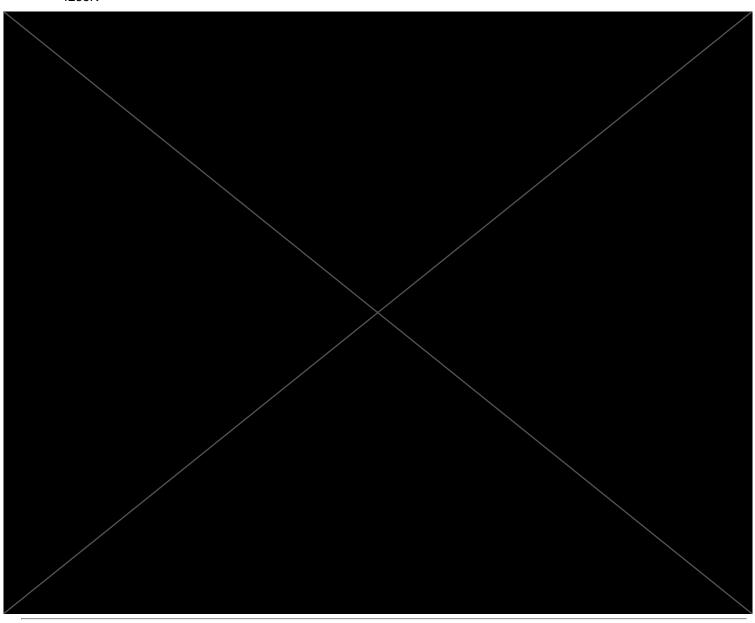


Letter of Approval Sketch & Conc PUD 12-6-21.pdf 95K



6-23-22 Draft Minutes.pdf

008640.pdf 4283K



Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Jan 25, 2023 at 11:52 AM

Tegan -

Thank you so much for sending these along. Very helpful. We are officially under contract for the land.

You mentioned on the phone that there was a housing study/analysis that the town did. Would you be able to share that? I think it would help inform our phasing planning.

[Quoted text hidden] [Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Jan 25, 2023 at 11:55 AM

To: Leif Sunde <leifsunde7@gmail.com>

Hi.

The Housing Needs Assessment is attached.

Thanks, Tegan

[Quoted text hidden]



Hayden HNA - FINAL.pdf 5858K

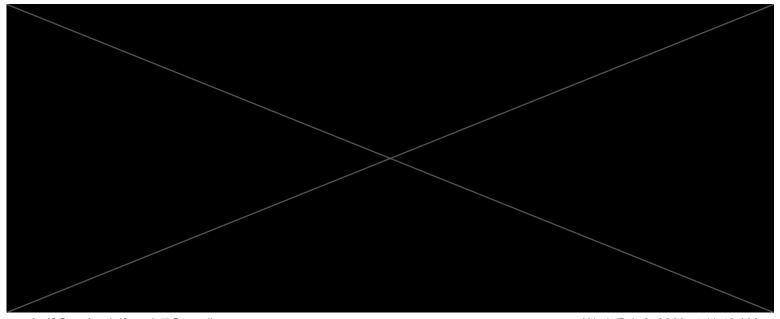
Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Jan 25, 2023 at 11:57 AM

This is phenomenal. Thank you. I am hoping to make a day out at the property in the next 1-2 weeks. Do you have any availability for a meeting at your office or around town to discuss the outstanding next steps for final approval and getting into architectural planning/design?

[Quoted text hidden]



Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Feb 8, 2023 at 11:43 AM

Tegan -

Thank you again for passing this along. It seems like this planned townhome development has the potential to significantly contribute to a solution to the distinct housing needs of Hayden and the surrounding area.

Through the course of our due diligence, I've become aware of the existing covenants appurtenant to the property (attached here). However, I have not been able to find any other evidence of existence of the HOA (meetings, officers, board of directors, schedule of dues, etc). Similarly, the seller and seller's agent have communicated that such HOA is not in existence.

Before going forward, I want to ensure that we have a clear understanding of the path forward for development. Can you share any further information? Will this development be subject to any restrictions beyond those enforced by the Town of Hayden and/or Routt County? Can you provide any assistance or guidance toward either quieting the title of these covenants or potentially free them from such through a subsequent subdivision?

I know this is a little messy, so please let me know if it might be best to sit down and discuss our plans for the property and how we can best help achieve the town's goals as we go forward.

Thank you, and I look forward to hearing from you.

[Quoted text hidden]

4 attachments



HOA Water Pump Facility Improvement Agr.pdf

264K



HOA Subdyn Improvement Agreement.pdf



HOA Covenants.pdf



HOA Covenants Supplemental.pdf

269K

Tegan Ebbert <tegan.ebbert@haydencolorado.org> To: Leif Sunde <leifsunde7@gmail.com>

Thu, Feb 9, 2023 at 6:43 PM

Hi Leif,

I'll need to do a little research on this and get back to you. The HOA covenants I am not so concerned about, if it was never formed then there is no enforcement mechanism behind it. We would likely want to see updated covenants established.

The SIA and Water Pump Facility document are of more interest. Public infrastructure improvements (roads, water, wastewater) will need to occur before dwelling units can be constructed. The Water Pump Facility Agreement is obviously wildly outdated and I need to find out if any of this was executed.

I am not entirely sure what you mean regarding additional restrictions beyond those enforced by the Town of Hayden/Routt County. Can you elaborate?

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Thu, Feb 9, 2023 at 9:01 PM

Tegan -

Thank you so much for the communication. What I intended to ask with the comment about restrictions beyond what the town would enforce is specific to some of the covenants. Namely the mention of an architectural review committee, as this could potentially impose more stringent requirements/restrictions than is in place via planning and zoning ordinances.

Other than this obstacle, the project seems very promising.

Leif

303.898.8995

On Feb 9, 2023, at 18:43, Tegan Ebbert tegan.ebbert@haydencolorado.org wrote:

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>
To: Leif Sunde To: Leif Sunde </pr

Fri, Feb 10, 2023 at 8:34 AM

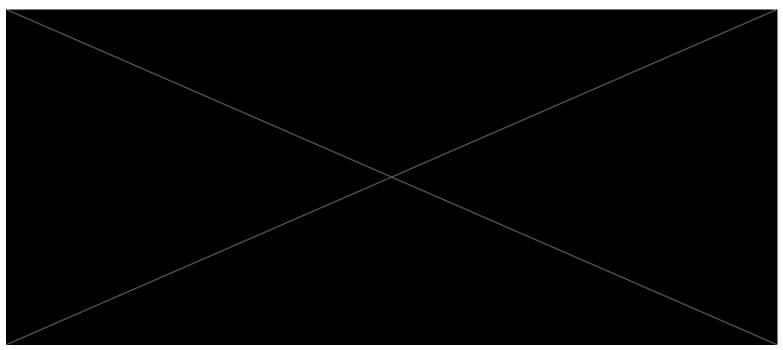
Oh! Ok, I wasn't sure if you were referring to state, federal restrictions, or other local agency restrictions (ie Army Corps of Engineers, FEMA Floodplain regs, fire code etc).

The Town does now enforce HOA covenants, if no HOA was formed and board appointed, there would be no enforcement mechanism to require compliance with the architectural process or anything else in the covenants that exceeds Town/County codes. We generally want to see that covenants exist for new developments because we want to know that there is a plan for maintenance of common spaces and required landscaping in open spaces and any common improvements that the Town doesn't own (ie street lighting, subdivision entryway signage, trails if applicable). What a neighborhood/HOA decides to impose as additional architectural requirements is in their court. Does that answer your question?

Thanks,

Tegn

[Quoted text hidden]



Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Apr 5, 2023 at 10:27 AM

Tegan -

Thank you for your help and responsiveness through my due diligence phase of purchasing the above property. I have officially closed on the land as of 3/31 last week. I'd like to set up a time to speak with you regarding next steps for a preapplication conference and other requisite approvals needed to move forward with the development as provided on the Subdivision and PUD filed for Sonesta Park as attached.

[Quoted text hidden]



Sonesta Park PUD -Plat.pdf 4281K

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Apr 5, 2023 at 3:40 PM

To: Leif Sunde <leifsunde7@gmail.com>

Hi Leif,

Congratulations! Let me come up with some dates/times that both myself and our Public Works Director are available to meet with you next week. Are you hoping to meet in person or virtually?

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Apr 5, 2023 at 4:07 PM

Tue, Apr 11, 2023 at 9:58 AM

I will be in AZ with family next week, so happy to meet virtually if possible.

Leif 303.898.8995 [Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

To: Leif Sunde <leifsunde7@gmail.com>

Cc: Bryan Richards bryan.richards@haydencolorado.org

Leif,

Both myself and our Public Works Director are available on Thursday. How about 11 am?

[Quoted text hidden]

Bryan Richards bryan.richards@haydencolorado.org

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>, Leif Sunde <leifsunde7@gmail.com>

Tue, Apr 11, 2023 at 3:29 PM

I just had another meeting slide into the 11:00 time slot could we push this to 1:00 Thursday?

Bryan Richards | Public Works Director | bryan.richards@haydencolorado.org



Heart of the Yampa Valley ™

Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

Cell: 970-757-6002

From: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Sent: Tuesday, April 11, 2023 9:59 AM **To:** Leif Sunde leifsunde7@gmail.com

Cc: Bryan Richards bryan.richards@haydencolorado.org Subject: RE: Tracts A,B,C Sonesta Park Leif, [Quoted text hidden] Tegan Ebbert <tegan.ebbert@haydencolorado.org> Tue, Apr 11, 2023 at 3:31 PM To: Bryan Richards <bryan.richards@haydencolorado.org>, Leif Sunde <leifsunde7@gmail.com> 1pm works for me, we will wait to hear from Leif. Thanks, Tegan [Quoted text hidden] Leif Sunde <leifsunde7@gmail.com> Tue, Apr 11, 2023 at 3:50 PM To: Tegan Ebbert <tegan.ebbert@haydencolorado.org> Cc: Bryan Richards bryan.richards@haydencolorado.org 1pm on Thursday will work great. Thank you so much. Leif 303.898.8995 On Apr 11, 2023, at 14:31, Tegan Ebbert tegan.ebbert@haydencolorado.org wrote: 1pm works for me, we will wait to hear from Leif. Thanks, Tegan From: Bryan Richards bryan.richards@haydencolorado.org Sent: Tuesday, April 11, 2023 3:30 PM To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>; Leif Sunde <leifsunde7@gmail.com> Subject: RE: Tracts A,B,C Sonesta Park I just had another meeting slide into the 11:00 time slot could we push this to 1:00 Thursday? Bryan Richards | Public Works Director | bryan.richards@haydencolorado.org

https://mail.google.com/mail/u/0/?ik = de 832900b 2 & view = pt & search = all & permthid = thread-f: 1755394842272682629 & simpl = msg-f: 17553948422726829 & simpl = msg-f: 17553948429 & simpl = msg-f

<image001.jpg>

Heart of the Yampa Valley ™

[Quoted text hidden] [Quoted text hidden]

Tegan	Ebbert	<tegan< th=""><th>.ebbert@</th><th>haydence</th><th>olorado.org></th></tegan<>	.ebbert@	haydence	olorado.org>

Tue, Apr 11, 2023 at 3:52 PM

To: Leif Sunde <leifsunde7@gmail.com>

Cc: Bryan Richards bryan.richards@haydencolorado.org

Great,

Here is a zoom link for Thursday at 1pm.

Join Zoom Meeting

https://us02web.zoom.us/j/85924406278?pwd=N1JWYjd6bGp6dkVEZXVya2M0WFBIQT09

Meeting ID: 859 2440 6278

Passcode: 134571

One tap mobile

+17193594580,,85924406278#,,,,*134571# US

+13462487799,,85924406278#,,,,*134571# US (Houston)

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

Thu, Apr 13, 2023 at 8:47 AM

Tegan / Bryan -

I've had some unexpected changes to my travel schedule and will be in an airplane when we're intended to meet at 1:00. Do you have any availability either tomorrow or next week?

My apologies for the inconvenience. I look forward to speaking with you both.

Leif

Leif,

303.898.8995

On Apr 11, 2023, at 14:52, Tegan Ebbert < tegan.ebbert@haydencolorado.org > wrote:

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

To: Leif Sunde <leifsunde7@gmail.com>

Cc: Bryan Richards bryan.richards@haydencolorado.org

Thu, Apr 13, 2023 at 8:51 AM

I was actually just about to email you to cancel! The Town is having a significant flood event that arose early this morning with all the rapid snow melt so things are a little hectic around here today. Lets plan for something next week. Is there a day/time that works well for you. Tuesday and Wednesday are pretty open on my schedule at the moment but I can't speak for Bryan's schedule.

Safe travels,

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

Thu, Apr 13, 2023 at 11:58 AM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Cc: Bryan Richards <bryan.richards@haydencolorado.org>

Next week anytime will work well for me. I have heard the runoff/melt is causing significant issues. Be safe! I'll wait to hear Bryan's availability.

Thank you.

Leif

303.898.8995

On Apr 13, 2023, at 07:51, Tegan Ebbert < tegan.ebbert@haydencolorado.org > wrote:

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

Mon, Apr 17, 2023 at 3:05 PM

Good afternoon Tegan and Bryan -

I hope you're both doing well and managing the massive runoff ahead of the continued precipitation in the forecast. Quite the challenge!

Let me know some times that are available in the coming week(s) to meet either virtually or in-person r.egarding the development of Sonesta Park

I look forward to hearing from you.

Thank you.

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Fri, Apr 21, 2023 at 11:30 AM

To: Leif Sunde <leifsunde7@gmail.com>

Cc: Bryan Richards

bryan.richards@haydencolorado.org>

Hi Leif,

Are you available on Tuesday (4/25) at 2:30pm? I will be out of the office at a conference Wednesday, Thursday, and Friday next week then I go on vacation the week after (5/2-5/9).

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Cc: Bryan Richards bryan.richards@haydencolorado.org

Tuesday at 2:30 works great. A zoom conference will be best for me.

Thank you!

— Leif

303.898.8995

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

To: Leif Sunde <leifsunde7@gmail.com>

Tue, Apr 25, 2023 at 2:57 PM

Fri, Apr 21, 2023 at 12:00 PM

Pre-app checklist and agreement for payment form are attached.

[Quoted text hidden]

2 attachments



Pre-Application Form & Checklist_042722.pdf 224K



HAYDEN_Agreement for Payment_Dev Rev 3-7-22.pdf 61K

Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Tue, Apr 25, 2023 at 3:16 PM

Thank you for sending these over. We're excited to get working with the town on this development. [Quoted text hidden]



Leif Sunde <leif@denversportslab.com>

Sonesta Park Townhomes

3 messages

Leif Sunde <leif@denversportslab.com>
To: Brad Parrott
bparrott@westrouttfire.com>

Mon, Apr 21, 2025 at 1:41 PM

Brad -

I hope you're doing well and enjoying the turn to spring. I wanted to follow up to the pre-application meeting we had regarding this project back in November. We have been working with Walter at Four Points Engineering to improve site accessibility, specifically regarding grades and turning radius.

I wanted to present this to you for your consideration and initial feedback before we finalize things for our formal submission. I have attached what was reviewed at the pre-application meeting (Scheme A), our current proposed layout (Scheme C), as well as the originally approved final (current) plat.

Both Schemes A and C are at 61-62 units, down from the 64 units in the existing plat.

Thank you, and we're looking forward to working with you to get this project started later this summer.

Leif Sunde (c). 303.898.8995 (e). leif@denversportslab.com Book a Meeting Denver Sports Lab www.DenverSportsLab.com

3 attachments







Brad Parrott bparrott@westrouttfire.com To: Leif Sunde leif@denversportslab.com

Wed, Apr 23, 2025 at 10:23 AM

Leif,

Looking at the proposed layout we would just like to make sure that that first 90 degree turn has a radius in the North East corner of the plans would need to be able to accommodate a 40' bus. I know that Chief Guire talked about a mountable surface to help get that turning radius if needed.

We would also like to see a 24' flat driving surface to ensure that we can get our apparatus in while everyone else is trying to drive out.

Any elective monitored fire alarm or sprinkler systems would require additional inspection and testing as needed.

Other than that nothing else from us at the moment.

Thanks, have a great day.



Leif Sunde <leifsunde7@gmail.com>

Sonesta Park TH Pre-application

9 messages

Leif Sunde <leifsunde7@gmail.com>

Wed, Jul 31, 2024 at 2:40 PM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Tegan -

I wanted to informally send this just to ensure it loads correctly for you. I will have this formally packaged and delivered with a check for the Pre-app fee tomorrow or Friday.

Thank you for your communication on the project thus far, and I am excited to be inching this forward.

Leif Sunde 303.898.8995 leifsunde7@gmail.com



Pre-Application Form & Checklist_310724.pdf 8041K

Tegan Ebbert <tegan.ebbert@haydencolorado.org> To: Leif Sunde <leifsunde7@gmail.com> Wed, Aug 14, 2024 at 2:47 PM

Hi Leif,

I am just following up. I realized that I never saw a package/check dropped off. Did you drop one off?

Thanks,

Tegan

Tegan Ebbert | Community Development Director | Tegan.ebbert@haydencolorado.org



Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

O: 970-276-3741 | C: 970-457-7216 | F: 970-276-3644

[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>
To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Aug 14, 2024 at 3:41 PM

Leif

Not yet. Unexpectedly got pulled out of town for some family matters. I got back yesterday arthis.	nd owe you a visit to deliver
Thank you for checking in.	
Leif 303.898.8995	
On Aug 14, 2024, at 14:47, Tegan Ebbert < tegan.ebbert@haydencolorado.org > wrote	:
Hi Leif,	
I am just following up. I realized that I never saw a package/check dropped off. Did yo	u drop one off?
Thanks,	
Tegan	
Tegan Ebbert Community Development Director Tegan.ebbert@haydencolorado.org	
<image002.png> Heart of the Yampa Valley ™</image002.png>	
[Quoted text hidden]	
Tegan Ebbert <tegan.ebbert@haydencolorado.org> To: Leif Sunde <leifsunde7@gmail.com></leifsunde7@gmail.com></tegan.ebbert@haydencolorado.org>	Wed, Aug 14, 2024 at 3:43 PM
All good! I was nervous it got lost in the office.	
Thanks, Tegan	
[Quoted text hidden]	
Leif Sunde <leifsunde7@gmail.com> To: Tegan Ebbert <tegan.ebbert@haydencolorado.org></tegan.ebbert@haydencolorado.org></leifsunde7@gmail.com>	Tue, Aug 20, 2024 at 3:49 PM
Tegan - I hope you're doing well and your week is off to a good start. I have some partners in the proj Wednesday. We will be meeting at the site at 9:45 that morning. It would be great from them meet with you. Would it be possible for you to meet either at the site or at your office just afte intention is just an informal meet & greet rather than anything with an agenda.	to have an opportunity to
Thank you in advance, and I look forward to speaking with you.	

 $https://mail.google.com/mail/u/0/?ik = de 832900b 2 \& view = pt \& search = all \& permthid = thread-a:r-7868948508542170554 \& simpl = msg-a:r-8756962520718065348 \& sim\dots = thread-a:r-7868948508542170554 \& simpl = msg-a:r-8756962520718065348 \& sim\dots = thread-a:r-7868948508542170554 \& simpl = msg-a:r-8756962520718065348 \& sim\dots = thread-a:r-7868948508542170554 \& simpl = msg-a:r-8756962520718065348 \& simu = thread-a:r-7868948508542170554 \& simpl = thread-a:r-7868948508542170554 \& simpl = thread-a:r-786894850854 \& simu = thread-a:r-78689485085 \& simu = thread-a:r-786894850854 \& simu = thread-a:r-78689485085 \& simu = thread-a:r-786896085$

303.898.8995

On Aug 14, 2024, at 15:43, Tegan Ebbert < tegan.ebbert@haydencolorado.org > wrote	On Aug 1	4, 2024, a	t 15:43. To	egan Ebbert -	<tegan.ebb< th=""><th>ert@ha</th><th>vdencolorad</th><th>o.ora> wrote</th></tegan.ebb<>	ert@ha	vdencolorad	o.ora> wrote
---	----------	------------	-------------	---------------	--	--------	-------------	--------------

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org> To: Leif Sunde <leifsunde7@gmail.com>

Wed, Aug 21, 2024 at 3:32 PM

Hi Leif,

I am available next Wednesday morning. Do you mind if I invite the Hayden Public Works Director? I am not sure if he will be able to make it but it would be good to make an intro.

I can either meet onsite or at the office, which do you prefer?

Thanks.

Tegan

Tegan Ebbert | Community Development Director | Tegan.ebbert@haydencolorado.org



[Quoted text hidden]

Leif Sunde <leifsunde7@gmail.com>

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Aug 21, 2024 at 3:46 PM

Tegan -

Thank you for the confirmation. I think it would be great to have the Public Works Director there as well. For ease, let's plan on meeting at the site next Wednesday. We will be there at 9:45, as the team is coming up from their offices in Buena Vista.

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>
To: Leif Sunde <leifsunde7@gmail.com>

Thu, Aug 22, 2024 at 9:40 AM

Leif.

Bryan Richards, PW Director is able to join us on Wednesday at 9:45am onsite. He has a hard stop at 10:15am.

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Wed, Aug 28, 2024 at 8:38 AM

To: Leif Sunde <leifsunde7@gmail.com>, Bryan Richards

 sbryan.richards@haydencolorado.org>

Good morning Leif,

Unfortunately I'm home sick today and won't be able to make it to your site visit. We have a cold going around the office and I am going try to keep my germs to myself.

Thanks, Tegan

Get Outlook for iOS

From: Tegan Ebbert

Sent: Thursday, August 22, 2024 9:40:53 AM
To: Leif Sunde <leifsunde7@gmail.com>
Subject: RE: Sonesta Park TH Pre-application

[Quoted text hidden]



Leif Sunde <leif@denversportslab.com>

Sonesta Townhome development meeting

13 messages
Tegan Ebbert <tegan.ebbert@haydencolorado.org> Tue, Nov 12, 2024 at 10:05 AM To: Leif Sunde <leif@denversportslab.com>, Ben Beall <bbeall@zenobiaconsultants.com>, Bryan Richards Tue, Nov 12, 2024 at 10:05 AM To: Leif Sunde <leif@denversportslab.com>, Ben Beall Trevor Guire <tguire72@gmail.com>, Brad Parrott To: Nov 12, 2024 at 10:05 AM To: Leif Sunde <leif@denversportslab.com>, Bryan Richards <</leif@denversportslab.com></tguire72@gmail.com></leif@denversportslab.com></bbeall@zenobiaconsultants.com></leif@denversportslab.com></tegan.ebbert@haydencolorado.org>
Hi all,
If you are available to be in person at Hayden Town Hall, that's great. If not, I have a teams link below.
Thanks,
Tegan
Microsoft Teams Need help?
Join the meeting now
Meeting ID: 265 087 672 449
Passcode: CFSpwg
For organizers: Meeting options
invite.ics 5K

Leif Sunde <leif@denversportslab.com>

Fri, Feb 28, 2025 at 11:10 AM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

<tguire72@gmail.com>, Brad Parrott

| Stguire72@gmail.com>, Brad Parrott

| Stguire72@gmail.com>, Ty Johnson <ty@mesaplanning.com>

I hope you are doing well and the winter has been good for you. I am at a point with my partners that we will be finalizing the site/civil plan shortly and hoping to move dirt for site improvements this summer. I want to check with you on the required steps, approvals, and paperwork between here and there. Specific questions include but are not limited to

- Process for administrative approval for lot-line adjustments
 - Can site work begin prior to this process?

- Permits required for site work
- Bond requirements (I believe it's 5%?)
 - Can this be a letter of credit or a surety bond?
- · When are utility and other development fees assessed
 - Can any of these be deferred to time of building permit?

If it is easier to talk through this in real-time I am happy to do so at your convenience.

Thank you again, and I look forward to speaking with you.

[Quoted text hidden]

Leif Sunde (c). 303.898.8995

(e). leif@denversportslab.com

Book a Meeting Denver Sports Lab

www.DenverSportsLab.com

Leif Sunde <leif@denversportslab.com>

Tue, Mar 4, 2025 at 12:06 AM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Tegan -

I hope you're doing well. I just want to ping this to the top of your inbox in case it got buried coming in over the weekend. [Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Tue, Mar 4, 2025 at 3:48 PM

To: Leif Sunde <leif@denversportslab.com>, Bryan Richards <bryan.richards@haydencolorado.org> Cc: Ben Beall
bbeall@zenobiaconsultants.com>, Trevor Guire <tguire72@gmail.com>, Brad Parrott

bparrott@westrouttfire.com>, Ty Johnson <ty@mesaplanning.com>

Hi Leif,

We seem to have survived winter... but I suppose it's probably not over yet. My responses are below in blue.

- Process for administrative approval for lot-line adjustments We will get a submittal checklist ready for you on this
 one. I've attached our general land use application form and agreement for payment form.
 - Can site work begin prior to this process?
- Permits required for site work @Bryan Richards Can you comment on any PW site work requirements (ie curb cut permit if applicable, State stormwater permit). Leif – there is nothing specific to Planning and Zoning to start moving dirt.
- Bond requirements (I believe it's 5%?) Typically we required 10%, shot our attorney an email regarding allowable bonding types.
 - Can this be a letter of credit or a surety bond?
- When are utility and other development fees assessed
 - Can any of these be deferred to time of building permit? Use tax, building permitting fees, and tap (plant
 investment) fees are due at the time of building permitting. For any deferred tap fees, a request must be
 submitted to the Hayden Town Council and they consider approving it in a public meeting.

Thanks,

Tegan

[Quoted text hidden]

2 attachments



Land Use Application.pdf

1

HAYDEN_Agreement for Payment_Dev Rev.pdf 94K

Bryan Richards bryan.richards@haydencolorado.org

Tue, Mar 4, 2025 at 4:26 PM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>, Leif Sunde <leif@denversportslab.com>

Cc: Ben Beall

Sbeall@zenobiaconsultants.com>, Trevor Guire <tguire72@gmail.com>, Brad Parrott

<bparrott@westrouttfire.com>, Ty Johnson <ty@mesaplanning.com>, Frank Case <frank.case@haydencolorado.org>

Leif,

- 1. Just thinking back to some comments with adding a waterline loop down the west entrance. I don't think I have seen any revised plan with that on there. We typically the plan set as the grading and excavation plan.
- 2. Roads will not be public as discussed but all water and sewer mains need to be in a dedicated easement. Please verify in updated plans.
- 3. State storm water permit Obtained through the state.
- 4. Certificate of Insurance naming TOH as secondary insured for work in the Harvest ROW.
- 5. Traffic Control Plan by a certified Traffic Control Supervisor
- 6. Dust Control Procedures.
- 7. Work schedule We request given the close proximity to existing residential neighborhood a Monday through Saturday 7:00 PM to 7:00 AM construction hour schedule. Please confirm on work schedule.
- 8. Materials testing plan. This needs to be in conformance with our Standard Specifications for the Water and Wastewater public utilities.
- 9. All public infrastructure submittal will need approved by TOH after your civil engineer reviews them in accordance with our Standard Specifications
- 10. Electronic copies of all the most current plans

Bryan Richards | Public Works Director | bryan.richards@haydencolorado.org



Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

C: 970-757-6002

[Quoted text hidden]

Leif Sunde <leif@denversportslab.com>

To: Stephen Doyle <steve@adaptablerea.com>

Tue, Mar 4, 2025 at 5:20 PM

Fresh in from Tegan at the Town Planning office. I have not reviewed the attachments yet. Forthcoming email from PW as well.

----- Forwarded message ------

From: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Date: Wed, Mar 5, 2025 at 6:48AM

Subject: RE: Sonesta Townhome development meeting

[Quoted text hidden] [Quoted text hidden] [Quoted text hidden]

2 attachments



Land Use Application.pdf

HAYDEN Agreement for Payment Dev Rev.pdf 94K

Leif Sunde <leif@denversportslab.com>

Tue, Mar 4, 2025 at 5:21 PM

To: Stephen Doyle <steve@adaptablerea.com>

See below from public works.

[Quoted text hidden]

Leif Sunde <leif@denversportslab.com>

Tue, Mar 4, 2025 at 5:26 PM

To: Bryan Richards bryan.richards@haydencolorado.org

Cc: Tegan Ebbert <tegan.ebbert@haydencolorado.org>, Ben Beall
beall@zenobiaconsultants.com>, Trevor Guire <tguire72@gmail.com>, Brad Parrott
bparrott@westrouttfire.com>, Ty Johnson <ty@mesaplanning.com>, Frank Case <frank.case@haydencolorado.org>

Tegan and Bryan -

Thank you for the communication and information here. I have relayed this to my team and will work to satisfy requirements as soon as possible.

Thank you.

[Quoted text hidden]

Tegan Ebbert <tegan.ebbert@haydencolorado.org>
To: Leif Sunde <leif@denversportslab.com>

Tue, Mar 18, 2025 at 4:51 PM

Hi,

Quick update -

I chatted with our attorney again regarding the bonding and a few procedural things.

We will only require bonding for public improvements. Because the infrastructure within the development is private, no bonding will be required.

As the Attorney and I looked more closely, he actually came to a slightly different process conclusion than he previously did. In the PUD amendment criteria, there is a requirement to use preliminary PUD review criteria (by today's standards) which gets a little hairy. PUD's are a really sensitive subject in Town at this moment in history. The conclusion he had is that this isn't actually an amendment of a PUD, its an amendment of "A Plat of Sonesta Park P.U.D." therefore it's actually a plat amendment/lot line adjustment and is processed as a "Minor Subdivision". A Minor Subdivision goes to Town Council but I suspect a PUD amendment would have been appeal and called up to Town Council just given the sensitivity to it at this moment. There isn't actually anything about the density, configuration, or housing typology that would have warranted a PUD under today's standards (ie there isn't any discernable deviation from the current development code) or really any clear reason that a PUD overly exists but our attorney indicated that, ultimately, the only modification is to the plat. Once we have a completed application, it's a 14 day public notice period before it goes on a Town Council agenda for their review and consideration.

There are two ways to approach this:

- 1. File a replat on the entire property.
- 2. File a replat on ONLY the lots that are changing in location/configuration. This can be done piecemeal or all at once.

Please let me know if you have any additional questions.

Thanks,

Tegan

Tegan Ebbert | Deputy Town Manager | Tegan.ebbert@haydencolorado.org



Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

O: 970-276-3741 | C: 970-457-7216 | F: 970-276-3644

From: Leif Sunde <leif@denversportslab.com> Sent: Tuesday, March 4, 2025 12:06 AM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org> **Subject:** Re: Sonesta Townhome development meeting

Tegan -

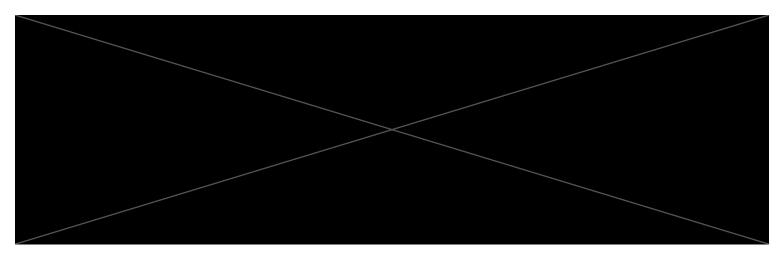
[Quoted text hidden] [Quoted text hidden]

3 attachments

Minor Subdivision Plat Checklist_2024.pdf



HAYDEN_Agreement for Payment_Dev Rev.pdf 94K



From: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Date: March 18, 2025 at 16:52:04 MDT **To:** Leif Sunde leif@denversportslab.com>

Subject: RE: Sonesta Townhome development meeting

[Quoted text hidden]

Heart of the Yampa Valley ™

Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

O: 970-276-3741 | C: 970-457-7216 | F: 970-276-3644

From: Leif Sunde <leif@denversportslab.com> Sent: Tuesday, March 4, 2025 12:06 AM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org> **Subject:** Re: Sonesta Townhome development meeting

Tegan -

I hope you're doing well. I just want to ping this to the top of your inbox in case it got buried coming in over the weekend.

On Sat, Mar 1, 2025 at 2:10 AM Leif Sunde < leif@denversportslab.com > wrote:

Tegan -

I hope you are doing well and the winter has been good for you. I am at a point with my partners that we will be finalizing the site/civil plan shortly and hoping to move dirt for site improvements this summer. I want to check with you on the required steps, approvals, and paperwork between here and there. Specific questions include but are not limited to

- · Process for administrative approval for lot-line adjustments
 - Can site work begin prior to this process?
- Permits required for site work
- Bond requirements (I believe it's 5%?)
 - Can this be a letter of credit or a surety bond?
- When are utility and other development fees assessed
 - Can any of these be deferred to time of building permit?

If it is easier to talk through this in real-time I am happy to do so at your convenience.

Thank you again, and I look forward to speaking with you.

С	Denver Sports Lab Mail - Sonesta Townhome development meeting on Tue, Nov 12, 2024 at 10:05AM Tegan Ebbert tegan.ebbert@haydencolorado.org wrote:
	Hi all,
	If you are available to be in person at Hayden Town Hall, that's great. If not, I have a teams link below.
	Thanks,
	Tegan
	Microsoft Teams Need help?
	Join the meeting now
	Meeting ID: 265 087 672 449
	Passcode: CFSpwg
	For organizers: Meeting options

--

Leif Sunde

- (c). 303.898.8995
- (e). leif@denversportslab.com

Book a Meeting

Denver Sports Lab

www.DenverSportsLab.com

--

Leif Sunde

- (c). 303.898.8995
- (e). leif@denversportslab.com

Book a Meeting

Denver Sports Lab

4 attachments

Hayden image001.png

Minor Subdivision Plat Checklist_2024.pdf

Land Use Application.pdf 70K

HAYDEN_Agreement for Payment_Dev Rev.pdf 94K

Leif Sunde <leif@denversportslab.com>

Tue, Mar 18, 2025 at 5:18 PM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>, Stephen Doyle <Steve@adaptablerea.com>

Tegan -

Thank you for the communication. I guess I am

confused as to what the delineation is between an administrative subdivision, which is what we previously discussed, and the minor subdivision as you mention here. Maybe easier to talk through in real time with the attorney.

Leif

Denver Sports Lab Shop: 720.383.8999 Cell: 303.898.8995

On Mar 18, 2025, at 16:52, Tegan Ebbert < tegan.ebbert@haydencolorado.org > wrote:

[Quoted text hidden]

Heart of the Yampa Valley ™

Haydencolorado.com

P.O. Box 190, 178 West Jefferson, Hayden, CO 81639-0190

O: 970-276-3741 | C: 970-457-7216 | F: 970-276-3644

From: Leif Sunde <leif@denversportslab.com> Sent: Tuesday, March 4, 2025 12:06 AM

To: Tegan Ebbert < tegan.ebbert@haydencolorado.org > **Subject:** Re: Sonesta Townhome development meeting

Tegan -

I hope you're doing well. I just want to ping this to the top of your inbox in case it got buried coming in over the weekend.

On Sat, Mar 1, 2025 at 2:10AM Leif Sunde <leif@denversportslab.com> wrote:

Tegan -

I hope you are doing well and the winter has been good for you. I am at a point with my partners that we will be finalizing the site/civil plan shortly and hoping to move dirt for site improvements this summer. I want to check with you on the required steps, approvals, and paperwork between here and there. Specific questions include but are not limited to

- · Process for administrative approval for lot-line adjustments
 - Can site work begin prior to this process?
- Permits required for site work
- Bond requirements (I believe it's 5%?)
 - Can this be a letter of credit or a surety bond?
- When are utility and other development fees assessed
 - Can any of these be deferred to time of building permit?

If it is easier to talk through this in real-time I am happy to do so at your convenience.

Thank you again, and I look forward to speaking with you.

On Tue, Nov 12, 2024 at 10:05AM Tegan Ebbert <tegan.ebbert@haydencolorado.org> wrote:

Hi all,

If you are available to be in person at Hayden Town Hall, that's great. If not, I have a teams link below.

Thanks.

Tegan

Microsoft Teams Need help?

Join the meeting now

Meeting ID: 265 087 672 449

Passcode: CFSpwg

For organizers: Meeting options

https://mail.google.com/mail/u/1/?ik=e734a7ec73&view=pt&search=all&permthid=thread-f:1815537102144856730&simpl=msg-f:1815537102144856730&simpl=...

--

Leif Sunde

- (c). 303.898.8995
- (e). leif@denversportslab.com

Book a Meeting

Denver Sports Lab

www.DenverSportsLab.com

--

Leif Sunde

- (c). 303.898.8995
- (e). leif@denversportslab.com

Book a Meeting

Denver Sports Lab

www.DenverSportsLab.com

4 attachments







HAYDEN_Agreement for Payment_Dev Rev.pdf

Wed, Mar 26, 2025 at 3:26 PM

To: Leif Sunde <leif@denversportslab.com>, Stephen Doyle <Steve@adaptablerea.com>

Myself, our Town Manager, and our attorney met yesterday. The Administrative Plat process has a "bump up" provision that allows that Town Manager to elevate the application to a Town Council review (ie the Minor Subdivision process, underlined below).

Administrative subdivisions are subdivisions that include

- 1. Subdividing a parcel of land for a duplex,
- 2. Replatting for the purpose of correcting survey, typographical, or similar errors ("plat corrections"),
- 3. Replatting which adjust lot lines between buildable lots, do not change the number of lots, and do not decrease the size of any non-conforming lot ("lot line adjustments").
- 4. Replatting to merge contiguous, platted lots into one or more lots and that involves no rezoning or vacation of rights-of-way or easements ("consolidation plat").

The manager has the authority to determine that an administrative subdivision application shall be processed as a minor subdivision where the character of the subdivision application or multiple applications presents issues which, in the opinion of the manager, warrant review as a minor subdivision.

Minor subdivisions include all subdivisions which would create less than six separate parcels of land, which subdivide a parcel six acres or less size; and, which do not require or propose public right-of-way dedications or public improvements; but shall not include subdivisions which are administrative subdivisions.

Initially the discussion was that the Town Manager wanted to see this elevated but after our discussion this week, he directed me to have you submit it as an Administrative Subdivision with the understanding that, upon review, he (or at Town Council's request) may need to elevate it to the Minor Subdivision process. If it does get elevated, it will do some with the clear parameters of what it is being reviewed for (ie we aren't starting the subdivision process over from square one, simply moving a few lots around).

Does that make sense? I want to apologize for the confusion on this, we are trying to be sensitive to the fact that you (and staff) want to avoid opening up the project as much as possible and creating an overly onerous process while still making sure our elected officials aren't surprised/blindsided with something coming though without their review where ambiguity exists in our code language (ie the underlined section).

I am happy to jump on a call if need be.	
Thanks,	
Tegan	

From: Leif Sunde <leif@denversportslab.com> Sent: Tuesday, March 18, 2025 5:18 PM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>; Stephen Doyle <Steve@adaptablerea.com>

Subject: Re: Sonesta Townhome development meeting

Tegan -

[Quoted text hidden]



[Quoted text hidden]

3 attachments



HAYDEN_Agreement for Payment_Dev Rev.pdf 94K



Land Use Application.pdf



Administrative Subdivision Plat Checklist_2024.pdf 312K

Leif Sunde <leif@denversportslab.com>

Fri, Mar 28, 2025 at 12:07 PM

To: Tegan Ebbert <tegan.ebbert@haydencolorado.org>

Tegan -

Thank you so much for the clarification on this, I know it is a rather muddy matter and in the context of a time where development is a hot topic in town.

I greatly appreciate your time and consideration for this project as we work to move it forward. Our targeted timeline is to be getting site overlot and compaction accomplished later this summer (Aug-Oct).

[Quoted text hidden]





Ph: 970-871-6772 · Fax: 970-879-8023 · P.O. Box 775966 · Steamboat Springs, Colorado 80477

Date: 10/02/2025

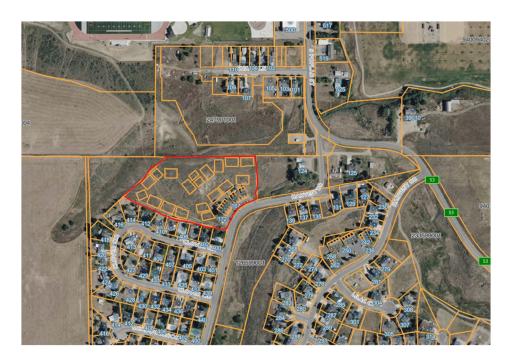
Town of Hayden Planning Department 178 W. Jefferson Ave P.O. Box 190 Hayden, CO 81639

RE: Preliminary Drainage Letter – Sonesta Townhomes

Four Points Surveying and Engineering - Job Number 1409-002

Dear Hayden Planning Department:

This drainage letter presents an analysis of stormwater runoff and stormwater management for eighteen proposed multifamily residential buildings within the Town limits of Hayden, Colorado. A vicinity map of the subject property is provided.



Vicinity Map: Tracts A, B, C AKA Common Area Sonesta Park Townhomes

Pre-development and post-development conditions for the subject property have been reviewed for purposes of this application. The proposed development is anticipated to generate an increase in peak flow rates due to the increased impervious area from paving and the building rooftops to replace existing undeveloped areas. On-site stormwater retention, in the form of a gravel infiltration basin storage areas, has been evaluated as a means to alleviate the increase of post development runoff associated with this project.

Four Points reviewed the Hayden Development Code for drainage report requirements to prepare this letter and the accompanying attachments. There are notably little to no drainage requirements provided in the Development Code for design storm parameters, post-development water quality and peak attenuation, and other calculation methods. Therefore, this letter serves as an initial overview of drainage conditions for the existing lot and subject development. Stormwater infrastructure proposed may be modified with additional evaluation of the project and prior to building permit submittal.

Pre Development Conditions:

The pre-developed site is primarily vacant and consists of native vegetation. Soil conditions were reviewed through the Natural Resources Conservation Service (NRCS) database, and the site generally consists of silt and loam subgrade stratification layers. These soils are described by NRCS as moderately poorly draining based on the Hydraulic Soil Group C rating. Soils conditions have not formally been reviewed by a geotechnical engineer via test pits, boring logs, and other sampling methods.

Three existing townhome buildings are located along the southern property boundary of the site and north of Sonesta Park Drive. The parcel has been conservatively estimated at approximately 2-5% imperviousness and makes up a total of roughly 5.5 acres in size, including the portion of the site that is made up by the three existing townhomes.

The site is gently to moderately sloping in three varying directions, as detailed on the attached Predevelopment Drainage Plan. The southern portion of the site generally slopes southerly towards Harvest Drive. There is minimal stormwater infrastructure present along Harvest Drive indicating that overland flow from the site currently sheet flows across the road. There is a small stretch of catch curb and gutter that conveys some of the Sonesta Park Drive and Harvest Drive drainage to the east. The curb and gutter transports runoff to an existing ditch that travels further east of the project site and eventually ties into municipal storm culverts near the intersection of Harvest Drive and South Poplar Street.

The remainder of the site overland flows either northerly across an existing gravel two-track roadway to a localized depression area, or directly to the east for collection into the small ditch referenced in the above paragraph. The three historical outfall points are designated and further described on the Pre-development Drainage Plan in the attachments.

Post-Development Conditions:

The site will be divided into four distinct drainage basins based on the post-development conveyance of stormwater for the project. Each of the four subbasins are described below.

Development Basin 1 (DB1): This is the largest subbasin (2.36 acres) and includes developed areas within the southern and central portions of the project site. Precipitation in this area will generally be conveyed by roadside valley pans, storm inlets and culverts, and vegetated swales to a gravel infiltration retention area in the southern corner of the development. The infiltration area shown is highly dependent on available soil conditions and may need to be modified to a detention pond facility with an outlet structure following additional review of site conditions. We are proposing this as on-site retention and infiltration to limit the need for a discharge pipe to span beneath Harvest Drive to daylight into the roadside ditch on the south side of the road. Additional modifications to the gravel retention area may be provided pending discussions generated with the Town of Hayden.

Development Basin 2 (DB2): This basin consists of 1.14 acres of developed area along the eastern portion of the project site. Stormwater runoff in this basin will be conveyed primarily via valley pans to a series of inlet structures located at the entry to the site. The inlets will deposit site flows to the east at historical outfall point 2, which consists of the ditch leading to the intersection of Harvest Drive and North Poplar Street. Further

evaluation will be provided to detail impacts between existing and proposed conditions to evaluate if downstream infrastructure has sufficient capacity for passing the anticipated increase of peak flows generated from the project.

Development Basin 3 (DB3): This basin includes approximately a 1.0 acre of developed area along the north and western portion of the site. Stormwater generated in this area will be routed from the road valley pan, to the inlet structure shown, and ultimately discharging at design point 3. There is potential to include additional stormwater detention or mitigate velocities with a riprap lined ditch in this area prior to release off-site. At this time, the outfall of the storm sewer pipe is shown as terminating into a grass-lined swale to convey site flows to the north following historical patterns for this area and as shown on the Pre-development Drainage Plan.

Development Basin 4 (DB4): This basin includes approximately 0.62 acres of entirely undeveloped/non-impervious area that will discharge directly north and west offsite to mimic historical release conditions.

See the provided Proposed Drainage Plan for additional information on the four basins described above.

Recommendations:

Formal Rational and NRCS method hydraulic calculations for the project have not been evaluated at this time. Additional geotechnical evaluation is recommended to ensure that infiltrated areas may operate effectively with the intended design and will not result in conflicts with adjacent facilities. Additionally, Four Points intends to work directly with the Town of Hayden to minimize any stormwater impacts proposed with this design. The downstream sizing of collection ditches, storm culverts, and other town infrastructure may require additional survey to finalize the drainage conditions under evaluation.

We look forward to your review of this drainage letter and hope to answer any questions as this project progresses. Please refer to the attachments listed below for additional information pertaining to the exhibits that were used within this preliminary analysis.

Attachments:

- 1. NRCS Web Soil Survey
- 2. Pre Development Drainage Plan (DR1)
- 3. Post Development Drainage Plan (DR2)



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Routt Area, Colorado, Parts of Rio Blanco and Routt Counties



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	
Legend	
Map Unit Legend	
Map Unit Descriptions	
Routt Area, Colorado, Parts of Rio Blanco and Routt Counties	14
6B—Zoltay loam, 0 to 10 percent slopes	14
7C—Morapos loam, 3 to 12 percent slopes	15
10E—Bulkley silty clay, 12 to 25 percent slopes	17
102—Shermap loam, 3 to 25 percent slopes	18
Soil Information for All Uses	20
Soil Properties and Qualities	20
Soil Qualities and Features	20
Hydrologic Soil Group	20
References	26

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

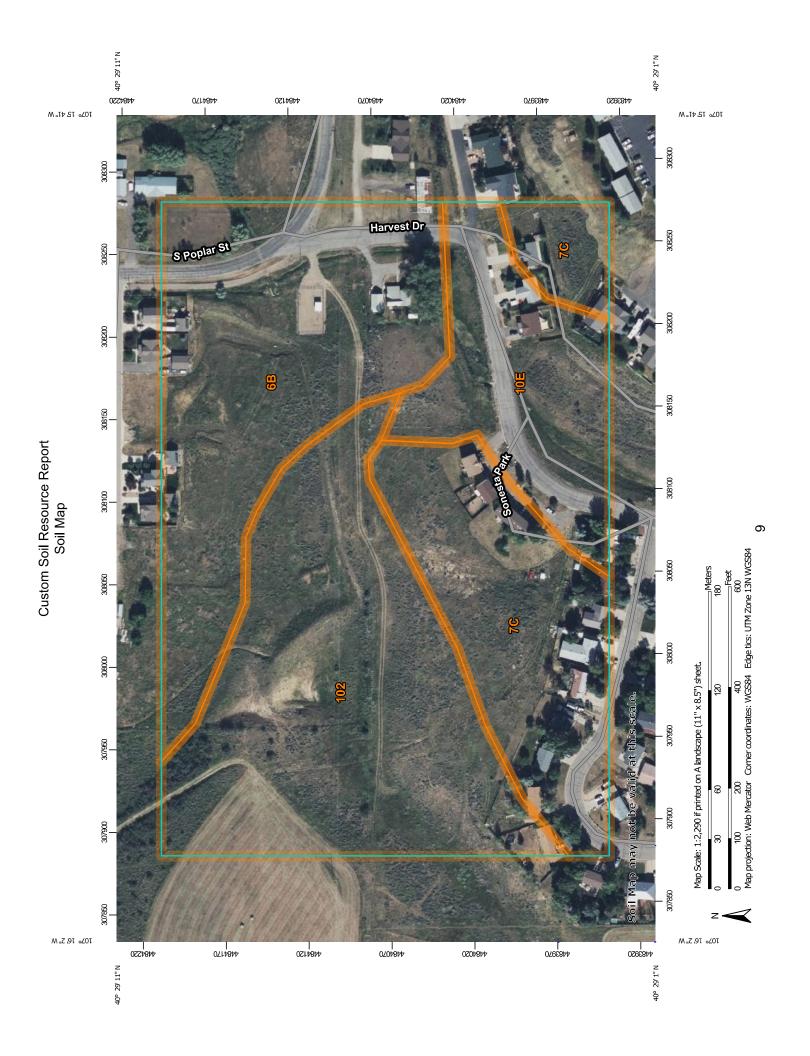
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Special Line Features Streams and Canals Interstate Highways Aerial Photography Very Stony Spot Major Roads Local Roads Stony Spot US Routes Spoil Area Wet Spot Other Nater Features **Fransportation 3ackground** ŧ Soil Map Unit Polygons Severely Eroded Spot Area of Interest (AOI) Soil Map Unit Points Miscellaneous Water Soil Map Unit Lines Closed Depression Marsh or swamp Perennial Water Mine or Quarry Rock Outcrop Special Point Features **Gravelly Spot** Saline Spot Sandy Spot Slide or Slip Borrow Pit Lava Flow Sodic Spot Clay Spot **Gravel Pit** Area of Interest (AOI) Sinkhole Blowout Landfill Soils

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Routt Area, Colorado, Parts of Rio Blanco and Routt Counties

Version 15, Aug 29, 2025

Survey Area Data:

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 9, 2020—Jul 11, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6B	Zoltay loam, 0 to 10 percent slopes	7.9	29.6%
7C	Morapos loam, 3 to 12 percent slopes	5.8	21.8%
10E	Bulkley silty clay, 12 to 25 percent slopes	3.9	14.6%
102	Shermap loam, 3 to 25 percent slopes	9.0	34.0%
Totals for Area of Interest		26.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Routt Area, Colorado, Parts of Rio Blanco and Routt Counties

6B—Zoltay loam, 0 to 10 percent slopes

Map Unit Setting

National map unit symbol: k0f2 Elevation: 6,400 to 6,890 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Zoltay and similar soils: 90 percent *Minor components*: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zoltay

Setting

Landform: Drainageways, alluvial fans

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from sandstone and shale

Typical profile

Ap - 0 to 12 inches: loam
Bt1 - 12 to 20 inches: silty clay
Bt2 - 20 to 25 inches: silty clay
Bt3 - 25 to 33 inches: silty clay loam
Bk1 - 33 to 41 inches: clay loam
Bk2 - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.07 to 0.21 in/hr)

Depth to water table: About 36 to 60 inches

Frequency of flooding: Very rare Frequency of ponding: None

Calcium carbonate, maximum content: 12 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 11.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: R048AY292CO - Deep Loam

Hydric soil rating: No

Minor Components

Furia

Percent of map unit: 10 percent Landform: Depressions on flood plains Landform position (three-dimensional): Dip

Down-slope shape: Linear Across-slope shape: Concave

Ecological site: R048AY245CO - Mountain Swale

Hydric soil rating: No

7C—Morapos Ioam, 3 to 12 percent slopes

Map Unit Setting

National map unit symbol: k0f3 Elevation: 6,300 to 7,220 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Morapos and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morapos

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Slope alluvium derived from shale

Typical profile

A - 0 to 6 inches: loam
AB - 6 to 12 inches: loam
Bt - 12 to 16 inches: clay
Btk - 16 to 22 inches: clay
Bk1 - 22 to 32 inches: clay
Bk2 - 32 to 40 inches: clay loam
Bk3 - 40 to 60 inches: clay loam

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.07 to 0.21 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: R048AY292CO - Deep Loam

Hydric soil rating: No

Minor Components

Obadia

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Side slope

Down-slope shape: Concave Across-slope shape: Linear

Ecological site: R048AY247CO - Deep Clay Loam Other vegetative classification: mountain swale (null 47)

Hydric soil rating: No

Morapos, very stony

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R048AY292CO - Deep Loam

Hydric soil rating: No

Bulkley

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R048AY247CO - Deep Clay Loam

Hydric soil rating: No

10E—Bulkley silty clay, 12 to 25 percent slopes

Map Unit Setting

National map unit symbol: k0f9 Elevation: 6,300 to 7,220 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Bulkley and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bulkley

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Colluvium and/or slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 4 inches: silty clay Bkss - 4 to 32 inches: silty clay Bk - 32 to 46 inches: silty clay Bky - 46 to 60 inches: silty clay

Properties and qualities

Slope: 12 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.07 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 7s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R048BY296CO - Claypan

Hydric soil rating: No

102—Shermap loam, 3 to 25 percent slopes

Map Unit Setting

National map unit symbol: k0j4 Elevation: 6,230 to 6,890 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 42 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Shermap and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Shermap

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone and shale and/or slope

alluvium derived from sandstone

Typical profile

A1 - 0 to 12 inches: loam
A2 - 12 to 22 inches: loam
Bt1 - 22 to 35 inches: clay loam
Bt2 - 35 to 65 inches: clay loam

Properties and qualities

Slope: 3 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.21

to 0.71 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: R048AY238CO - Brushy Loam

19

Hydric soil rating: No

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

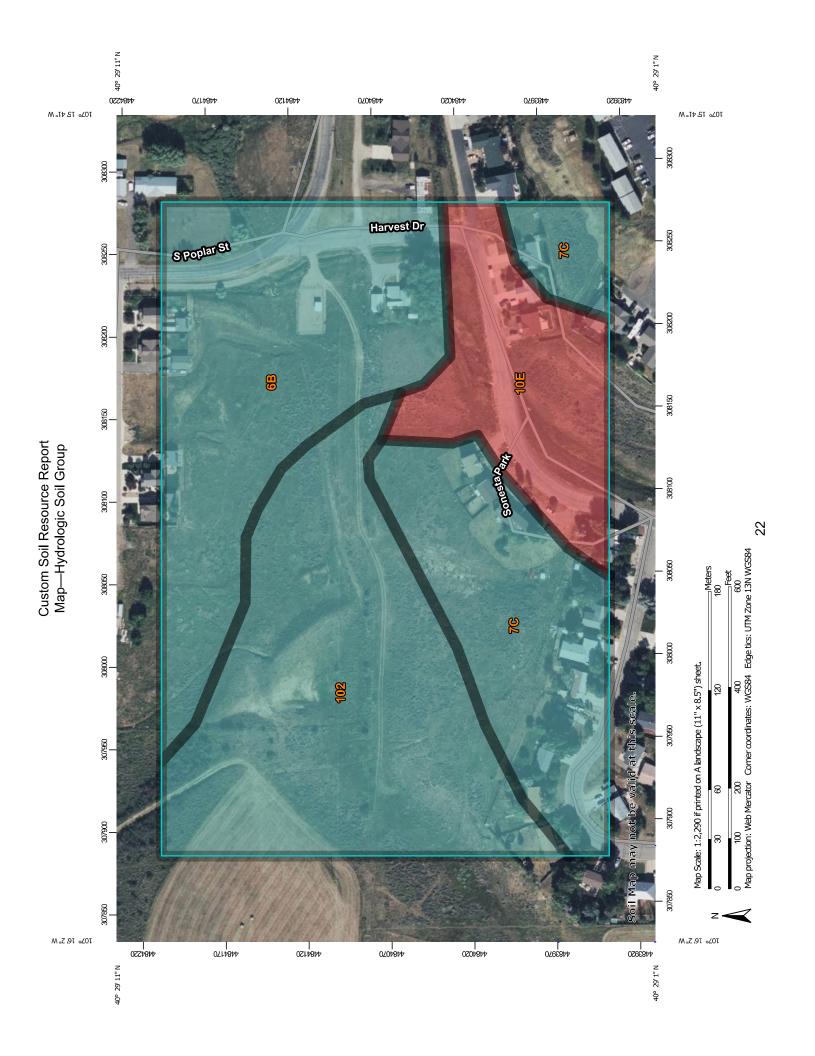
Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.



MAP LEGEND

Not rated or not available Streams and Canals Interstate Highways Major Roads Local Roads **US Routes** Rails C/D Water Features Transportation **Background** ŧ Not rated or not available Area of Interest (AOI) Soil Rating Polygons Area of Interest (AOI) Soil Rating Lines ΑD B/D S O

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Aerial Photography

ΑP

B/D

В

S

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Routt Area, Colorado, Parts of Rio Blanco and Routt Counties

Not rated or not available

Soil Rating Points

ΑD

Survey Area Data: Version 15, Aug 29, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 9, 2020—Jul 11, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
6B	Zoltay loam, 0 to 10 percent slopes	С	7.9	29.6%
7C	Morapos loam, 3 to 12 percent slopes	С	5.8	21.8%
10E	Bulkley silty clay, 12 to 25 percent slopes	D	3.9	14.6%
102	Shermap loam, 3 to 25 percent slopes	С	9.0	34.0%
Totals for Area of Intere	est		26.5	100.0%

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

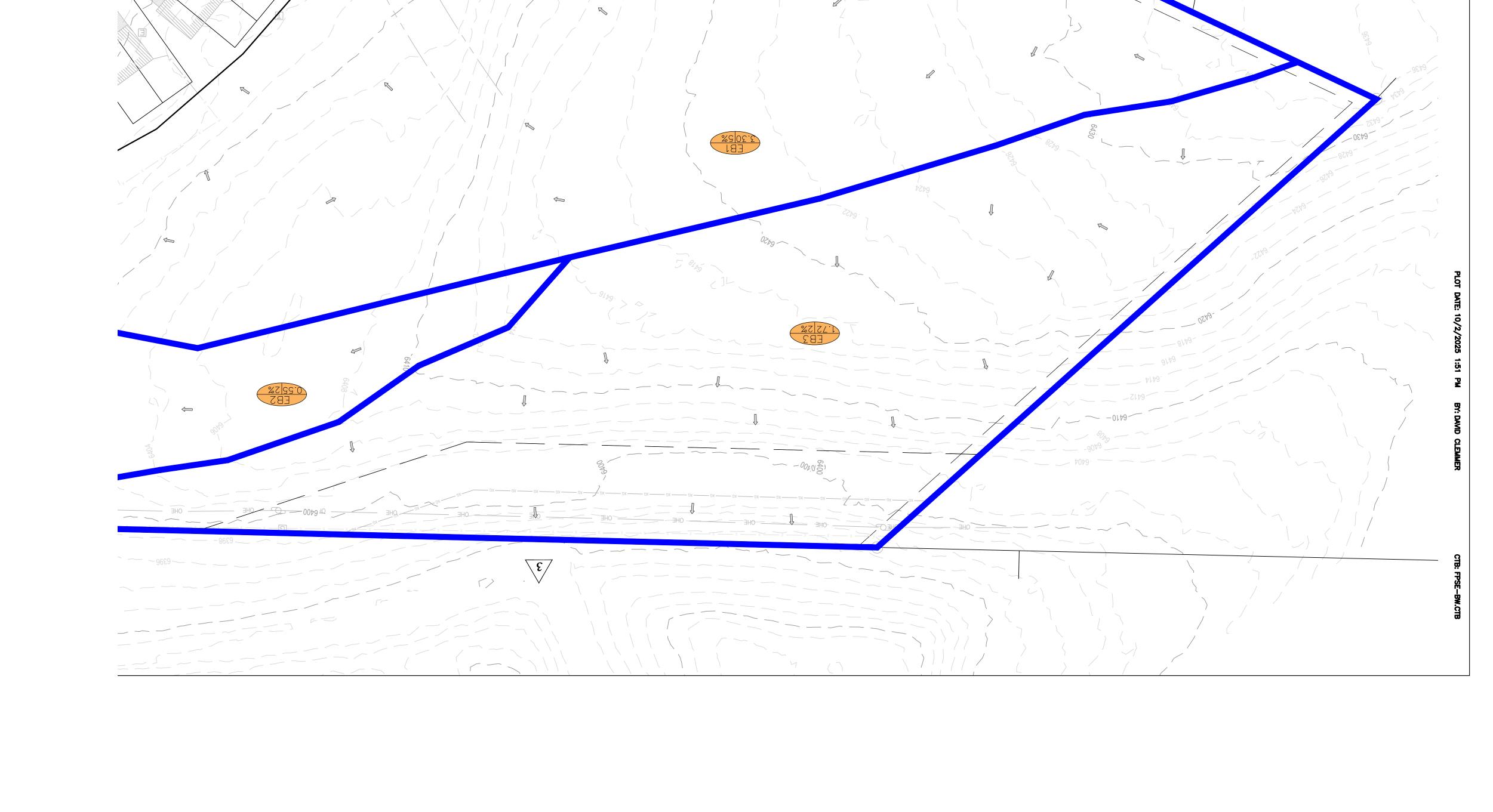
United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

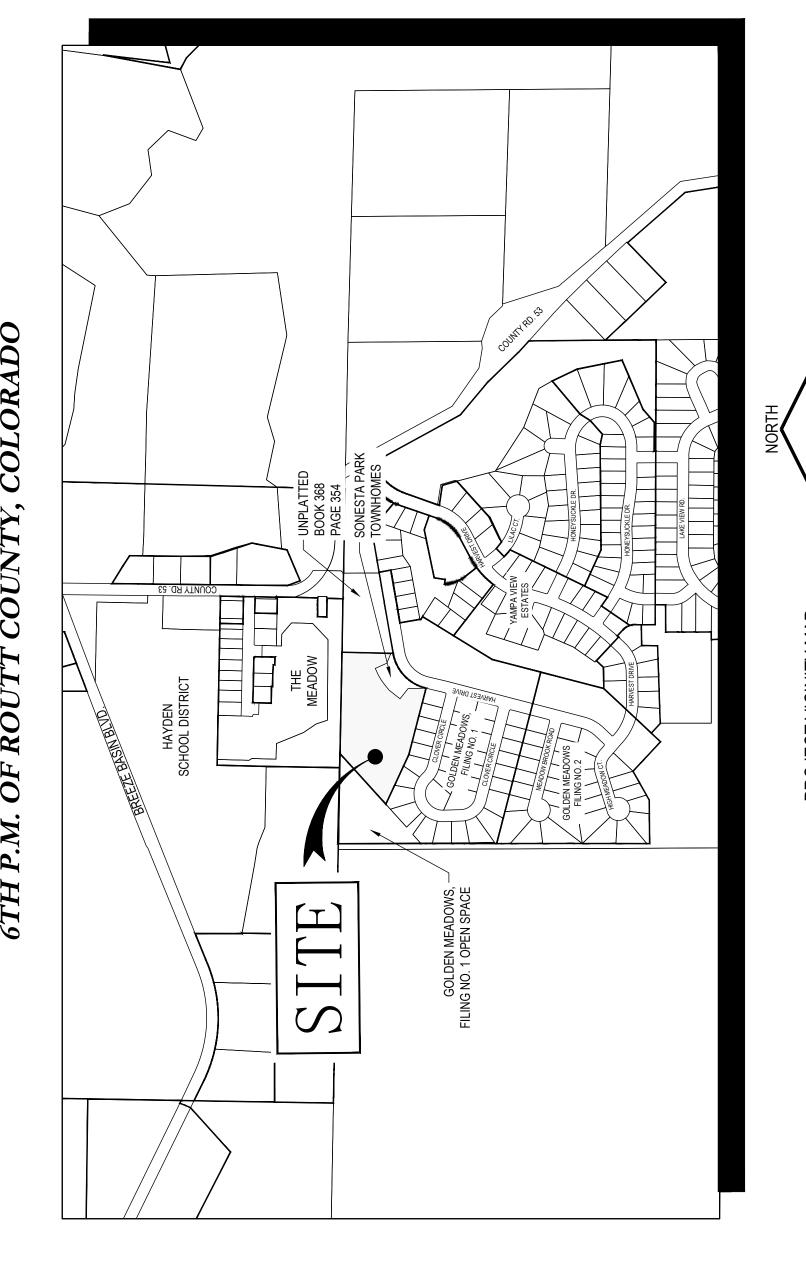






PARK DI PERMI for SONEST

WEST, RANGE 88 NE $\frac{1}{4}$ OF SECTION 16, TOWNSHIP 6 NORTH, 6TH P.M. OF ROUTT COUNTY, COLORADO THE CATED



LIST	
TACT	
ECT CON	

PROJECT OWNER	
HEALTH CARE MANAGEMENT LLC.	EMAIL: leif@denversportsl
PROJECT ARCHITECT	
WEFING DESIGN STUDIO	OFFICE: (312) 583-7087
ATTN: Erich Wefing	EMAIL: erich@wds-ad.com
Fine Arts Building Suite 512	

Fine Arts Building, Suite Schicago, IL 60605

CIVIL ENGINEER
FOUR POINTS SURVEY ATTN: Walter Magill, PE 410 South Lincoln Ave, S P.O. Box 775966
Steamboat Springs, CO 8

OFFICE: (970) 871-6772 CELL: (970) 819-1161 EMAIL: walterm@fourpoint

HEET TITLE SHEET INDEX
SHEET NUMBER

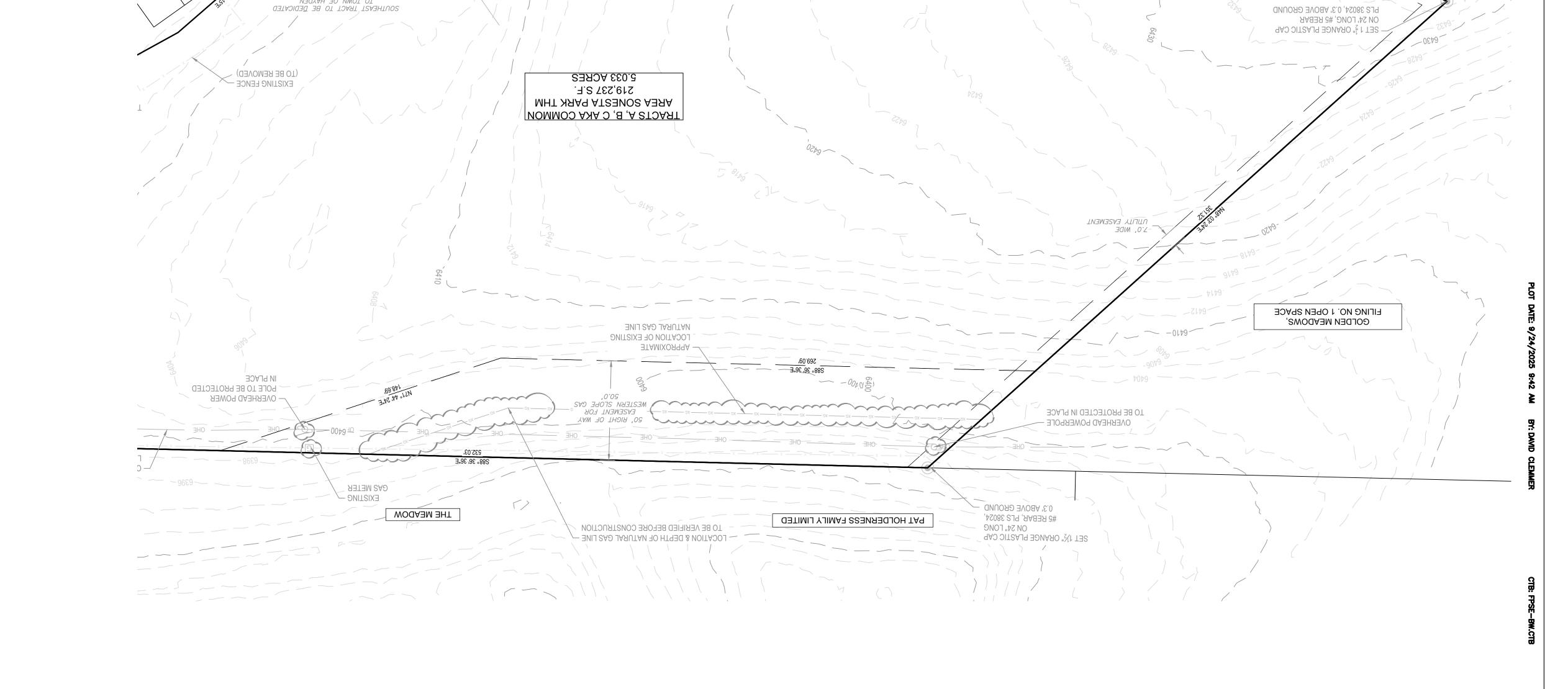
SHEET 1 OF 9
SHEET 2 OF 9
SHEET 3 OF 9
SHEET 4 OF 9
SHEET 5 OF 9
SHEET 6 OF 9
SHEET 7 OF 9
SHEET 7 OF 9
SHEET 7 OF 9

UTILITY CONTACT LIST WATER AND SANITARY SEWE ELECTRICAL

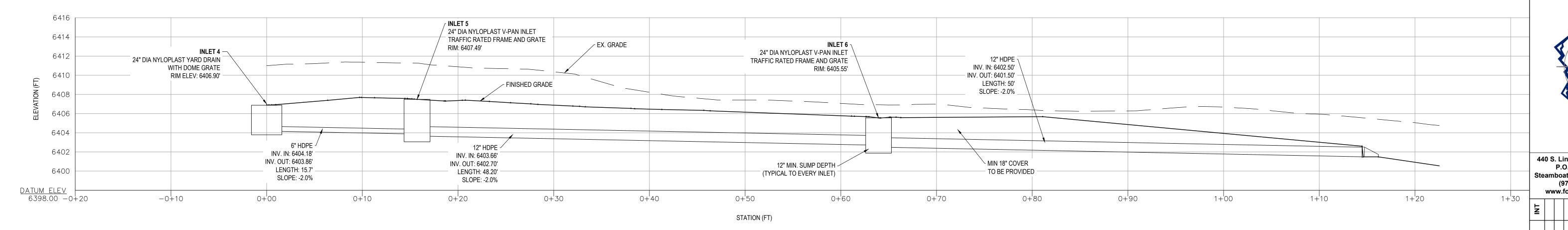
CABLE TELEVISION

UTILITY NOTIFICATION CENTER OF COLOR CALL TWO BUSINESS DAYS BEFORE YOU OR EXCAVATE FOR THE MARKING OF UNI 1-800-922-1987 COMCAST
625 SOUTH LINCOLN, SUITE #205
STEAMBOAT SPRINGS, CO 80487
PHONE: CONTACT: TONY HIL

Four Points Surveying & Engineering 410 S. Lincoln Ave, Unit 15 P.O. Box 775966 Steamboat Springs, CO 80487 (970)-871-6772 walterm@fourpointsse.com



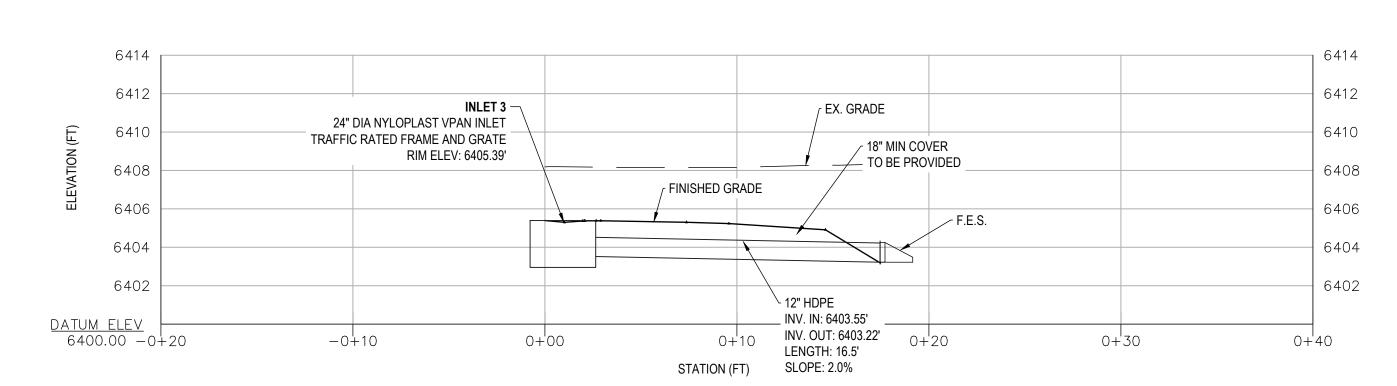
H.PM. (1398) 9199 4139 4139 5139 5139 5139 5139 5139 5139 5139 5
N 513N 753N 108N GENERAL GENER



STORM SYSTEM 3

HORIZONTAL SCALE: 1" = 5'

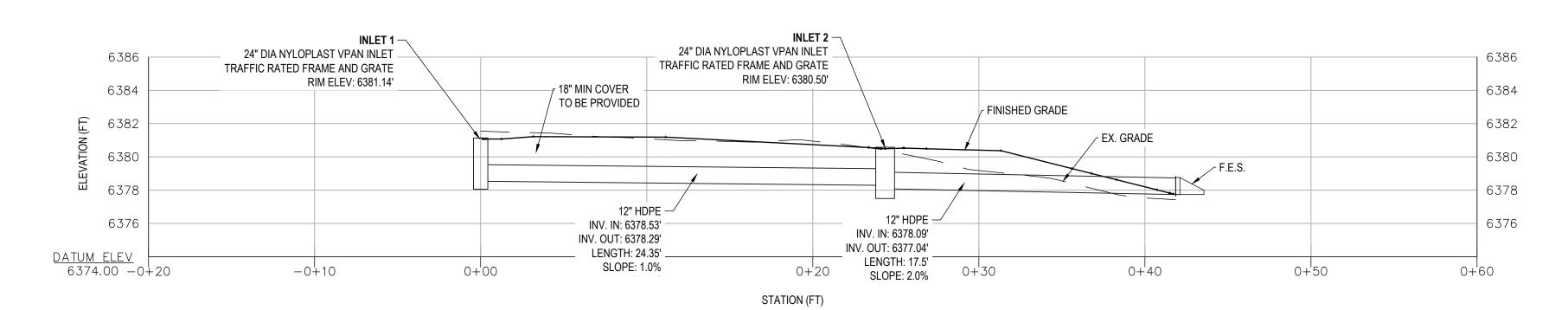
VERTICAL SCALE: 1" = 5'



STORM SYSTEM 2

HORIZONTAL SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'



STORM SYSTEM 1

HORIZONTAL SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'



TYPICAL NYLOPLAST ROAD INLET

							TATOU		SURVEYING ENGINE		
70	440 S. Lincoln Ave, Suite 4A P.O. Box 775966 Steamboat Springs, CO 80487 (970)-871-6772 www.fourpointsse.com										
50	IN										
	REVISIONS										
	DATE										
	NO.										

SONESTA TOWNHOMES
CIVIL PERMIT PLANS
TOWN OF HAYDEN, COLORAE

DATE: 10/02/2025

JOB #: 1409-002

DRAWN BY: DSC

DESIGN BY: DSC

REVIEW BY: WNM

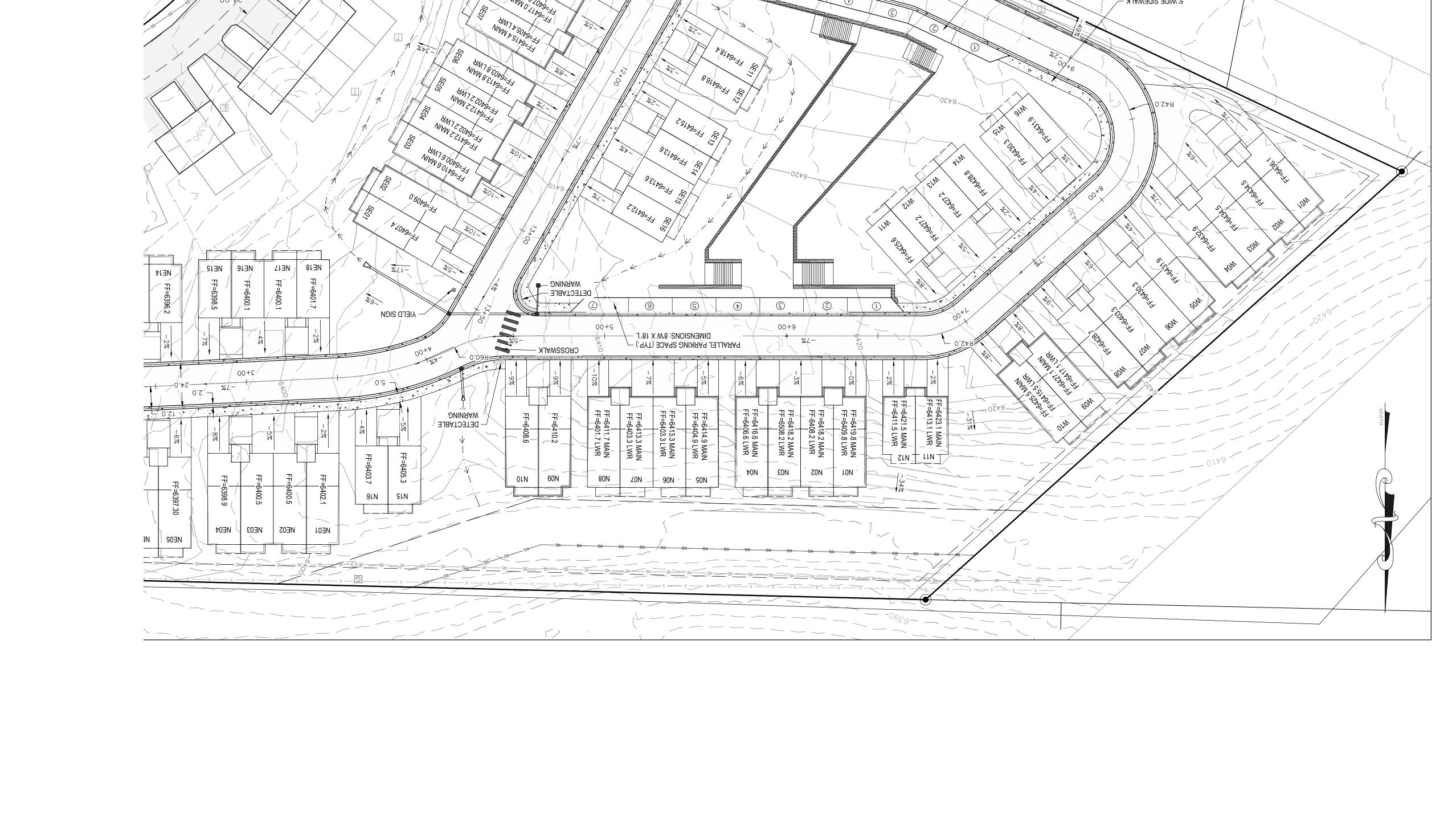
IF THIS DRAWING IS PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD BE UTILIZED.

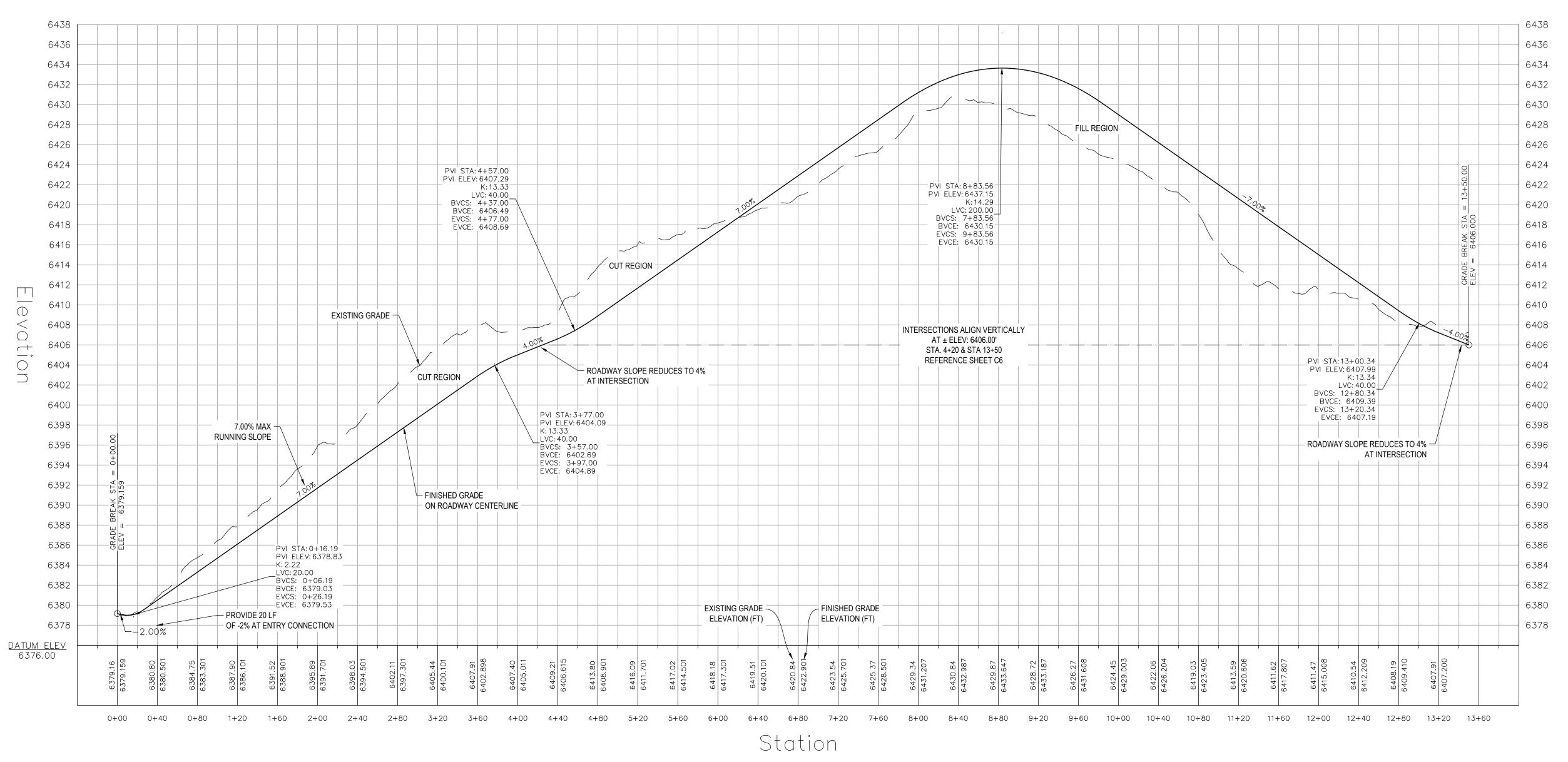
STORMWATER PROFILES

SHEET NO.

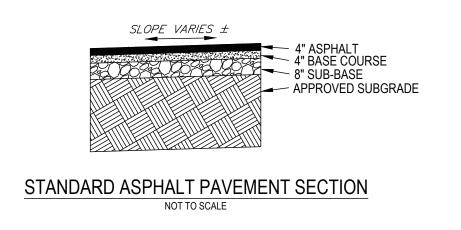
C4

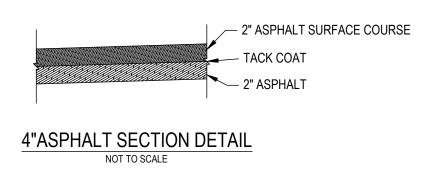


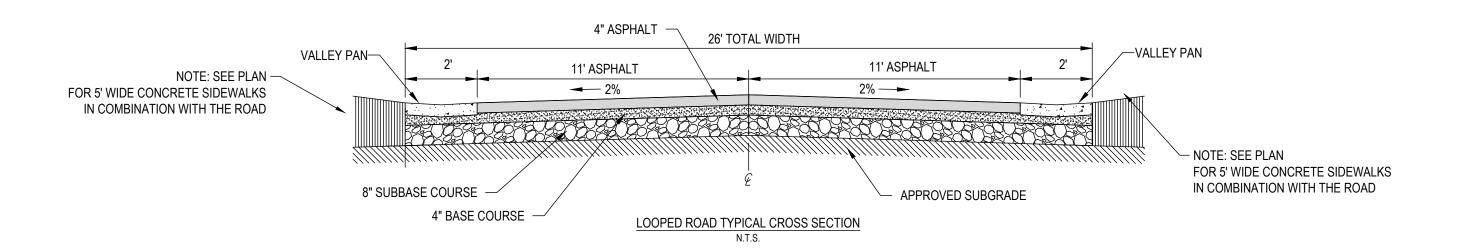




ROADWAY PROFILE HORIZONTAL SCALE: 1" = 60' VERTICAL SCALE: 1" = 6'







DRIVEWAY SURFACING NOTES:

- PRIOR TO THE PLACEMENT OF SUB-BASE AGGREGATES, THE EXPOSED SUB-GRADE SOILS SHALL BE UNIFORMLY SCARIFIED, MIXED, AND
 MOISTURE TREATED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT, AND THEN RE-COMPACTED TO AT LEAST 95% OF THE MAXIMUM
 STANDARD PROCTOR DENSITY.
- 2. BASE COURSE AND SUB-BASE AGGREGATES SHALL MEET THE CDOT CLASS 6 ABC AND CLASS 2/1 ABC SPECIFICATIONS, RESPECTIVELY. BASE COURSE AND SUB-BASE AGGREGATES SHALL BE PLACED IN ONE LIFT AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM MODIFIED PROCTOR DENSITY IN ACCORDANCE WITH ASTM 1557.
- 3. DRIVEWAY SLOPES SHALL BE FINE GRADED AND TRACKED PERPENDICULAR TO THE DRIVEWAY CENTERLINE. ALL ADJACENT SLOPES SHALL BE SEEDED WITH NATIVE GRASS SEED AND STABILIZED STRAW BLANKET OR SIMILAR EROSION CONTROL MAT. SEED SHALL BE WATERED AS NECESSARY TO PROMOTE AND SUSTAIN GROWTH.



440 S. Lincoln Ave, Suite 4A P.O. Box 775966 Steamboat Springs, CO 80487 (970)-871-6772 www.fourpointsse.com								
INI								
REVISIONS								
DATE								
NO.								

SONESTA TOWNHOMES CIVIL PERMIT PLANS

DATE: 10/02/2025 JOB #: 1409-002 DRAWN BY: DSC DESIGN BY: DSC REVIEW BY: WNM

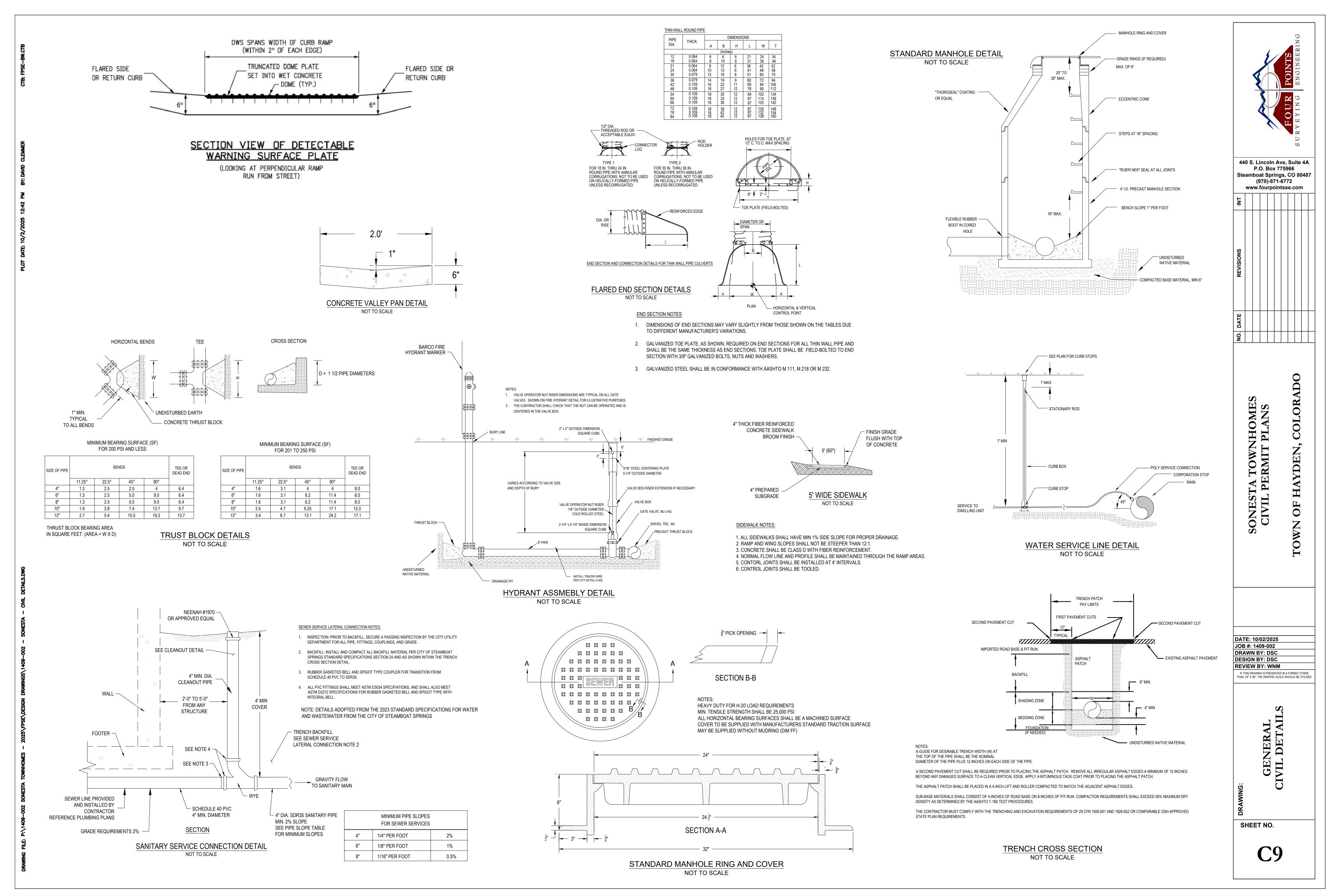
IF THIS DRAWING IS PRESENTED IN A FORMAT OTHER THAN 24" X 36", THE GRAPHIC SCALE SHOULD BE UTILIZED.

ROADWAY PROFILE

DRAWING:

SHEET NO.

C











NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Routt Area, Colorado, Parts of Rio Blanco and Routt Counties



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	
Legend	
Map Unit Legend	12
Map Unit Descriptions	12
Routt Area, Colorado, Parts of Rio Blanco and Routt Counties	
6B—Zoltay loam, 0 to 10 percent slopes	14
7C—Morapos loam, 3 to 12 percent slopes	15
10E—Bulkley silty clay, 12 to 25 percent slopes	17
102—Shermap loam, 3 to 25 percent slopes	18
Soil Information for All Uses	20
Soil Properties and Qualities	20
Soil Qualities and Features	
Hydrologic Soil Group (SONESTA)	20
References	

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

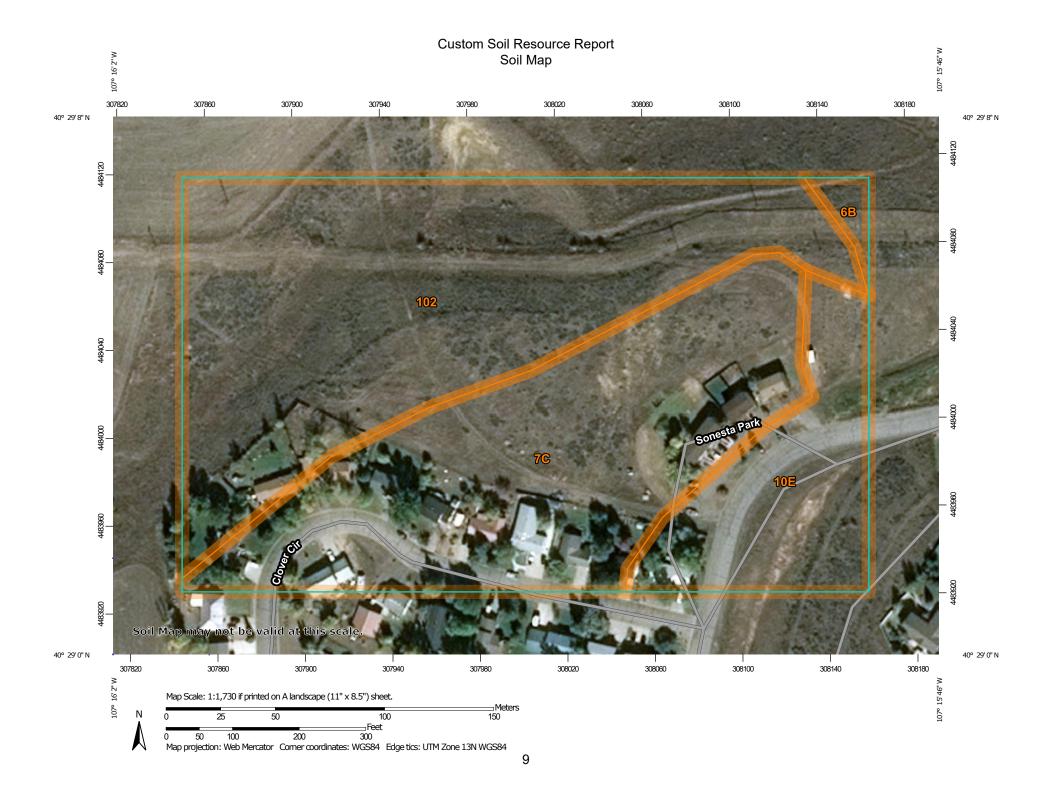
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points **Special Point Features** Blowout (0) Borrow Pit Clay Spot **Closed Depression** Gravel Pit Gravelly Spot Landfill Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole

Slide or Slip

Sodic Spot



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Routt Area, Colorado, Parts of Rio Blanco and

Routt Counties

Survey Area Data: Version 10, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 8, 2012—Oct 5, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6B	Zoltay loam, 0 to 10 percent slopes	0.2	1.1%
7C	Morapos loam, 3 to 12 percent slopes	5.5	37.2%
10E	Bulkley silty clay, 12 to 25 percent slopes	2.1	14.4%
102	Shermap loam, 3 to 25 percent slopes	7.0	47.4%
Totals for Area of Interest	'	14.7	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Routt Area, Colorado, Parts of Rio Blanco and Routt Counties

6B—Zoltay loam, 0 to 10 percent slopes

Map Unit Setting

National map unit symbol: k0f2 Elevation: 6,400 to 6,890 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Zoltay and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zoltay

Setting

Landform: Alluvial fans, drainageways

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from sandstone and shale

Typical profile

Ap - 0 to 12 inches: loam

Bt1 - 12 to 20 inches: silty clay

Bt2 - 20 to 25 inches: silty clay

Bt3 - 25 to 33 inches: silty clay loam

Bk1 - 33 to 41 inches: clay loam

Bk2 - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.07 to 0.21 in/hr)

Depth to water table: About 36 to 60 inches

Frequency of flooding: NoneVery rare

Frequency of ponding: None

Calcium carbonate, maximum content: 12 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 11.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C Ecological site: R048AY292CO

Hydric soil rating: No

Minor Components

Furia

Percent of map unit: 10 percent Landform: Depressions on flood plains Landform position (three-dimensional): Dip

Down-slope shape: Linear Across-slope shape: Concave Ecological site: R048AY245CO

Hydric soil rating: No

7C—Morapos loam, 3 to 12 percent slopes

Map Unit Setting

National map unit symbol: k0f3 Elevation: 6,300 to 7,220 feet

Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Morapos and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morapos

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Slope alluvium derived from shale

Typical profile

A - 0 to 6 inches: loam
AB - 6 to 12 inches: loam
Bt - 12 to 16 inches: clay
Btk - 16 to 22 inches: clay
Bk1 - 22 to 32 inches: clay
Bk2 - 32 to 40 inches: clay loam
Bk3 - 40 to 60 inches: clay loam

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.07 to 0.21 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C Ecological site: R048AY292CO

Hydric soil rating: No

Minor Components

Obadia

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Side slope

Down-slope shape: Concave Across-slope shape: Linear Ecological site: R048AY247CO

Other vegetative classification: mountain swale (null_47)

Hydric soil rating: No

Bulkley

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear Ecological site: R048AY247CO

Hydric soil rating: No

Morapos, very stony

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Convex Ecological site: R048AY292CO

Hydric soil rating: No

10E—Bulkley silty clay, 12 to 25 percent slopes

Map Unit Setting

National map unit symbol: k0f9 Elevation: 6,300 to 7,220 feet

Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 41 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Bulkley and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bulkley

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Colluvium and/or slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 4 inches: silty clay Bkss - 4 to 32 inches: silty clay Bk - 32 to 46 inches: silty clay Bky - 46 to 60 inches: silty clay

Properties and qualities

Slope: 12 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.07 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 7s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R048BY296CO

Hydric soil rating: No

102—Shermap loam, 3 to 25 percent slopes

Map Unit Setting

National map unit symbol: k0j4 Elevation: 6,230 to 6,890 feet

Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 42 to 45 degrees F

Frost-free period: 70 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Shermap and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Shermap

Setting

Landform: Hills

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone and shale and/or slope

alluvium derived from sandstone

Typical profile

A1 - 0 to 12 inches: loam
A2 - 12 to 22 inches: loam
Bt1 - 22 to 35 inches: clay loam
Bt2 - 35 to 65 inches: clay loam

Properties and qualities

Slope: 3 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.21

to 0.71 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C Ecological site: R048AY238CO



MAP LEGEND Area of Interest (AOI) С Area of Interest (AOI) C/D Soils D Soil Rating Polygons Not rated or not available Α **Water Features** A/D Streams and Canals В Transportation B/D Rails +++ С Interstate Highways C/D **US Routes** Major Roads Not rated or not available Local Roads Soil Rating Lines Background Aerial Photography Not rated or not available **Soil Rating Points** Α A/D B/D

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Routt Area, Colorado, Parts of Rio Blanco and

Routt Counties

Survey Area Data: Version 10, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 8, 2012—Oct 5, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

Table—Hydrologic Soil Group (SONESTA)

		_		
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
6B	Zoltay loam, 0 to 10 percent slopes	С	0.2	1.1%
7C	Morapos loam, 3 to 12 percent slopes	С	5.5	37.2%
10E	Bulkley silty clay, 12 to 25 percent slopes	D	2.1	14.4%
102	Shermap loam, 3 to 25 percent slopes	С	7.0	47.4%
Totals for Area of Intere	est	1	14.7	100.0%

Rating Options—Hydrologic Soil Group (SONESTA)

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



Based on the presently platted and entitled number of lots being preserved, a traffic study is not applicable. This is on the basis of the development presenting no increased traffic flow from what is presently identified and accounted for in roadway and traffic infrastructure planning.



A geologic report is forthcoming, and will be presented with or before the Final Plat Application
for the development.





Sonesta Park P.U.D.
Located in the NE 1/4 of Section 16,
Township 6 North, Range 88
West, 6th P.M., Town of Hayden,
Routt County, Colorado

OH2 WALL MOUNTED OVER GARAGE FIXTURE

OH1 WALL MOUNTED OVER DOOR FIXTURE

INW IN-WALL LIGHT FIXTURE

BLD BOLLARD WITH INTEGRATED LIGHT

STRT 8'0" TALL LATERN-STYLE STREET LIGHT

QTY (32) OVERALL STREET LIGHTS

WDS

410 SOUTH MICHIGAN AVENUE SUITE 512 CHICAGO ILLINOIS 60605

312.583.7087 ERICH@WDS-AD.COM

SONESTA PARK P.U.D.

MISSION	
DATE	DESCRIPTION
10.02.2025	SITE PLAN SUBMISSION
	DATE

TOWN OF HAYDEN, ROUTT COUNTY, COLORADO

SITE LIGHTING PLAN

SL-1.0



There are no third-party claims to any mineral, oil, or gas rights subject to the property, whether surface or subsurface.
Surface of Subsurface.



There are no proposed covenants at this time.

NOTICE OF PUBLIC HEARING

Planning Commission – Thursday, November 25, 2025



We are interested in

your comments regarding the following proposal.

Project: Sonesta Park Preliminary Plan

Area and Location: The property is described as Lots 1-64 INC SONESTA PARK THM. in Hayden,

Colorado.

Applicant HCMH, LLC

Summary: The applicant has submitted a preliminary plan application to amend and change a

previously approved subdivision for Lots 1-64 of Sonesta Park THM. The property was originally entitled as a part of a PUD subdivision process in 1980, and this application seeks to amend the current layout to adjust the lot layout, design for emergency access,

public services, open space, and parking for the units.

The full application submittal can be found at https://haydencolorado.com/planning-and-

zoning/

The Hayden Planning Commission will hold a Public Hearing and consider this item.

Meeting Schedule: <u>Planning Commission</u>: Public Hearing for this application is Thursday, November

25, 2025 at 6:00 pm.

The Public Hearing is held at Hayden Town Hall, 178 West Jefferson Avenue,

Hayden, Colorado.

Please reply by: November 21, 2025 for comments to be entered into the record for Planning

Commission consideration. Public comment can be made in person or virtually during

the Public Hearing.

Contact/Reply to:

Tegan Ebbert, **Phone:** (970) 276-3741 **Community Development Director Fax:** (970) 276-3644

Box 190, Hayden, CO 81639 E-Mail: Tegan.ebbert@haydencolorado.org

The notice of public hearings has been prepared and sent per Section 7.16.020(d) of the Hayden Development Code. Any comments or issues you may wish to address would be appreciated. Please reply by the above dates so that we may consider your comments regarding the application. Should you have any questions please call or email via the contact information listed above.

Sonesta Townhomes Traffic Impact Study



Submittal Date: October 28, 2025

Submitted To:

Denver Sports Lab. 15744 W 6th Avenue Golden, CO 80401

Submitted By:

Fox Tuttle Transportation Group, LLC 1580 Logan Street, Suite 600-PMB 0604 Denver, CO 80203



TABLE OF CONTENTS

1.0	Introduc	tion	1
2.0	Project [Description	1
3.0	Study Co	onsiderations	2
	3.1	Data Collection	2
	3.2	Evaluation Methodology	2
	3.3	Level of Service Capacity Analysis	2
4.0	Existing	Conditions	3
	4.1	Roadways	3
	4.2	Intersections	4
	4.3	Pedestrian and Bicycle	4
	4.4	Transit	4
	4.5	Existing Intersection Capacity Analysis	4
5.0	Future C	Conditions	5
	5.1	Annual Growth Factor and Future Volume Methodology	5
	5.2	Year 2028 Anticipated Transportation Network	5
	5.3 Meado	Year 2028 Background Intersection Capacity Analysis (with or withows project)	
	5.4	Year 2045 Anticipated Transportation Network	6
	5.5	Year 2045 Background Intersection Capacity Analysis	6
6.0	Future T	raffic Conditions with Sonesta Townhomes	8
	6.1	Trip Generation	8
	6.2	Trip Distribution and Assignment	8
	6.3	Year 2028 Background + Project Intersection Capacity Analysis	9
	6.4	Year 2045 Background + Project Intersection Capacity Analysis	9
7.0	Queuing	g Analysis	10
8.0	CDOT A	ccess Permit	11
9.0	Conclusi	ions	12

LIST OF TABLES

Гable 1 — Peak Hour Intersection Level of Service Summary	15
Table 2 – Peak Hour Estimated 95 th Percentile Queues	16
Table 3 – Trip Generation Summary	17
Table 4 – CDOT Access Permit Calculations	12
<u>LIST OF FIGURES</u>	
Figure 1 – Vicinity Map	18
Figure 2 – Conceptual Site Plan	19
Figure 3 – Existing Traffic Volumes	20
Figure 4 – Year 2028 Background Traffic Volumes (without Moonlit)	21
Figure 5 – Year 2028 Background Traffic Volumes (with Moonlit)	22
Figure 6 – Year 2045 Background Traffic Volumes (with Moonlit)	23
Figure 7 – Site Trip Distribution	24
Figure 8 – Site-Generated Trips	25
Figure 9 – Year 2028 Background + Project Traffic Volumes (without Moonlit)	26
Figure 10 – Year 2028 Background + Project Traffic Volumes (with Moonlit)	27
Figure 11 – Vear 2005 Background + Project Traffic Volumes (with Moonlit)	28

APPENDIX

Level of Service Definitions

Existing Traffic Data

Intersection Capacity Worksheets

Signal Warrant Analysis

SONESTA TOWNHOMES TRAFFIC IMPACT STUDY

1.0 Introduction

The Fox Tuttle Transportation Group has prepared this traffic impact study for the Sonesta Townhomes residential development project. The project site is located within the Town of Hayden, Colorado, on a vacant parcel with direct access to Harvest Drive, west of the Poplar Street and Harvest Drive intersection. The proposed development is planned to include 64 townhomes, with completion anticipated by Year 2028. Surrounding land uses include Hayden Valley Schools, single-family detached and attached residential homes, and Dry Creek Park. Additionally, the Moonlit Meadows project, a planned future development located south of the Town, has been considered in this analysis. **Figure 1** provides a vicinity map for the proposed project.

The purpose of this study is to assist in identifying potential traffic impacts within the study area as a result of this project. The traffic study addresses existing, short-term, and long-term peak hour intersection conditions in the study area with and without the project-generated traffic. The information contained in this study is anticipated to be used by the Town of Hayden staff in identifying any intersection or roadway deficiencies and potential improvements for the build-out condition and long-term future scenarios. This study focused on the weekday AM and PM peak hours which represent the periods of highest trip generation for the proposed use and adjacent street traffic. The traffic study was scoped with the Town of Hayden staff to ensure the appropriate intersections and scenarios were evaluated.

2.0 Project Description

The Sonesta Townhomes project proposes the development of currently vacant land into a residential community consisting of 64 single-family attached homes, with full build-out and occupancy anticipated by the end of Year 2028. Primary access to the site will be provided via the existing connection to Harvest Drive. **Figure 2** shows the site plan and proposed access location.

It should be noted that this site has already been platted in the Sonesta Park Planned Unit Development (PUD) with 64 townhomes. The latest site plan made adjustments for better circulation, access, and layout. The amount of traffic associated with the site will be the same regardless of site plan since there are the same type and number of homes.

3.0 Study Considerations

3.1 Data Collection

Intersection turning movement volumes were collected in late August 2025 at six (5) existing intersections during the weekday AM and PM peak hours with schools in session, including pedestrians and bicyclists. Daily traffic volumes were also collected on Poplar Street south of Breeze Basin Boulevard in late August 2025 with schools in session.

The existing traffic volumes are illustrated on **Figure 3**. The existing intersection geometry and traffic control are also shown on this figure. Count data sheets are provided in the **Appendix**.

3.2 Evaluation Methodology

The traffic operations analysis addressed the signalized and unsignalized intersection operations using the procedures and methodologies set forth by the <u>Highway Capacity Manual</u> (HCM)¹. Existing peak hour factors (PHF) by approach and peak hour were applied to the study intersections, with future-year adjustments made where significant increases in traffic are shown. Study intersections were evaluated using Synchro software (v12).

3.3 Level of Service Capacity Analysis

A Level of Service analysis was conducted to determine the existing and future performance of the study area intersections and accesses to determine the most appropriate intersection traffic controls and auxiliary lanes for future conditions.

To measure and describe the operational status of the study intersections, transportation engineers and planners commonly use a system referred to as "Level of Service" (LOS) that is defined by the <u>HCM</u>. LOS characterizes the operational conditions of an intersection's traffic flow, ranging from LOS A (indicating free flow operations) and LOS F (indicating congested and sometimes oversaturated conditions). These grades represent the perspective of drivers and are an indication of the comfort and convenience associated with traveling through intersections. The intersection LOS is based on delay in seconds per vehicle for the intersection as a whole and for each movement.

Typically, LOS D overall during peak hours is acceptable. Individual movements may be allowed to fall to LOS E or F at signalized intersections. Minor movements at unsignalized intersections, such as left turns onto a major arterial, may be allowed to fall below LOS D, specifically where there are low volumes and/or

Highway Capacity Manual, Highway Research Board Special Report 209, Transportation Research Board, National Research Council, 7th Edition (2022).



no viable alternative. Criteria contained in the <u>HCM</u> was applied for these analyses in order to determine peak hour LOS for each scenario. A more detailed discussion of LOS methodology is contained in the **Appendix** for reference.

4.0 Existing Conditions

4.1 Roadways

The study area boundaries are based on the amount of traffic to be generated by the project and potential impact to the existing roadway network. The primary public roadways that serve the project site are discussed in the following text and illustrated on **Figure 1**.

Jefferson Avenue (US Highway 40) is a two-lane, east-west, arterial roadway that provides access to residential and commercial neighborhoods near the project site. Regionally, the roadway provides access to neighboring towns such as Craig and Steamboat Springs. US Highway 40 extends into Utah (west) and to I-70 west of Denver (east). Jefferson Avenue is a Colorado Department of Transportation (CDOT) managed roadway classified as NR-B (Non-Rural Arterial). Within town, Jefferson Avenue has a posted speed of 30 to 35 miles per hour (mph) and serves approximately 8,400 vehicles per day (vpd) (CDOT, Year 2024).

Poplar Street (County Road 53) is a two-lane, north-south, roadway that provides access to local residential and commercial neighborhoods as well as Hayden High School and Routt County Fairgrounds. The roadway extends from Pearl Street (north), becomes County Road 53 at the south end of town, and extends to County Road 29 (south). South of Breeze Basin Boulevard, Poplar Street serves approximately 1,945 vpd (Year 2025).

Breeze Basin Boulevard is a two-lane, east-west roadway that provides access to local residential and commercial neighborhoods, Hayden High School, Dry Creek Park, and Routt County Fairgrounds. The roadway extends from just east of Poplar Street (east), becomes County Road 65 west of Hayden High School, and extends to County Road 113 (west).

Harvest Drive (north) is a two-lane, unstriped roadway that provides access to residential neighborhoods at the south end of town. The roadway extends from Poplar Street (north) to South Harvest Drive (south).

4.2 Intersections

The study area includes five (5) existing intersections that are listed below with the current traffic control and were analyzed for existing and future year's traffic operations:

- 1. Jefferson Avenue at Poplar Street [side-street stop controlled]
- 2. Poplar Street at Breeze Basin Boulevard [side-street stop controlled]
- 3. Poplar Street at School Access [side-street stop controlled]
- 4. Poplar Street at Harvest Drive (north) [side-street stop controlled]
- 5. Harvest Drive at Site Access [side-street stop controlled]

The existing lane configuration at each of the study locations is illustrated on Figure 3.

4.3 Pedestrian and Bicycle

Currently, there are sidewalks along both sides of Jefferson Avenue within the study area. At the intersection of Jefferson Avenue and 3rd Street, there is an uncontrolled pedestrian crossing of Jefferson Avenue. 3rd Street has sidewalks along the east side from Jefferson Avenue to south of Washington Avenue, at which point the sidewalk crosses 3rd Street to the west side and continues south to Hayden High School. Poplar Street has sidewalks on the west side of the roadway from Jefferson Avenue to Hayden High School. The remaining study roadways do not have sidewalks.

There are no on-street bike facilities within the project study area. Bikes are permitted to travel within the travel lanes of the study roadways.

4.4 Transit

The Town of Hayden is serviced by Steamboat Springs Transit with regional service. The bus travels from the Town of Craig to the City of Steamboat Springs in the morning and from Steamboat Springs to Craig in the evening, stopping in Hayden twice in the morning and twice in the evening. The stop in Hayden is located on Jefferson Avenue just east of Poplar Street.

4.5 Existing Intersection Capacity Analysis

The existing volumes, lane configuration, and traffic control are illustrated on **Figure 3**. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

Currently, the study intersections operate overall at LOS A in both peak hours, with all individual movements operating at LOS C or better in both peak hours. All 95th percentile queues were estimated to be contained within existing storage.

5.0 Future Conditions

5.1 Annual Growth Factor and Future Volume Methodology

In order to forecast the future peak hour traffic volumes, background traffic growth assumptions were estimated based on CDOT growth rates and other traffic studies performed for the town.

Based on CDOT historic data and forecasts, the 20-year growth factor for US Highway 40 is estimated to be 1.2. This equates to an annual growth rate of **1.0%**, which was applied to the existing intersection and roadway volumes for future background scenarios. This annual growth rate is consistent with other studies performed in the area. In addition to background growth, projected traffic generated by the Main Street Apartments development—located along the south side of Jefferson Avenue between 3rd Street and Poplar Street—and the planned Moonlit Meadows development in the southern portion of the Town were incorporated into the future-year traffic forecasts for all analysis scenarios. However, given the current stage of the Moonlit Meadows project, this analysis includes short-term (Year 2028) scenarios both with and without the nearby development and its associated trip generation.

Based on these assumptions, the Year 2028 background traffic volumes (without and with the first phase of Moonlit Meadows project) are summarized on **Figures 4 and 5**, respectively, while the Year 2045 background traffic volumes (including the Moonlit Meadows trips) are presented on **Figure 6**.

5.2 Year 2028 Anticipated Transportation Network

For the short-term (Year 2028) background horizon, no changes to the existing roadway or intersection network were assumed in the scenario without the Moonlit Meadows development. However, for the scenario including Phase 1 of the Moonlit Meadows development, the proposed control and lane configuration modifications anticipated by Year 2028 were incorporated into the analysis, which includes a signal at the intersection of **Jefferson Avenue (US 40) and Poplar Street**, as well as one eastbound left-turn lane and one westbound left-turn lane at the same intersection. These assumptions and corresponding network changes are illustrated on **Figure 5**.

5.3 Year 2028 Background Intersection Capacity Analysis (with or without Moonlit Meadows project)

The study area intersections were evaluated to determine baseline operations for the Year 2028 background scenario and to identify any capacity constraints associated with background traffic (refer to **Section 5.1** for growth assumptions) both without and with Phase 1 of the Moonlit Meadows development. The background volumes, lane configuration, and traffic control are illustrated on **Figures 4 and 5**, respectively.

The Level of Service criteria discussed previously was applied to the study area intersections to determine the impacts with the short-term background volumes. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

In summary for the Year 2028 background scenario without the Moonlit Meadows traffic, all study intersections are expected to operate similarly to Year 2025 existing conditions, with only minor increases in overall and movement delay, as well as queue lengths.

Without Moonlit Meadows: The northbound and southbound approaches at the **Jefferson Avenue and Poplar Street** intersection are shown to change from LOS C (existing) to LOS D (Year 2028 background without Moonlit Meadows) in the AM peak hour. These intersections are not projected to meet traffic signal warrants with Year 2028 background (without Moonlit) traffic volumes, and this level of delay is typical of a side-street approach to a major roadway. Minor increases in overall and movement delays, as well as queue lengths were found for the remaining study intersections.

With Moonlit Meadows: For the short-term scenario including the Moonlit Meadows Phase 1 traffic, the Jefferson Avenue at Poplar Street intersection was analyzed under signalized control since it was shown to be warranted in the <u>Moonlit Meadows Traffic Impact Study</u> (Fox Tuttle, September 2025) with buildout of Phase 1. Additionally, the previous study recommended one eastbound left-turn lane and one westbound left-turn lane. Under this configuration, the intersection of Jefferson Avenue at Poplar Street is expected to operate at an overall LOS B, with all movements performing at LOS C or better during the analyzed peak periods. Minor increases in overall and movement delays, as well as queue lengths were found for the remaining study intersections.

5.4 Year 2045 Anticipated Transportation Network

For the long-term background scenario assuming the competition of the Moonlit Meadows development, the proposed control and lane configuration modifications anticipated by Year 2045 were incorporated into the analysis. These assumptions and corresponding network changes are illustrated on **Figure 6**.

5.5 Year 2045 Background Intersection Capacity Analysis

The study area intersections were evaluated to determine baseline operations for the Year 2045 background scenario and to identify any capacity constraints associated with background traffic in the long-term scenario (refer to **Section 5.1** for growth assumptions) including the network changes and the total trips added by the Moonlit Meadows development. The long-term background volumes, lane configuration, and traffic control are illustrated on **Figure 6**.

The Level of Service criteria discussed previously was applied to the study area intersections to determine the impacts with the long-term background volumes. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

In summary, all of the study intersections were estimated to operate similarly to the short-term background scenario, with minor increases to overall and movement delays and queue lengths. Overall, all the intersections were estimated to operate acceptably (LOS C or better) in both peak hours with most movements operating at LOS D or better. The following intersections were found to have one movement that operates below LOS D or queues that exceed the available storage:

• #1. Jefferson Avenue and Poplar Street: This intersection was analyzed under signalized control in accordance with the <u>Moonlit Meadows TIS</u> recommendations and was calculated to operate at LOS C during AM peak hour and at LOS B in the PM peak hour. During AM peak hour, the eastbound through/right-turn movement was expected to operate again at LOS D while the 95th percentile queue was calculated to be up to 591 feet. During PM peak hour, the 95th percentile queue of the westbound through/right-turn movement was calculated to be up to 379 feet. These queues are anticipated to extend upstream and temporarily block adjacent intersections, potentially affecting overall network operations. Note that these queues occur with a signal since the through movements will have to stop on a red indication instead of the existing free flow condition.

Recommendations: Consider constructing a separate right-turn lane for eastbound and westbound approaches if redevelopment occurs at either corner and land is available.

#3. Poplar Street at School Access: Under the long-term background scenario, this intersection was calculated to operate overall at LOS B in the AM peak hour and LOS A in the PM peak hour. During the AM peak hour, the eastbound left-turn is expected to start operating at LOS F, while the 95th percentile queues were calculated to extend up to 160 feet which exceeds the available storage.

No Mitigation Measures Recommended: The measured delay is typical of school driveways since there is a high volume of traffic turning into and out of the school in a short amount of time. If delays on the school access become a concern in the future, consider coordinating with Hayden Valley Schools to implement or strengthen an on-site drop-off loop and supervised loading/unloading. If traffic volumes grow substantially, conduct a feasibility study for a roundabout or a geometric reconfiguration that improves capacity and reduces delay while improving pedestrian safety.

6.0 Future Traffic Conditions with Sonesta Townhomes

6.1 Trip Generation

A trip generation estimate was performed to determine the traffic characteristics of the proposed development. The trip rates contained in the Institute of Transportation Engineers (ITE) <u>Trip Generation Handbook and Manual</u>² were applied to estimate the traffic for the dwelling units. This study applied the trip rates for "Single-Family Attached Housing" [ITE #215]. In general, the site is expected to experience the two (2) basic trip types as discussed below:

<u>Primary Trips.</u> These trips are made specifically to visit the site and are considered "new" trips. Primary trips would not have been made if the proposed project did not exist. Therefore, this is the only trip type that increases the total number of trips made on a regional basis. It is expected that the proposed project will experience mostly primary trips.

<u>Non-Auto Trips.</u> These trips are those that are completed by walking, bicycling, or using transit. The existing transit, pedestrian, and bicycle amenities encourage residents, and visitors to make non-auto trips to/from the residential lots. For this project, no non-auto reduction was applied to the vehicle trip generation, ensuring a conservative assessment of project-related traffic impacts.

In total, the Sonesta project was estimated to generate approximately 420 daily trips with 30 trips in the AM peak hour and 33 trips in the PM peak hour. Trip generation is described on Table 3.

6.2 Trip Distribution and Assignment

The estimated trip volumes were distributed onto the study area street network based on existing traffic characteristics, land uses, and traffic patterns in the area. The existing volumes were utilized to determine where vehicles are coming from and going to within the study area, plus the route to get to major highways and anticipated destinations. The following overall distributions were assumed for this project and are shown on **Figure 7**:

• West via Jefferson Avenue: 20%

Internal to/from the Town of Hayden: 10%

• East via Jefferson Avenue: 60%

South via County Road 53: 5%

West via Breeze Basin Boulevard: 5%

Trip Generation Handbook and Manual, 12th Edition, Institute of Transportation Engineers, 2025.

These trip distribution percentages are the same as applied in the <u>Moonlit Meadows TIS</u>. Using the distribution assumptions, the projected site traffic was assigned to the study area roadway network for the weekday AM and PM peak hour periods. Project-generated trips are shown on **Figure 8**.

6.3 Year 2028 Background + Project Intersection Capacity Analysis

This section discusses impacts associated with the addition of the project trips in the Year 2028 scenario both without and with Phase 1 of the Moonlit Meadows development. The site-generated volumes were added to the Year 2028 background volumes and are illustrated on **Figures 9 and 10**, respectively. **Figure 10** also illustrates the future traffic control and lane configurations at the intersection of Jefferson Avenue (US 40) at Poplar Street, consistent with the <u>Moonlit Meadows TIS</u>. The results of the LOS calculations for the intersections are summarized in **Table 1**. The 95th percentile queues are summarized in **Table 2**. The intersection level of service worksheets and queue reports are attached in the **Appendix**.

Without Moonlit Meadows: The Sonesta project trips have little to no impact on the operations of the study intersections as compared to the background scenarios (less than three seconds increase). All of the intersection and movement levels of service remain the same letter grade in the without Moonlit Meadows scenario. The 95th percentile queues were estimated to remain similar to those in the background scenario with no more than one additional vehicle added.

With Moonlit Meadows: The Sonesta project trips have little to no impact on the operations of the study intersections as compared to the background scenarios (less than two seconds increase). All of the intersection and movement levels of service remain the same letter grade in the without Moonlit Meadows scenario. The 95th percentile queues were estimated to remain similar to those in the background scenario with no more than one additional vehicle added.

6.4 Year 2045 Background + Project Intersection Capacity Analysis

This section discusses impacts associated with the addition of project trips in the Year 2045 scenario including the network changes and the total trips added by the proposed Sonesta development. The site-generated volumes were added to the Year 2045 background volumes and are illustrated on **Figure 11**. This figure also illustrates the future traffic control and lane configurations at the intersection of Jefferson Avenue (US 40) at Poplar Street, consistent with the <u>Moonlit Meadows TIS</u>

The study intersections are anticipated to operate overall at LOS D or better, with most individual movements operating at LOS D or better. The following intersections were found to have one movement that operates below LOS D or queues that exceed the available storage:

• #1. Jefferson Avenue and Poplar Street: Similar with background scenario, this intersection was analyzed with signal control and was calculated to operate in acceptable LOS. However, the

eastbound and westbound through/right-turn movement continues to extend upstream and temporarily block adjacent intersections.

No additional mitigation measures are recommended. The previously identified recommendations remain applicable to address the long-term future conditions.

• #2. Poplar Street and Breeze Basin Boulevard: Under this scenario, the eastbound left-turn/through movement was calculated to start operating at LOS E in both peak hours. However, the 95th percentile queue lengths for these movements are expected to remain within the available storage capacity.

No mitigation measures are recommended. This reduced level of service is primarily attributed to the proximity of the intersection to the school, where higher traffic volumes along Poplar Street during peak periods result in fewer available gaps for turning vehicles. Delays are expected at intersections near a school.

#3. Poplar Street at School Access: As in the long-term background scenario, during the AM peak hour, the eastbound left-turn was calculated to continue operating at LOS F and the 95th percentile queues were calculated to extend up to 173 feet which continues to exceed the available storage.

No additional mitigation measures are recommended. The previously identified considerations remain applicable to address on campus conditions that may mitigate side-street queuing.

The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

7.0 Queuing Analysis

A queuing analysis was performed to determine if the 95th percentile queues would be accommodated by the existing storage length, to determine the storage lengths for future auxiliary lanes, and if any of the queues would impact an upstream intersection/access. **Table 2** provides the existing storage lengths, as well as the 95th percentile queues for each existing and future scenario as calculated by Synchro (assuming each vehicle utilizes 25 feet of space). It should be noted that the 95th percentile queue length is a theoretical queue that is 1.65 standard deviations above the average queue length. In theory, the 95th percentile queue would be exceeded 5% of the time based on the average queue length, but it is also possible that a queue this long may not occur.

As shown in **Table 2**, the estimated queues are shorter than the available storage lengths in all scenarios where turn lanes are provided. However, as discussed, the eastbound and westbound approaches at the **Jefferson Avenue and Poplar Street** intersection were projected to experience increased queues under the long-term background and with-project scenarios, as traffic volumes increase and network modifications are implemented. Under these conditions, eastbound queues are projected to reach approximately 600 feet, extending west to 2nd Street, while westbound queues are expected to reach approximately 380 feet, extending east to Chestnut Street. These queues occur with a signal since the through movements will have to stop on a red indication instead of the existing free flow condition. To mitigate these long-term queuing impacts, it is recommended that eastbound and westbound right-turn lanes be provided by widening and restriping Jefferson Avenue when the corners are redeveloped and land becomes available. These improvements would allow right-turning vehicles to bypass queued through and left-turn traffic, thereby reducing overall queue lengths and improving intersection operations.

The northbound queues at the **school access on Poplar Street** were reviewed for all scenarios to determine the potential for queues to back up from this access towards the fire station just to the south (the fire station driveway begins approximately 85 feet south of the school access). Using the count data and peak hour factors, the Synchro/HCM modeling does not show that this would occur in any scenario with or without project build out. However, the eastbound queues found to exceed the available storage under the long-term scenarios, indicating that school access operations are expected to worsen over time, regardless of the proposed development. To address these potential operational issues, it is recommended that the school access be monitored periodically as traffic volumes increase. Should queueing or delay conditions deteriorate, improvements such as a northbound left-turn deceleration lane—to allow vehicles to wait outside the through-traffic stream—and/or enhancements to on-site circulation and loading operations should be considered to maintain safe and efficient access operations.

8.0 CDOT Access Permit

The short-term background volumes on Poplar Street south of Jefferson Avenue (US 40) were utilized as the baseline values for the permit calculations. The estimated trips for the proposed Sonesta townhomes were added to the volume and compared to determine the percentage increase. **Table 4** summarizes the hourly volumes and comparison.

Table 4. CDOT Access Permit Calculations

Scenario	Hourly Volume on I	US 40 at Poplar Street
Scendrio	AM	PM
Year 2028 Background Volumes (without Moonlit)	175	161
Year 2028 Background Volumes (with Moonlit Phase 1)	265	286
Proposed Sonesta Trips	27	28
Percentage of Increased Traffic (without Moonlit)	13.4%	14.8%
Percentage of Increased Traffic (with Moonlit Phase 1)	9.2%	8.9%

The new trips on Poplar Street turning onto or off Jefferson Avenue (US 40) was estimated to be approximately 27 vehicles in the AM peak hour and 28 vehicles in the PM peak hour. In the scenario without Moonlit Meadows Phase 1 traffic, the Sonesta project trips equate to less than 15% increase in traffic. With the completion of Moonlit Meadows Phae 1 traffic, the Sonesta project trips equate to less than 10% increase in traffic. CDOT requires an access permit when the side-street volume increases the permitted volume by 20% or more; therefore, an access permit is not warranted.

9.0 Conclusions

The Sonesta Townhomes project will consist of 64 single-family attached homes, with construction anticipated to be completed and occupied by the end of Year 2028. Primary access to the site will be provided via the existing connection to Harvest Drive. To project future background traffic volumes, consistent with other studies conducted in the area, an annual growth rate was applied and trips generated by the Main Street Apartments and Moonlit Meadows developments were incorporated into the future-year traffic forecasts (Year 2028 and Year 2045), in addition to background traffic growth. Two short-term (Year 2028) scenarios were analyzed:

- 1) Without the Moonlit Meadows project, representing baseline background growth.
- 2) With Phase 1 of the Moonlit Meadows project, incorporating its recommended improvements to Jefferson Avenue (US 40) and Poplar Street.

Long-term conditions were assessed for Year 2045, which includes full background growth and the completion of the Moonlit Meadows development.

The project is estimated to generate approximately 420 daily trips with 30 trips occurring in the AM peak hour and 33 trips occurring in the PM peak hour. It was determined that the proposed roadway system can adequately accommodate the projected traffic volumes. The results of this analysis indicate that the Sonesta Townhomes project will not cause significant degradation to intersection operations within the study area. Most intersections are expected to operate at acceptable LOS thresholds under both short-term (2028) and long-term (2045) conditions. However, localized operational issues—particularly near Hayden Valley Schools—are expected to persist and should be actively managed through operational coordination, geometric improvements, and continued monitoring. Additionally, the recommendations listed on the Moonlit Meadows TIS should be considered and periodically reviewed to ensure that they remain appropriate as traffic conditions evolve and long-term operations are reassessed. Based on the projected increase in volumes on Poplar Street south of Jefferson Avenue (US 40), CDOT Access Permit will not be required.

The following recommendations should be considered for implementation:

Background Conditions (Non-Project Related):

- **Jefferson Avenue and Poplar Street:** Signalize and add one eastbound left-turn lane and one westbound left-turn lane [Year 2028 with Moonlit Meadow Phase 1]. Consider eastbound and westbound right-turn lanes if land becomes available [Year 2045].
- Poplar Street at School Access: If delays on the school access become a concern in the future, consider coordinating with Hayden Valley Schools to implement or strengthen an on-site drop-off loop and supervised loading/unloading. If traffic volumes grow substantially, conduct a feasibility study for a roundabout or a geometric reconfiguration that improves capacity and reduces delay while enhancing pedestrian safety [Year 2045].

Project Related:

• Access on Harvest Drive: Construct one inbound lane and one outbound lane and side-street stop-control. Auxiliary lanes are not warranted.

Tables and Figures:

Table 1 – Peak Hour Intersection Level of Service Summary

Table 2 – Peak Hour Estimated 95th Percentile Queues

Table 3 -Trip Generation Summary

Table 4 – CDOT Access Permit Calculations [IN REPORT]

Figure 1 – Vicinity Map

Figure 2 – Conceptual Site Plan

Figure 3 –Year 2025 Existing Traffic Volumes

Figure 4 – Year 2028 Background Traffic Volumes

Figure 5 – Year 2028 Background Traffic Volumes (with Moonlit Meadows Project)

Figure 6 – Year 2045 Background Traffic Volumes (with Moonlit Meadows Project)

Figure 7 – Site Trip Distribution

Figure 8 – Site-Generated Traffic Volumes

Figure 9 – Year 2028 Background + Project Traffic Volumes

Figure 10 – Year 2028 Background + Project Traffic Volumes (with Moonlit Meadows Project)

Figure 11 – Year 2045 Background + Project Traffic Volumes (with Moonlit Meadows Project)

Table 1 - Peak Hour Intersection Level of Service Summary

					Ve	ar 2028	Backgrou				Backgrou		Level		Backgrou			ar 2028	Backgrou	ınd	Ve	ar 2045	Backgro	und				
	1	Year 202	5 Existin	g			loonlit)				it) + Proj				loonlit)				lit) + Proj				/loonlit)	ana	Year 20	45 Back	ground +	+ Project
Intersections and Lane Groups	AM	Peak	PM	Peak	AM	•	PM F	Peak	AM		PMI		AM	Peak	PMI	Peak	-	Peak		Peak	AM	Peak		Peak	AM	Peak	PM	Peak
	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
STOP SIGN CONTROL																												
1. Jefferson Avenue (US 40) at	6	Α	3	Δ	6	Α	3	Α	8	Α	3	Α																
Poplar Street																												
Eastbound Left + Through + Right	8	Α	9	Α	8	Α	9	Α	8	Α	9	Α		Analyzed	as Signa	ıl	/	Analyzed	d as Signo	1/		Analyzed	d as Sign	al	/	Analyzea	as Signo	al
Westbound Left + Through + Right	9	Α	8	Α	9	Α	8	Α	9	Α	8	Α																
Northbound Left + Through + Right	24	С	15	В	28	D	16	С	35	D	17	С																
Southbound Left + Through + Right	23	С	18	С	26	D	20	С	29	D	20	С																
2. Poplar Street at Breeze Basin	4	Α	5	^	4	Α	5	۸	4	Α	5	Α	4	Α	4	Α	3	Δ	4	Α	4	Α	1	Α	4	Α	4	Α
Boulevard	4		3		4	A	3	A		A	3				-		3				7		7		7		7	
Eastbound Left + Through	15	В	12	В	15	С	13	В	16	С	13	В	19	С	16	С	21	С	16	С	34	D	34	D	37	E	37	E
Eastbound Right	10	Α	9	Α	10	Α	9	Α	10	Α	10	Α	10	В	10	В	10	В	10	В	11	В	14	В	11	В	15	В
Westbound Left + Through + Right	12	В	10	В	13	В	11	В	13	В	11	В	15	С	13	В	16	С	13	В	26	D	24	С	28	D	26	D
Northbound Left	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	9	Α	8	Α	9	Α
Northbound Through + Right	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α
Southbound Left + Through + Right	8	Α	7	Α	8	Α	7	Α	8	Α	8	Α	8	Α	8	Α	8	Α	8	Α	9	Α	8	Α	9	Α	8	Α
3. Poplar Street at School	5	Δ.	,	Δ	_		2	Α	_		1	Λ	5	Λ.	1		_	^	1	Λ.	11	В	1	^	13	В	1	Λ.
Access	3	Α	2	A	5	Α	2	Α	5	Α	1	Α	5	Α	1	Α	5	Α	1	Α	11	ь	1	Α	13	В	1	Α
Eastbound Left	14	В	11	В	14	В	11	В	15	В	11	В	19	С	13	В	20	С	13	В	69	F	24	С	80	F	26	D
Eastbound Right	9	Α	9	Α	9	Α	9	Α	9	Α	10	Α	10	Α	10	В	10	Α	10	В	10	В	13	В	10	В	13	В
Northbound Left + Through	8	Α	0	Α	8	Α	0	Α	8	Α	0	Α	8	Α	0	Α	8	Α	0	Α	8	Α	9	Α	8	Α	9	Α
Southbound Through + Right	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α
4. Poplar Street (CR 53) at Harvest Drive	2	Α	1	Α	2	Α	1	Α	3	Α	2	Α	3	Α	2	Α	4	Α	3	Α	4	Α	3	Α	6	Α	3	Α
Eastbound Left + Right	10	Α	10	Α	10	В	10	Α	10	В	10	Α	12	В	11	В	12	В	11	В	30	D	25	С	36	E	28	D
Northbound Left + Through	0	Α	0	Α	0	Α	0	Α	0	Α	8	Α	0	Α	0	Α	0	Α	8	Α	8	Α	9	Α	8	Α	9	Α
Southbound Through + Right	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α
5. Harvest Drive at Site Access	0	Α	0	Α	0	Α	0	Α	2	Α	1	Α	0	Α	0	Α	1	Α	1	Α	0	Α	0	Α	1	Α	1	Α
Eastbound Left + Through	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α
Westbound Through + Right	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α	0	Α
Southbound Left + Right	9	Α	9	Α	9	Α	9	Α	9	Α	9	Α	9	Α	10	Α	9	Α	10	Α	10	Α	10	Α	10	Α	10	В
SIGNAL CONTROL			l										<u> </u>														<u> </u>	
1. Jefferson Avenue (US 40) at													16	В	12	В	17	В	12	В	34	С	18	В	36	D	19	В
Poplar Street													16	В	12	Б	17	ь	12	D	34		10	В	30		19	Ь
Eastbound Left	Analy	ızed as S	top Cont	rolled	Analy	zed as S	top Contr	rolled	Analy	zed as S	top Conti	rolled	9	Α	14	В	9	Α	14	В	11	В	13	В	11	В	13	В
Eastbound Through + Right													17	В	7	Α	19	В	7	Α	36	D	16	В	37	D	17	В
Westbound Left													21	С	10	Α	24	С	10	Α	26	С	10	Α	28	С	10	В
Westbound Through + Right													8	Α	13	В	8	Α	13	В	13	В	16	В	13	В	16	В
Northbound Left + Through + Right													17	В	15	В	17	В	15	В								
Northbound Left + Through																					32	С	36	D	33	С	36	D
Northbound Right																					47	D	30	С	52	D	30	С
Southbound Left + Through + Right													13	В	14	В	13	В	14	В	29	С	36	D	29	С	36	D



Page 1 of 1 25099_LOS Queue

Table 2 - Peak Hour Estimated 95th Percentile Queues

						ui Estiiii										
Intersections and Lane Groups	2025	Existing		ground (No onlit)		ground (No + Project		ckground oonlit)	1	ground (w/ + Project		ground (w/ onlit)		ground (w/) + Project	Max.	Existing
·		Queue		Queue		Queue		Queue		Queue		Queue		Queue	Queue	Storage
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
Jefferson Avenue (US 40) at Poplar Street	Stop-Co	ontrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Sig	nal	Sig	ınal	Sig	ınal	Sig	gnal		
Eastbound Left + Through + Right	3'	3'	3'	3'	3'	3'									3'	-
Eastbound Left							25'	10'	27'	10'	23'	11'	24'	11'	27'	-
Eastbound Through + Right							331'	56'	353'	57'	591'	191'	600'	201'	600'	-
Westbound Left + Through + Right	5'	5'	5'	5'	5'	8'									8'	-
Westbound Left							42'	46'	52'	51'	47'	111'	51'	118'	118'	-
Westbound Through + Right							58'	182'	62'	183'	84'	379'	85'	382'	382'	-
Northbound Left + Through + Right	68'	15'	80'	18'	113'	23'	49'	27'	55'	29'					113'	-
Northbound Left + Through											98'	80'	102'	82'	98'	-
Northbound Right											188'	21'	201'	20'	188'	-
Southbound Left + Through + Right	15'	15'	20'	15'	20'	18'	12'	21'	11'	21'	27'	49'	27'	49'	49'	-
2. Poplar Street at Breeze Basin Boulevard	Stop-Co	ontrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ntrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ontrolled		
Eastbound Left + Through	5'	3'	5'	5'	5'	5'	8'	5'	8'	5'	20'	20'	23'	23'	20'	-
Eastbound Right	10'	8'	10'	8'	10'	8'	10'	10'	10'	10'	10'	25'	10'	25'	25'	85'
Westbound Left + Through + Right	3'	3'	3'	3'	3'	3'	3'	3'	3'	3'	13'	13'	15'	15'	13'	-
Northbound Left	5'	5'	5'	5'	5'	5'	8'	5'	8'	5'	8'	8'	10'	10'	8'	50'
Northbound Through + Right	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	-
Southbound Left + Through + Right	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	-
3. Poplar Street at School	Stop-Co	ontrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ntrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ontrolled		
Access	,		· ·		,		,									
Eastbound Left	33'	5'	33'	5'	38'	5'	50'	8'	53'	8'	160'	20'	173'	23'	160'	60'
Eastbound Right	5'	0'	5'	0'	5'	0'	8'	0'	8'	0'	10'	3'	10'	3'	10'	60'
Northbound Left + Through	3'	0'	3'	0'	3'	0'	5'	0'	5'	0'	8'	0'	8'	0'	8'	-
Southbound Through + Right	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	-
4. Poplar Street (CR 53) at Harvest Drive (North)	Stop-Co	ontrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ntrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ontrolled		
Eastbound Left + Right	8'	3'	8'	3'	10'	5'	18'	13'	25'	15'	70'	43'	98'	58'	70'	-
Northbound Left + Through	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	-
Southbound Through + Right	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	-
5. Harvest Drive at Site Access	Stop-Co	ontrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ntrolled	Stop-Co	ontrolled	Stop-Co	ntrolled	Stop-Co	ontrolled		
Eastbound Left + Through	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	
Westbound Through + Right	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	0'	_
Southbound Left + Right	0'	0'	0'	0'	3'	3'	0'	0'	3'	3'	0'	0'	3'	3'	3'	_



Page 1 of 1 25099_LOS Queue

Table 3 - Trip Generation Summary

			A	verage D	aily Tri	ps	Al	M Peak H	our Tri	ps	PN	И Peak H	our Tri	ps
Land Use	Size	Unit	Rate	Total	In	Out	Rate	Total	In	Out	Rate	Total	In	Out
ITE #215: Single-Family Attached Housing	64.0	DU	6.57	420	210	210	0.47	30	8	22	0.51	33	19	14

<u>Source</u>: ITE Trip Generation 12th Edition, 2025.



Area Map



Location within Hayden





RANSPORTATION GROUP

|--|



REFER TO LATEST SITE PLAN FOR EXACT DESIGN AND DETAILS

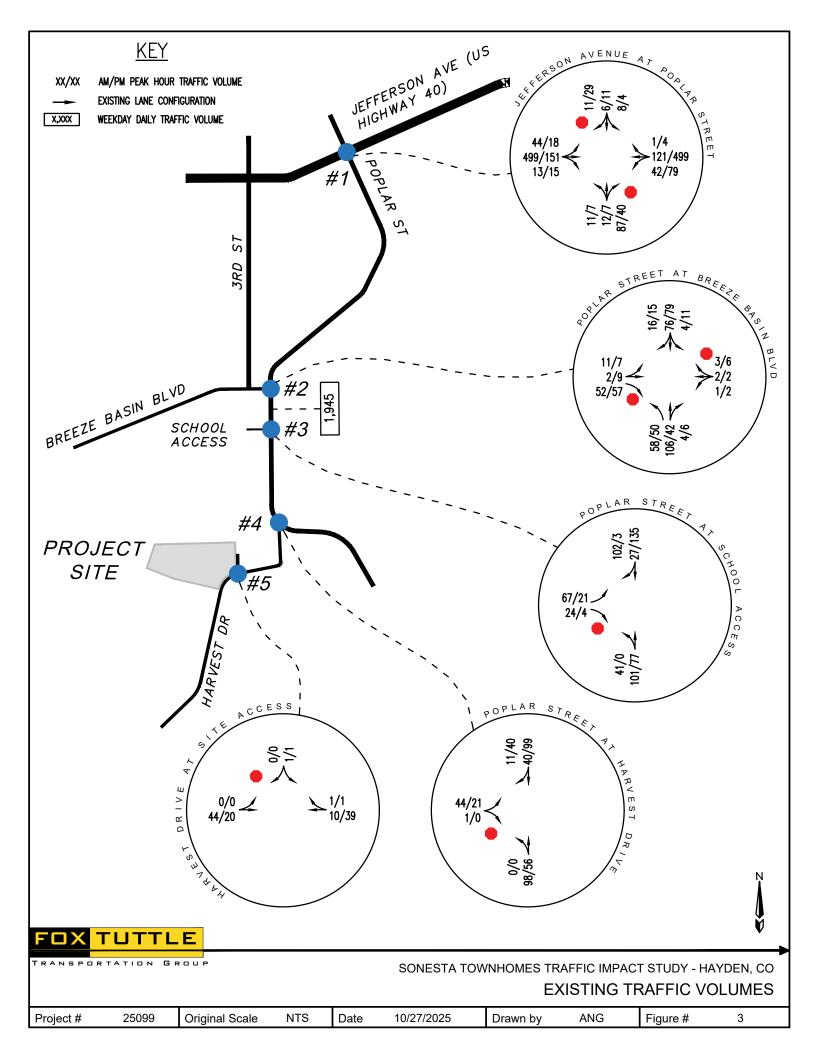


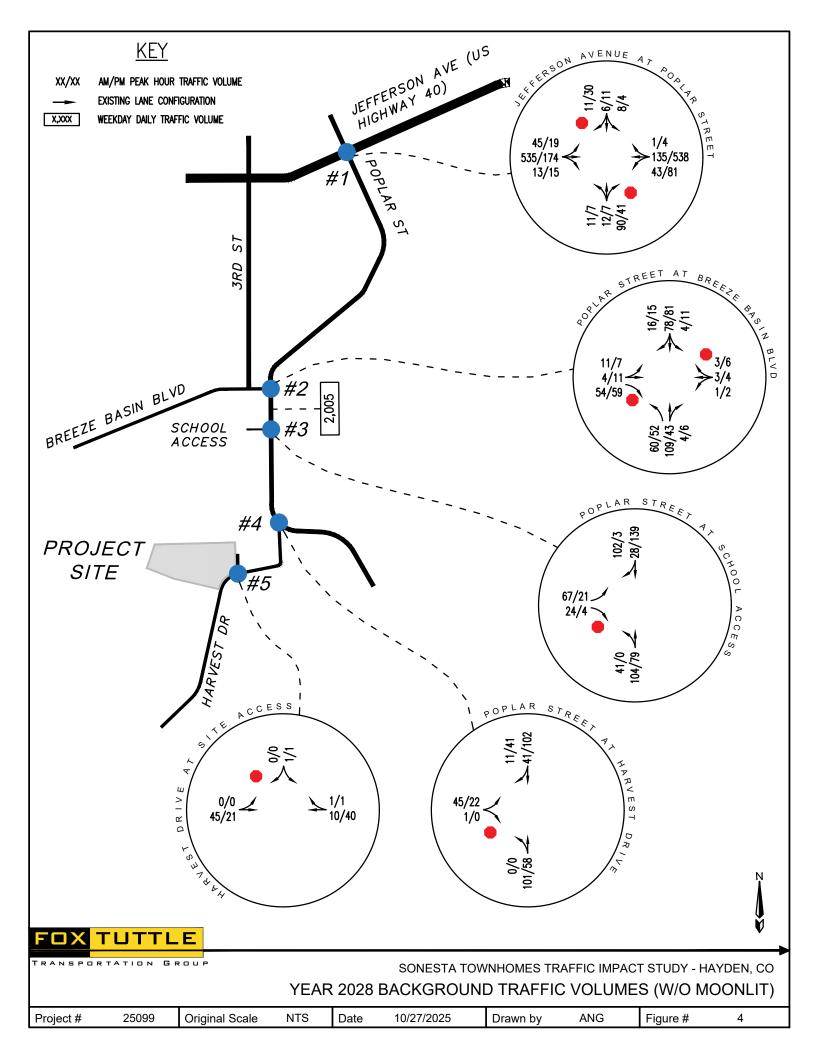
RANSPORTATION GROUP

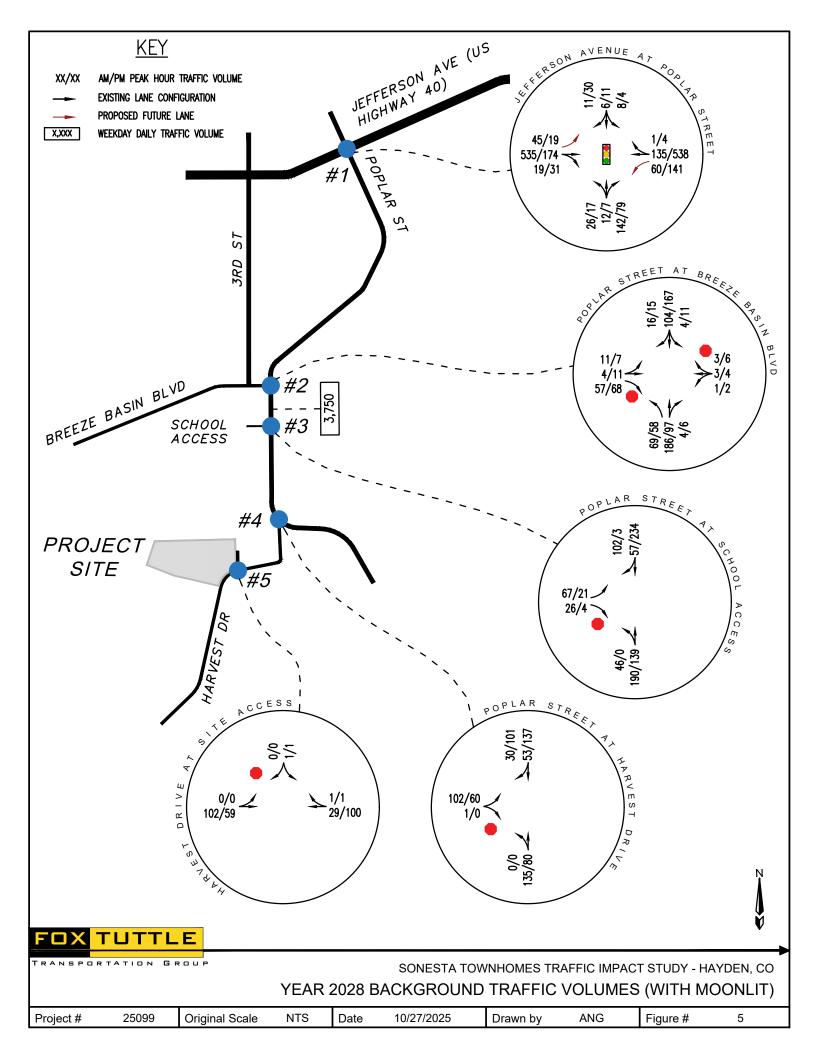
SONESTA TOWNHOMES TRAFFIC IMPACT STUDY - HAYDEN, CO

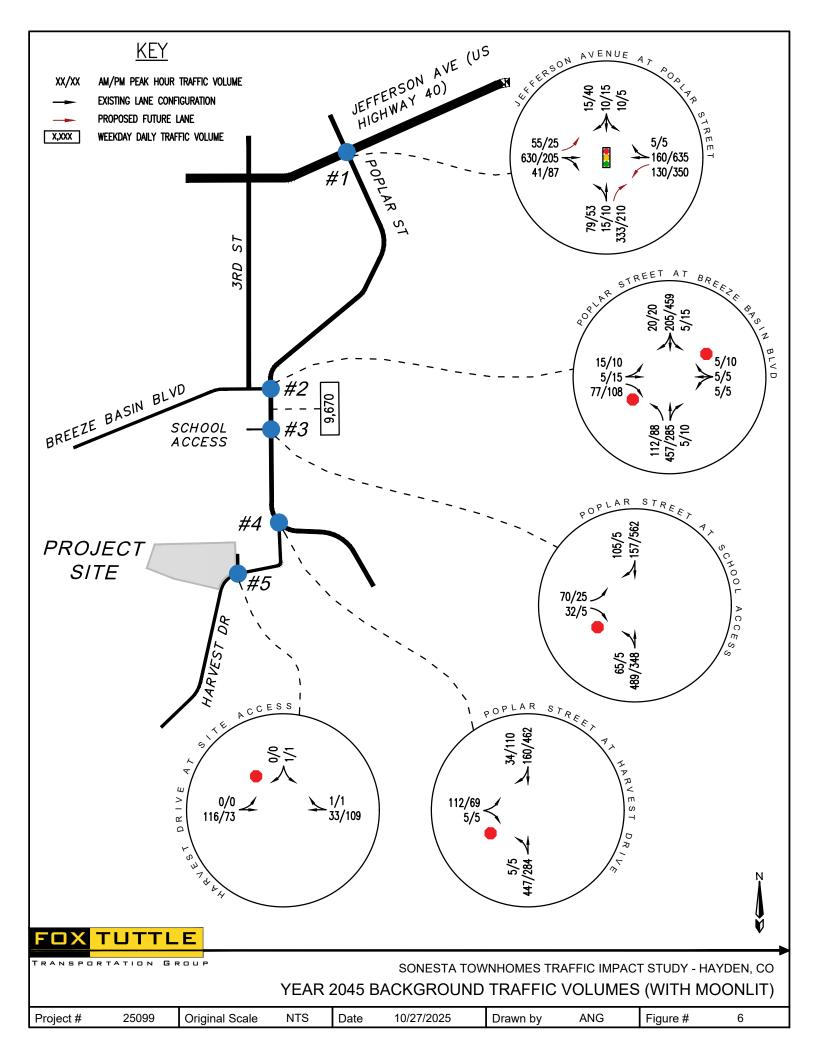
CONCEPTUAL SITE PLAN

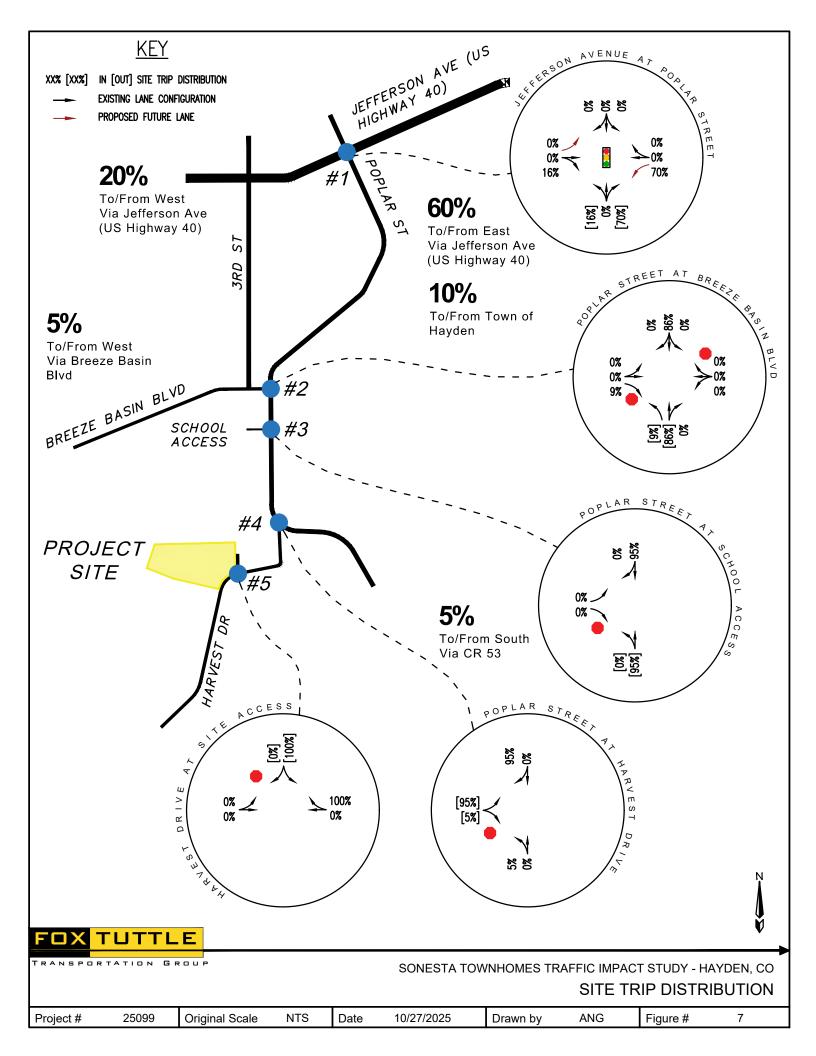
Project # 25099 Original Scale NTS Date 10/27/2025 Drawn by ANG Figure # 2

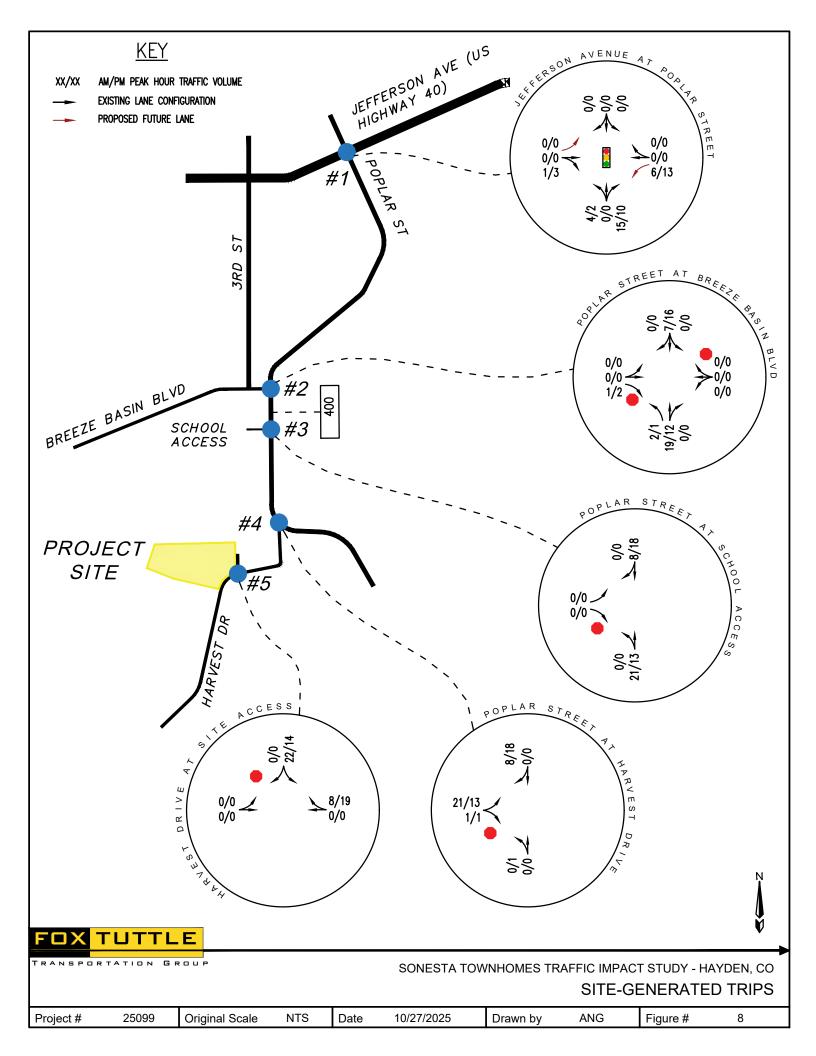


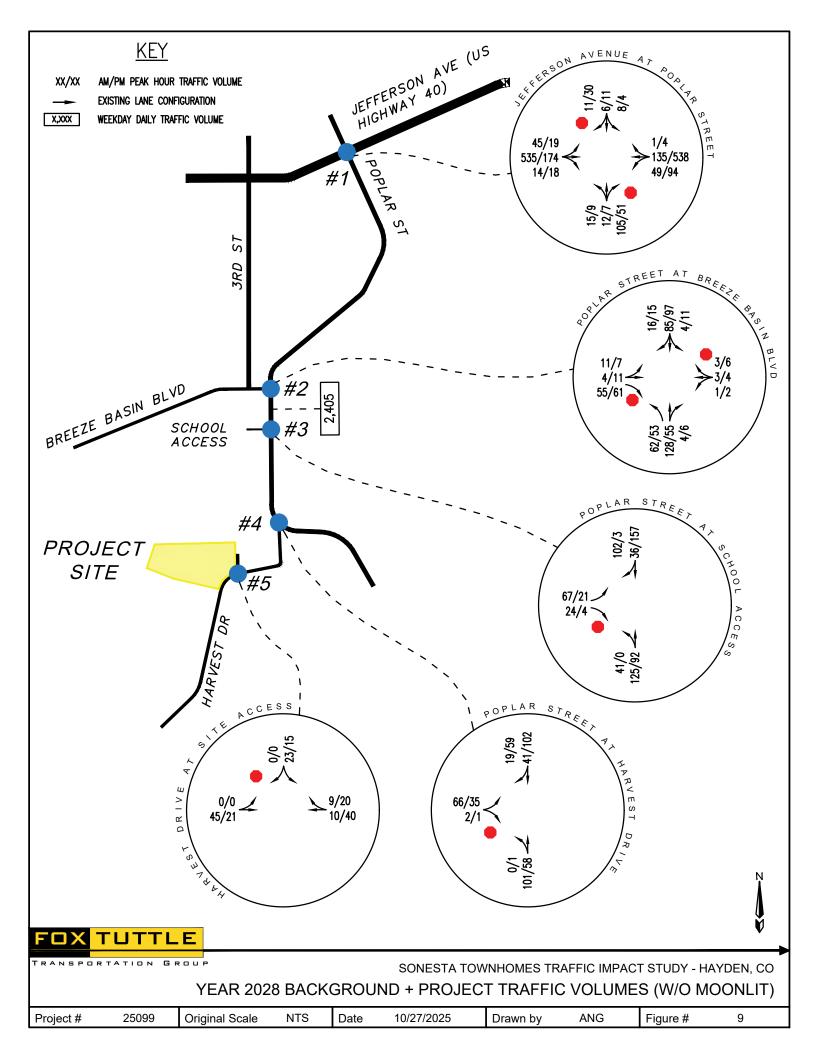


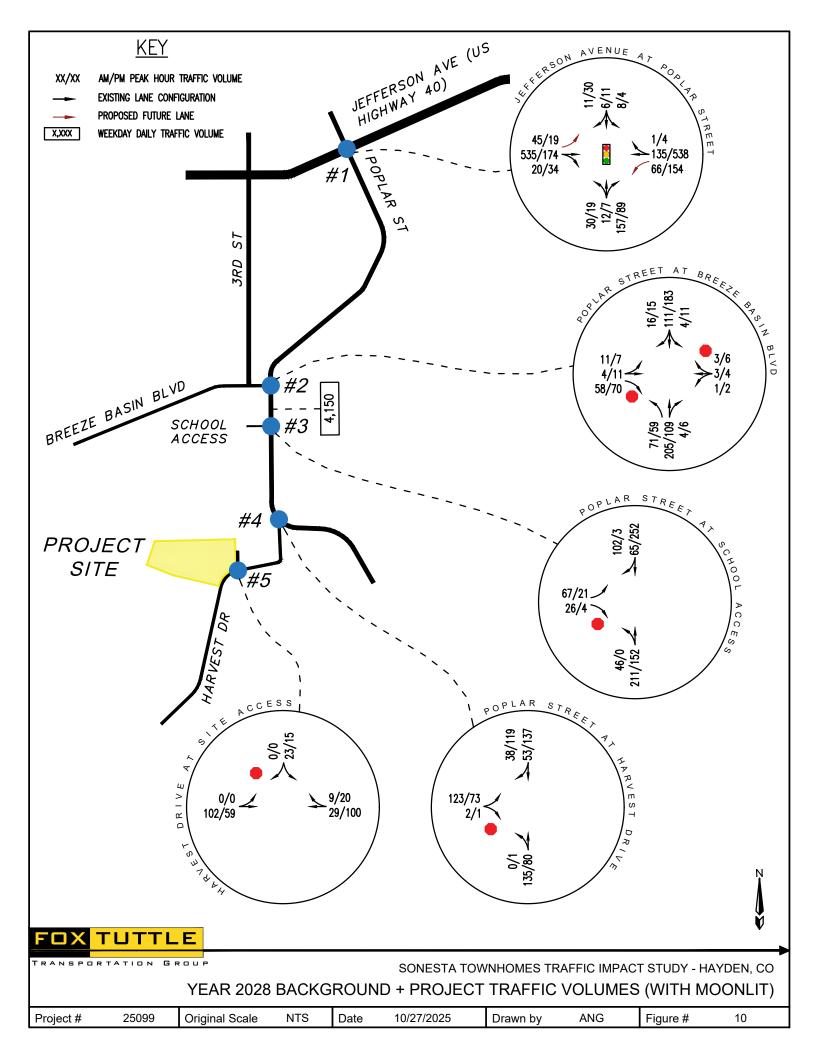


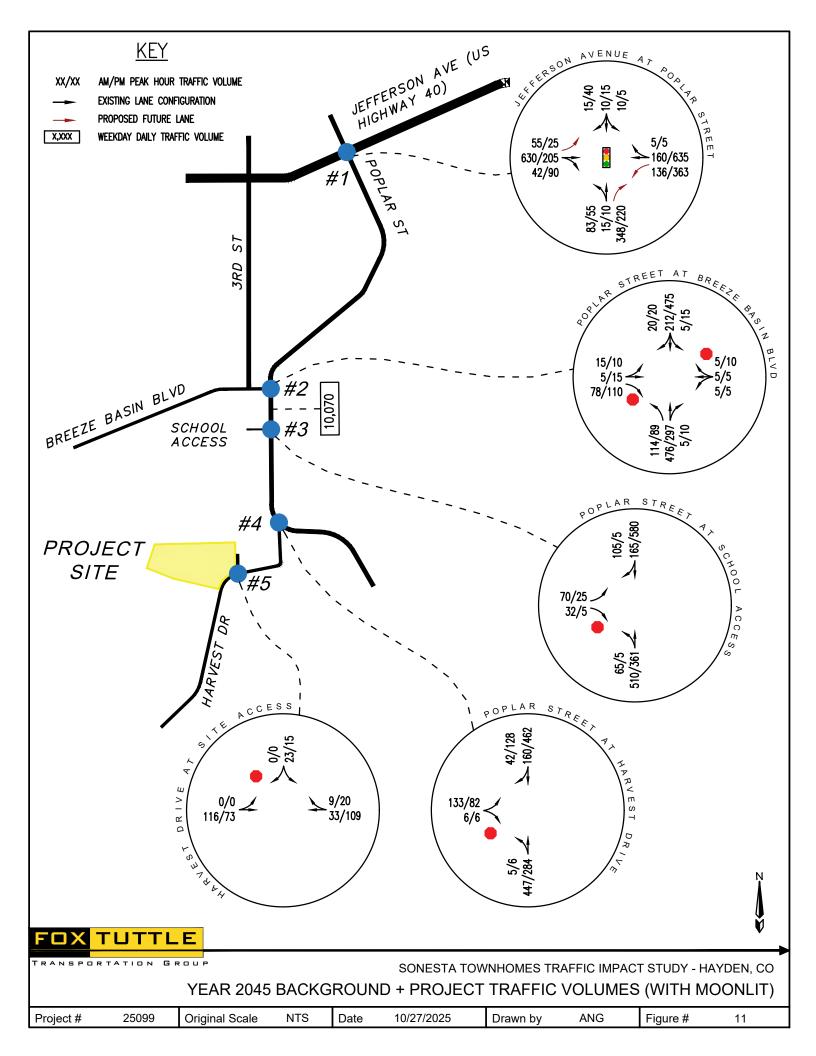












Appendix:

Level of Service Definitions

Existing Traffic Data

Intersection Capacity Worksheets

Signal Warrant Analysis

Level of Service Definitions



LEVEL OF SERVICE DEFINITIONS

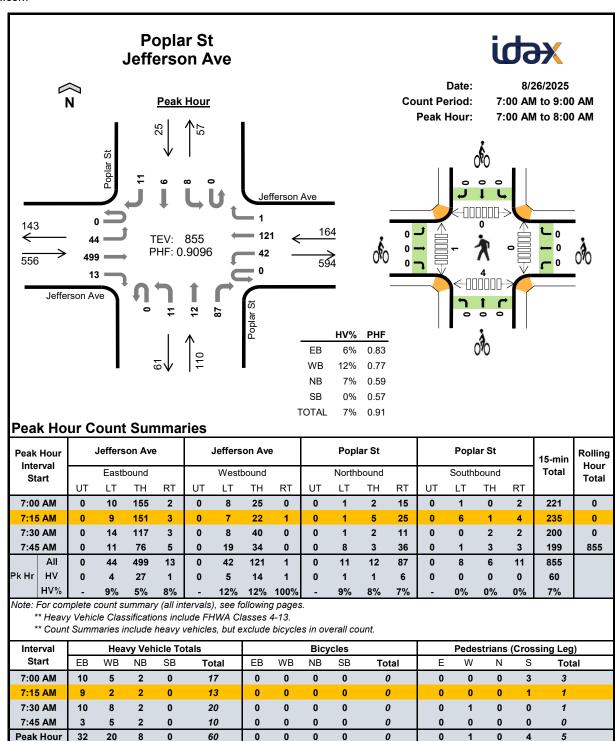
In rating roadway and intersection operating conditions with existing or future traffic volumes, "Levels of Service" (LOS) A through F are used, with LOS A indicating very good operation and LOS F indicating poor operation. Levels of service at signalized and unsignalized intersections are closely associated with vehicle delays experienced in seconds per vehicle. More complete level of service definitions and delay data for signal and stop sign controlled intersections are contained in the following table for reference.

Level	Delay in seco	onds per vehicle (a)	
of Service Rating	Signalized	Unsignalized	Definition
А	0.0 to 10.0	0.0 to 10.0	Low vehicular traffic volumes; primarily free flow operations. Density is low and vehicles can freely maneuver within the traffic stream. Drivers are able to maintain their desired speeds with little or no delay.
В	10.1 to 20.0	10.1 to 15.0	Stable vehicular traffic volume flow with potential for some restriction of operating speeds due to traffic conditions. Vehicle maneuvering is only slightly restricted. The stopped delays are not bothersome and drivers are not subject to appreciable tension.
С	20.1 to 35.0	15.1 to 25.0	Stable traffic operations, however the ability for vehicles to maneuver is more restricted by the increase in traffic volumes. Relatively satisfactory operating speeds prevail, but adverse signal coordination or longer vehicle queues cause delays along the corridor.
D	35.1 to 55.0	25.1 to 35.0	Approaching unstable vehicular traffic flow where small increases in volume could cause substantial delays. Most drivers are restricted in ability to maneuver and selection of travel speeds due to congestion. Driver comfort and convenience are low, but tolerable.
E	55.1 to 80.0	35.1 to 50.0	Traffic operations characterized by significant approach delays and average travel speeds of one-half to one-third the free flow speed. Vehicular flow is unstable and there is potential for stoppages of brief duration. High signal density, extensive vehicle queuing, or corridor signal progression/timing are the typical causes of vehicle delays at signalized corridors.
F	> 80.0	> 50.0	Forced vehicular traffic flow and operations with high approach delays at critical intersections. Vehicle speeds are reduced substantially, and stoppages may occur for short or long periods of time because of downstream congestion.

⁽a) Delay ranges based on Highway Capacity Manual (6th Edition, 2016) criteria.

Sonesta Townhomes – Hayden, CO	į
Traffic Impact Study (FT #25099)	

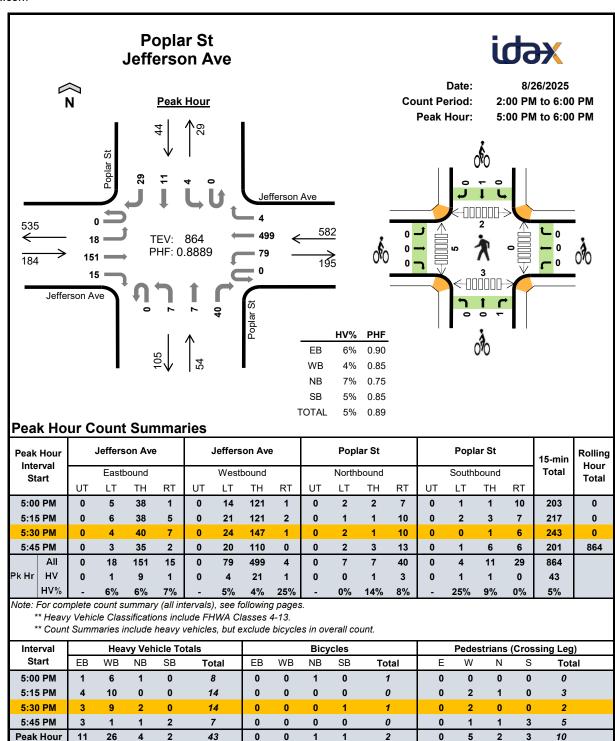
Existing Traffic Data



Cou	nt S	umn	narie	s - A	II Ve	hicl	es												
Inte	rval		Jeffers	on Ave)		Jeffers	on Ave	9		Popl	ar St			Popl	ar St		15-min	Rolling
St	art		East	oound			West	oound			North	bound			South	bound		Total	Hour Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		lotai
7:00) AM	0	10	155	2	0	8	25	0	0	1	2	15	0	1	0	2	221	0
7:15	5 AM	0	9	151	3	0	7	22	1	0	1	5	25	0	6	1	4	235	0
7:30) AM	0	14	117	3	0	8	40	0	0	1	2	11	0	0	2	2	200	0
7:45	5 AM	0	11	76	5	0	19	34	0	0	8	3	36	0	1	3	3	199	855
8:00) AM	0	14	67	4	0	7	29	1	0	1	4	16	0	1	3	6	153	787
8:15	5 AM	0	14	92	2	0	5	37	1	0	4	3	13	0	5	4	1	181	733
8:30) AM	0	9	71	3	0	4	35	0	0	1	0	12	0	4	3	2	144	677
8:45	5 AM	0	4	58	5	0	11	33	1	0	5	1	11	0	0	1	6	136	614
Coun	t Total	0	85	787	27	0	69	255	4	0	22	20	139	0	18	17	26	1,469	
	All	0	44	499	13	0	42	121	1	0	11	12	87	0	8	6	11	855	
Pk Hr	HV	0	4	27	1	0	5	14	1	0	1	1	6	0	0	0	0	60	
	HV%	-	9%	5%	8%	-	12%	12%	100%	-	9%	8%	7%	-	0%	0%	0%	7%	

Interval		Hea	vy Veh	cle Tota	als			Bicy	cles			Pedes	trians	(Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
7:00 AM	10	5	2	0	17	0	0	0	0	0	0	0	0	3	3
7:15 AM	9	2	2	0	13	0	0	0	0	0	0	0	0	1	1
7:30 AM	10	8	2	0	20	0	0	0	0	0	0	1	0	0	1
7:45 AM	3	5	2	0	10	0	0	0	0	0	0	0	0	0	0
8:00 AM	7	6	0	0	13	0	0	0	0	0	0	0	0	1	1
8:15 AM	5	4	1	0	10	0	0	0	0	0	0	0	0	2	2
8:30 AM	6	6	3	2	17	1	0	0	0	1	0	0	1	4	5
8:45 AM	7	8	2	0	17	0	0	0	0	0	0	0	0	0	0
Count Total	57	44	14	2	117	1	0	0	0	1	0	1	1	11	13
Peak Hour	32	20	8	0	60	0	0	0	0	0	0	1	0	4	5

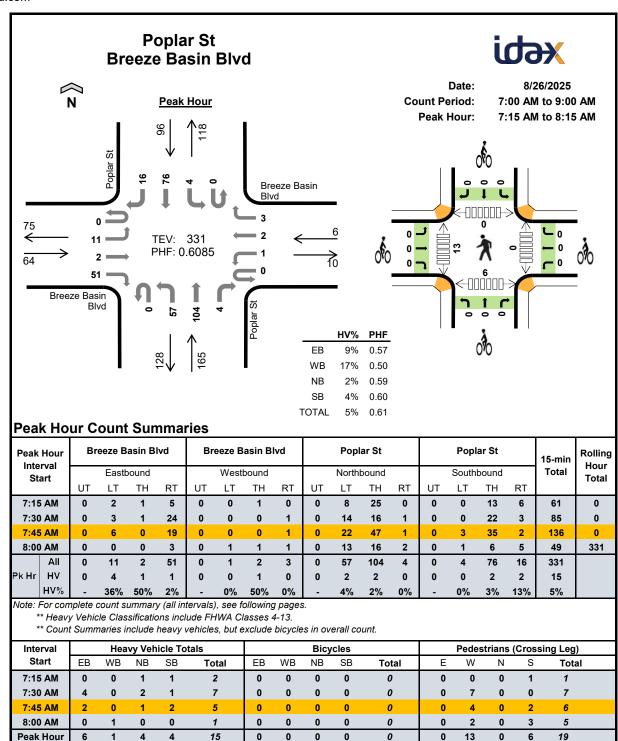
Count Su	umn	narie	s - H	eavy	/ Vel	hicle	S											
Interval	,	Jeffers	on Ave)		Jeffers	on Ave	е		Popl	lar St			Popl	lar St		15-min	Rolling Hour
Start		East	oound			West	bound			North	bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	9	0	0	1	4	0	0	0	0	2	0	0	0	0	17	0
7:15 AM	0	1	7	1	0	0	1	1	0	0	0	2	0	0	0	0	13	0
7:30 AM	0	1	9	0	0	2	6	0	0	1	1	0	0	0	0	0	20	0
7:45 AM	0	1	2	0	0	2	3	0	0	0	0	2	0	0	0	0	10	60
8:00 AM	0	0	7	0	0	0	6	0	0	0	0	0	0	0	0	0	13	56
8:15 AM	0	1	3	1	0	1	3	0	0	0	1	0	0	0	0	0	10	53
8:30 AM	0	1	5	0	0	1	5	0	0	0	0	3	0	0	2	0	17	50
8:45 AM	0	1	6	0	0	0	7	1	0	0	1	1	0	0	0	0	17	57
Count Total	0	7	48	2	0	7	35	2	0	1	3	10	0	0	2	0	117	
Pk Hr Heavy	0	4	27	1	0	5	14	1	0	1	1	6	0	0	0	0	60	
Count Su			_															
Journ St	umn	narie	S - B	ikes														
Interval		1arie Jeffers				Jeffers	son Ave	e		Popl	lar St			Popl	lar St		15-min	Rolling
		Jeffers					son Ave	9			lar St				lar St		15-min Total	Hour
Interval		Jeffers	on Ave					e RT	UT			RT	UT			RT	4	_
Interval	,	Jeffers Eastb	on Ave)		West	bound		UT 0	North	bound	RT 0	UT 0	South	bound	RT 0	4	Hour
Interval Start	UT	Jeffers Eastb LT	on Ave	RT	UT	West LT	bound TH	RT		North LT	bound TH			South LT	bound TH		Total	Hour Total
Interval Start 7:00 AM	UT 0	Jeffers Eastb LT 0	oon Ave	RT 0	UT 0	West LT 0	bound TH 0	RT 0	0	North LT	bound TH 0	0	0	South LT	bound TH	0	Total 0	Hour Total
Interval Start 7:00 AM 7:15 AM	UT 0 0	Jeffers Eastl LT 0	oon Ave	RT 0 0	UT 0 0	West LT 0	bound TH 0	RT 0	0	North LT 0	bound TH 0	0	0	South LT 0	TH 0	0	Total 0 0	Hour Total 0
Interval Start 7:00 AM 7:15 AM 7:30 AM	UT 0 0 0	Jeffers Eastt LT 0 0	oound TH 0	RT 0 0 0 0	UT 0 0 0	West LT 0 0 0	bound TH 0 0	RT 0 0 0 0	0 0 0	North LT 0 0	bound TH 0 0	0 0 0	0 0 0	South LT 0 0	bound TH 0 0	0 0 0	Total 0 0 0	Hour Total 0 0
Interval Start 7:00 AM 7:15 AM 7:30 AM 7:45 AM	UT 0 0 0 0 0 0	Easth LT 0 0 0 0	oon Ave	RT 0 0 0 0 0 0	UT 0 0 0 0 0	West LT 0 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0 0	0 0 0	North LT 0 0 0 0	bound TH 0 0 0 0	0 0 0 0	0 0 0	South LT 0 0 0 0	TH 0 0 0 0	0 0 0 0	0 0 0 0	Hour Total 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM	UT 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0	oound TH 0 0 0 0	RT 0 0 0 0 0 0 0	UT 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0	bound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0	0 0 0 0	North LT 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0	0 0 0 0	South LT 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0	Total 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM	UT 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0	oon Ave	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0	0 0 0 0	North LT	bound TH 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	South LT 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT	oon Ave bound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	West LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	Total 0 0 0 0 0 0 1	Hour Total 0 0 0 0 0 1



Inte	rval	,	Jeffers	on Ave)		Jeffers	on Ave)		Popl	ar St			Popl	ar St		15-min	Rolling
	art		East	ound			West	bound			North	bound			Southl	oound		Total	Hour Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
2:00	PM	0	2	44	5	0	6	47	0	0	3	7	6	0	1	3	2	126	0
2:15	5 PM	0	1	40	1	0	8	58	2	0	3	6	11	0	2	0	9	141	0
2:30	PM	0	3	46	3	0	10	53	0	0	4	1	8	0	0	0	5	133	0
2:45	5 PM	0	2	42	2	0	8	67	0	0	3	1	7	0	1	4	5	142	542
3:00	PM	0	3	42	3	0	11	68	0	0	3	2	5	0	0	2	4	143	559
3:15	5 PM	0	3	37	7	0	14	70	0	0	6	1	9	0	2	2	5	156	574
3:30	PM	0	1	38	12	0	13	88	1	0	4	3	6	0	0	2	3	171	612
3:45	5 PM	0	4	39	2	0	18	83	1	0	5	3	18	0	0	3	9	185	655
4:00	PM	0	2	39	9	0	17	91	2	0	6	3	12	0	0	0	7	188	700
4:15	5 PM	0	3	45	4	0	15	114	0	0	3	3	11	0	1	2	6	207	751
4:30	PM	0	5	37	3	0	18	108	0	0	5	2	8	0	3	4	4	197	777
4:45	5 PM	0	4	32	7	0	13	120	3	0	4	1	1	0	1	2	9	197	789
5:00	PM (0	5	38	1	0	14	121	1	0	2	2	7	0	1	1	10	203	804
5:15	5 PM	0	6	38	5	0	21	121	2	0	1	1	10	0	2	3	7	217	814
5:30) PM	0	4	40	7	0	24	147	1	0	2	1	10	0	0	1	6	243	860
5:45	5 PM	0	3	35	2	0	20	110	0	0	2	3	13	0	1	6	6	201	864
Coun	t Total	0	51	632	73	0	230	1,466	13	0	56	40	142	0	15	35	97	2,850	
	All	0	18	151	15	0	79	499	4	0	7	7	40	0	4	11	29	864	
k Hr	HV	0	1	9	1	0	4	21	1	0	0	1	3	0	1	1	0	43	
	HV%	-	6%	6%	7%	-	5%	4%	25%	-	0%	14%	8%	-	25%	9%	0%	5%	

Interval		Heav	/y Vehi	cle Tota	als			Bicy	cles			Pedes	trians (Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
2:00 PM	7	4	0	0	11	0	0	0	0	0	0	0	0	0	0
2:15 PM	1	7	3	1	12	0	0	0	0	0	0	0	0	0	0
2:30 PM	2	4	0	0	6	0	0	0	0	0	0	0	1	0	1
2:45 PM	4	9	0	0	13	0	0	0	0	0	0	0	0	0	0
3:00 PM	3	5	1	0	9	0	0	0	0	0	0	0	0	0	0
3:15 PM	4	10	1	0	15	1	1	0	0	2	0	0	1	0	1
3:30 PM	3	8	1	0	12	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	8	1	2	11	0	0	0	0	0	0	0	0	0	0
4:00 PM	4	11	1	1	17	0	0	0	0	0	0	0	0	0	0
4:15 PM	5	7	0	0	12	0	0	0	0	0	0	0	0	0	0
4:30 PM	3	8	0	0	11	0	0	0	0	0	0	0	0	2	2
4:45 PM	3	9	1	1	14	0	0	0	0	0	0	0	0	0	0
5:00 PM	1	6	1	0	8	0	0	1	0	1	0	0	0	0	0
5:15 PM	4	10	0	0	14	0	0	0	0	0	0	2	1	0	3
5:30 PM	3	9	2	0	14	0	0	0	1	1	0	2	0	0	2
5:45 PM	3	1	1	2	7	0	0	0	0	0	0	1	1	3	5
Count Total	50	116	13	7	186	1	1	1	1	4	0	5	4	5	14
Peak Hour	11	26	4	2	43	0	0	1	1	2	0	5	2	3	10

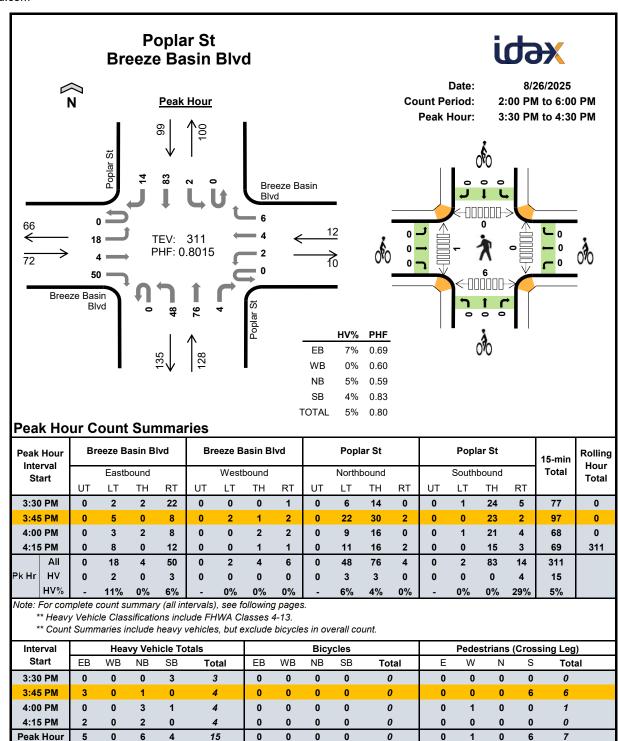
			s - H						I					_				
Interval		Jeffers	on Ave)		Jeffers	on Ave	9		Popl	lar St			Popl	ar St		15-min	Rolling Hour
Start		Eastb	ound			Westl	bound			North	bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
2:00 PM	0	0	7	0	0	2	2	0	0	0	0	0	0	0	0	0	11	0
2:15 PM	0	0	1	0	0	0	7	0	0	1	1	1	0	1	0	0	12	0
2:30 PM	0	0	2	0	0	1	3	0	0	0	0	0	0	0	0	0	6	0
2:45 PM	0	0	4	0	0	1	8	0	0	0	0	0	0	0	0	0	13	42
3:00 PM	0	0	3	0	0	0	5	0	0	0	0	1	0	0	0	0	9	40
3:15 PM	0	0	3	1	0	2	8	0	0	1	0	0	0	0	0	0	15	43
3:30 PM	0	0	3	0	0	0	7	1	0	0	1	0	0	0	0	0	12	49
3:45 PM	0	0	0	0	0	1	7	0	0	0	0	1	0	0	0	2	11	47
4:00 PM	0	0	3	1	0	2	8	1	0	1	0	0	0	0	0	1	17	55
4:15 PM	0	0	5	0	0	0	7	0	0	0	0	0	0	0	0	0	12	52
4:30 PM	0	0	3	0	0	1	7	0	0	0	0	0	0	0	0	0	11	51
4:45 PM	0	0	2	1	0	0	9	0	0	1	0	0	0	0	0	1	14	54
5:00 PM	0	0	1	0	0	1	5	0	0	0	0	1	0	0	0	0	8	45
5:15 PM	0	1	3	0	0	3	7	0	0	0	0	0	0	0	0	0	14	47
5:30 PM	0	0	3	0	0	0	8	1	0	0	0	2	0	0	0	0	14	50
5:45 PM	0	0	2	1	0	0	1	0	0	0	1	0	0	1	1	0	7	43
Count Total	0	1	45	4	0	14	99	3	0	4	3	6	0	2	1	4	186	
Pk Hr Heavy	0	1	9	1	0	4	21	1	0	0	1	3	0	1	1	0	43	
Count Su	umn	narie	s - B	ikes														
Interval		Jeffers	on Ave	•		Jeffers	on Ave	9		Popl	lar St			Popl	ar St		l	Rollina
				•				9						-			15-min	Rolling Hour
Start	LIT	Eastb	oound			Westl	bound		ШТ	North	bound	DT	ШТ	South	bound	DT	15-min Total	_
	UT	Eastb LT	oound TH	RT	UT	Westl LT	bound TH	RT	UT	North LT	bound TH	RT	UT	South LT	bound TH	RT	Total	Hour Total
2:00 PM	0	Eastb LT 0	oound TH 0	RT 0	UT 0	Westl LT 0	bound TH 0	RT 0	0	North LT 0	bound TH 0	0	0	South LT	bound TH 0	0	Total 0	Hour Total
2:00 PM 2:15 PM	0	Eastb LT 0	oound TH 0	RT 0 0	UT 0 0	Westl LT 0	bound TH 0	RT 0 0	0	North LT 0	bound TH 0 0	0	0	South LT 0	bound TH 0	0	0 0	Hour Total 0 0
2:00 PM 2:15 PM 2:30 PM	0 0 0	Easth LT 0 0	oound TH 0 0	RT 0 0 0 0	UT 0 0	Westl LT 0 0	bound TH 0 0	RT 0 0 0	0 0 0	North LT 0 0	bound TH 0 0	0 0 0	0 0 0	South LT 0 0 0	bound TH 0 0 0	0 0 0	0 0 0	Hour Total 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM	0 0 0 0	Eastb LT 0 0 0	oound TH 0 0 0	RT 0 0 0 0 0	UT 0 0 0	Westl LT 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0	0 0 0	North LT 0 0 0	bound TH 0 0 0 0	0 0 0	0 0 0	South LT 0 0 0	bound TH 0 0 0 0	0 0 0	0 0 0 0	Hour Total 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM	0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0	0 0 0 0 0 0	RT 0 0 0 0 0 0 0	UT 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0	Dound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0	0 0 0 0	North LT 0 0 0 0	bound TH 0 0 0 0	0 0 0 0	0 0 0 0	South LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0	0 0 0 0 0	Hour Total 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM	0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 2	Hour Total 0 0 0 0 0 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM	0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1	RT 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 2	0 0 0 0 0 0 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM	0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 1 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westli LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 2 0	Hour Total 0 0 0 0 2 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM	0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westli LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0	Hour Total 0 0 0 0 0 2 2 2 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 0	Hour Total 0 0 0 0 0 2 2 2 2 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM	0 0 0 0 0 0 0	Eastb LT	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 0 0	Hour Total 0 0 0 0 0 2 2 2 2 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 2 2 2 2 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	0 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dound TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 0 1	Hour Total 0 0 0 0 0 2 2 2 2 0 0 1
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dound TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 1 0	Hour Total 0 0 0 0 0 2 2 2 2 0 0 1 1
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dound TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 1 0 1	Hour Total 0 0 0 0 0 0 2 2 2 2 2 0 0 0 1 1 1 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dound TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 2 0 0 0 0 1 0	Hour Total 0 0 0 0 0 2 2 2 2 0 0 1 1



Cou	ınt S	umn	narie	s - A	II Ve	hicle	es							,				T	
Inte	erval	Br	eeze B	asin B	vd	Br	eeze B	asin Bl	lvd		Popl	ar St			Popl	ar St		15-min	Rolling
St	art		Easth	oound			West	bound			North	bound			South	bound		Total	Hour Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
7:00	MA C	0	1	1	6	0	0	0	0	0	6	18	0	0	0	11	0	43	0
7:15	5 AM	0	2	1	5	0	0	1	0	0	8	25	0	0	0	13	6	61	0
7:30	MA C	0	3	1	24	0	0	0	1	0	14	16	1	0	0	22	3	85	0
7:45	5 AM	0	6	0	19	0	0	0	1	0	22	47	1	0	3	35	2	136	325
8:00) AM	0	0	0	3	0	1	1	1	0	13	16	2	0	1	6	5	49	331
8:15	5 AM	0	2	0	4	0	0	1	1	0	9	15	0	0	1	4	1	38	308
8:30	MA C	0	4	0	6	0	1	0	0	0	5	6	0	0	3	9	1	35	258
8:45	5 AM	0	1	1	2	0	2	0	1	0	5	14	0	0	2	16	2	46	168
Coun	t Total	0	19	4	69	0	4	3	5	0	82	157	4	0	10	116	20	493	
	All	0	11	2	51	0	1	2	3	0	57	104	4	0	4	76	16	331	
Pk Hr	HV	0	4	1	1	0	0	1	0	0	2	2	0	0	0	2	2	15	
	HV%	-	36%	50%	2%	-	0%	50%	0%	-	4%	2%	0%	-	0%	3%	13%	5%	

Interval		Hea	vy Veh	icle Tot	als			Bicy	cles			Pedes	trians (Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
7:00 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	1	1	2	0	0	0	0	0	0	0	0	1	1
7:30 AM	4	0	2	1	7	0	0	0	0	0	0	7	0	0	7
7:45 AM	2	0	1	2	5	0	0	0	0	0	0	4	0	2	6
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	3	5
8:15 AM	1	0	1	0	2	0	0	0	0	0	0	0	0	2	2
8:30 AM	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	2	3	0	0	1	0	1	0	0	0	0	0
Count Total	10	1	6	7	24	0	0	1	0	1	0	13	0	8	21
Peak Hour	6	1	4	4	15	0	0	0	0	0	0	13	0	6	19

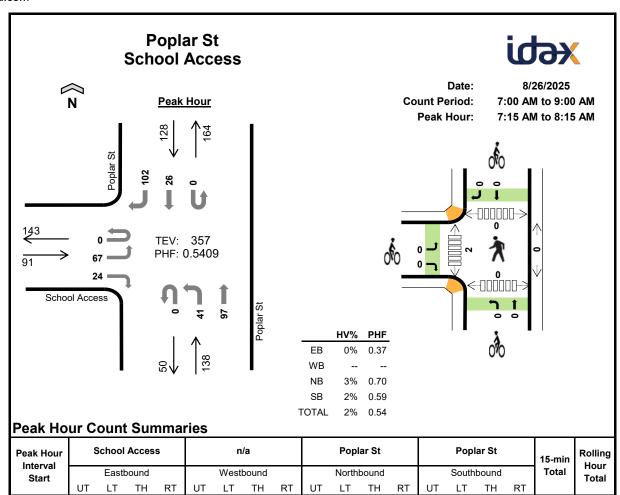
Interval	Br	eeze B	asin B	lvd	Bre	eeze B	asin B	lvd		Popl	ar St			Popl	ar St		15-min	Rolling
Start		Easth	ound			West	bound			North	bound			South	bound		Total	Hour Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	0
7:30 AM	0	2	1	1	0	0	0	0	0	1	1	0	0	0	0	1	7	0
7:45 AM	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	1	5	15
8:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	15
8:15 AM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	15
8:30 AM	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	11
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	9
Count Total	0	7	1	2	0	0	1	0	0	2	4	0	0	0	4	3	24	
Pk Hr Heavy	0	4	1	1	0	0	1	0	0	2	2	0	0	0	2	2	15	
Count Si	umm	narie	s - B	ikes														
Interval	Br	eeze B	asin B	lvd	Bre	eeze B	asin B	lvd		Poni	ar St			Popl	ar St			Rolling
										. op	u. Ot						15-min	_
Start		Eastb	ound			West	bound				bound			South	bound		15-min Total	Hour
Start	UT	Eastb	oound TH	RT	UT	West	bound TH	RT	UT			RT	UT	South LT	bound TH	RT		_
Start 7:00 AM	UT 0			RT 0	UT 0			RT 0	UT 0	North	bound	RT 0	UT 0			RT 0		Hour
		LT	TH			LT	TH			North LT	bound TH			LT	TH		Total	Hour Total
7:00 AM	0	LT 0	TH 0	0	0	LT 0	TH 0	0	0	North LT 0	bound TH 0	0	0	LT 0	TH 0	0	Total	Hour Total
7:00 AM 7:15 AM	0 0	0 0	TH 0 0	0 0	0	0 0	TH 0 0	0 0	0	North LT 0	bound TH 0	0 0	0	0 0	TH 0 0	0 0	0 0	Hour Total 0 0
7:00 AM 7:15 AM 7:30 AM	0 0 0	0 0 0	TH 0 0 0	0 0 0	0 0 0	0 0 0	TH 0 0 0	0 0 0	0 0 0	North LT 0 0	bound TH 0 0 0	0 0 0	0 0 0	0 0 0	TH 0 0 0	0 0 0	0 0 0	Hour Total 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM	0 0 0	0 0 0 0	TH 0 0 0 0 0	0 0 0	0 0 0	0 0 0 0	TH 0 0 0 0 0	0 0 0	0 0 0	North LT 0 0 0	bound TH 0 0 0 0	0 0 0	0 0 0	LT 0 0 0 0 0	TH 0 0 0 0 0	0 0 0	Total 0 0 0 0	Hour Total 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	DT 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	North LT 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	Total 0 0 0 0 0	Hour Total 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM	0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	North LT 0 0 0 0 0	bound TH 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	Total 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM	0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0 0



Interval	В	reeze B	asin B	lvd	Br	eeze B	asin B	lvd		Popl	ar St			Pop	lar St		15-min	Rolling
Start		East	oound			West	oound			North	bound			South	bound		Total	Hour Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
2:00 PM	0	1	1	5	0	0	0	0	0	6	19	0	0	0	8	1	41	0
2:15 PM	0	0	2	1	0	0	3	1	0	2	13	0	0	1	10	1	34	0
2:30 PM	0	3	0	2	0	1	0	1	0	2	7	1	0	3	11	2	33	0
2:45 PM	0	1	2	5	0	1	0	2	0	3	9	0	1	1	12	1	38	146
3:00 PM	0	0	2	6	0	1	0	0	0	3	8	0	0	2	16	0	38	143
3:15 PM	0	5	0	6	0	1	1	3	0	11	8	1	0	0	21	2	59	168
3:30 PM	0	2	2	22	0	0	0	1	0	6	14	0	0	1	24	5	77	212
3:45 PM	0	5	0	8	0	2	1	2	0	22	30	2	0	0	23	2	97	271
4:00 PM	0	3	2	8	0	0	2	2	0	9	16	0	0	1	21	4	68	301
4:15 PM	0	8	0	12	0	0	1	1	0	11	16	2	0	0	15	3	69	311
4:30 PM	0	1	1	8	0	0	3	0	0	8	9	0	0	1	20	6	57	291
4:45 PM	0	1	1	10	0	0	2	0	0	18	6	0	0	0	17	2	57	251
5:00 PM	0	3	2	14	0	0	0	1	0	7	5	0	0	1	16	2	51	234
5:15 PM	0	2	3	9	0	2	0	2	0	7	9	4	0	6	17	1	62	227
5:30 PM	0	1	2	11	0	0	0	1	0	8	13	2	0	4	26	3	71	241
5:45 PM	0	1	2	14	0	0	2	2	0	15	12	0	0	0	20	9	77	261
Count Tota	al 0	37	22	141	0	8	15	19	0	138	194	12	1	21	277	44	929	
All	0	18	4	50	0	2	4	6	0	48	76	4	0	2	83	14	311	
Pk Hr HV	0	2	0	3	0	0	0	0	0	3	3	0	0	0	0	4	15	
HV	6 -	11%	0%	6%	-	0%	0%	0%	-	6%	4%	0%	-	0%	0%	29%	5%	

Interval		Heav	/y Vehi	cle Tota	als			Bicy	cles			Pedes	trians	(Crossi	ing Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
2:00 PM	1	0	1	1	3	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2
3:00 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	3	3	0	0	0	0	0	0	1	0	0	1
3:30 PM	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0
3:45 PM	3	0	1	0	4	0	0	0	0	0	0	0	0	6	6
4:00 PM	0	0	3	1	4	0	0	0	0	0	0	1	0	0	1
4:15 PM	2	0	2	0	4	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	1	0	2	0	0	0	0	0	0	1	0	0	1
5:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2
Count Total	8	0	12	12	32	0	0	2	0	2	2	4	1	6	13
Peak Hour	5	0	6	4	15	0	0	0	0	0	0	1	0	6	7

Count Su	umn	narie	s - H	eavy	/ Veł	nicle	S											
Interval	Br	eeze B	asin B	lvd	Br	eeze B	asin B	lvd		Popl	lar St			Popl	ar St		15-min	Rolling Hour
Start		East	oound			Westl	bound			North	bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
2:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	6
3:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	5
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	8
3:45 PM	0	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	4	11
4:00 PM	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	4	14
4:15 PM	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	4	15
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	13
4:45 PM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	11
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	8
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2	6
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	6
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Count Total	0	3	2	3	0	0	0	0	0	4	8	0	0	1	6	5	32	
Pk Hr Heavy	0	2	0	3	0	0	0	0	0	3	3	0	0	0	0	4	15	
Count Su	ımn		_															
	<u> </u>	iarie	s - B	ikes					T								•	1
Interval		eeze B			Br	eeze B	asin B	lvd		Popi	lar St			Popl	ar St		15-min	_
Interval Start		eeze B			Br		asin B	lvd			lar St			•	ar St		15-min Total	Rolling Hour
		eeze B	asin B		Br UT			lvd RT	UT			RT	UT	•		RT	4	_
	Br	eeze B Eastt	asin B	lvd		Westl	bound		UT 0	North	bound	RT 0	UT 0	South	bound	RT 0	4	Hour
Start	Br UT	eeze B Eastt LT	oound TH	lvd RT	UT	Westl LT	bound TH	RT		North LT	bound TH			South LT	bound TH		Total	Hour Total
Start 2:00 PM	UT 0	Eastl LT	asin B bound TH 0	RT 0	UT 0	Westl LT 0	bound TH 0	RT 0	0	North LT	bound TH 0	0	0	South LT	bound TH 0	0	Total 0	Hour Total
2:00 PM 2:15 PM	UT 0 0	Eastle LT 0 0	oound TH 0 0	RT 0 0	UT 0 0	Westl LT 0 0	bound TH 0	RT 0 0	0	North LT 0 1	bound TH 0 0	0 0	0	South LT 0	bound TH 0	0 0	Total 0 1	Hour Total 0 0
2:00 PM 2:15 PM 2:30 PM	UT 0 0 0	Eastb LT 0 0	oound TH 0 0	RT 0 0 0 0	UT 0 0	Westl LT 0 0	bound TH 0 0	RT 0 0 0	0 0 0	North LT 0 1	bound TH 0 0	0 0 0	0 0 0	South LT 0 0	bound TH 0 0	0 0 0	0 1 0	Hour Total 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM	UT 0 0 0 0 0	Easth LT 0 0 0 0	oound TH 0 0 0	RT 0 0 0 0 0	UT 0 0 0	Westl LT 0 0 0 0 0 0	Dound TH 0 0 0 0	RT 0 0 0 0 0	0 0 0	North LT 0 1 0 0	bound TH 0 0 0 0	0 0 0	0 0 0	South LT 0 0 0	bound TH 0 0 0	0 0 0	0 1 0 0	Hour Total 0 0 0 1
2:00 PM 2:15 PM 2:30 PM 2:30 PM 2:45 PM 3:00 PM	UT 0 0 0 0 0 0 0	Easth LT 0 0 0 0	oound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0	Dound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0	0 0 0 0	North LT 0 1 0 0	bound TH 0 0 0 0	0 0 0 0	0 0 0 0	South LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0	0 1 0 0 0	Hour Total 0 0 1 1
2:00 PM 2:15 PM 2:30 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM	UT 0 0 0 0 0 0 0 0 0	Eastly LT 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 1 0 0 0	bound TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	0 0 0 0 0	0 1 0 0 0 0 0 0	0 0 0 1 1 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM	UT 0 0 0 0 0 0 0 0 0	Eastt LT 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	0 0 0 0 0	North LT 0 1 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	0 0 0 0 0	0 1 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0	Westli LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	North LT 0 1 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eastt LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westli LT 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eastt LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westll LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	UT	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:30 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Documd TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Easth LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	asin B cound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Documd TH	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0



HV% - 0% - 0% - - - -

0%

4%

7:15 AM

7:30 AM

7:45 AM

8:00 AM

нν

Pk Hr

Note: For complete count summary (all intervals), see following pages.

** Heavy Vehicle Classifications include FHWA Classes 4-13.

^{**} Count Summaries include heavy vehicles, but exclude bicycles in overall count.

Interval		Hea	vy Ver	icle To	tals			Bicy	cles			Pedes	trians (Crossi	ng Leg)	
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total	
7:15 AM	0	0	2	1	3	0	0	0	0	0	0	1	0	0	1	
7:30 AM	0	0	1	1	2	0	0	0	0	0	0	1	0	0	1	
7:45 AM	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Peak Hour	0	0	4	3	7	0	0	0	0	0	0	2	0	0	2	

12%

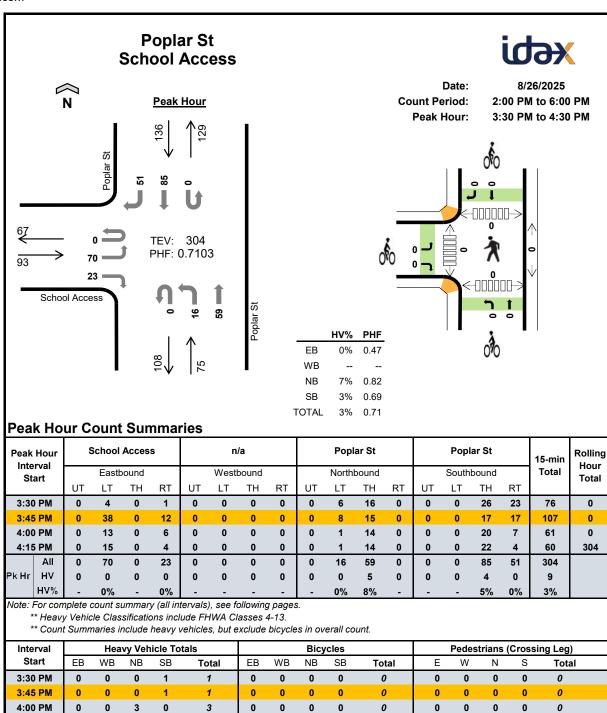
0%

2%

Inte	rval	8	School	Acces	s		n	/a			Popl	ar St			Popl	lar St		15-min	Rolling Hour
St	art		Eastb	ound			Westl	bound			North	bound			South	bound		Total	Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
7:00) AM	0	0	0	0	0	0	0	0	0	1	25	0	0	0	7	9	42	0
7:15	5 AM	0	0	0	0	0	0	0	0	0	2	32	0	0	0	4	14	52	0
7:30) AM	0	7	0	3	0	0	0	0	0	14	22	0	0	0	9	37	92	0
7:45	5 AM	0	46	0	16	0	0	0	0	0	25	24	0	0	0	6	48	165	351
8:00) AM	0	14	0	5	0	0	0	0	0	0	19	0	0	0	7	3	48	357
8:15	5 AM	0	1	0	1	0	0	0	0	0	1	23	0	0	0	7	1	34	339
8:30) AM	0	0	0	0	0	0	0	0	0	1	11	0	0	0	15	1	28	275
8:45	5 AM	0	0	0	0	0	0	0	0	0	1	20	0	0	0	16	3	40	150
Coun	t Total	0	68	0	25	0	0	0	0	0	45	176	0	0	0	71	116	501	
	All	0	67	0	24	0	0	0	0	0	41	97	0	0	0	26	102	357	
Pk Hr	HV	0	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	7	
	HV%	-	0%	-	0%	-	-	_	-	-	0%	4%	-	-	-	12%	0%	2%	

Interval		Hea	vy Veh	cle Tota	als			Bicy	cles			Pedes	trians ((Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
7:00 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	2	1	3	0	0	0	0	0	0	1	0	0	1
7:30 AM	0	0	1	1	2	0	0	0	0	0	0	1	0	0	1
7:45 AM	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	1	2	0	0	2	0	2	0	0	0	0	0
Count Total	0	0	6	6	12	0	0	2	0	2	0	2	0	0	2
Peak Hour	0	0	4	3	7	0	0	0	0	0	0	2	0	0	2

					·													
Count Su	umn	narie	s - H	leavy	<u>, ver</u>	nicle	S											
Interval	•	School	Acces	s		n	/a			Pop	lar St			Popl	ar St		15-min	Rolling Hour
Start		Eastb	ound			West	bound			North	bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	8
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	5
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	4
Count Total	0	0	0	0	0	0	0	0	0	0	6	0	0	0	5	1	12	
Pk Hr Heavy	0	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	7	
, ,	_			•	•			•	•	•	_					_	•	
Count Su	umn										7						,	
			s - B	ikes			ı/a				lar St				ar St		15-min	Rolling
Count St		narie School	s - B	ikes		n				Рор				Popl				Hour
Count Su		narie School	S - B Acces	ikes		n	/a	RT	UT	Рор	lar St	RT	UT	Popl	ar St	RT	15-min	_
Count Su		narie School Eastb	S - B Acces	s s		n West	l /a bound			Pop North	lar St			Pop! South	lar St		15-min	Hour
Count St Interval Start	UT	narie School Eastk LT	S - B Acces bound TH	s RT	UT	n West LT	l /a bound TH	RT	UT	Pop North LT	lar St bound TH	RT	UT	Popl South LT	lar St bound TH	RT	15-min Total	Hour Total
Interval Start	UT 0	School Eastb	Acces	RT 0	UT 0	West	bound TH	RT 0	UT 0	Pop North LT 0	lar St bound TH 0	RT 0	UT 0	Popl South LT 0	dar St bound TH 0	RT 0	15-min Total	Hour Total
Interval Start 7:00 AM 7:15 AM	UT 0 0	Castle LT 0	Acces oound TH 0	RT 0	UT 0 0	West LT 0	bound TH 0	RT 0 0	UT 0 0	Pop North LT 0	lar St bound TH 0	RT 0 0	UT 0 0	Popli South LT 0	dar St bound TH 0	RT 0 0	15-min Total	Hour Total 0
Interval Start 7:00 AM 7:15 AM 7:30 AM	UT 0 0 0 0	School Eastle LT 0 0	S - B Acces Cound TH 0 0 0	RT 0 0 0	UT 0 0 0	n West LT 0 0 0	bound TH 0 0	RT 0 0 0 0	UT 0 0 0	Pop North LT 0 0 0	bound TH 0 0	RT 0 0 0 0	UT 0 0 0	Pople South LT 0 0 0	bound TH 0 0	RT 0 0 0 0	15-min Total 0 0	Hour Total 0 0
Interval Start 7:00 AM 7:15 AM 7:30 AM 7:45 AM	UT 0 0 0 0	Eastb LT 0 0	S - B Acces Dound TH 0 0 0	RT 0 0 0 0	UT 0 0 0 0	n West LT 0 0 0 0	bound TH 0 0	RT 0 0 0 0 0	UT 0 0 0 0	Pop North LT 0 0 0	lar St bound TH 0 0 0	RT 0 0 0 0 0	UT 0 0 0 0	Popl South LT 0 0	bound TH 0 0 0	RT 0 0 0 0 0	15-min Total 0 0 0	Hour Total 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM	UT 0 0 0 0 0 0 0	Eastb LT 0 0 0	S - B Acces cound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n West LT 0 0 0 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pop North LT 0 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl South LT 0 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15-min Total 0 0 0	Hour Total 0 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM	UT 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0	S - B Acces cound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	bound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pop North LT 0 0 0 0 0	bound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0	Popl South LT 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	15-min Total 0 0 0 0	Hour Total 0 0 0 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S - B Acces Cound TH 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	bound TH 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pop North LT 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl South LT 0 0 0 0 0 0	bound TH 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15-min Total 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0



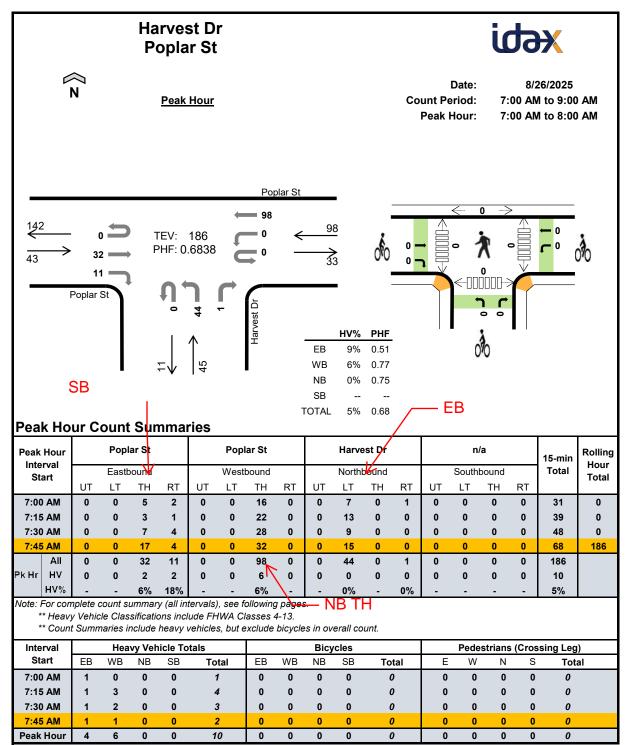
4:15 PM

Peak Hour

Cou	nt S	umn	narie	s - A	II Ve	hicl	es			ı								ı	1
Inter	val	\$	School	Acces	s		n	/a			Popl	ar St			Popl	lar St		15-min	Rolling Hour
Sta	ırt		Easth	ound			West	bound			North	bound			South	bound		Total	Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
2:00	PM	0	8	0	1	0	0	0	0	0	0	17	0	0	0	13	1	40	0
2:15	PM	0	2	0	0	0	0	0	0	0	0	14	0	0	0	11	1	28	0
2:30	PM	0	2	0	0	0	0	0	0	0	0	10	0	0	0	14	0	26	0
2:45	PM	0	0	0	0	0	0	0	0	0	2	11	0	0	0	16	1	30	124
3:00	PM	0	4	0	1	0	0	0	0	0	0	6	0	0	0	17	5	33	117
3:15	PM	0	5	0	0	0	0	0	0	0	2	15	0	0	0	22	6	50	139
3:30	PM	0	4	0	1	0	0	0	0	0	6	16	0	0	0	26	23	76	189
3:45	PM	0	38	0	12	0	0	0	0	0	8	15	0	0	0	17	17	107	266
4:00	PM	0	13	0	6	0	0	0	0	0	1	14	0	0	0	20	7	61	294
4:15	PM	0	15	0	4	0	0	0	0	0	1	14	0	0	0	22	4	60	304
4:30	PM	0	6	0	3	0	0	0	0	0	3	11	0	0	0	27	2	52	280
4:45	PM	0	4	0	1	0	0	0	0	0	0	20	0	0	0	24	1	50	223
5:00	PM	0	6	0	1	0	0	0	0	0	0	6	0	0	0	30	0	43	205
5:15	PM	0	7	0	2	0	0	0	0	0	0	12	0	0	0	28	1	50	195
5:30	PM	0	4	0	0	0	0	0	0	0	0	21	0	0	0	35	1	61	204
5:45	PM	0	2	0	0	0	0	0	0	0	0	22	0	0	0	34	1	59	213
Count	Total	0	120	0	32	0	0	0	0	0	23	224	0	0	0	356	71	826	
	All	0	70	0	23	0	0	0	0	0	16	59	0	0	0	85	51	304	
Pk Hr	HV	0	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	9	
	HV%	-	0%	-	0%	-	-	-	-	-	0%	8%	-	-	-	5%	0%	3%	

Interval		Heav	/y Vehi	cle Tota	als			Bicy	cles			Pedes	trians ((Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
2:00 PM	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	2	0	2	0	0	0	0	0	0	1	0	0	1
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
3:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	2	2	0	0	0	0	0	0	1	0	0	1
3:30 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	2	2	4	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1
5:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Count Total	0	0	12	9	21	0	0	1	0	1	0	5	0	0	5
Peak Hour	0	0	5	4	9	0	0	0	0	0	0	0	0	0	0

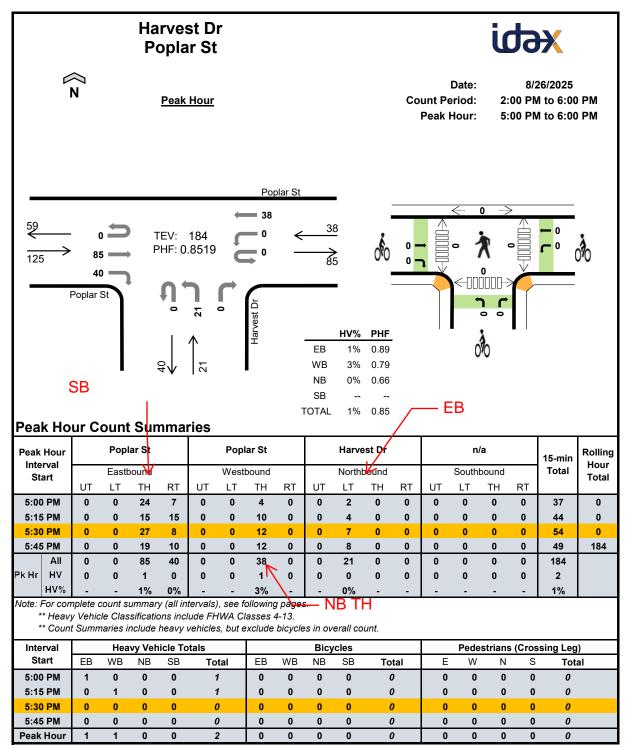
Count Su	umn	narie	s - H	leavy	/ Vel	nicle	S											
Interval	;	School		s			/a				ar St			Popl			15-min	Rolling Hour
Start		Eastb	ound			Westl	bound				bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
2:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
3:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	7
4:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	4	9
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	8
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	6
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Count Total	0	0	0	0	0	0	0	0	0	0	12	0	0	0	9	0	21	
Pk Hr Heavy	0	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	9	
Count Su	umn	narie	s - B	ikes														
Interval	;	School	Acces	s		n	/a			Popl	ar St			Popl	ar St			Rolling
Start																	15-min	ittoiiiig
		Eastb	ound			West	bound			North	bound			South	bound		15-min Total	Hour
	UT	Eastb LT		RT	UT		bound TH	RT	UT			RT	UT			RT		_
2:00 PM	UT 0	LT	TH	RT 0	UT 0	LT	TH	RT 0	UT 0	LT	TH	RT 0	UT 0	LT	TH	RT 0	Total	Hour Total
2:00 PM 2:15 PM	0	LT 0	TH 0	0	0	LT 0	TH 0	0	0	LT 0	TH 0	0	0	LT 0	TH 0	0	Total 0	Hour Total
2:15 PM	0	0 0	TH 0 0	0	0	0 0	TH 0 0	0 0	0	0 0	TH 0 0	0 0	0	0 0	TH 0 0	0	Total 0 0	Hour Total 0 0
	0	LT 0	TH 0	0	0	LT 0	TH 0	0	0	LT 0	TH 0	0	0	LT 0	TH 0	0	Total 0	Hour Total
2:15 PM 2:30 PM	0 0 0	0 0 0	TH 0 0 0 0 0 0	0 0 0	0 0 0	0 0 0	TH 0 0 0 0 0 0	0 0 0	0 0 0	0 0 0	TH 0 0 0	0 0 0	0 0 0	0 0 0	TH 0 0 0	0 0 0	0 0 0	Hour Total 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	Hour Total 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	TH 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM	0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total	Hour Total 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total	Hour Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



Cou	ınt Sı	umm	narie	s - A	II Ve	hicle	es												
Inte	rval		Popl	ar St			Pop	lar St			Harve	est Dr			n	/a		15-min	Rolling Hour
Sta	art		East	oound			West	bound			North	bound			South	bound		Total	Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		10141
7:00) AM	0	0	5	2	0	0	16	0	0	7	0	1	0	0	0	0	31	0
7:15	5 AM	0	0	3	1	0	0	22	0	0	13	0	0	0	0	0	0	39	0
7:30) AM	0	0	7	4	0	0	28	0	0	9	0	0	0	0	0	0	48	0
7:45	5 AM	0	0	17	4	0	0	32	0	0	15	0	0	0	0	0	0	68	186
8:00) AM	0	0	6	5	0	0	14	0	0	3	0	0	0	0	0	0	28	183
8:15	5 AM	0	0	8	1	0	0	17	0	0	8	0	0	0	0	0	0	34	178
8:30) AM	0	0	12	2	0	0	3	0	0	6	0	0	0	0	0	0	23	153
8:45	5 AM	0	0	12	4	0	0	17	0	0	3	0	1	0	0	0	0	37	122
Count	t Total	0	0	70	23	0	0	149	0	0	64	0	2	0	0	0	0	308	
	All	0	0	32	11	0	0	98	0	0	44	0	1	0	0	0	0	186	
Pk Hr	HV	0	0	2	2	0	0	6	0	0	0	0	0	0	0	0	0	10	
	HV%	-	-	6%	18%	-	-	6%	-	-	0%	-	0%	-	-	-	-	5%	

Interval		Hea	vy Veh	icle Tota	als			Bicy	cles			Pedes	trians (Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
7:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7:15 AM	1	3	0	0	4	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0
7:45 AM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
8:30 AM	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0
Count Total	7	8	0	0	15	0	2	0	0	2	0	0	0	0	0
Peak Hour	4	6	0	0	10	0	0	0	0	0	0	0	0	0	0

Count S	umn	narie	s - H	leavy	/ Vel	nicle	s											
Interval		Popl	lar St			Popl	ar St			Harv	est Dr			n	/a		15-min	Rolling Hour
Start		East	oound			West	bound			North	bound			South	bound		Total	Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		10.0.
7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7:15 AM	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	4	0
7:30 AM	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	3	0
7:45 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	10
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
8:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	6
8:30 AM	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6
8:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5
Count Total	0	0	5	2	0	0	8	0	0	0	0	0	0	0	0	0	15	
Pk Hr Heavy	0	0	2	2	0	0	6	0	0	0	0	0	0	0	0	0	10	
Count S	umn	narie	s - B	ikes														
Interval		Popl	lar St			Popl	ar St			Harv	est Dr			n	/a		15-min	Rolling
Start		East	oound			West	bound			North	bound			South	bound		Total	Hour Total
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		10141
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	_	0	0	0	0	0	0	0	2	2
8:45 AM	0	0	U	U	U	U	2	0	0	0	U	U	U	U	U	U		
8:45 AM Count Total	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	



Interv	val		Popl	ar St			Popl	ar St			Harve	est Dr			n	/a		15-min	Rolling
Star			East	oound			West	bound			North	bound			South	bound		Total	Hour Total
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		Total
2:00 F	PM	0	0	6	6	0	0	13	0	0	2	0	0	0	0	0	0	27	0
2:15 F	PM	0	0	7	3	0	0	14	0	0	2	0	0	0	0	0	0	26	0
2:30 F	PM	0	0	10	2	0	0	6	0	0	2	0	0	0	0	0	0	20	0
2:45 F	PM	0	0	12	5	0	0	12	0	0	1	0	0	0	0	0	0	30	103
3:00 F	PM	0	0	10	6	0	0	7	0	0	0	0	0	0	0	0	0	23	99
3:15 F	PM	0	0	15	6	0	1	10	0	0	7	0	0	0	0	0	0	39	112
3:30 F	PM	0	0	15	5	0	0	15	0	0	5	0	0	0	0	0	0	40	132
3:45 F	PM	0	0	15	13	0	0	12	0	0	4	0	0	0	0	0	0	44	146
4:00 F	PM	0	0	16	8	0	1	13	0	0	3	0	0	0	0	0	0	41	164
4:15 F	PM	0	0	16	11	0	0	7	0	0	5	0	0	0	0	0	0	39	164
4:30 F	PM	0	0	19	9	0	0	11	0	0	5	0	0	0	0	0	0	44	168
4:45 F	PM	0	0	16	6	0	0	12	0	0	5	0	0	0	0	0	0	39	163
5:00 F	PM	0	0	24	7	0	0	4	0	0	2	0	0	0	0	0	0	37	159
5:15 F	PM	0	0	15	15	0	0	10	0	0	4	0	0	0	0	0	0	44	164
5:30 F	PM	0	0	27	8	0	0	12	0	0	7	0	0	0	0	0	0	54	174
5:45 F	PM	0	0	19	10	0	0	12	0	0	8	0	0	0	0	0	0	49	184
Count 7	Total	0	0	242	120	0	2	170	0	0	62	0	0	0	0	0	0	596	
	All	0	0	85	40	0	0	38	0	0	21	0	0	0	0	0	0	184	
Pk Hr	HV	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
F	HV%	-	-	1%	0%	-	-	3%	-	-	0%	-	-	-	-	-	-	1%	

Interval		Heav	/y Vehi	cle Tota	als			Bicy	cles			Pedes	trians ((Crossi	ng Leg)
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	Е	W	N	S	Total
2:00 PM	2	1	0	0	3	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0
2:45 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	3	1	0	0	4	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0
4:15 PM	2	1	0	0	3	2	0	0	0	2	0	0	0	0	0
4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	10	11	0	0	21	3	0	0	0	3	0	0	0	0	0
Peak Hour	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0

Count St	ımn	nario	e - H	Dav.	, Val	nicle	9											
Count of	u111111		ar St	cav	, v ei		ar St			Harve	est Dr			n	/a			Rolling
Interval		-															15-min	Hour
Start			ound	ОТ			bound	ОТ			bound	ОТ			bound	ОТ	Total	Total
2:00 PM	UT 0	LT 0	TH 2	RT 0	UT 0	LT 0	TH 1	RT 0	UT 0	LT 0	TH 0	RT 0	UT 0	LT 0	TH 0	RT 0	3	0
					_													-
2:15 PM 2:30 PM	0	0	0	0	0	0	2 1	0	0	0	0	0	0	0	0 0	0	2 1	0
					_							0						
2:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7
3:00 PM 3:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5
	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	4	7
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
3:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	6
4:00 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	7
4:15 PM	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	3	6
4:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	7
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
5:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Count Total	0	0 0	8 1	2 0	0	0	10	0 0	0 0	0	0	0 0	0 0	0	0 0	0	21 2	
Pk Hr Heavy			1	U		U	1	U	U	U	U	U	U	U	U	U	2	
Count Si																		
Journ 3	umn	narie	s - B	ikes	ī				ı				ı				1	
	umn		S - B ar St	ikes		Popl	ar St			Harve	est Dr			n	/a		15-min	_
Interval Start	umn	Popl		ikes		•	ar St				est Dr				/ a bound		15-min Total	Hour
Interval	UT	Popl	ar St	RT RT	UT	•		RT	UT			RT	UT			RT		_
Interval		Popl Eastb	ar St			West	bound	RT 0	UT 0	North	bound	RT 0	UT 0	South	bound	RT 0		Hour
Interval Start	UT	Popl Eastb LT	ar St oound TH	RT	UT	West	bound TH			North LT	bound TH			South LT	bound TH		Total	Hour Total
Interval Start	UT 0	Popl Eastb LT 0	ar St bound TH	RT 0	UT 0	West	bound TH 0	0	0	North LT 0	bound TH 0	0	0	South LT 0	bound TH 0	0	Total 0	Hour Total
Interval Start 2:00 PM 2:15 PM	UT 0 0	Popl Eastb LT 0 0	ar St Dound TH 0	RT 0 0	UT 0 0	West	TH 0 0	0	0	North LT 0	bound TH 0	0	0 0	South LT 0	bound TH 0	0	Total 0 0	Hour Total 0 0
Interval Start 2:00 PM 2:15 PM 2:30 PM	UT 0 0 0 0	Popl Easth LT 0 0	oound TH 0 0	RT 0 0	UT 0 0	Westi LT 0 0	TH 0 0	0 0 0	0 0 0	North LT 0 0	bound TH 0 0	0 0 0	0 0 0	South LT 0 0	bound TH 0 0	0 0 0	0 0 1	Hour Total 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM	UT 0 0 0 0 0	Popl Easth LT 0 0 0	oound TH 0 0 0	RT 0 0 1 0	UT 0 0 0 0 0	Westi LT 0 0 0	Dound TH 0 0 0 0	0 0 0	0 0 0	North LT 0 0 0	bound TH 0 0 0	0 0 0	0 0 0	South LT 0 0 0	bound TH 0 0 0	0 0 0	0 0 1 0	Hour Total 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:30 PM 2:45 PM 3:00 PM	UT 0 0 0 0 0 0	Popl Eastlt LT 0 0 0 0 0	oound TH 0 0 0 0 0	RT 0 0 1 0 0 0	UT 0 0 0 0 0 0 0	West	0 0 0 0 0	0 0 0 0	0 0 0 0	North LT 0 0 0 0	bound TH 0 0 0 0	0 0 0 0	0 0 0 0	South LT 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0	0 0 0 0	0 0 1 0	Hour Total 0 0 0 1 1
2:00 PM 2:15 PM 2:30 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM	UT 0 0 0 0 0 0 0 0	Popl Eastlt LT 0 0 0 0 0 0	oound TH 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0	0 0 0 0 0	0 0 1 0 0	Hour Total 0 0 0 1 1 1
2:00 PM 2:15 PM 2:30 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM	UT 0 0 0 0 0 0 0 0 0 0 0	Popl Eastt LT 0 0 0 0 0 0	ar St bound TH 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 1 0 0 0	0 0 0 1 1 1 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 1 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastt LT 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 2	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 2	Hour Total 0 0 0 1 1 1 0 0 0 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 2 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 2 0	Hour Total 0 0 0 1 1 1 0 0 0 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westl LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 1 0 0 2 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 1 0 0 0 2 2 2 2
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hour Total 0 0 0 1 1 1 0 0 0 2 2 2 2 0
2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Popl Eastb LT 0 0 0 0 0 0 0 0 0 0 0 0 0	oound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Westi LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	North LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	South LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	bound TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	Total 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 1 1 1 0 0 0 2 2 2 2 0 0

Vehicle Classification Report Summary



Location: Poplar St S/O Breeze Basin Blvd

Count Direction: Northbound / Southbound

Date Range: 8/26/2025 to 8/26/2025

Site Code: 01

Direction							FHWA Ve	hicle Clas	sification						Total Volume
		1	2	3	4	5	6	7	8	9	10	11	12	13	Volumo
Northbou	٠d	3	584	234	5	35	5	0	0	1	1	0	0	0	868
Northboul	Iu	0.3%	67.3%	27.0%	0.6%	4.0%	0.6%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	000
Southbou	٠d	1	664	279	6	107	14	0	0	6	1	0	0	0	1,078
Southbour	iu	0.1%	61.6%	25.9%	0.6%	9.9%	1.3%	0.0%	0.0%	0.6%	0.1%	0.0%	0.0%	0.0%	1,076
Total		4	1,248	513	11	142	19	0	0	7	2	0	0	0	1,946
Total		0.2%	64.1%	26.4%	0.6%	7.3%	1.0%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	1,540

Class 1 - Motorcycles	Class 8 - Four or Fewer Axle Single-Trailer Trucks
Class 2 - Passenger Cars	Class 9 - Five-Axle Single-Trailer Trucks
Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles	Class 10 - Six or More Axle Single-Trailer Trucks
Class 4 - Buses	Class 11 - Five or fewer Axle Multi-Trailer Trucks
Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks	Class 12 - Six-Axle Multi-Trailer Trucks
Class 6 - Three-Axle Single-Unit Trucks	Class 13 - Seven or More Axle Multi-Trailer Trucks
Class 7 - Four or More Axle Single-Unit Trucks	

Vehicle Speed Report Summary



Location: Poplar St S/O Breeze Basin Blvd

Direction: Northbound / Southbound

Date Range: 8/26/2025 to 8/26/2025

Site Code: 01

	Direction								Speed	d Range	(mph)								Total Volume
		0 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 +	Volumo
	Northbound	8	129	184	364	154	25	4	0	0	0	0	0	0	0	0	0	0	868
	Vortiibouria	0.9%	14.9%	21.2%	41.9%	17.7%	2.9%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	000
	Southbound	5	105	214	399	285	58	10	1	1	0	0	0	0	0	0	0	0	1,078
•	Southbound	0.5%	9.7%	19.9%	37.0%	26.4%	5.4%	0.9%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1,070
	Total	13	234	398	763	439	83	14	1	1	0	0	0	0	0	0	0	0	1,946
	Total	0.7%	12.0%	20.5%	39.2%	22.6%	4.3%	0.7%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1,540

Total Study Percentile Spee	d Summ	ary	Total Study Spee	d Statistics	
Northbound			Northbou	ınd	
50th Percentile (Median)	21.8	mph	Mean (Average) Speed	21.1	mph
85th Percentile	26.2	mph	10 mph Pace	17.7 - 27.7	mph
95th Percentile	29.2	mph	Percent in Pace	65.0	%
Southbound			Southbou	ınd	
50th Percentile (Median)	22.9	mph	Mean (Average) Speed	22.6	mph
85th Percentile	27.9	mph	10 mph Pace	18.0 - 28.0	mph
95th Percentile	30.6	mph	Percent in Pace	64.8	%



Location: Poplar St S/O Breeze Basin Blvd Date Range: 8/26/2025 - 9/1/2025 Site Code: 01

Time		Tuesda 3/26/202			/ednes 8/27/20			Thursda 8/28/202		;	Friday 8/29/202			Saturda 3/30/202			Sunday 3/31/202			Monda 9/1/202		Mid-V	Veek Av	verage
	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total
12:00 AM	0	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2	2
1:00 AM	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0
2:00 AM	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
3:00 AM	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0	2
4:00 AM	3	4	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	7
5:00 AM	15	11	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	11	26
6:00 AM	32	12	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	12	44
7:00 AM	146	131	277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	131	277
8:00 AM	70	52	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	52	122
9:00 AM	47	40	87	_	-	_	-	-	_	-	_	-	-	-	_	_	-	-	-	_	_	47	40	87
10:00 AM	39	31	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	31	70
11:00 AM	47	62	109	_	_	_	-	_	_	-	_	-	-	_	_	_	_	_	-	_	_	47	62	109
12:00 PM	55	62	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	62	117
1:00 PM	34	56	90	_	_	-	-	_	_	_	_	_	-	_	_	_	_	_	-	_	_	34	56	90
2:00 PM	50	48	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	48	98
3:00 PM	86	135	221	_	_	-	-	_	_	-	_	_	-	_	_	_	_	_	-	_	_	86	135	221
4:00 PM	75	107	182	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	_	-	75	107	182
5:00 PM	68	121	189	_	_	-	-	_	_	-	_	_	-	_	_	_	_	_	-	_	_	68	121	189
6:00 PM	53	80	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	80	133
7:00 PM	26	65	91	_	_	-	-	_	_	-	_	_	-	_	_	_	_	_	-	_	_	26	65	91
8:00 PM	11	38	49	_	-	-	_	-	_	-	_	_	_	-	-	-	-	-	_	-	_	11	38	49
9:00 PM	4	11	15	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4	11	15
10:00 PM	4	7	11	_		_	_	_	_		_	_	_		_	_	_	_	_	_	_	4	7	11
11:00 PM	0	2	2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0	2	2
Total	868	1,078	1,946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		868	1,078	1,946
Percent	45%	55%		-	-		-	-		-	-		-	-		-	-		-	-		45%	55%	
AM Peak	07:00	07:00	07:00	-		-			-	-			-			-		-	-		-	07:00	07:00	07:00
Vol. PM Peak	146 15:00	131 15:00	277 15:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146 15:00	131 15:00	277 15:00
Рм Реак Vol.	86	135	221																			86	135	221

^{1.} Mid-week average includes data between Tuesday and Thursday.

Intersection Capacity Worksheets: Year 2025 Existing

Intersection												
Int Delay, s/veh	5.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	44	499	13	42	121	1	11	12	87	8	6	11
Future Vol, veh/h	44	499	13	42	121	1	11	12	87	8	6	11
Conflicting Peds, #/hr	0	0	4	4	0	0	1	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	_	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	77	77	77	59	59	59	57	57	57
Heavy Vehicles, %	6	6	6	12	12	12	7	7	7	1	1	1
Mvmt Flow	53	601	16	55	157	1	19	20	147	14	11	19
Major/Minor	Major1			Major2			Minor1			Minor2		
	158	0			0		992	987	613	984	994	159
Conflicting Flow All		0	0	621		0	719	719	013	267	267	
Stage 1 Stage 2	-	-	-	-	-	-	272	268	-	717	727	-
Critical Hdwy	4.16	-	_	4.22	-	-	7.17	6.57	6.27	7.11	6.51	6.21
Critical Hdwy Stg 1	4.10	_	-	4.22	-	-	6.17	5.57	0.21	6.11	5.51	0.21
Critical Hdwy Stg 2	-	-	-	-	-	-	6.17	5.57	-	6.11	5.51	-
Follow-up Hdwy	2.254	_	_	2.308	_	_	3.563	4.063	3.363	3.509	4.009	3.309
Pot Cap-1 Maneuver	1397		<u>-</u>	913			220	243	483	228	246	889
Stage 1	1331	_	_	313	_	_	412	425	403	741	690	- 009
Stage 2	-	-		-		_	723	679	-	422	431	
Platoon blocked, %		_	_		_	_	123	013	_	722	1 01	
Mov Cap-1 Maneuver	1397	_	_	910	_	_	180	213	482	128	216	888
Mov Cap-1 Maneuver	1001	_	_	-	_	_	180	213	402	128	216	-
Stage 1	_	_	-	_		_	386	399	_	692	645	_
Stage 2	_	_	_	_	_	_	649	634	_	262	404	_
Olaye Z				_			073	004	_	202	707	
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0.61			2.36			24.3			23.05		
HCM LOS							С			С		
Minor Lane/Major Mvn	nt 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		369	142			460	-	-	243			
HCM Lane V/C Ratio		0.505		_	_	0.06	_	_	0.18			
HCM Ctrl Dly (s/v)		24.3	7.7	0	-	9.2	0	-	23			
HCM Lane LOS		C	A	A	-	A	A	_	C			
HCM 95th %tile Q(veh	1)	2.7	0.1	-	-	0.2	-	-	0.6			
	,								J.J			

Intersection												
Int Delay, s/veh	3.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7		4		*	1			4	
Traffic Vol, veh/h	11	2	52	1	2	3	58	106	4	4	76	16
Future Vol, veh/h	11	2	52	1	2	3	58	106	4	4	76	16
Conflicting Peds, #/hr	0	0	6	6	0	0	13	0	0	0	0	13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	<u>-</u>	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	57	57	57	50	50	50	59	59	59	60	60	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mvmt Flow	19	4	91	2	4	6	98	180	7	7	127	27
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	545	549	159	527	559	183	166	0	0	186	0	0
Stage 1	166	166	-	380	380	-	-	-	-	-	-	-
Stage 2	378	383	-	148	180	-	-	-	-	-	-	-
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.19	5.59	-	6.27	5.67	-	_	-	-	-	-	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	439	434	868	439	417	822	1412	-	-	1376	-	-
Stage 1	819	748	-	613	589	-	-	-	-	-	-	-
Stage 2	629	600	-	820	723	-	_	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	394	396	853	357	381	822	1394	-	-	1376	-	-
Mov Cap-2 Maneuver	394	396	-	357	381	-	-	-	-	-	-	-
Stage 1	805	734	-	570	547	-	-	-	-	-	-	-
Stage 2	577	558	-	721	710	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	10.72			12.19			2.69			0.32		
HCM LOS	В			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1394	-	-	394	853	513	72	_	-		
HCM Lane V/C Ratio		0.071	_				0.023		_	_		
HCM Ctrl Dly (s/v)		7.8	-	-	14.7	9.7	12.2	7.6	0	-		
HCM Lane LOS		A	_	_	В	A	В	A	A	_		
HCM 95th %tile Q(veh)	0.2	-	-	0.2	0.4	0.1	0	-	-		
	,											

Intersection						
Int Delay, s/veh	5.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	CDL	EDK 7	NDL	ND I	<u>361</u>	אמט
Traffic Vol, veh/h	1 67	1 24	41	H 101	27	102
Future Vol, veh/h	67	24	41	101	27	102
		0	2	0	0	2
Conflicting Peds, #/hr						
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storag		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	37	37	70	70	59	59
Heavy Vehicles, %	1	1	3	3	2	2
Mvmt Flow	181	65	59	144	46	173
Major/Minor	Minor2		Major1		Major2	
						^
Conflicting Flow All	396	134	221	0	-	0
Stage 1	134	-	_	-	-	-
Stage 2	261	-	- 4.40	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309	2.227	-	-	-
Pot Cap-1 Maneuver	611	917	1343	-	-	-
Stage 1	895	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	580	916	1340	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	850	_	_	_	_	-
Stage 2	783	_	_	_	_	_
	, 55					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	12.74		2.25		0	
HCM LOS	В					
Minor Lanc/Major Mur	nt	NIDI	NDT	EBLn1 l	EDI 52	CDT
Minor Lane/Major Mvr	III	NBL				SBT
Capacity (veh/h)		520	-		916	-
HCM Lane V/C Ratio		0.044		0.312		-
HCM Ctrl Dly (s/v)		7.8	0	14	9.2	-
HCM Lane LOS		Α	Α	В	Α	-
HCM 95th %tile Q(veh	۱)	0.1	-	1.3	0.2	-

Intersection						
Int Delay, s/veh	2.1					
					057	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			4	f)	
Traffic Vol, veh/h	44	1	0	98	40	11
Future Vol, veh/h	44	1	0	98	40	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	59	1	0	127	78	22
			_			
	Minor2		Major1		/lajor2	
Conflicting Flow All	216	89	100	0	-	0
Stage 1	89	-	-	-	-	-
Stage 2	127	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	-	-	-
Pot Cap-1 Maneuver	774	972	1468	-	-	-
Stage 1	937	_	_	_	-	_
Stage 2	901	_	_	_	_	_
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	774	972	1468	_	_	_
Mov Cap-1 Maneuver	774	312	1700	_	_	_
Stage 1	937	_	-	_	<u>-</u>	_
	901	_	_	_	-	_
Stage 2	901	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.02		0		0	
HCM LOS	В					
J						
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1468	-		-	-
HCM Lane V/C Ratio		-		0.077	-	-
HCM Ctrl Dly (s/v)		0	-	10	-	-
HCM Lane LOS		Α	-	В	-	-
HCM 95th %tile Q(veh	1)	0	-	0.3	-	-
	,					

Intersection Int Delay, s/veh 0.2 Movement EBL EBT WBT WBR SBL SBR Lane Configurations ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ <
Movement EBL EBT WBT WBR SBL SBR Lane Configurations 4 1 1 1 0 Traffic Vol, veh/h 0 44 10 1 1 0 Future Vol, veh/h 0 44 10 1 1 0 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Stop Stop RT Channelized - None - None - None Storage Length - - - - 0 - 0 - Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Lane Configurations Image: Configuration of the proof of
Traffic Vol, veh/h 0 44 10 1 1 0 Future Vol, veh/h 0 44 10 1 1 0 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Stop Stop RT Channelized - None - None - None Storage Length - - - - 0 - 0 - Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Future Vol, veh/h 0 44 10 1 1 0 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - None - None Storage Length - - - - 0 - 0 - Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - None - None Storage Length - - - - 0 - 0 - Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Sign ControlFreeFreeFreeFreeStopStopRT Channelized-None-None-NoneStorage Length0-Veh in Median Storage, #-00-0-Grade, %-00-0-
RT Channelized - None - None - None Storage Length 0 - - 0 - Veh in Median Storage, # - 0 0 - 0 - 0 - 0 - 0 - Grade, % - 0 0 - 0 - 0 - 0 -
Storage Length - - - 0 - Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Veh in Median Storage, # - 0 0 - 0 - Grade, % - 0 0 - 0 -
Grade, % - 0 0 - 0 -
Heavy Vehicles, % 1 1 1 1 0 0
Mvmt Flow 0 59 13 1 1 0
Major/Minor Major1 Major2 Minor2
Conflicting Flow All 15 0 - 0 73 14
Stage 1 14 -
Stage 2 59 -
Critical Hdwy 4.11 6.4 6.2
Critical Hdwy Stg 1 5.4 -
Critical Hdwy Stg 2 5.4 -
Follow-up Hdwy 2.209 3.5 3.3
Pot Cap-1 Maneuver 1610 936 1072
Stage 1 1014 -
Stage 2 969 -
Platoon blocked, %
Mov Cap-1 Maneuver 1610 936 1072
Mov Cap-2 Maneuver 936 -
Stage 1 1014 -
Stage 2 969 -
5 kg 5 2
Approach EB WB SB
Approach EB WB SB
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1610 - - 936
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1610 - - - 936 HCM Lane V/C Ratio - - - 0.001
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1610 - - - 936 HCM Lane V/C Ratio - - - 0.001 HCM Ctrl Dly (s/v) 0 - - 8.9
Approach EB WB SB HCM Ctrl Dly, s/v 0 0 8.85 HCM LOS A Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1 Capacity (veh/h) 1610 - - - 936 HCM Lane V/C Ratio - - - 0.001

Intersection												
Int Delay, s/veh	2.9											
		EDT	EDD	MOL	MOT	14/00	NDI	NDT	NDD	ODI	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			Ф			4			4	
Traffic Vol, veh/h	18	151	15	79	499	4	7	7	40	4	11	29
Future Vol, veh/h	18	151	15	79	499	4	7	7	40	4	11	29
Conflicting Peds, #/hr	2	0	3	3	0	2	5	0	0	0	0	5
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	85	85	85	75	75	75	85	85	85
Heavy Vehicles, %	6	6	6	4	4	4	7	7	7	5	5	5
Mvmt Flow	20	168	17	93	587	5	9	9	53	5	13	34
Major/Minor I	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	594	0	0	187	0	0	1004	999	179	990	1005	596
Stage 1	554	-	U	107	-	U	219	219	1/9	777	777	230
Stage 1	-	-	-	•	_	-	784	780	-	212	227	-
Critical Hdwy	4.16	-	-	4.14	-	-	7.17	6.57	6.27	7.15	6.55	6.25
Critical Hdwy Stg 1	4.10	-	-	4.14	_	-	6.17	5.57	0.21	6.15	5.55	0.25
	-	-	-	_	_	_	6.17	5.57	-	6.15	5.55	-
Critical Hdwy Stg 2				2.236	=	_	3.563	4.063	3.363	3.545	4.045	3.345
Follow-up Hdwy	2.254 963	-	-		-	-	216	239	851	223	239	
Pot Cap-1 Maneuver		-	-	1375	-	-					403	498
Stage 1	-	-	-	-	-	-	772	713	-	385		-
Stage 2	-	-	-	-	-	-	379	399	-	783	710	-
Platoon blocked, %	004	-	-	1074	-	-	100	000	0.40	170	000	101
Mov Cap-1 Maneuver	961	-	-	1371	-	-	166	209	849	176	209	494
Mov Cap-2 Maneuver	-	-	-	-	-	-	166	209	-	176	209	-
Stage 1	-	-	-	-	-	-	752	694	-	346	361	-
Stage 2	-	-	-	-	-	-	304	358	-	707	692	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0.86			1.06			14.8			18.02		
HCM LOS							В			С		
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SRI n1			
Capacity (veh/h)		439	173		- LDIN	244	-	-	328			
HCM Lane V/C Ratio			0.021	-		0.068			0.158			
				-			-					
HCM Lang LOS		14.8	8.8	0	-	7.8	0	-	18			
HCM Ceth % tile O(voh)	١	В	Α	Α	-	A	Α	-	C			
HCM 95th %tile Q(veh))	0.6	0.1	-	-	0.2	-	-	0.6			

Intersection												
Int Delay, s/veh	4.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7		4		ች	1→			4	
Traffic Vol, veh/h	7	9	57	2	2	6	50	42	6	11	79	15
Future Vol, veh/h	7	9	57	2	2	6	50	42	6	11	79	15
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	<u>-</u>	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	69	60	60	60	59	59	59	83	83	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	10	13	83	3	3	10	85	71	10	13	95	18
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	374	383	111	380	387	76	114	0	0	81	0	0
Stage 1	132	132	_	246	246	-	-	-	-	-	_	-
Stage 2	242	251	-	134	141	-	-	-	-	_	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	574	543	929	580	549	988	1456	-	-	1504	-	-
Stage 1	860	778	-	760	705	-	-	-	-	-	-	-
Stage 2	750	690	-	872	782	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	526	506	922	478	512	988	1455	-	-	1504	-	-
Mov Cap-2 Maneuver	526	506	-	478	512	-	-	-	-	-	-	-
Stage 1	851	770	-	716	664	-	_	-	-	-	-	-
Stage 2	696	650	-	768	774	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	9.95			10.22			3.89			0.78		
HCM LOS	Α			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1455	-	-	515	922	706	183	-	-		
HCM Lane V/C Ratio		0.058	-	-	0.045				-	-		
HCM Ctrl Dly (s/v)		7.6	-	-	12.3	9.3	10.2	7.4	0	-		
HCM Lane LOS		Α	-	-	В	Α	В	Α	A	-		
HCM 95th %tile Q(veh)	0.2	-	-	0.1	0.3	0.1	0	-	-		
	,							_				

Intersection						
Int Delay, s/veh	1.6					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	\	7	^	4	^}	•
Traffic Vol, veh/h	21	4	0	77	135	3
Future Vol, veh/h	21	4	0	77	135	3
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	82	69	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	45	9	0	94	196	4
		_				
		_		_		
	Minor2		Major1		Major2	
Conflicting Flow All	292	198	200	0	-	0
Stage 1	198	-	-	-	-	-
Stage 2	94	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.17	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	_	_	_	-
Follow-up Hdwy	3.509	3.309	2.263	-	_	_
Pot Cap-1 Maneuver	701	846	1343	_	_	-
Stage 1	838	-	-	_	_	_
Stage 2	932	_	_	_	_	_
Platoon blocked, %	302			_	_	_
Mov Cap-1 Maneuver	701	846	1343	-	_	
	701		1343	_	_	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	838	-	-	-	-	-
Stage 2	932	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.29		0		0	
HCM LOS	В		U		U	
I IOIVI LOO	U					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1 E	EBLn2	SBT
Capacity (veh/h)		1343	-		846	-
HCM Lane V/C Ratio		-	_	0.064	0.01	-
HCM Ctrl Dly (s/v)		0	-		9.3	-
HCM Lane LOS		A	_	В	Α.	_
HCM 95th %tile Q(veh	1)	0	_		0	_
HOW SOUT MILE Q(VEI	1)	U	_	U.Z	U	_

Interception						
Intersection	1.2					
Int Delay, s/veh						
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			र्स	- 1>	
Traffic Vol, veh/h	21	0	0	56	99	40
Future Vol, veh/h	21	0	0	56	99	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mymt Flow	32	0	0	71	111	45
WWW.CT IOW	UL.		J			10
Major/Minor N	Minor2		Major1	Λ	/lajor2	
Conflicting Flow All	205	134	156	0	-	0
Stage 1	134	-	-	-	-	-
Stage 2	71	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	_	-
Critical Hdwy Stg 2	5.41	-	_	-	_	-
Follow-up Hdwy		3.309	2.227	_	_	_
Pot Cap-1 Maneuver	786	918	1418	-	-	-
Stage 1	895	-	-	_	_	_
Stage 2	954	_	_	_	_	_
Platoon blocked, %	001			_	_	_
Mov Cap-1 Maneuver	786	918	1418	_	_	_
Mov Cap-1 Maneuver	786	310	1710	_	_	_
Stage 1	895	_	-	_	<u>-</u>	-
	954	_	_	_	-	_
Stage 2	904	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	9.77		0		0	
	3.11					
HCM LOS						
HCM LOS	Α					
	A	ND	NET	EDL 4	007	000
Minor Lane/Major Mvm	A	NBL	NBT	EBLn1	SBT	SBR
Minor Lane/Major Mvm Capacity (veh/h)	A	NBL 1418	NBT	786	SBT -	SBR -
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A	1418 -		786 0.04		
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	A	1418 - 0	-	786 0.04 9.8	-	-
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A ut	1418 -	-	786 0.04	-	-

Intersection						
Int Delay, s/veh	0.1					
• ·			14/5=	14/5-5	05:	055
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	_	4	₽		Y	
Traffic Vol, veh/h	0	20	39	1	1	0
Future Vol, veh/h	0	20	39	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	29	56	1	1	0
Maiau/Minau	NA=:==4		4-:0		1:O	
	Major1		//ajor2		/linor2	
Conflicting Flow All	57	0	-	0	85	56
Stage 1	-	-	-	-	56	-
Stage 2	-	-	-	-	29	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1554	-	-	-	921	1016
Stage 1	-	-	-	-	971	-
Stage 2	-	-	-	-	999	-
Platoon blocked, %		_	-	-		
Mov Cap-1 Maneuver	1554	-	_	_	921	1016
Mov Cap-2 Maneuver	-	_	_	_	921	-
Stage 1	_	_	_	_	971	_
Stage 2	<u>-</u>	<u>-</u>	_	_	999	<u>-</u>
Olago Z					555	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		8.91	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SRI n1
	IL .					
Capacity (veh/h)		1554	-	-	-	921
HCM Ctrl Dly (a/y)		-	-	-		0.002
HCM Ctrl Dly (s/v)		0	-	-	-	8.9
HCM Lane LOS		A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

Intersection Capacity Worksheets: Year 2028 Background (without Moonlit Meadows)

Intersection												
Int Delay, s/veh	6.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	45	535	13	43	135	1	11	12	90	8	6	11
Future Vol, veh/h	45	535	13	43	135	1	11	12	90	8	6	11
Conflicting Peds, #/hr	0	0	4	4	0	0	1	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	77	77	77	59	59	59	57	57	57
Heavy Vehicles, %	6	6	6	12	12	12	7	7	7	1	1	1
Mvmt Flow	54	645	16	56	175	1	19	20	153	14	11	19
Major/Minor N	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	177	0	0	664	0	0	1058	1053	656	1051	1060	177
Stage 1		-	-	-	-	-	765	765	-	288	288	-
Stage 2	_	-	-	-	-	-	293	288	-	763	773	_
Critical Hdwy	4.16	_	_	4.22	_	-	7.17	6.57	6.27	7.11	6.51	6.21
Critical Hdwy Stg 1	_	_	-	-	-	-	6.17	5.57	-	6.11	5.51	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.17	5.57	-	6.11	5.51	-
Follow-up Hdwy	2.254	-	-	2.308	-	-	3.563	4.063	3.363	3.509	4.009	3.309
Pot Cap-1 Maneuver	1376	-	-	879	-	-	198	222	456	206	225	869
Stage 1	-	-	-	-	-	-	388	405	-	722	676	-
Stage 2	-	-	-	-	-	-	704	664	-	398	410	_
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1376	-	-	876	-	-	160	192	455	108	195	868
Mov Cap-2 Maneuver	-	-	-	-	-	-	160	192	-	108	195	-
Stage 1	-	-	-	-	-	-	363	378	-	671	628	-
Stage 2	-	-	-	-	-	-	629	617	-	235	383	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0.59			2.26			27.92			26.25		
HCM LOS							D			D		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBL n1			
Capacity (veh/h)		343	136			432	-		213			
HCM Lane V/C Ratio		0.558		_	_	0.064	_	_	0.206			
HCM Ctrl Dly (s/v)		27.9	7.7	0	-	9.4	0	-	26.3			
HCM Lane LOS		D	A	A	_	A	A	_	D			
HCM 95th %tile Q(veh)		3.2	0.1	-	_	0.2	-	-	0.8			

Intersection												
Int Delay, s/veh	4											
		EDT	EDD	WDI	WDT	WED	NDI	NDT	NDD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	4.4	र्न	7	4	4	^	<u>ነ</u>	^	4	4	4	40
Traffic Vol, veh/h	11	4	54	1	3	3	60	109	4	4	78	16
Future Vol, veh/h	11	4	54	1	3	3	60	109	4	4	78	16
Conflicting Peds, #/hr	0	0	6	6	0	0	_ 13	0	0	0	0	_ 13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	57	57	57	50	50	50	59	59	59	60	60	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mvmt Flow	19	7	95	2	6	6	102	185	7	7	130	27
Major/Minor N	Minor2			Minor1		- 1	Major1		1	Major2		
Conflicting Flow All	561	565	162	544	575	188	170	0	0	192	0	0
Stage 1	170	170	-	392	392	-	-	-	-	-	-	-
Stage 2	391	395	-	153	183	-	-	-	-	-	-	-
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.19	5.59	_	6.27	5.67	-	-	-	-	_	-	_
Critical Hdwy Stg 2	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	428	425	864	427	409	817	1408	-	-	1370	-	-
Stage 1	816	745	-	604	581	-	-	-	-	-	-	-
Stage 2	619	593	_	815	721	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	381	387	849	342	372	817	1390	-	-	1370	-	-
Mov Cap-2 Maneuver	381	387	-	342	372	-	-	-	-	-	-	-
Stage 1	802	732	-	560	539	-	-	-	-	-	-	-
Stage 2	564	549	-	709	708	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	10.93			12.76			2.7			0.31		
HCM LOS	10.93 B			12.70 B			L .1			0.01		
TIOW LOO	U			U								
Minor Long/Major Maria	.+	NDI	NDT	NDD	EDI 51	EDI 20V	\/DI ∽1	CDI	CDT	SBR		
Minor Lane/Major Mvm	IL	NBL	NBT			EBLn2V		SBL	SBT	SBK		
Capacity (veh/h)		1390	-	-		849	478	71	-	-		
HCM Ctrl Div (a/v)		0.073	-			0.112			-	-		
HCM Ctrl Dly (s/v)		7.8	-	-		9.8	12.8	7.6	0	-		
HCM Lane LOS	\	A	-	-	С	A	В	A	Α	-		
HCM 95th %tile Q(veh))	0.2	-	-	0.2	0.4	0.1	0	-	-		

Internation						
Intersection						
Int Delay, s/veh	5.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7		4	î,	
Traffic Vol, veh/h	67	24	41	104	28	102
Future Vol, veh/h	67	24	41	104	28	102
Conflicting Peds, #/hr	0	0	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	_	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	37	37	70	70	59	59
Heavy Vehicles, %	1	1	3	3	2	2
Mvmt Flow	181	65	59	149	47	173
				110		110
	Minor2		Major1		Major2	
Conflicting Flow All	402	136	222	0	-	0
Stage 1	136	-	-	-	-	-
Stage 2	266	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.227	-	-	-
Pot Cap-1 Maneuver	606	915	1341	-	-	-
Stage 1	893	-	-	-	-	-
Stage 2	781	_	_	_	-	-
Platoon blocked, %				-	_	_
Mov Cap-1 Maneuver	575	914	1338	_	_	_
Mov Cap-2 Maneuver		-	-	<u>-</u>	_	_
Stage 1	849	_	_	_		_
Stage 2	780	_	_		_	_
Stage 2	700	-	-	-	_	
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	12.82		2.21		0	
HCM LOS	В					
Minan Lana /Maian Mon	4	NDI	NDT	EDL 4	EDI 0	CDT
Minor Lane/Major Mvr	nt	NBL		EBLn1		SBT
Capacity (veh/h)		509	-		914	-
HCM Lane V/C Ratio		0.044		0.315		-
HCM Ctrl Dly (s/v)		7.8	0	14.1	9.2	-
HCM Lane LOS		Α	Α	В	Α	-
HCM 95th %tile Q(veh	1)	0.1	-	1.3	0.2	-

Intersection						
Int Delay, s/veh	2.1					
• •					057	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			<u>4</u>	- 1}	
Traffic Vol, veh/h	45	1	0	101	41	11
Future Vol, veh/h	45	1	0	101	41	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	60	1	0	131	80	22
	Minor2		Major1		//ajor2	
Conflicting Flow All	222	91	102	0	-	0
Stage 1	91	-	-	-	-	-
Stage 2	131	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	-	-	-
Pot Cap-1 Maneuver	768	969	1465	-	-	-
Stage 1	935	-	-	-	-	-
Stage 2	897	-	_	-	-	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	768	969	1465	-	-	-
Mov Cap-2 Maneuver	768	-	-	_	_	_
Stage 1	935	_	_	_	_	_
Stage 2	897	_	_	_	_	_
Olaye Z	031	<u>-</u>		_	<u>-</u>	_
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.07		0		0	
HCM LOS	В					
Minar Lana/Maiar Musa	-4	NDI	NDT	EDL1	CDT	CDD
Minor Lane/Major Mvm	It	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1465	-	–	-	-
HCM Lane V/C Ratio		-		0.079	-	-
HCM Ctrl Dly (s/v)		0	-		-	-
HCM Lane LOS		Α	-	B 0.3	-	-
HCM 95th %tile Q(veh		0				

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1	115.1	W	OBIT
Traffic Vol, veh/h	0	45	10	1	1	0
Future Vol, veh/h	0	45	10	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized						
	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	60	13	1	1	0
Major/Minor N	Major1	N	Major2	N	Minor2	
						1.1
Conflicting Flow All	15	0	-	0	74	14
Stage 1	-	-	-	-	14	-
Stage 2	-	-	-	-	60	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1610	-	-	-	935	1072
Stage 1	-	-	-	-	1014	-
Stage 2	-	-	-	-	968	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1610	_	_	_	935	1072
Mov Cap-2 Maneuver	-	_	_	_	935	-
Stage 1	_	_	_	_	1014	_
Stage 2	<u>-</u>	<u>-</u>	<u>-</u>	_	968	_
Olago Z					500	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		8.86	
HCM LOS					Α	
N.C. 1 (0.4.1. N.C.		ED:		MART	14/55	OD! 4
Minor Lane/Major Mvm	ıt	EBL	EBT	WBT	WBR:	
Capacity (veh/h)		1610	-	-	-	935
HCM Lane V/C Ratio		-	-	-	-	0.001
HCM Ctrl Dly (s/v)		0	-	-	-	8.9
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0

Int Delay, s/veh	Intersection												
Lane Configurations		2.9											
Lane Configurations	Movement	FRI	FRT	FRR	WRI	WRT	WRR	NRI	NRT	NRR	SRI	SRT	SRR
Traffic Vol, veh/h		LDL		LDIN	VVDL		VVDIX	INDL		NUN	ODL		ODIN
Future Vol, veh/h Conflicting Peds, #hhr 2 0 3 3 0 2 5 0 0 0 0 0 5 Sign Control Free Free Free Free Free Free Free Fre		19		15	81		1	7		<i>1</i> 1	1		30
Conflicting Peds, #hr 2	· ·						•		-		-		
Sign Control Free Free	· · · · · · · · · · · · · · · · · · ·												
RT Channelized													
Storage Length								•					
Veh in Median Storage, # - 0	Storage Length	-	_	-	-	-	-	_	_		-	-	-
Grade, % - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - 5<		# -	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, % 6 6 6 6 4 4 4 7 7 7 5 5 5 5 Mvmt Flow 21 193 17 95 633 5 9 9 55 5 13 35			0	-	-	0	-	-	0	-	-	0	-
Mymt Flow 21 193 17 95 633 5 9 9 55 5 13 35 Major/Minor Major1 Major2 Minor1 Minor2 Conflicting Flow All 640 0 0 213 0 0 1082 1077 205 1068 1083 642 Stage 1 - - - - 247 247 - 828 828 - Stage 2 - - - - - 7.17 6.57 6.27 7.15 6.55 6.25 Critical Hdwy Stg 1 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - 6.17 5	Peak Hour Factor	90	90	90	85	85	85	75	75	75	85	85	85
Major/Minor Major1 Major2 Minor1 Minor2 Conflicting Flow All 640 0 0 213 0 0 1082 1077 205 1068 1083 642 Stage 1 - - - - - 247 247 - 828 828 - Stage 2 - - - - - 835 830 - 240 255 - Critical Hdwy Stg 1 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Follow-up Hdwy 2.254 - - 2.236 - 3.563 4.063 3.361 382 - Stage 1	Heavy Vehicles, %	6	6	6	4	4	4	7	7	7	5		5
Conflicting Flow All	Mvmt Flow	21	193	17	95	633	5	9	9	55	5	13	35
Conflicting Flow All													
Conflicting Flow All	Major/Minor N	1ajor1			Major2			Minor1			Minor2		
Stage 1 - - - - 247 247 - 828 828 - Stage 2 - - - - - 835 830 - 240 255 - Critical Hdwy 4.16 - 4.14 - - 7.17 6.57 6.27 7.15 6.55 6.25 Critical Hdwy Stg 1 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - 2.236 - - 6.15 5.55 - Follow-up Hdwy 2.254 - 2.236 - 3.563 3.361 3.361 382 - </td <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>1077</td> <td></td> <td></td> <td>1083</td> <td>642</td>			0			0			1077			1083	642
Stage 2 - - - - - 835 830 - 240 255 - Critical Hdwy 4.16 - 4.14 - - 7.17 6.57 6.27 7.15 6.55 6.25 Critical Hdwy Stg 1 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Follow-up Hdwy 2.254 - - 2.236 - - 3.563 3.363 3.545 4.045 3.345 Pot Cap-1 Maneuver 926 - 1345 - - 191 214 823 197 214 469 Stage 1 - - - - - - - 757 691 - Platoon blocked, % - - - - - 142 185<		-	-	-	-	-	-						
Critical Hdwy Stg 1 - - - - 6.17 5.57 - 6.15 5.55 - Critical Hdwy Stg 2 - - - - - 6.17 5.57 - 6.15 5.55 - Follow-up Hdwy 2.254 - - 2.236 - - 3.563 4.063 3.363 3.545 4.045 3.345 Pot Cap-1 Maneuver 926 - - 1345 - - 191 214 823 197 214 469 Stage 1 - - - - - - 355 378 - 757 691 - Platoon blocked, % - - - - - - - - - 757 691 - - - - - - 152 185 465 - - - - - - - - -		-	-	-	-	-	-	835	830	-	240	255	-
Critical Hdwy Stg 2 - - - - 6.17 5.57 - 6.15 5.55 - Follow-up Hdwy 2.254 - - 2.236 - - 3.563 4.063 3.363 3.545 4.045 3.345 Pot Cap-1 Maneuver 926 - 1345 - 191 214 823 197 214 469 Stage 1 - - - - 746 693 - 361 382 - Stage 2 - - - - - 355 378 - 757 691 - Platoon blocked, % - - - - - - - - - 757 691 - Mov Cap-1 Maneuver 924 - 1342 - - 142 185 821 152 185 - Stage 1 - - - - 725 6		4.16	-	-	4.14	-	-			6.27			6.25
Follow-up Hdwy 2.254 - 2.236 - 3.563 4.063 3.363 3.545 4.045 3.345 Pot Cap-1 Maneuver 926 - 1345 - 191 214 823 197 214 469 Stage 1 746 693 - 361 382 - Stage 2 746 693 - 361 382 - Stage 2 355 378 - 757 691 - Platoon blocked, %	Critical Hdwy Stg 1	-	-	-	-	-	-			-			-
Pot Cap-1 Maneuver 926			-	-	-	-	-			-			-
Stage 1 - - - - 746 693 - 361 382 - Stage 2 - - - - 355 378 - 757 691 - Platoon blocked, % -			-	-		-	-						
Stage 2 - - - - 355 378 - 757 691 - Platoon blocked, % - <		926	-	-	1345	-	-			823			469
Platoon blocked, % -		-	-	-	-	-	-			-			-
Mov Cap-1 Maneuver 924 - - 1342 - - 142 185 821 152 185 465 Mov Cap-2 Maneuver - - - - - - 142 185 - 152 185 - Stage 1 - - - - - 725 673 - 321 339 - Stage 2 - - - - - 279 336 - 678 671 - Approach EB WB NB SB HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 -	•	-		-	-			355	378	-	757	691	-
Mov Cap-2 Maneuver - - - - 142 185 - 152 185 - Stage 1 - - - - - 725 673 - 321 339 - Stage 2 - - - - - 279 336 - 678 671 - Approach EB WB NB NB SB HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C		004		-	40.40			440	40=	001	4=0	405	10=
Stage 1 - - - - 725 673 - 321 339 - Stage 2 - - - - - 279 336 - 678 671 - Approach EB WB NB NB SB HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM LOS C C C Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A - C				-	1342								
Stage 2 - - - - - - - 678 671 - Approach EB WB NB SB HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM LOS C C C Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A - C			-	-	-	-							
Approach EB WB NB SB HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM LOS C C C Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C		-	-	_	-	-	_						
HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM LOS C C Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 234 300 HCM Lane V/C Ratio 0.183 0.023 0.071 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C	Stage 2	-	-	-	-	-	-	2/9	336	-	6/8	0/1	-
HCM Ctrl Dly, s/v 0.82 1.03 15.95 19.58 HCM LOS C C Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 234 300 HCM Lane V/C Ratio 0.183 0.023 0.071 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C													
Minor Lane/Major Mvmt NBLn1 EBL EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C													
Minor Lane/Major Mvmt NBLn1 EBL EBR WBL WBT WBR SBLn1 Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C		0.82			1.03								
Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C	HCM LOS							С			С		
Capacity (veh/h) 402 162 - - 234 - - 300 HCM Lane V/C Ratio 0.183 0.023 - - 0.071 - - 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C													
HCM Lane V/C Ratio 0.183 0.023 0.071 0.177 HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C					EBT	EBR		WBT	WBR :				
HCM Ctrl Dly (s/v) 16 9 0 - 7.9 0 - 19.6 HCM Lane LOS C A A - A A - C					-			-					
HCM Lane LOS C A A - A A - C						-			-				
						-			-				
11014 0 0 11 11 11 11 0 1 1 1 1 1 1 1 1									-				
HCM 95th %tile Q(ven) 0.7 0.1 0.2 0.6	HCM 95th %tile Q(veh)		0.7	0.1	-	-	0.2	-	-	0.6			

Intersection												
Int Delay, s/veh	4.9											
• •		CDT		WDI	WDT	WDD	NDI	NDT	NDD	ODI	ODT	ODD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	_	र्		•	4	•	\	1	•	4.4	4	4.5
Traffic Vol, veh/h	7	11	59	2	4	6	52	43	6	11	81	15
Future Vol, veh/h	7	11	59	2	4	6	52	43	6	11	81	15
Conflicting Peds, #/hr	0	0	6	6	0	0	_ 1	_ 0	_ 0	_ 0	_ 0	_ 1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	69	60	60	60	59	59	59	83	83	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	10	16	86	3	7	10	88	73	10	13	98	18
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	387	393	114	392	397	78	117	0	0	83	0	0
Stage 1	134	134	- 114	254	254	70	- 117	-	-	-	-	-
Stage 2	252	259	_	138	143	_		_				_
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	_		4.14	_	
Critical Hdwy Stg 1	6.17	5.57	0.21	6.11	5.51	0.21	T. 13			7.17		
Critical Hdwy Stg 2	6.17	5.57	_	6.11	5.51	_		_		-	_	
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	_		2.236	_	
Pot Cap-1 Maneuver	563	535	926	569	542	986	1453	-	_	1501	_	_
Stage 1	857	776	920	752	699	300	1400	_	-	1301	_	_
Stage 2	741	684	<u>-</u>	867	780	<u>-</u>	-	-	-	_	-	-
Platoon blocked, %	741	004	_	007	100	_		_	-	-	_	_
Mov Cap-1 Maneuver	512	497	920	463	503	986	1452	-	-	1501	-	-
Mov Cap-1 Maneuver		497	920	463	503	300	1402	•	-	1301	-	•
Stage 1	848	768	<u>-</u>	707	656	<u>-</u>	-	-	-	-	-	-
	682	643	-	759	772	-	•	•	-	•	-	•
Stage 2	002	043	-	1 39	112	-	-	-	_	-	_	_
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	10.07			10.68			3.93			0.76		
HCM LOS	В			В								
Minor Lane/Major Mvr	nt	NBL	NBT	NRR	EBLn1	FBI n2\	VRI n1	SBL	SBT	SBR		
Capacity (veh/h)		1452	וטוו	-		920	654	179		UDIT		
HCM Lane V/C Ratio		0.061	-						<u> </u>	-		
HCM Ctrl Dly (s/v)		7.6	-	-		9.3	10.7	7.4	0	_		
HCM Lane LOS		7.0 A			12.0 B	9.5 A	10.7 B	7.4 A				
	,)	0.2	-	-	0.2	0.3	0.1	0	А	-		
HCM 95th %tile Q(veh	1)	0.2	-	-	0.2	0.3	0.1	U	-	-		

Intersection						
Int Delay, s/veh	1.5					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	\	7	^	4	^	•
Traffic Vol, veh/h	21	4	0	79	139	3
Future Vol, veh/h	21	4	0	79	139	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	82	69	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	45	9	0	96	201	4
				_		
	Minor2		Major1		Major2	
Conflicting Flow All	300	204	206	0	-	0
Stage 1	204	-	-	-	-	-
Stage 2	96	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.17	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.263	-	-	-
Pot Cap-1 Maneuver	694	840	1336	_	_	-
Stage 1	833	-	_	-	_	_
Stage 2	930	_	_	_	_	_
Platoon blocked, %	000			_	_	_
Mov Cap-1 Maneuver	694	840	1336		_	_
Mov Cap-1 Maneuver		- 040	1000	-	-	_
	833	-	_	-	-	_
Stage 1		_	_	_	_	-
Stage 2	930	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.35		0		0	
HCM LOS	В					
110111 200						
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1 E	EBLn2	SBT
Capacity (veh/h)		1336	-	694	840	-
HCM Lane V/C Ratio		-	-	0.064	0.01	-
HCM Ctrl Dly (s/v)		0	-	10.5	9.3	-
HCM Lane LOS		Α	-	В	Α	-
HCM 95th %tile Q(veh	1)	0	-		0	-
	'/	J		J.2	J	

Intersection						
Int Delay, s/veh	1.2					
		EDD	ND	NET	OPT	ODD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	₽	
Traffic Vol, veh/h	22	0	0	58	102	41
Future Vol, veh/h	22	0	0	58	102	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	33	0	0	73	115	46
				. •		. •
	Minor2		Major1		/lajor2	
Conflicting Flow All	211	138	161	0	-	0
Stage 1	138	-	-	-	-	-
Stage 2	73	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	_	_	-	_	-
Critical Hdwy Stg 2	5.41	-	_	_	_	-
Follow-up Hdwy	3.509	3.309	2.227	_	_	_
Pot Cap-1 Maneuver	780	913	1412	_	_	_
Stage 1	891	-		_	_	_
Stage 2	952	_	_	_	_	_
Platoon blocked, %	302			_	_	_
Mov Cap-1 Maneuver	780	913	1412	-	_	_
Mov Cap-1 Maneuver		913	1412	_	_	
		-	-	-	-	-
Stage 1	891	-	-	-	-	-
Stage 2	952	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	9.82		0		0	
HCM LOS	Α					
1 JOINI LOO	Λ					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1412	-	780	-	-
HCM Lane V/C Ratio		-	-	0.043	-	-
HCM Ctrl Dly (s/v)		0	-		-	-
HCM Lane LOS		A	_	A	_	-
HCM 95th %tile Q(veh	1)	0	-		_	-
TOW JOHN JOHN Q VOI	'/	U		0.1		

Intersection						
Int Delay, s/veh	0.1					
		EDT	WDT	WIDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	^	વ	∱	4		^
Traffic Vol, veh/h	0	21	40	1	1	0
Future Vol, veh/h	0	21	40	1	1	0
Conflicting Peds, #/hr	0	_ 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	30	57	1	1	0
Major/Minor	Major1		Anier?		/lines?	
	Major1		//ajor2		Minor2	
Conflicting Flow All	59	0	-	0	88	58
Stage 1	-	-	-	-	58	-
Stage 2	-	-	-	-	30	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1552	-	-	-	918	1014
Stage 1	-	-	-	-	970	-
Stage 2	-	-	-	-	998	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1552	-	_	_	918	1014
Mov Cap-2 Maneuver	-	_	-	_	918	-
Stage 1	_	_	_	_	970	_
Stage 2	_	_	_	_	998	_
Olago Z					550	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		8.93	
HCM LOS					Α	
Minor Lone (Maior M	-4	EDI	EDT	WDT	WDD	2DL 4
Minor Lane/Major Mvn	nt	EBL	EBT	WBT		
Capacity (veh/h)		1552	-	-	-	
HCM Lane V/C Ratio		-	-	-	-	0.002
HCM Ctrl Dly (s/v)		0	-	-	-	8.9
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	-	-	0

Intersection Capacity Worksheets: Year 2028 Background (with Moonlit Meadows)

	ၨ	-	•	←	•	†	-	ţ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Configurations	7	f _a	7	f)		4		4	
Traffic Volume (vph)	45	535	60	135	26	12	8	6	
Future Volume (vph)	45	535	60	135	26	12	8	6	
Lane Group Flow (vph)	54	668	78	176	0	305	0	44	
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases		2		6		8		4	
Permitted Phases	2		6		8		4		
Detector Phase	2	2	6	6	8	8	4	4	
Switch Phase									
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	25.0	25.0	25.0	25.0	32.0	32.0	32.0	32.0	
Total Split (s)	28.0	28.0	28.0	28.0	32.0	32.0	32.0	32.0	
Total Split (%)	46.7%	46.7%	46.7%	46.7%	53.3%	53.3%	53.3%	53.3%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0		6.0		6.0	
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	Max	Max	Max	Max	None	None	None	None	
v/c Ratio	0.10	0.78	0.38	0.22		0.64		0.10	
Control Delay (s/veh)	8.9	21.4	16.7	9.3		16.1		9.0	
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0	
Total Delay (s/veh)	8.9	21.4	16.7	9.3		16.1		9.0	
Queue Length 50th (ft)	7	129	12	24		45		5	
Queue Length 95th (ft)	25	#331	42	58		49		12	
Internal Link Dist (ft)		477		408		755		327	
Turn Bay Length (ft)	50		100						
Base Capacity (vph)	552	851	205	808		867		840	
Starvation Cap Reductn	0	0	0	0		0		0	
Spillback Cap Reductn	0	0	0	0		0		0	
Storage Cap Reductn	0	0	0	0		0		0	
Reduced v/c Ratio	0.10	0.78	0.38	0.22		0.35		0.05	

Intersection Summary

Cycle Length: 60

Actuated Cycle Length: 47.7

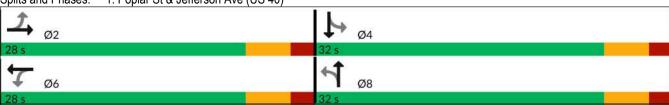
Natural Cycle: 65

Control Type: Semi Act-Uncoord

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 1: Poplar St & Jefferson Ave (US 40)



1: Poplar St & Jefferson Ave (US 40) 2028 Background (with Moonlit) - AM Peak Hour

	•	→	•	€	←	•	•	†	<i>></i>	\	+	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	1>		7	₽			4			4	
Traffic Volume (veh/h)	45	535	19	60	135	1	26	12	142	8	6	11
Future Volume (veh/h)	45	535	19	60	135	1	26	12	142	8	6	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1722	1722	1722	1796	1796	1796	1885	1885	1885
Adj Flow Rate, veh/h	54	645	23	78	175	1	44	20	241	14	11	19
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.59	0.59	0.59	0.57	0.57	0.57
Percent Heavy Veh, %	6	6	6	12	12	12	7	7	7	1	1	1
Cap, veh/h	641	827	29	273	814	5	124	50	320	196	156	190
Arrive On Green	0.48	0.48	0.48	0.48	0.48	0.48	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1167	1738	62	707	1711	10	133	187	1208	352	591	717
Grp Volume(v), veh/h	54	0	668	78	0	176	305	0	0	44	0	0
Grp Sat Flow(s),veh/h/ln	1167	0	1800	707	0	1720	1528	0	0	1659	0	0
Q Serve(g_s), s	1.3	0.0	14.3	4.8	0.0	2.8	3.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.1	0.0	14.3	19.1	0.0	2.8	8.4	0.0	0.0	0.9	0.0	0.0
Prop In Lane	1.00	^	0.03	1.00		0.01	0.14	^	0.79	0.32	^	0.43
Lane Grp Cap(c), veh/h	641	0	856	273	0	818	494	0	0	542	0	0
V/C Ratio(X)	0.08	0.00	0.78	0.29	0.00	0.22	0.62	0.00	0.00	0.08	0.00	0.00
Avail Cap(c_a), veh/h	641	1.00	856	273	1.00	818	941	1.00	1.00	976	1.00	1.00
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00 10.1	1.00 18.1	0.00	1.00 7.1	1.00 15.5	0.00	0.00	1.00 12.8	0.00	0.00
Uniform Delay (d), s/veh	0.3	0.0	7.0	2.6	0.0	0.6	1.3	0.0	0.0	0.1	0.0	0.0
Incr Delay (d2), s/veh Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	5.8	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	5.0	0.9	0.0	0.9	2.1	0.0	0.0	0.5	0.0	0.0
LnGrp Delay(d), s/veh	8.5	0.0	17.1	20.7	0.0	7.7	16.8	0.0	0.0	12.9	0.0	0.0
LnGrp LOS	0.5 A	0.0	В	20.7 C	0.0	7.7 A	В	0.0	0.0	12.9 B	0.0	0.0
Approach Vol, veh/h	Λ	722	ט	<u> </u>	254	Λ	ט	305		U	44	
Approach Vol, ven/in Approach Delay, s/veh		16.4			11.7			16.8			12.9	
Approach LOS		10.4 B			11.7 B			10.0 B			12.9 B	
· ·				1		c						
Timer - Assigned Phs		2		40.0		6		8				
Phs Duration (G+Y+Rc), s		28.0		18.3		28.0		18.3				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		22.0		26.0		22.0		26.0				
Max Q Clear Time (g_c+l1), s		16.3		2.9		21.1		10.4				
Green Ext Time (p_c), s		2.3		0.2		0.1		1.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			15.5									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	3.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	T T	VVDL	4	WDIX	NDL N	1 3	NON	ODL	4	ODIN
Traffic Vol, veh/h	11	4	57	1	3	3	69	186	4	4	104	16
Future Vol, veh/h	11	4	57	1	3	3	69	186	4	4	104	16
Conflicting Peds, #/hr	0	0	6	6	0	0	13	0	0	0	0	13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	Olop -	None	- Olop	-	None	-	-	None	-	-	None
Storage Length	_	_	100	_	_	-	60	_	-	_	_	-
Veh in Median Storage		0	-	_	0	_	-	0	_	_	0	_
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	57	57	57	50	50	50	59	59	59	60	60	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mymt Flow	19	7	100	2	6	6	117	315	7	7	173	27
WWW.CT IOW	10	•	100	_	· ·	· ·		010	•	•	170	
	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	765	769	206	749	779	319	213	0	0	322	0	0
Stage 1	213	213	-	553	553	-	-	-	-	-	-	-
Stage 2	552	556	-	196	226	-	-	-	-	-	-	-
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	312	323	817	310	310	689	1357	-	-	1227	-	-
Stage 1	773	713	-	492	491	-	-	-	-	-	-	-
Stage 2	506	502	-	772	690	-	-	-	-	-	-	-
Platoon blocked, %	6 = :			0.15	0-0		40.10	-	-	100=	-	-
Mov Cap-1 Maneuver		290	803	240	278	689	1340	-	-	1227	-	-
Mov Cap-2 Maneuver		290	-	240	278	-	-	-	-	-	-	-
Stage 1	759	700	-	449	448	-	-	-	-	-	-	-
Stage 2	451	458	-	661	677	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	12.06			15.34			2.12			0.26		
HCM LOS	В			С								
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1340	_	-		803	362	57	_	_		
HCM Lane V/C Ratio		0.087	_				0.039		_	_		
HCM Ctrl Dly (s/v)		7.9	_	_	40.4	10.1	15.3	8	0	_		
HCM Lane LOS		Α.5	_	_	C	В	C	A	A	_		
HCM 95th %tile Q(veh	1)	0.3	-	_	0.3	0.4	0.1	0	-	_		
TOTAL COLLY TOLLIO CA VOI	'/	0.0			0.0	07	J. 1	J				

Intersection							
Int Delay, s/veh	5.3						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	CDL	EDK.	NDL	IND I	<u>361</u>	אמט	
Traffic Vol, veh/h	'1 67	26	46	190	₽	102	
Future Vol, veh/h	67	26	46	190	57 57	102	
	0	0	2	190	0	2	
Conflicting Peds, #/hr							
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-		-	None	
Storage Length	0	0	-	-	-	-	
Veh in Median Storage		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	37	37	70	70	59	59	
Heavy Vehicles, %	1	1	3	3	2	2	
Mvmt Flow	181	70	66	271	97	173	
Major/Minor	Minor2		Major1		Major2		
	588	185	271	0		0	
Conflicting Flow All			2/1	U	-		
Stage 1	185	-	-	-	-	-	
Stage 2	403	-	-	-	-	-	
Critical Hdwy	6.41	6.21	4.13	-	-	-	
Critical Hdwy Stg 1	5.41	-	-	-	-	-	
Critical Hdwy Stg 2	5.41	-	-	-	-	-	
Follow-up Hdwy			2.227	-	-	-	
Pot Cap-1 Maneuver	473	860	1286	-	-	-	
Stage 1	849	-	-	-	-	-	
Stage 2	677	-	-	-	-	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	443	858	1284	-	-	-	
Mov Cap-2 Maneuver	443	-	-	-	-	-	
Stage 1	796	-	-	-	-	-	
Stage 2	676	_	_	-	_	-	
J J .							
A			ND		CD.		
Approach	EB		NB		SB		
HCM Ctrl Dly, s/v	16.1		1.55		0		
HCM LOS	С						
Minor Lane/Major Mvr	nt	NBL	NRT	EBLn1	FBI n2	SBT	
Capacity (veh/h)		351	-		858		
HCM Lane V/C Ratio						-	
		0.051		0.409		-	
HCM Ctrl Dly (s/v)		8	0	18.6	9.6	-	
HCM Lane LOS		A	Α	С	A	-	
HCM 95th %tile Q(veh	1)	0.2	-	2	0.3	-	

Intersection						
Int Delay, s/veh	3.3					
					057	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	4	
Traffic Vol, veh/h	102	1	0	135	53	30
Future Vol, veh/h	102	1	0	135	53	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	136	1	0	175	104	59
	0					
	Minor2		Major1		//ajor2	_
Conflicting Flow All	309	133	163	0	-	0
Stage 1	133	-	-	-	-	-
Stage 2	175	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	-	-	-
Pot Cap-1 Maneuver	686	918	1392	-	-	-
Stage 1	895	-	-	-	-	-
Stage 2	858	-	-	-	-	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	686	918	1392	-	-	-
Mov Cap-2 Maneuver	686	-	-	_	_	_
Stage 1	895	_	_	_	_	_
Stage 2	858	_	_	_	_	_
Olago Z	550					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	11.54		0		0	
HCM LOS	В					
Minor Lane/Major Mvm	o t	NBL	NDT	EBLn1	SBT	SBR
	ιι					
Capacity (veh/h)		1392	-	687	-	-
HCM Lane V/C Ratio		-	-	0.2	-	-
HCM Ctrl Dly (s/v)		0	-		-	-
HCM Lane LOS HCM 95th %tile Q(veh		Α	-	В	-	-
$1 \times 1 \times$	1	0	_	0.7	_	_

latere estima						
Intersection	0.4					
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	4		W	
Traffic Vol, veh/h	0	102	29	1	1	0
Future Vol, veh/h	0	102	29	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	-	-	0	-
Veh in Median Storage	e.# -	0	0	_	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mymt Flow	0	136	39	1	1	0
IVIVIIIL I IOW	U	130	00	l I	1	U
Major/Minor I	Major1	N	//ajor2	N	/linor2	
Conflicting Flow All	40	0	-	0	175	39
Stage 1	-	-	-	-	39	-
Stage 2	-	-	-	-	136	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	_	-	-	-	5.4	_
Critical Hdwy Stg 2	_	_	-	_	5.4	-
Follow-up Hdwy	2.209	_	_	_	3.5	3.3
Pot Cap-1 Maneuver	1576	_	_	_	819	1038
Stage 1	-	_	_	_	988	-
Stage 2	_	_	_	_	895	_
Platoon blocked, %		<u>-</u>	_	_	033	
	1576	_	-		819	1038
Mov Cap-1 Maneuver		-		-		
Mov Cap-2 Maneuver	-	-	-	-	819	-
Stage 1	-	-	-	-	988	-
Stage 2	-	-	-	-	895	-
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.4	
HCM LOS					A	
					, ,	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1576	-	-	-	819
HCM Lane V/C Ratio		-	-	-	-	0.002
HCM Ctrl Dly (s/v)		0	-	-	-	9.4
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0

	•	-	•	•	•	†	-	ţ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Configurations	ሻ	fə	ሻ	f)		4		4	
Traffic Volume (vph)	19	174	141	538	17	7	4	11	
Future Volume (vph)	19	174	141	538	17	7	4	11	
Lane Group Flow (vph)	21	227	166	638	0	137	0	53	
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases		2		6		8		4	
Permitted Phases	2		6		8		4		
Detector Phase	2	2	6	6	8	8	4	4	
Switch Phase									
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	25.0	25.0	25.0	25.0	32.0	32.0	32.0	32.0	
Total Split (s)	28.0	28.0	28.0	28.0	32.0	32.0	32.0	32.0	
Total Split (%)	46.7%	46.7%	46.7%	46.7%	53.3%	53.3%	53.3%	53.3%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0		6.0		6.0	
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	Max	Max	Max	Max	None	None	None	None	
v/c Ratio	0.06	0.21	0.24	0.57		0.33		0.14	
Control Delay (s/veh)	6.3	6.3	7.6	10.6		8.3		8.8	
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0	
Total Delay (s/veh)	6.3	6.3	7.6	10.6		8.3		8.8	
Queue Length 50th (ft)	2	27	22	109		6		4	
Queue Length 95th (ft)	10	56	46	182		27		21	
Internal Link Dist (ft)		477		408		755		327	
Turn Bay Length (ft)	50		100						
Base Capacity (vph)	377	1077	688	1118		899		907	
Starvation Cap Reductn	0	0	0	0		0		0	
Spillback Cap Reductn	0	0	0	0		0		0	
Storage Cap Reductn	0	0	0	0		0		0	
Reduced v/c Ratio	0.06	0.21	0.24	0.57		0.15		0.06	

Intersection Summary

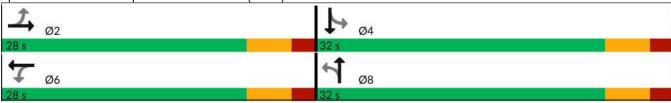
Cycle Length: 60

Actuated Cycle Length: 45.1

Natural Cycle: 60

Control Type: Semi Act-Uncoord





1: Poplar St & Jefferson Ave (US 40) 2028 Background (with Moonlit) - PM Peak Hour

	۶	→	•	•	←	•	•	†	/	\	+	√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ň	f)		Ŋ	eî			- 40+			44	
Traffic Volume (veh/h)	19	174	31	141	538	4	17	7	79	4	11	30
Future Volume (veh/h)	19	174	31	141	538	4	17	7	79	4	11	30
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1841	1841	1841	1796	1796	1796	1826	1826	1826
Adj Flow Rate, veh/h	21	193	34	166	633	5	23	9	105	5	13	35
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85	0.75	0.75	0.75	0.85	0.85	0.85
Percent Heavy Veh, %	6	6	6	4	4	4	7	7	7	5	5	5
Cap, veh/h	342	748	132	646	911	7	125	52	266	101	113	241
Arrive On Green	0.50	0.50	0.50	0.50	0.50	0.50	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	765	1499	264	1133	1824	14	129	226	1165	50	493	1056
Grp Volume(v), veh/h	21	0	227	166	0	638	137	0	0	53	0	0
Grp Sat Flow(s),veh/h/ln	765	0	1763	1133	0	1838	1521	0	0	1599	0	0
Q Serve(g_s), s	1.0	0.0	3.3	4.3	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.7	0.0	3.3	7.6	0.0	11.7	3.3	0.0	0.0	1.2	0.0	0.0
Prop In Lane	1.00		0.15	1.00		0.01	0.17	_	0.77	0.09		0.66
Lane Grp Cap(c), veh/h	342	0	880	646	0	918	442	0	0	454	0	0
V/C Ratio(X)	0.06	0.00	0.26	0.26	0.00	0.69	0.31	0.00	0.00	0.12	0.00	0.00
Avail Cap(c_a), veh/h	342	1.00	880	646	1.00	918	978	1.00	1.00	1018	1.00	1.00
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00 8.5	0.00	1.00 8.5	1.00 14.4	0.00	0.00	1.00 13.6	0.00	0.00
Uniform Delay (d), s/veh	0.3	0.0	0.3	1.0	0.0	4.3	0.4	0.0	0.0	0.1	0.0	0.0
Incr Delay (d2), s/veh Initial Q Delay(d3), s/veh	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	1.0	1.0	0.0	4.3	1.1	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	1.0	1.0	0.0	4.5	1.1	0.0	0.0	0.4	0.0	0.0
LnGrp Delay(d), s/veh	13.7	0.0	7.0	9.5	0.0	12.8	14.8	0.0	0.0	13.7	0.0	0.0
LnGrp LOS	13.7 B	0.0	7.0 A	9.5 A	0.0	12.0 B	14.0 B	0.0	0.0	13.7 B	0.0	0.0
Approach Vol, veh/h	ט	248			804	ט	ט	137		U	53	
Approach Delay, s/veh		7.6			12.1			14.8			13.7	
Approach LOS		7.0 A			12.1 B			14.0 B			13.1 B	
· ·					Ь						Ь	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.0		16.0		28.0		16.0				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		22.0		26.0		22.0		26.0				
Max Q Clear Time (g_c+l1), s		14.7		3.2		13.7		5.3				
Green Ext Time (p_c), s		0.8		0.2		3.2		0.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			11.6									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	3.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	1		4			1→			4	
Traffic Vol, veh/h	7	11	68	2	4	6	58	97	6	11	167	15
Future Vol, veh/h	7	11	68	2	4	6	58	97	6	11	167	15
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	<u>-</u>	None	-	-	None	_	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	69	60	60	60	59	59	59	83	83	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	10	16	99	3	7	10	98	164	10	13	201	18
Major/Minor	Minor2			Minor1		J	Major1			Major2		
Conflicting Flow All	602	609	217	608	613	169	220	0	0	175	0	0
Stage 1	238	238	-	366	366	-	-	-	-	-	-	-
Stage 2	364	371	-	242	247	-	-	-	-	-	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	404	403	810	409	409	877	1331	-	-	1390	-	-
Stage 1	754	699	-	655	624	-	-	-	-	-	-	-
Stage 2	645	611	-	764	704	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	360	369	805	314	374	877	1330	-	-	1390	-	-
Mov Cap-2 Maneuver	360	369	-	314	374	-	-	-	-	-	-	-
Stage 1	746	691	-	607	578	_	-	-	-	-	-	-
Stage 2	583	566	-	644	696	-	-	-	-	-	-	-
, and the second												
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	11.25			12.46			2.85			0.43		
HCM LOS	В			В								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1330	-	-	365	805	502	101	-	-		
HCM Lane V/C Ratio		0.074	_	_	0.071		0.04	0.01	_	_		
HCM Ctrl Dly (s/v)		7.9	-	-	15.6	10.1	12.5	7.6	0	-		
HCM Lane LOS		A	-	-	С	В	В	A	A	_		
HCM 95th %tile Q(veh)	0.2	-	-	0.2	0.4	0.1	0	-	-		
	,						• • •					

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	EBL	EBK	INPL			SBK
Lane Configurations			0	4 120	224	2
Traffic Vol, veh/h	21	4	0	139	234	3
Future Vol, veh/h	21	4	0	139	234	3
Conflicting Peds, #/hr	0	0	0	0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-		-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	82	69	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	45	9	0	170	339	4
N A - ' /N A'	N4' O		M. ' A		M. ' O	
	Minor2		Major1		Major2	
Conflicting Flow All	511	341	343	0	-	0
Stage 1	341	-	-	-	-	-
Stage 2	170	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.17	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.263	-	-	-
Pot Cap-1 Maneuver	525	703	1188	-	-	-
Stage 1	722	-	-	-	-	-
Stage 2	863	_	_	-	-	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	525	703	1188	_	_	_
Mov Cap-2 Maneuver		-	- 100	_	_	_
Stage 1	722		_	_	_	_
Stage 2	863	_	_	_	_	_
Staye 2	003	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	12.13		0		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1 I		SBT
Capacity (veh/h)		1188	-	525	703	-
HCM Lane V/C Ratio		-	-	0.085		-
HCM Ctrl Dly (s/v)		0	-	12.5	10.2	-
HCM Lane LOS		Α	-	В	В	-
HCM 95th %tile Q(veh	۱)	0	-	0.3	0	-

Intersection						
Int Delay, s/veh	2.2					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	4	101
Traffic Vol, veh/h	60	0	0	80	137	101
Future Vol, veh/h	60	0	0	80	137	101
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	91	0	0	101	154	113
N A . ' (N A'	N. 0					
	Minor2		Major1		//ajor2	
Conflicting Flow All	312	211	267	0	-	0
Stage 1	211	-	-	-	-	-
Stage 2	101	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.227	-	-	-
Pot Cap-1 Maneuver	683	832	1291	-	-	-
Stage 1	827	-	-	-	-	-
Stage 2	925	_	_	-	_	-
Platoon blocked, %				_	_	-
Mov Cap-1 Maneuver	683	832	1291	_	_	_
Mov Cap-2 Maneuver		-		_	_	_
Stage 1	827	_	_	_	_	_
Stage 2	925	_		_	_	_
Olage 2	323					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	11.08		0		0	
HCM LOS	В					
		NIDI	NIDT	EDI 4	007	000
Minor Lane/Major Mvr	nt	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1291	-		-	-
HCM Lane V/C Ratio		-	-	0.133	-	-
HCM Ctrl Dly (s/v)		0	-		-	-
HCM Lane LOS		Α	-	В	-	-
HCM 95th %tile Q(veh	1)	0	-	0.5	-	-

Intersection						
Int Delay, s/veh	0.1					
		EST	MOT	14/55	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ची	₽		Y	
Traffic Vol, veh/h	0	59	100	1	1	0
Future Vol, veh/h	0	59	100	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	84	143	1	1	0
WWW.CT IOW	J	O.	110	•		•
	Major1	N	Major2		Minor2	
Conflicting Flow All	144	0	-	0	228	144
Stage 1	-	-	-	-	144	-
Stage 2	-	-	-	-	84	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	_	-	-	_	5.4	_
Critical Hdwy Stg 2	_	_	-	_	5.4	_
Follow-up Hdwy	2.209	_	-	_	3.5	3.3
Pot Cap-1 Maneuver	1444	_	_	_	765	909
Stage 1	-	_	_	_	889	-
Stage 2	_	_	_	_	944	_
Platoon blocked, %		_	_	_	J-1-1	
Mov Cap-1 Maneuver	1444	_		_	765	909
Mov Cap-1 Maneuver	-	_	_	_	765	303
	-	_	-	_	889	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	944	-
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.72	
HCM LOS	Ū		•		A	
TIOW EGG					,,	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1444	-	-	-	765
HCM Lane V/C Ratio		-	-	-	-	0.002
HCM Ctrl Dly (s/v)		0	-	-	-	9.7
HCM Lane LOS		A	-	_	_	Α
HCM 95th %tile Q(veh	1)	0	-		_	0
TOWN JOHN JUHIC Q(VEI	7	U				U

Intersection Capacity Worksheets: Year 2045 Background (with Moonlit Meadows)

	•	-	•	•	1	†	-	-	Ţ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations	*	1 2	ሻ	4		ની	7		4
Traffic Volume (vph)	55	630	130	160	79	15	333	10	10
Future Volume (vph)	55	630	130	160	79	15	333	10	10
Lane Group Flow (vph)	66	808	169	214	0	125	444	0	62
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	pm+ov	Perm	NA
Protected Phases	5	2	1	6		8	1		4
Permitted Phases	2		6		8		8	4	
Detector Phase	5	2	1	6	8	8	1	4	4
Switch Phase									
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.5	25.0	9.5	25.0	32.0	32.0	9.5	32.0	32.0
Total Split (s)	9.6	53.0	15.0	58.4	32.0	32.0	15.0	32.0	32.0
Total Split (%)	9.6%	53.0%	15.0%	58.4%	32.0%	32.0%	15.0%	32.0%	32.0%
Yellow Time (s)	3.5	4.0	3.5	4.0	4.0	4.0	3.5	4.0	4.0
All-Red Time (s)	1.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Lost Time (s)	4.5	6.0	4.5	6.0		6.0	4.5		6.0
Lead/Lag	Lead	Lag	Lead	Lag			Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes			Yes		
Recall Mode	None	Max	None	Max	None	None	None	None	None
v/c Ratio	0.09	0.84	0.52	0.21		0.60	0.75		0.23
Control Delay (s/veh)	5.3	27.9	11.3	9.4		46.9	26.8		22.7
Queue Delay	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Delay (s/veh)	5.3	27.9	11.3	9.4		46.9	26.8		22.7
Queue Length 50th (ft)	9	356	24	50		66	154		17
Queue Length 95th (ft)	23	#591	47	84		98	188		27
Internal Link Dist (ft)		477		408		755			327
Turn Bay Length (ft)	50		100				100		
Base Capacity (vph)	726	965	345	1038		377	612		479
Starvation Cap Reductn	0	0	0	0		0	0		0
Spillback Cap Reductn	0	0	0	0		0	0		0
Storage Cap Reductn	0	0	0	0		0	0		0
Reduced v/c Ratio	0.09	0.84	0.49	0.21		0.33	0.73		0.13

Intersection Summary

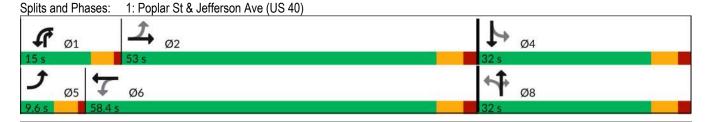
Cycle Length: 100 Actuated Cycle Length: 87.7

Natural Cycle: 90

Control Type: Semi Act-Uncoord

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



1: Poplar St & Jefferson Ave (US 40) 2045 Background (with Moonlit) - AM Peak Hour

	ᄼ	→	•	•	+	•	•	†	/	/	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	1>		ሻ	ĵ»			र्स	7		4	
Traffic Volume (veh/h)	55	630	41	130	160	5	79	15	333	10	10	15
Future Volume (veh/h)	55	630	41	130	160	5	79	15	333	10	10	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1722	1722	1722	1796	1796	1796	1885	1885	1885
Adj Flow Rate, veh/h	66	759	49	169	208	6	105	20	444	18	18	26
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.75	0.75	0.75	0.57	0.57	0.57
Percent Heavy Veh, %	6	6	6	12	12	12	7	7	7	1	1	1
Cap, veh/h	666	843	54	244	881	25	310	53	505	103	105	116
Arrive On Green	0.04	0.50	0.50	0.07	0.53	0.53	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1725	1682	109	1640	1665	48	928	203	1519	213	402	444
Grp Volume(v), veh/h	66	0	808	169	0	214	125	0	444	62	0	0
Grp Sat Flow(s),veh/h/ln	1725	0	1791	1640	0	1713	1131	0	1519	1058	0	0
Q Serve(g_s), s	1.8	0.0	40.6	4.9	0.0	6.7	0.0	0.0	26.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	1.8	0.0	40.6	4.9	0.0	6.7	12.2	0.0	26.0	12.5	0.0	0.0
Prop In Lane	1.00		0.06	1.00		0.03	0.84		1.00	0.29		0.42
Lane Grp Cap(c), veh/h	666	0	898	244	0	906	364	0	505	325	0	0
V/C Ratio(X)	0.10	0.00	0.90	0.69	0.00	0.24	0.34	0.00	0.88	0.19	0.00	0.00
Avail Cap(c_a), veh/h	682	0	898	303	0	906	364	0	505	325	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.8	0.0	22.5	21.1	0.0	12.6	31.3	0.0	31.2	28.2	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	13.8	4.9	0.0	0.6	0.6	0.0	16.2	0.3	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	19.4	2.2	0.0	2.6	2.6	0.0	12.1	1.2	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	00.0	00.0	0.0	40.0	04.0	0.0	47.4	00.5	0.0	0.0
LnGrp Delay(d), s/veh	10.9	0.0	36.3	26.0	0.0	13.2	31.9	0.0	47.4	28.5	0.0	0.0
LnGrp LOS	В	074	D	С	200	В	С	500	D	С		
Approach Vol, veh/h		874			383			569			62	
Approach Delay, s/veh		34.4			18.8			44.0			28.5	
Approach LOS		С			В			D			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.4	55.7		32.0	8.7	58.4		32.0				
Change Period (Y+Rc), s	4.5	6.0		6.0	4.5	6.0		6.0				
Max Green Setting (Gmax), s	10.5	47.0		26.0	5.1	52.4		26.0				
Max Q Clear Time (g_c+I1), s	6.9	42.6		14.5	3.8	8.7		28.0				
Green Ext Time (p_c), s	0.1	2.2		0.2	0.0	1.4		0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh			33.9									
HCM 7th LOS			С									
Notes												
User approved pedestrian inter	val to be	e less tha	n phase n	nax greer	າ.							

Intersection												
Int Delay, s/veh	3.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7		4		*	1			4	
Traffic Vol, veh/h	15	5	77	5	5	5	112	457	5	5	205	20
Future Vol, veh/h	15	5	77	5	5	5	112	457	5	5	205	20
Conflicting Peds, #/hr	0	0	6	6	0	0	13	0	0	0	0	13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	_	None	-	<u>-</u>	None	_	-	None	_	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	_	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	57	57	85	50	50	50	85	85	59	60	85	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mvmt Flow	26	9	91	10	10	10	132	538	8	8	241	33
Major/Minor	Minor2		I	Minor1			Major1		1	Major2		
Conflicting Flow All	1094	1097	277	1074	1110	542	288	0	0	546	0	0
Stage 1	288	288	-	805	805	-	-	-	-	-	-	-
Stage 2	806	810	-	268	304	-	-	-	-	-	-	-
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.19	5.59	_	6.27	5.67	-	_	-	-	-	-	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	186	207	745	185	197	512	1274	-	-	1013	-	-
Stage 1	705	661	-	355	374	-	-	-	-	-	-	-
Stage 2	365	383	-	706	637	-	_	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	151	181	732	137	172	512	1259	-	-	1013	-	-
Mov Cap-2 Maneuver	151	181	-	137	172	-	-	-	-	-	-	-
Stage 1	690	647	-	318	335	-	-	-	-	-	-	-
Stage 2	311	343	-	600	623	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	17.21			26.26			1.59			0.25		
HCM LOS	С			D								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1259	-	-	158	732	199	52	-	-		
HCM Lane V/C Ratio		0.105	-	-			0.151		-	-		
HCM Ctrl Dly (s/v)		8.2	_	_	34.3	10.6	26.3	8.6	0	-		
HCM Lane LOS		Α	-	_	D	В	D	Α	A	-		
HCM 95th %tile Q(veh)	0.3	_	-	0.8	0.4	0.5	0	-	-		
	,											

L. C C						
Intersection	44.0					
Int Delay, s/veh	11.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7		4	î,	
Traffic Vol, veh/h	70	32	65	489	157	105
Future Vol, veh/h	70	32	65	489	157	105
Conflicting Peds, #/hr	0	0	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	·-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	37	37	70	85	85	59
Heavy Vehicles, %	1	1	3	3	2	2
Mvmt Flow	189	86	93	575	185	178
M = i = =/N Ai = = =	N4: 0		11-:1		M-:0	
	Minor2		Major1		Major2	
Conflicting Flow All	1037	276	365	0	-	0
Stage 1	276	-	-	-	-	-
Stage 2	761	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309		-	-	-
Pot Cap-1 Maneuver	257	765	1188	-	-	-
Stage 1	773	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		764	1186	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	683	-	-	-	-	-
Stage 2	462	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	50.74		1.15		0.0	
HCM LOS	50.74 F		1.10		U	
TICIVI LOS	ı					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	EBLn2	SBT
Capacity (veh/h)		250	-		764	-
HCM Lane V/C Ratio		0.078	-	0.834	0.113	-
HCM Ctrl Dly (s/v)		8.3	0	69.2	10.3	-
HCM Lane LOS		Α	Α	F	В	-
HCM 95th %tile Q(veh	1)	0.3	-	6.4	0.4	-

Intersection						
Int Delay, s/veh	4.1					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	\Y	-	_	4	1	0.4
Traffic Vol, veh/h	112	5	5	447	160	34
Future Vol, veh/h	112	5	5	447	160	34
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	149	7	6	581	314	67
N.A. ' (N.A.	N. 0				4 : 0	
	Minor2		Major1		Major2	
Conflicting Flow All	941	347	380	0	-	0
Stage 1	347	-	-	-	-	-
Stage 2	594	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	-	-	-
Pot Cap-1 Maneuver	294	698	1156	-	-	-
Stage 1	718	-	-	-	-	-
Stage 2	554	_	_	_	_	-
Platoon blocked, %				_	_	-
Mov Cap-1 Maneuver	291	698	1156	_	_	_
Mov Cap-2 Maneuver		-	-	_	_	_
Stage 1	712	_	_		_	_
Stage 2	554	_	_	_	_	_
Olage 2	JJ-1	_		-	_	_
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	29.52		0.09		0	
HCM LOS	D					
NA: 1 (NA : NA		NDI	NDT	EDL 4	ODT	000
Minor Lane/Major Mvr	nt	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		20	-		-	-
HCM Lane V/C Ratio		0.006		0.522	-	-
HCM Ctrl Dly (s/v)		8.1	0		-	-
HCM Lane LOS		Α	Α	D	-	-
HCM 95th %tile Q(veh	1)	0	-	2.8	-	-

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1≽		W	
Traffic Vol, veh/h	0	116	33	1	1	0
Future Vol, veh/h	0	116	33	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	None -	<u>-</u>	-	0	NOHE
						-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	155	44	1	1	0
Major/Minor	Major1	N	Major2	N	Minor2	
Conflicting Flow All	45	0	- viajoiz	0	199	45
	40				45	
Stage 1		-	-	-		-
Stage 2	-	-	-	-	155	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1569	-	-	-	794	1031
Stage 1	-	-	-	-	983	-
Stage 2	-	-	-	-	878	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1569	-	-	-	794	1031
Mov Cap-2 Maneuver		-	_	-	794	_
Stage 1	_	_	_	_	983	_
Stage 2	_	_	_	_	878	_
Olago 2					010	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.54	
HCM LOS					Α	
Minor Long/Major Myr	m+	EDI	ГРТ	WDT	WDD	CDI p1
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1569	-	-	-	794
HCM Lane V/C Ratio		-	-	-		0.002
HCM Ctrl Dly (s/v)		0	-	-	-	9.5
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	-	-	0

	•	-	•	•	•	†	~	-	ţ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	
Lane Configurations	*	f _a	7	f)		ર્ન	7		4	
Traffic Volume (vph)	25	205	350	635	53	10	210	5	15	
Future Volume (vph)	25	205	350	635	53	10	210	5	15	
Lane Group Flow (vph)	28	325	412	753	0	84	280	0	71	
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	pm+ov	Perm	NA	
Protected Phases	5	2	1	6		8	1		4	
Permitted Phases	2		6		8		8	4		
Detector Phase	5	2	1	6	8	8	1	4	4	
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	10.0	5.0	10.0	10.0	
Minimum Split (s)	9.5	25.0	9.5	25.0	32.0	32.0	9.5	32.0	32.0	
Total Split (s)	10.0	45.0	36.0	71.0	39.0	39.0	36.0	39.0	39.0	
Total Split (%)	8.3%	37.5%	30.0%	59.2%	32.5%	32.5%	30.0%	32.5%	32.5%	
Yellow Time (s)	3.5	4.0	3.5	4.0	4.0	4.0	3.5	4.0	4.0	
All-Red Time (s)	1.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0	0.0		0.0	
Total Lost Time (s)	4.5	6.0	4.5	6.0		6.0	4.5		6.0	
Lead/Lag	Lead	Lag	Lead	Lag			Lead			
Lead-Lag Optimize?	Yes	Yes	Yes	Yes			Yes			
Recall Mode	None	Max	None	Max	None	None	None	None	None	
v/c Ratio	0.06	0.32	0.50	0.56		0.44	0.44		0.28	
Control Delay (s/veh)	4.8	12.6	5.8	11.1		47.1	4.9		20.8	
Queue Delay	0.0	0.0	0.0	0.0		0.0	0.0		0.0	
Total Delay (s/veh)	4.8	12.6	5.8	11.1		47.1	4.9		20.8	
Queue Length 50th (ft)	3	90	61	247		50	0		14	
Queue Length 95th (ft)	11	191	111	379		80	21		49	
Internal Link Dist (ft)		477		408		755			327	
Turn Bay Length (ft)	50		100				100			
Base Capacity (vph)	475	1015	1009	1341		517	900		597	
Starvation Cap Reductn	0	0	0	0		0	0		0	
Spillback Cap Reductn	0	0	0	0		0	0		0	
Storage Cap Reductn	0	0	0	0		0	0		0	
Reduced v/c Ratio	0.06	0.32	0.41	0.56		0.16	0.31		0.12	

Intersection Summary

Cycle Length: 120 Actuated Cycle Length: 92.4

Natural Cycle: 80

Control Type: Semi Act-Uncoord





1: Poplar St & Jefferson Ave (US 40) 2045 Background (with Moonlit) - PM Peak Hour

10/21/2020					2040	Ducky	Tourid	(vvici i	VICCIIII	.) 1 101	i can	Hour
	۶	-	\rightarrow	•	←	•	4	†	/	-	↓	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ĭ	- ↑		J.	- ↑			4	7		4	
Traffic Volume (veh/h)	25	205	87	350	635	5	53	10	210	5	15	40
Future Volume (veh/h)	25	205	87	350	635	5	53	10	210	5	15	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1841	1841	1841	1796	1796	1796	1826	1826	1826
Adj Flow Rate, veh/h	28	228	97	412	747	6	71	13	280	6	18	47
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85	0.75	0.75	0.75	0.85	0.85	0.85
Percent Heavy Veh, %	6	6	6	4	4	4	7	7	7	5	5	5
Cap, veh/h	361	620	264	719	1133	9	289	48	495	47	95	204
Arrive On Green	0.03	0.51	0.51	0.13	0.62	0.62	0.19	0.19	0.19	0.19	0.19	0.19
Sat Flow, veh/h	1725	1205	512	1753	1823	15	1159	245	1503	48	488	1050
Grp Volume(v), veh/h	28	0	325	412	0	753	84	0	280	71	0	0
Grp Sat Flow(s),veh/h/ln	1725	0	1717	1753	0	1838	1404	0	1503	1586	0	0
Q Serve(g_s), s	0.8	0.0	11.9	10.7	0.0	27.5	0.6	0.0	16.1	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.8	0.0	11.9	10.7	0.0	27.5	4.5	0.0	16.1	3.9	0.0	0.0
Prop In Lane	1.00		0.30	1.00	_	0.01	0.85	_	1.00	0.08		0.66
Lane Grp Cap(c), veh/h	361	0	884	719	0	1142	336	0	495	346	0	0
V/C Ratio(X)	0.08	0.00	0.37	0.57	0.00	0.66	0.25	0.00	0.57	0.21	0.00	0.00
Avail Cap(c_a), veh/h	406	0	884	1013	0	1142	497	0	677	531	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	12.5	0.0	15.2	9.1	0.0	12.7	35.7	0.0	29.1	35.5	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.2	0.7	0.0	3.0	0.4	0.0	1.0	0.3	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	4.8	3.8	0.0	11.3	1.9	0.0	5.9	1.6	0.0	0.0
Unsig. Movement Delay, s/veh		0.0	16.4	0.0	0.0	15.7	26.4	0.0	20.4	25.0	0.0	0.0
LnGrp Delay(d), s/veh	12.6	0.0	16.4 B	9.8 A	0.0	15.7 B	36.1	0.0	30.1 C	35.8 D	0.0	0.0
LnGrp LOS	В	252	D	A	4405	D	D	201	C	U	74	
Approach Vol, veh/h		353			1165			364			71	
Approach Delay, s/veh		16.1			13.6			31.5 C			35.8	
Approach LOS		В			В						D	
Timer - Assigned Phs	1 1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	18.4	59.8		26.3	7.3	71.0		26.3				
Change Period (Y+Rc), s	4.5	6.0		6.0	4.5	6.0		6.0				
Max Green Setting (Gmax), s	31.5	39.0		33.0	5.5	65.0		33.0				
Max Q Clear Time (g_c+l1), s	12.7	13.9		5.9	2.8	29.5		18.1				
Green Ext Time (p_c), s	1.2	2.1		0.4	0.0	6.5		1.3				
Intersection Summary												
HCM 7th Control Delay, s/veh			18.2									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7		4		ሻ	ĵ.			4	
Traffic Vol, veh/h	10	15	108	5	5	10	88	285	10	15	459	20
Future Vol, veh/h	10	15	108	5	5	10	88	285	10	15	459	20
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	_	-	None	_	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	85	60	60	60	85	85	59	83	85	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	14	22	127	8	8	17	104	335	17	18	540	24
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1136	1148	559	1144	1152	344	565	0	0	352	0	0
Stage 1	589	589	-	551	551	-	-	-	-	-	-	-
Stage 2	547	559	-	593	601	-	-	-	-	-	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	175	194	519	178	198	701	992	-	-	1195	-	-
Stage 1	486	487	-	521	517	-	-	-	-	-	-	-
Stage 2	513	503	-	494	491	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	143	170	516	103	174	701	991	-	-	1195	-	-
Mov Cap-2 Maneuver	143	170	-	103	174	-	-	-	-	-	-	-
Stage 1	475	476	-	466	463	-	-	-	-	-	-	-
Stage 2	440	450	-	345	480	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	18.72			24.39			2.06			0.25		
HCM LOS	С			С								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		991	-	-	158	516	219	55	-	-		
HCM Lane V/C Ratio		0.104	-	-			0.152		-	-		
HCM Ctrl Dly (s/v)		9.1	-	-	34.4	14.3	24.4	8.1	0	-		
HCM Lane LOS		Α	-	-	D	В	С	Α	Α	-		
HCM 95th %tile Q(veh)	0.3	-	-	0.8	1	0.5	0	-	-		

Intersection						
Int Delay, s/veh	1.3					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	7	-	4	1	_
Traffic Vol, veh/h	25	5	5	348	562	5
Future Vol, veh/h	25	5	5	348	562	5
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	85	85	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	53	11	6	409	661	7
		_				
	Minor2		Major1		Major2	
Conflicting Flow All	1086	665	668	0	-	0
Stage 1	665	-	-	-	-	-
Stage 2	422	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.17	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	_	-	-
Follow-up Hdwy		3.309	2.263	_	_	_
Pot Cap-1 Maneuver	240	462	898	_	_	_
Stage 1	513	-	-	_	_	_
Stage 2	664	_	_	_	_	_
Platoon blocked, %	004			_	_	_
Mov Cap-1 Maneuver	238	462	898	_	_	
•	238			-	-	•
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	509	-	-	-	-	-
Stage 2	664	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	22.5		0.13		0	
HCM LOS	ZZ.5		0.10		U	
TIOWI LOO	U					
Minor Lane/Major Mvn	nt _	NBL	NBT	EBLn1 l	EBLn2	SBT
Capacity (veh/h)		26	-		462	-
HCM Lane V/C Ratio		0.007	_	0.223		-
HCM Ctrl Dly (s/v)		9	0		13	-
HCM Lane LOS		A	A	C	В	_
HCM 95th %tile Q(veh)	0	-	0.8	0.1	_
HOW SOUT WITE Q(VEH	J	U	_	0.0	0.1	_

Intersection						
Int Delay, s/veh	2.5					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M	-		4	^	440
Traffic Vol, veh/h	69	5	5	284	462	110
Future Vol, veh/h	69	5	5	284	462	110
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	105	8	6	359	519	124
N.A. ' (N.A.					4 : 0	
	Minor2		Major1		Major2	_
Conflicting Flow All	953	581	643	0	-	0
Stage 1	581	-	-	-	-	-
Stage 2	372	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.227	-	-	-
Pot Cap-1 Maneuver	289	515	937	-	-	-
Stage 1	561	_	-	-	-	-
Stage 2	699	-	_	-	_	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	286	515	937	_	_	_
Mov Cap-1 Maneuver		-	-	_	_	_
Stage 1	557		_		_	
Stage 2	699		_	_	_	
Staye 2	099	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	24.49		0.15		0	
HCM LOS	С					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		31	-		-	-
HCM Lane V/C Ratio		0.007	-	0.38	-	-
HCM Ctrl Dly (s/v)		8.9	0	24.5	-	-
HCM Lane LOS		Α	Α	С	-	-

Intersection						
Int Delay, s/veh	0.1					
			VAIDT	WED	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	₽		Y	
Traffic Vol, veh/h	0	73	109	1	1	0
Future Vol, veh/h	0	73	109	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	э,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	104	156	1	1	0
N. 4. ' . ' . ' (N. 4)'					<i>I</i> : 0	
	Major1		Major2		Minor2	
Conflicting Flow All	157	0	-	0	261	156
Stage 1	-	-	-	-	156	-
Stage 2	-	-	-	-	104	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1429	-	-	-	733	894
Stage 1	-	-	-	-	877	-
Stage 2	-	-	_	-	925	-
Platoon blocked, %		-	-	_		
Mov Cap-1 Maneuver	1429	_	_	_	733	894
Mov Cap-2 Maneuver	-	_	_	_	733	-
Stage 1	_	_	_	_	877	_
Stage 2	_	_		_	925	_
Olage 2					323	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.92	
HCM LOS					Α	
		- 5.		14/5-	\\/DD	0DL 4
Minor Lane/Major Mvr	nt	EBL	EBT	WBT		
Capacity (veh/h)		1429	-	-	-	
HCM Lane V/C Ratio		-	-	-	-	0.002
HCM Ctrl Dly (s/v)		0	-	-	-	9.9
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	_	-	0

Intersection Capacity Worksheets: Year 2028 Background + Project (without Moonlit Meadows)

Intersection												
Int Delay, s/veh	8.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4		1.00	4	1,51	,,,,,,,	4	11211	UDL	4	ODIN
Traffic Vol, veh/h	45	535	14	49	135	1	15	12	105	8	6	11
Future Vol, veh/h	45	535	14	49	135	1	15	12	105	8	6	11
Conflicting Peds, #/hr	0	0	4	4	0	0	1	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	83	83	83	77	77	77	59	59	59	57	57	57
Heavy Vehicles, %	6	6	6	12	12	12	7	7	7	1	1	1
Mvmt Flow	54	645	17	64	175	1	25	20	178	14	11	19
Major/Minor N	Major1		ı	Major2		ı	Minor1			Minor2		
Conflicting Flow All	177	0	0	665	0	0	1074	1069	657	1066	1077	177
Stage 1	-	-	-	-	-	-	765	765	-	303	303	-
Stage 2	-	-	-	-	-	-	309	304	-	763	774	-
Critical Hdwy	4.16	-	-	4.22	-	-	7.17	6.57	6.27	7.11	6.51	6.21
Critical Hdwy Stg 1	-	-	-	-	-	-	6.17	5.57	-	6.11	5.51	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.17	5.57	-	6.11	5.51	-
Follow-up Hdwy	2.254	-	-	2.308	-	-	3.563	4.063	3.363	3.509	4.009	3.309
Pot Cap-1 Maneuver	1376	-	-	878	-	-	193	217	456	201	220	869
Stage 1	-	-	-	-	-	-	388	405	-	708	665	-
Stage 2	-	-	-	-	-	-	691	654	-	398	410	-
Platoon blocked, %		-	-		-	-		,				
Mov Cap-1 Maneuver	1376	-	-	875	-	-	154	186	454	95	189	868
Mov Cap-2 Maneuver	-	-	-	-	-	-	154	186	-	95	189	-
Stage 1	-	-	-	-	-	-	362	378	-	651	612	-
Stage 2	-	-	-	-	-	-	610	601	-	215	383	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0.59			2.5			34.68			28.81		
HCM LOS							D			D		
Minor Lane/Major Mvm	it 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		336	136	-	-	476	-	-	195			
HCM Lane V/C Ratio		0.666		-	-	0.073	-		0.225			
HCM Ctrl Dly (s/v)		34.7	7.7	0	-	9.4	0	-	28.8			
HCM Lane LOS		D	Α	Α	-	Α	Α	-	D			
HCM 95th %tile Q(veh)		4.5	0.1	-	-	0.2	-	-	8.0			

Intersection												
Int Delay, s/veh	3.8											
		EDT	EDD	WDI	WDT	WDD	NIDI	NDT	NDD	CDI	CDT	SBR
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBK
Lane Configurations	4.4	र्		4	₩,	^	\	^	4	4	4	40
Traffic Vol, veh/h	11	4	55	1	3	3	62	128	4	4	85	16
Future Vol, veh/h	11	4	55	1	3	3	62	128	4	4	85	16
Conflicting Peds, #/hr	0	0	6	6	0	0	_ 13	0	0	0	0	_ 13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storag	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	57	57	57	50	50	50	59	59	59	60	60	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mvmt Flow	19	7	96	2	6	6	105	217	7	7	142	27
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	611	615	174	595	625	220	181	0	0	224	0	0
Stage 1	181	181	-	431	431	220	101	<u> </u>	U .	224	-	-
Stage 2	430	434	_	165	195			_		_	_	_
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	_	4.14		<u>-</u>
Critical Hdwy Stg 1	6.19	5.59	0.29	6.27	5.67	0.57	4.12	_	-	4.14	_	-
Critical Hdwy Stg 2	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
, ,	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-		2.236	-	-
Follow-up Hdwy			852			783	1394	-	-	1333	-	-
Pot Cap-1 Maneuver	396	397		395	382	103	1394	-	-	1333	-	-
Stage 1	804	736	-	575	558	-	-	-	-	-	-	-
Stage 2	590	569	-	803	712	-	-	-	-	-	-	-
Platoon blocked, %	254	200	000	242	247	700	1077	-	-	1222	-	-
Mov Cap-1 Maneuver		360	836	313	347	783	1377	-	-	1333	-	-
Mov Cap-2 Maneuver		360	-	313	347	-	-	-	-	-	-	-
Stage 1	790	723	-	531	516	-	-	-	-	-	-	-
Stage 2	534	526	-	696	700	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	11.18			13.32			2.5			0.29		
HCM LOS	В			В			,					
Minor Lane/Major Mvr	nt	NBL	NBT	NRR	FBI n1	EBLn2V	VBI n1	SBL	SBT	SBR		
Capacity (veh/h)		1377		-		836	446	66		<u> </u>		
HCM Lane V/C Ratio		0.076	-				0.031		-	-		
HCM Ctrl Dly (s/v)		7.8	-	-	16	9.9	13.3	7.7	0			
HCM Lane LOS		7.0 A			C	9.9 A	13.3 B	Α.				
	2)	0.2	-	-	0.2	0.4	0.1	0	Α	-		
HCM 95th %tile Q(veh	1)	0.2	-	-	0.2	0.4	0.1	U	-	-		

Int Delay, s/veh	Intersection						
Lane Configurations		5.3					
Lane Configurations	Movement	FRI	FRR	NRI	NRT	SRT	SBR
Traffic Vol, veh/h 67 24 41 125 36 102 Future Vol, veh/h 67 24 41 125 36 102 Conflicting Peds, #/hr 0 0 2 0 0 2 Sign Control Stop Stop Free				NDL			אומט
Future Vol, veh/h 67 24 41 125 36 102 Conflicting Peds, #/hr 0 0 2 0 0 2 Sign Control Stop Stop Free				11			102
Conflicting Peds, #/hr Stop Stop Free Fre							
Sign Control Stop RT Channelized Stop None Free Free Free Free Free Free RT Channelized - None - None - None - None Pol Pol Pol Ander Dold Solution None Solution None Solution None Solution None None <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
RT Channelized							
Storage Length							
Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 37 37 70 70 59 59 Heavy Vehicles, % 1 1 3 3 2 2 Mvmt Flow 181 65 59 179 61 173 Major/Minor Minor Major1 Major2 Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 - </td <td></td> <td></td> <td></td> <td>-</td> <td>None</td> <td>-</td> <td>None</td>				-	None	-	None
Grade, % 0 - - 0 0 - Peak Hour Factor 37 37 70 70 59 59 Heavy Vehicles, % 1 1 3 3 2 2 Mvmt Flow 181 65 59 179 61 173 Major/Minor Minor Major1 Major2 Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 -				-	-	-	-
Peak Hour Factor 37 37 70 70 59 59 Heavy Vehicles, % 1 1 3 3 2 2 Mvmt Flow 181 65 59 179 61 173 Major/Minor Minor 8 559 179 61 173 Major/Minor Minor Major1 Major2 Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 -		_		-			
Heavy Vehicles, %	-			-			
Mymt Flow 181 65 59 179 61 173 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 - - - - - Stage 2 296 - - - - - Critical Hdwy 6.41 6.21 4.13 - - - Critical Hdwy Stg 1 5.41 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 - - - - - Stage 2 296 - - - - - Critical Hdwy 6.41 6.21 4.13 - - - Critical Hdwy Stg 1 5.41 - - - - - - Critical Hdwy Stg 2 5.41 -							
Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 -	Mvmt Flow	181	65	59	179	61	173
Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 -							
Conflicting Flow All 445 149 236 0 - 0 Stage 1 149 -	Major/Minor	Minor		Major1	N	Major?	
Stage 1 149 -							0
Stage 2 296 -	•						
Critical Hdwy 6.41 6.21 4.13 - - Critical Hdwy Stg 1 5.41 - - - - Critical Hdwy Stg 2 5.41 - - - - - Follow-up Hdwy 3.509 3.309 2.227 - - - Pot Cap-1 Maneuver 572 900 1325 -	•			-			
Critical Hdwy Stg 1 5.41				-	-		
Critical Hdwy Stg 2 5.41				4.13	-	-	-
Follow-up Hdwy 3.509 3.309 2.227 Stage 1 881			-	-	-	-	-
Pot Cap-1 Maneuver 572 900 1325 - <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>				-	-	-	-
Stage 1 881 -					-	-	-
Stage 2 757 -	Pot Cap-1 Maneuver		900	1325	-	-	-
Platoon blocked, %	Stage 1	881	-	-	-	-	-
Mov Cap-1 Maneuver 542 898 1323 - - Mov Cap-2 Maneuver 542 - - - - Stage 1 836 - - - - - Stage 2 756 - - - - - Approach EB NB SB HCM Ctrl Dly, s/v 13.45 1.94 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	Stage 2	757	-	-	-	-	-
Mov Cap-2 Maneuver 542 -	Platoon blocked, %				-	-	-
Mov Cap-2 Maneuver 542 -		r 542	898	1323	-	-	-
Stage 1 836 -					_	_	_
Stage 2 756 -				_	_	_	_
Approach EB NB SB HCM Ctrl Dly, s/v 13.45 1.94 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	_			_	_	_	_
HCM Ctrl Dly, s/v 13.45 1.94 0	Clago 2	100					
HCM Ctrl Dly, s/v 13.45 1.94 0							
Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	Approach					SB	
Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	•	13.45		1.94		0	
Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	HCM LOS	В					
Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -							
Capacity (veh/h) 445 - 542 898 - HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -	Minor Lang/Major My	ımt	NDI	NDT	EDI n1 [EDI n2	CDT
HCM Lane V/C Ratio 0.044 - 0.334 0.072 - HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -		THU		INDI			
HCM Ctrl Dly (s/v) 7.8 0 14.9 9.3 -				-			
		1					
	HCM Lane LOS		Α	Α	В	Α	-
HCM 95th %tile Q(veh) 0.1 - 1.5 0.2 -	HCM 95th %tile Q(vel	:h)	0.1	-	1.5	0.2	-

Intersection						
Int Delay, s/veh	2.8					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			41		40
Traffic Vol, veh/h	66	2	0	101	41	19
Future Vol, veh/h	66	2	0	101	41	19
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	88	3	0	131	80	37
	Minor2		Major1		/lajor2	
Conflicting Flow All	230	99	118	0	-	0
Stage 1	99	-	-	-	-	-
Stage 2	131	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	_	-	_
Pot Cap-1 Maneuver	760	959	1446	_	_	_
Stage 1	927	-	-	_	_	_
Stage 2	897	_	_	_	_	_
Platoon blocked, %	001			_	_	_
Mov Cap-1 Maneuver	760	959	1446	-	_	
•	760		1440	-	-	
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	927	-	-	-	-	-
Stage 2	897	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.34		0		0	
HCM LOS	В		·		v	
TIOM EGG						
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1446	-	765	-	-
HCM Lane V/C Ratio		-	-	0.119	-	-
HCM Ctrl Dly (s/v)		0	-		-	-
HCM Lane LOS		A	_	В	_	-
HCM 95th %tile Q(veh	1)	0	-		_	_
TOW JOHN JUHIC Q(VEI	'/	U		J. T		

Intersection						
Int Delay, s/veh	2.4					
		EDT	MOT	14/55	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	₽		Y	
Traffic Vol, veh/h	0	45	10	9	23	0
Future Vol, veh/h	0	45	10	9	23	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	60	13	12	31	0
	Major1		//ajor2		Minor2	
Conflicting Flow All	25	0	-	0	79	19
Stage 1	-	-	-	-	19	-
Stage 2	-	-	-	-	60	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1596	-	_	_	928	1065
Stage 1	-	_	-	_	1009	-
Stage 2	_	_	_	_	968	_
Platoon blocked, %		_	_	_	000	
Mov Cap-1 Maneuver	1596	_	_	_	928	1065
Mov Cap-1 Maneuver		_	_	_	928	-
Stage 1	-	_	-	_	1009	_
	-	-	_	-	968	
Stage 2	-	-	-	-	900	-
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.01	
HCM LOS	•				Α	
110111 200					,,	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1596	-	-	-	
						0.022
HCM Lane V/C Ratio		-	-	-	-	0.033
HCM Lane V/C Ratio		0	-	-	-	9

Intersection												
Int Delay, s/veh	3.2											
<u> </u>												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	19	174	18	94	538	4	9	7	51	4	11	30
Future Vol, veh/h	19	174	18	94	538	4	9	7	51	4	11	30
Conflicting Peds, #/hr	2	0	3	3	0	2	5	0	0	0	0	5
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	85	85	85	75	75	75	85	85	85
Heavy Vehicles, %	6	6	6	4	4	4	7	7	7	5	5	5
Mvmt Flow	21	193	20	111	633	5	12	9	68	5	13	35
Major/Minor N	/lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	640	0	0	216	0	0	1114	1109	206	1099	1117	642
Stage 1	-	-		- 10	-	-	249	249	-	858	858	-
Stage 2	_	_	_	_	_	_	866	861	_	240	259	_
Critical Hdwy	4.16	_	_	4.14	_	_	7.17	6.57	6.27	7.15	6.55	6.25
Critical Hdwy Stg 1	T. 10	<u>-</u>	_	- 1.17	_	_	6.17	5.57	0.21	6.15	5.55	0.20
Critical Hdwy Stg 2	_	_	_	_	_	_	6.17	5.57	_	6.15	5.55	_
	2.254	<u>-</u>	_	2.236	_	_	3.563	4.063	3.363	3.545	4.045	3.345
Pot Cap-1 Maneuver	926	_	_	1342	_	_	181	205	822	187	205	469
Stage 1	J20 -	<u>-</u>	_	-	_	_	744	692	-	347	369	-
Stage 2	_	_	_	_	_	_	341	366	_	757	688	_
Platoon blocked, %		_	_		_	_	UT I	000		101	300	
Mov Cap-1 Maneuver	924	_	_	1338	_	_	132	173	819	139	173	465
Mov Cap-1 Maneuver	JZ-T	_	_	-	_	_	132	173	-	139	173	-
Stage 1	_	_	_		_	_	723	672	_	302	321	_
Stage 2	_	_	_	_	_	_	263	318	<u>-</u>	666	669	_
Olugo Z							200	010		300	303	
Annragah	ED			WD			ND			CD		
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	0.81			1.17			16.86			20.36		
HCM LOS							С			С		
Minor Lane/Major Mvm	t 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		392	159	-	-	266	-	-	287			
HCM Lane V/C Ratio		0.228	0.023	-	-	0.083	-	-	0.184			
HCM Ctrl Dly (s/v)		16.9	9	0	-	7.9	0	-	20.4			
HCM Lane LOS		С	Α	Α	-	Α	Α	-	С			
HCM 95th %tile Q(veh)		0.9	0.1	-	-	0.3	-	-	0.7			

Intersection												
Int Delay, s/veh	4.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7	TIDE	4	WDIX	ħ	7>	HOIL	ODL	4	ODIT
Traffic Vol, veh/h	7	11	61	2	4	6	53	55	6	11	97	15
Future Vol, veh/h	7	11	61	2	4	6	53	55	6	11	97	15
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	69	60	60	60	59	59	59	83	83	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	10	16	88	3	7	10	90	93	10	13	117	18
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	430	436	133	435	440	98	136	0	0	103	0	0
Stage 1	153	153	-	278	278	-	-	-	_	-	-	-
Stage 2	276	283	-	157	162	-	_	-	_	-	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	527	506	903	533	512	960	1430	-	-	1476	-	-
Stage 1	837	761	-	731	682	-	-	-	-	-	-	-
Stage 2	719	668	-	847	766	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	477	469	897	429	475	960	1429	-	-	1476	-	-
Mov Cap-2 Maneuver	477	469	-	429	475	-	-	-	-	-	-	-
Stage 1	828	753	-	685	639	-	-	-	-	-	-	-
Stage 2	660	626	-	736	757	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	10.28			10.99			3.57			0.67		
HCM LOS	В			В								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1429	-	-		897	621	157	-	-		
HCM Lane V/C Ratio		0.063	_				0.032		_	_		
HCM Ctrl Dly (s/v)		7.7	-	-		9.5	11	7.5	0	-		
HCM Lane LOS		Α	-	-	В	A	В	A	A	-		
HCM 95th %tile Q(veh)	0.2	-	-	0.2	0.3	0.1	0	-			

Intersection						
Int Delay, s/veh	1.4					
		EDD	NDI	NDT	ODT	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	<u></u>	7	_	4	- 1>	^
Traffic Vol, veh/h	21	4	0	92	157	3
Future Vol, veh/h	21	4	0	92	157	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	-	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	82	69	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	45	9	0	112	228	4
Maiaa/Miaa	N 4:		NA-:A		4-1-0	
	Minor2		Major1		Major2	
Conflicting Flow All	342	230	232	0	-	0
Stage 1	230	-	-	-	-	-
Stage 2	112	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.17	_	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.263	-	-	-
Pot Cap-1 Maneuver	656	812	1307	-	-	-
Stage 1	811	-	-	-	-	-
Stage 2	915	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	656	812	1307	-	-	-
Mov Cap-2 Maneuver		-	-	-	_	-
Stage 1	811	_	_	_	-	-
Stage 2	915	_	_	_	_	_
J	3.0					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	10.66		0		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NDT	EBLn1 E	EDI n2	SBT
	iit.					
Capacity (veh/h)		1307	-		812	-
HCM Lane V/C Ratio		-		0.068	0.01	-
HCM Ctrl Dly (s/v)		0	-		9.5	-
HCM Lane LOS	,	Α	-	В	A	-
HCM 95th %tile Q(veh	1)	0	-	0.2	0	-

Intersection	4.0					
Int Delay, s/veh	1.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	1→	
Traffic Vol, veh/h	35	1	1	58	102	59
Future Vol, veh/h	35	1	1	58	102	59
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	_	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storag	e,# 0	-	-	0	0	-
Grade, %	0	_	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	53	2	1	73	115	66
		_				
	141 0					
	Minor2		Major1		Major2	
Conflicting Flow All	224	148	181	0	-	0
Stage 1	148	-	-	-	-	-
Stage 2	76	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309		-	-	-
Pot Cap-1 Maneuver	767	902	1388	-	-	-
Stage 1	882	-	-	-	-	-
Stage 2	950	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	766	902	1388	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	881	-	-	-	-	-
Stage 2	950	-	-	-	-	-
Annroach	EB		NB		SB	
Approach						
HCM Ctrl Dly, s/v	10.04		0.13		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		31	-		-	-
HCM Lane V/C Ratio		0.001	-	0.071	_	-
HCM Ctrl Dly (s/v)		7.6	0	10	-	-
HCM Lane LOS		Α	Α	В	_	-

Intersection						
Int Delay, s/veh	1.4					
		CDT	MOT	WED	ODI	ODD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	•	4	1	00	Y	^
Traffic Vol, veh/h	0	21	40	20	15	0
Future Vol, veh/h	0	21	40	20	15	0
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	30	57	29	21	0
Majay/Minay	Main=1		Anin nO		Aire au O	
	Major1		Major2		Minor2	
Conflicting Flow All	86	0	-	0	101	71
Stage 1	-	-	-	-	71	-
Stage 2	-	-	-	-	30	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1517	-	-	-	902	997
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	998	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1517	-	_	-	902	997
Mov Cap-2 Maneuver		_	-	_	902	_
Stage 1	_	_	_	_	957	_
Stage 2	_	_	_	_	998	_
Olago L					000	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.09	
					Α	
HCM LOS						
HCM LOS						
	-4	EDI	FDT	WDT	WDD	ODI 4
Minor Lane/Major Mvr	nt	EBL	EBT	WBT		
Minor Lane/Major Mvr Capacity (veh/h)	nt	1517	-	-	-	902
Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio	nt	1517 -	<u>EBT</u> - -	-	-	902 0.024
Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	nt	1517 - 0	-	-	- - -	902 0.024 9.1
Minor Lane/Major Mvr Capacity (veh/h) HCM Lane V/C Ratio		1517 -	-	-	-	902 0.024

Intersection Capacity Worksheets: Year 2028 Background + Project (with Moonlit Meadows)

	ᄼ	→	•	←	•	†	>	ļ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Configurations	7	f)	7	₽		4		4	
Traffic Volume (vph)	45	535	66	135	30	12	8	6	
Future Volume (vph)	45	535	66	135	30	12	8	6	
Lane Group Flow (vph)	54	669	86	176	0	337	0	44	
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases		2		6		8		4	
Permitted Phases	2		6		8		4		
Detector Phase	2	2	6	6	8	8	4	4	
Switch Phase									
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	25.0	25.0	25.0	25.0	32.0	32.0	32.0	32.0	
Total Split (s)	28.0	28.0	28.0	28.0	32.0	32.0	32.0	32.0	
Total Split (%)	46.7%	46.7%	46.7%	46.7%	53.3%	53.3%	53.3%	53.3%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0		6.0		6.0	
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	Max	Max	Max	Max	None	None	None	None	
v/c Ratio	0.10	0.81	0.46	0.22		0.67		0.10	
Control Delay (s/veh)	9.7	23.7	22.7	10.0		17.3		8.7	
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0	
Total Delay (s/veh)	9.7	23.7	22.7	10.0		17.3		8.7	
Queue Length 50th (ft)	7	138	14	25		54		5	
Queue Length 95th (ft)	27	#353	#52	62		55		11	
Internal Link Dist (ft)		477		408		755		327	
Turn Bay Length (ft)	50		100						
Base Capacity (vph)	534	825	187	783		859		832	
Starvation Cap Reductn	0	0	0	0		0		0	
Spillback Cap Reductn	0	0	0	0		0		0	
Storage Cap Reductn	0	0	0	0		0		0	
Reduced v/c Ratio	0.10	0.81	0.46	0.22		0.39		0.05	

Intersection Summary

Cycle Length: 60

Actuated Cycle Length: 48.1

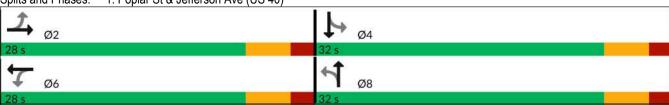
Natural Cycle: 65

Control Type: Semi Act-Uncoord

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 1: Poplar St & Jefferson Ave (US 40)



	•	→	•	✓	←	•	1	†	<i>></i>	/	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	4î		ሻ	4î			- 43•			- 43•	
Traffic Volume (veh/h)	45	535	20	66	135	1	30	12	157	8	6	11
Future Volume (veh/h)	45	535	20	66	135	1	30	12	157	8	6	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1722	1722	1722	1796	1796	1796	1885	1885	1885
Adj Flow Rate, veh/h	54	645	24	86	175	1	51	20	266	14	11	19
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.59	0.59	0.59	0.57	0.57	0.57
Percent Heavy Veh, %	6	6	6	12	12	12	7	7	7	1	1	1
Cap, veh/h	619	802	30	253	790	5	128	51	344	200	161	199
Arrive On Green	0.46	0.46	0.46	0.46	0.46	0.46	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	1167	1735	65	707	1711	10	144	177	1204	350	565	695
Grp Volume(v), veh/h	54	0	669	86	0	176	337	0	0	44	0	0
Grp Sat Flow(s),veh/h/ln	1167	0	1799	707	0	1720	1525	0	0	1610	0	0
Q Serve(g_s), s	1.4	0.0	15.2	5.6	0.0	2.9	4.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.3	0.0	15.2	20.8	0.0	2.9	9.6	0.0	0.0	0.9	0.0	0.0
Prop In Lane	1.00		0.04	1.00		0.01	0.15		0.79	0.32		0.43
Lane Grp Cap(c), veh/h	619	0	831	253	0	795	523	0	0	560	0	0
V/C Ratio(X)	0.09	0.00	0.80	0.34	0.00	0.22	0.64	0.00	0.00	0.08	0.00	0.00
Avail Cap(c_a), veh/h	619	0	831	253	0	795	913	0	0	936	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.0	0.0	11.0	19.9	0.0	7.7	15.5	0.0	0.0	12.5	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	8.2	3.6	0.0	0.6	1.3	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	6.4	1.1	0.0	1.0	3.1	0.0	0.0	0.3	0.0	0.0
Unsig. Movement Delay, s/veh	1											
LnGrp Delay(d), s/veh	9.2	0.0	19.1	23.5	0.0	8.3	16.8	0.0	0.0	12.5	0.0	0.0
LnGrp LOS	Α		В	С		Α	В			В		
Approach Vol, veh/h		723			262			337			44	
Approach Delay, s/veh		18.4			13.3			16.8			12.5	
Approach LOS		В			В			В			В	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.0		19.6		28.0		19.6				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		22.0		26.0		22.0		26.0				
Max Q Clear Time (g_c+l1), s		17.2		2.9		22.8		11.6				
Green Ext Time (p_c), s		2.0		0.2		0.0		2.0				
Intersection Summary												
HCM 7th Control Delay, s/veh			16.8									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	3.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
	EDL		EDK	WDL		WDK	INDL		INDIX	ODL		SDK
Lane Configurations	11	<u>4</u>		4	- ♣	2		}	1	1	444	16
Traffic Vol, veh/h		4	58	1	3	3	71 71	205 205	4	4	111	16 16
Future Vol, veh/h	11	4	58 6	1 6	3	0	13	205	4	4	111	13
Conflicting Peds, #/hr	0	0									0	
Sign Control RT Channelized	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free -	Free	Free	Free	Free
		-	None 100	-	-	None	-	-	None	-	-	None
Storage Length Veh in Median Storage	- 4	_	100	-	_	-	60	0	-	-	0	-
	e,# -	0			0					-	0	
Grade, % Peak Hour Factor	57	57	- 57	50	50	50	59	0 59	59	60	60	60
	9	9	9	17	17	17	2	2	2	4	4	
Heavy Vehicles, % Mvmt Flow	19	7	102	2	6	6	120	347	7	7	185	4 27
IVIVIIIL FIUW	19	1	102		O	Ö	120	341	1	1	100	21
Major/Minor	Minor2			Minor1			Major1		ا	Major2		
Conflicting Flow All	816	820	217	799	830	351	225	0	0	354	0	0
Stage 1	225	225	-	592	592	-	-	-	-	-	-	-
Stage 2	591	595	-	208	238	-	-	-	-	-	-	-
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.19	5.59	-	6.27	5.67	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.19	5.59	-	6.27	5.67	-	_	-	-	-	-	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	288	302	805	286	290	660	1344	-	-	1193	-	-
Stage 1	762	705	-	468	471	-	-	-	-	-	-	-
Stage 2	481	481	-	761	681	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver		270	791	219	258	660	1327	-	-	1193	-	-
Mov Cap-2 Maneuver	249	270	-	219	258	-	-	-	-	-	-	-
Stage 1	748	692	-	425	428	-	-	-	-	-	-	-
Stage 2	428	438	-	649	669	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	12.39			16.12			2.02			0.25		
HCM LOS	В			C			2.02			0.20		
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1327		-		791	338	54		_		
HCM Lane V/C Ratio		0.091	_				0.041		_	_		
HCM Ctrl Dly (s/v)		8	-	_		10.2	16.1	8	0	_		
HCM Lane LOS		A	-	-	C	В	C	A	A	-		
HCM 95th %tile Q(veh	1)	0.3	-	-	0.3	0.4	0.1	0	-	-		
7000 00 00	7	0.0			0.0	V. 1	V. 1					

Internaction						
Intersection	- ,					
Int Delay, s/veh	5.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7		4	f)	
Traffic Vol, veh/h	67	26	46	211	65	102
Future Vol, veh/h	67	26	46	211	65	102
Conflicting Peds, #/hr	0	0	2	0	0	2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	37	37	70	70	59	59
Heavy Vehicles, %	1	1	3	3	2	2
Mvmt Flow	181	70	66	301	110	173
		10		001	110	
	Minor2		Major1		Major2	
Conflicting Flow All	631	199	285	0	-	0
Stage 1	199	-	-	-	-	-
Stage 2	433	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.227	-	-	-
Pot Cap-1 Maneuver	446	845	1271	-	-	-
Stage 1	837	-	-	-	-	-
Stage 2	656	_	_	-	-	-
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver	417	843	1269	_	_	_
Mov Cap-2 Maneuver	417	-	-	_	_	_
Stage 1	784	_	_	_	_	_
Stage 2	655	_	_	_	_	_
Olago Z	000					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	17.18		1.43		0	
HCM LOS	С					
Minor Lane/Major Mvn	ot	NBL	NDT	EBLn1	EDI n2	SBT
	iii.					
Capacity (veh/h)		322	-			-
HCM Ctrl Dlv (a/v)		0.052		0.434		-
HCM Ctrl Dly (s/v)		8	0	20.1	9.7	-
HCM Lane LOS		A	Α	C	A	-
HCM 95th %tile Q(veh	1)	0.2	-	2.1	0.3	-

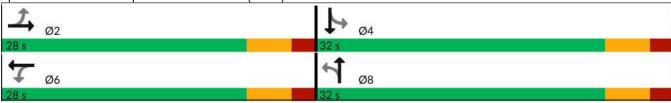
Intersection						
Int Delay, s/veh	3.8					
•					057	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	₽	
Traffic Vol, veh/h	123	2	0	135	53	38
Future Vol, veh/h	123	2	0	135	53	38
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mvmt Flow	164	3	0	175	104	75
N.A ' /N.A'	N		M		4-1-0	
	Minor2		Major1		/lajor2	
Conflicting Flow All	317	141	178	0	-	0
Stage 1	141	-	-	-	-	-
Stage 2	175	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309		-	-	-
Pot Cap-1 Maneuver	679	909	1374	-	-	-
Stage 1	888	-	-	-	-	-
Stage 2	858	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	679	909	1374	-	-	-
Mov Cap-2 Maneuver		-	_	_	_	_
Stage 1	888	_	_	-	-	-
Stage 2	858	_	-	_	_	_
otago 2	000					
			ND		0.0	
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	11.99		0		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1374	-		-	-
HCM Lane V/C Ratio		13/4		0.245	-	-
HCM Ctrl Dly (s/v)		0	-		_	
HCM Lane LOS				12 B		-
	, \	A	-		-	-
HCM 95th %tile Q(veh	1)	0	-	1	-	-

Intersection						
Int Delay, s/veh	1.4					
	EBL	EBT	WPT	WBR	CDI	SBR
Movement	ERF		WBT	WRK	SBL	SRK
Lane Configurations	٥	4	∱	٥	Y	۸
Traffic Vol, veh/h	0	102	29	9	23	0
Future Vol, veh/h	0	102	29	9	23	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0		0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	136	39	12	31	0
Major/Minor N	Major1	١	/lajor2	N	Minor2	
Conflicting Flow All	51	0	-	0	181	45
Stage 1	-	-		-	45	-
Stage 2	_	_	_	_	136	_
Critical Hdwy	4.11	_	-	_	6.4	6.2
Critical Hdwy Stg 1	4.11	_	_	_	5.4	0.2
Critical Hdwy Stg 2		-	-	-	5.4	-
	2.209	-	_	-	3.5	3.3
Pot Cap-1 Maneuver	1562	-	-		813	1031
	1302	-	_	-	983	1031
Stage 1	-	-	-	-	895	
Stage 2	-	-	-	-	090	-
Platoon blocked, %	4500	-	-	-	040	1001
Mov Cap-1 Maneuver	1562	-	-	-	813	1031
Mov Cap-2 Maneuver	-	-	-	-	813	-
Stage 1	-	-	-	-	983	-
Stage 2	-	-	-	-	895	-
			WB		SB	
Approach	EB		770			
Approach HCM Ctrl Dlv_s/v	EB 0				96	
HCM Ctrl Dly, s/v	EB 0		0		9.6 A	
					9.6 A	
HCM Ctrl Dly, s/v HCM LOS	0		0		Α	
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvm	0	EBL		WBT	A	
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvm Capacity (veh/h)	0	EBL 1562	0	WBT -	A WBR	813
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	0	1562 -	0	WBT - -	A WBR	813 0.038
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Ctrl Dly (s/v)	0	1562 - 0	0 EBT	-	A WBR	813 0.038 9.6
HCM Ctrl Dly, s/v HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	0 t	1562 -	0 EBT -	-	A WBR S	813 0.038

	۶	→	•	←	4	†	>	↓	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Configurations	¥	fa fa	ሻ	4		4		4	
Traffic Volume (vph)	19	174	154	538	19	7	4	11	
Future Volume (vph)	19	174	154	538	19	7	4	11	
Lane Group Flow (vph)	21	231	181	638	0	153	0	53	
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases		2		6		8		4	
Permitted Phases	2		6		8		4		
Detector Phase	2	2	6	6	8	8	4	4	
Switch Phase									
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Minimum Split (s)	25.0	25.0	25.0	25.0	32.0	32.0	32.0	32.0	
Total Split (s)	28.0	28.0	28.0	28.0	32.0	32.0	32.0	32.0	
Total Split (%)	46.7%	46.7%	46.7%	46.7%	53.3%	53.3%	53.3%	53.3%	
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0		6.0		6.0	
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	Max	Max	Max	Max	None	None	None	None	
v/c Ratio	0.06	0.22	0.27	0.57		0.36		0.14	
Control Delay (s/veh)	6.4	6.3	7.9	10.8		8.2		8.8	
Queue Delay	0.0	0.0	0.0	0.0		0.0		0.0	
Total Delay (s/veh)	6.4	6.3	7.9	10.8		8.2		8.8	
Queue Length 50th (ft)	2	27	24	109		7		4	
Queue Length 95th (ft)	10	57	51	183		29		21	
Internal Link Dist (ft)		477		408		755		327	
Turn Bay Length (ft)	50		100						
Base Capacity (vph)	371	1066	681	1110		912		913	
Starvation Cap Reductn	0	0	0	0		0		0	
Spillback Cap Reductn	0	0	0	0		0		0	
Storage Cap Reductn	0	0	0	0		0		0	
Reduced v/c Ratio	0.06	0.22	0.27	0.57		0.17		0.06	
Intersection Summary									
Cycle Length: 60									
Actuated Cycle Length: 44.6									
Natural Cycle: 60									
Control Type: Semi Act-Unco	oord								

Control Type: Semi Act-Uncoord





nmary 1: Poplar St & Jefferson Ave (US 40) 2028 Background + Project (with Moonlit) - PM Peak Hour

	۶	→	•	•	+	4	•	†	/	/	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	¥	f)		J.	f)			4			44-	
Traffic Volume (veh/h)	19	174	34	154	538	4	19	7	89	4	11	30
Future Volume (veh/h)	19	174	34	154	538	4	19	7	89	4	11	30
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1841	1841	1841	1796	1796	1796	1826	1826	1826
Adj Flow Rate, veh/h	21	193	38	181	633	5	25	9	119	5	13	35
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85	0.75	0.75	0.75	0.85	0.85	0.85
Percent Heavy Veh, %	6	6	6	4	4	4	7	7	7	5	5	5
Cap, veh/h	339	731	144	639	907	7	124	48	273	100	114	244
Arrive On Green	0.50	0.50	0.50	0.50	0.50	0.50	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	765	1469	289	1129	1824	14	129	209	1181	49	494	1055
Grp Volume(v), veh/h	21	0	231	181	0	638	153	0	0	53	0	0
Grp Sat Flow(s), veh/h/ln	765	0	1758	1129	0	1838	1518	0	0	1598	0	0
Q Serve(g_s), s	1.0	0.0	3.4	4.9	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.8	0.0	3.4	8.2	0.0	11.8	3.7	0.0	0.0	1.2	0.0	0.0
Prop In Lane	1.00		0.16	1.00		0.01	0.16		0.78	0.09		0.66
Lane Grp Cap(c), veh/h	339	0	875	639	0	914	446	0	0	459	0	0
V/C Ratio(X)	0.06	0.00	0.26	0.28	0.00	0.70	0.34	0.00	0.00	0.12	0.00	0.00
Avail Cap(c_a), veh/h	339	0	875	639	0	914	974	0	0	1013	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	13.5	0.0	6.4	8.8	0.0	8.6	14.5	0.0	0.0	13.5	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.7	1.1	0.0	4.4	0.5	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	1.1	1.1	0.0	4.3	1.2	0.0	0.0	0.4	0.0	0.0
Unsig. Movement Delay, s/veh	V. <u> </u>	0.0			0.0			0.0	0.0	• • • • • • • • • • • • • • • • • • • •	0.0	0.0
LnGrp Delay(d), s/veh	13.8	0.0	7.2	9.9	0.0	13.0	14.9	0.0	0.0	13.6	0.0	0.0
LnGrp LOS	В	0.0	A	A	0.0	В	В		0.0	В	0.0	0.0
Approach Vol, veh/h		252	, ,	, ,	819			153			53	
Approach Delay, s/veh		7.7			12.3			14.9			13.6	
Approach LOS		Α.			12.3 B			В			В	
··												
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		28.0		16.2		28.0		16.2				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		22.0		26.0		22.0		26.0				
Max Q Clear Time (g_c+l1), s		14.8		3.2		13.8		5.7				
Green Ext Time (p_c), s		0.8		0.2		3.2		0.9				
Intersection Summary												
HCM 7th Control Delay, s/veh			11.8									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	3.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7		4			- ↑			4	
Traffic Vol, veh/h	7	11	70	2	4	6	59	109	6	11	183	15
Future Vol, veh/h	7	11	70	2	4	6	59	109	6	11	183	15
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	<u>-</u>	None	-	-	None	_	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	е,# -	0	-	-	0	-	-	0	_	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	69	60	60	60	59	59	59	83	83	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	10	16	101	3	7	10	100	185	10	13	220	18
Major/Minor	Minor2	Minor1					Major1		1			
Conflicting Flow All	645	652	237	651	656	190	240	0	0	195	0	0
Stage 1	257	257	-	390	390	-	-	-	-	-	-	-
Stage 2	388	395	-	261	266	-	-	-	-	-	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	_	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	378	381	790	383	387	855	1310	-	-	1366	-	-
Stage 1	737	686	-	636	610	-	-	-	-	-	-	-
Stage 2	626	596	-	746	691	_	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	335	347	785	290	353	855	1309	-	-	1366	-	-
Mov Cap-2 Maneuver	335	347	-	290	353	-	-	-	-	-	-	-
Stage 1	728	677	-	588	563	-	-	-	-	-	-	-
Stage 2	564	551	-	624	682	-	-	-	-	-	-	-
-												
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	11.51			12.91			2.71			0.4		
HCM LOS	В			В								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBL _{n1}	SBL	SBT	SBR		
Capacity (veh/h)		1309	-	-	343	785	475	93	-	-		
HCM Lane V/C Ratio		0.076	-	-	0.076	0.129	0.042	0.01	-	-		
HCM Ctrl Dly (s/v)		8	-	-	16.4	10.3	12.9	7.7	0	-		
HCM Lane LOS		Α	-	-	С	В	В	Α	Α	-		
HCM 95th %tile Q(veh	1)	0.2	-	-	0.2	0.4	0.1	0	-	-		
,	•											

Int Delay, s/veh	Intersection						
Bear		1.1					
Lane Configurations		EDI	EDD	NDI	NDT	CDT	CDD
Traffic Vol, veh/h 21 4 0 152 252 3 Future Vol, veh/h 21 4 0 152 252 3 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free B B A <td></td> <td></td> <td></td> <td>INDL</td> <td></td> <td></td> <td>SDK</td>				INDL			SDK
Future Vol, veh/h Conflicting Peds, #/hr Conflicting Storage, # Conflicting Flow All Conflicting Howy Conflicting How				٥			2
Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Stop Stop Free Ge 69 69 69 69 69 69			-				
Sign Control Stop RT Channelized Stop None Free RT Channelized Free RT Channelized None None <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>			•				
RT Channelized			~			~	
Storage Length 0 0 - 0 0 - - - 0 0 - - - 0 0 - - - 0 0 - - - - 0 0 - - - - 9 0 185 365 4 Major/Minor Minor Minor Major1 Major2 -							
Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 47 47 82 82 69 69 Heavy Vehicles, % 1 1 7 7 3 3 Mwmt Flow 45 9 0 185 365 4 Major/Minor Minor Minor Major Major Major 4 Major Minor Major Major Major Major Major 4 Major Minor Major Major Major Major Major 4							None
Grade, % 0 - - 0 0 - Peak Hour Factor 47 47 82 82 69 69 Heavy Vehicles, % 1 1 7 7 3 3 Mwmt Flow 45 9 0 185 365 4 Major/Minor Minor Major Major Major 4 Major Minor Major Major Major 4 Major Minor Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major Major		-					-
Peak Hour Factor 47 47 82 82 69 69 Heavy Vehicles, % 1 1 7 7 3 3 Mwmt Flow 45 9 0 185 365 4 Major/Minor Minor Major1 Major2 Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 -		-					
Heavy Vehicles, %	-						
Mymt Flow 45 9 0 185 365 4 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 -							
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 - - - - - Stage 2 185 - - - - - Critical Hdwy 6.41 6.21 4.17 - - - Critical Hdwy Stg 1 5.41 - - - - - - Critical Hdwy Stg 2 5.41 -			-				
Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 -	Mvmt Flow	45	9	0	185	365	4
Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 -							
Conflicting Flow All 553 367 370 0 - 0 Stage 1 367 -	Maior/Minor	Minor2		Maior1	N	Maior2	
Stage 1 367 -							0
Stage 2 185 -							
Critical Hdwy 6.41 6.21 4.17 - - Critical Hdwy Stg 1 5.41 - - - - Critical Hdwy Stg 2 5.41 - - - - - Follow-up Hdwy 3.509 3.309 2.263 - <				_	_	_	_
Critical Hdwy Stg 1 5.41 -				4 17	_	_	_
Critical Hdwy Stg 2 5.41 -				-	_	_	_
Follow-up Hdwy 3.509 3.309 2.263				_	_		_
Pot Cap-1 Maneuver			3 309	2 263	_	_	_
Stage 1 703 -					_		_
Stage 2 849 -	•			-	_		_
Platoon blocked, %				_	_		_
Mov Cap-1 Maneuver 496 680 1162 - <td></td> <td>043</td> <td></td> <td></td> <td>_</td> <td></td> <td>_</td>		043			_		_
Mov Cap-2 Maneuver 496 -		106	680	1162			
Stage 1 703 -				1102	-		-
Stage 2 849 -				-	-		-
Approach EB NB SB HCM Ctrl Dly, s/v 12.56 0 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -	•			-	-		-
HCM Ctrl Dly, s/v 12.56 0 0 0	Stage 2	849	-	-	-	-	-
HCM Ctrl Dly, s/v 12.56 0 0 0							
Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -	Approach	EB		NB		SB	
Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -	HCM Ctrl Dly, s/v	12.56		0		0	
Minor Lane/Major Mvmt NBL NBT EBLn1 EBLn2 SBT Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -	HCM LOS						
Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -							
Capacity (veh/h) 1162 - 496 680 - HCM Lane V/C Ratio - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -	NA' I /NA - ' NA	. 1	NDI	NDT	-DL .4.F	-DI .O	ODT
HCM Lane V/C Ratio - - 0.09 0.013 - HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B		nt					
HCM Ctrl Dly (s/v) 0 - 13 10.4 - HCM Lane LOS A - B B -			1162	-			-
HCM Lane LOS A - B B -							
HCM 95th %tile Q(veh) 0 - 0.3 0 -							
710111 00th 70th Q(1011)	HCM 95th %tile Q(veh	1)	0	-	0.3	0	-

Intersection						
Int Delay, s/veh	2.6					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	1	440
Traffic Vol, veh/h	73	1	1	80	137	119
Future Vol, veh/h	73	1	1	80	137	119
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	111	2	1	101	154	134
		_		_		
	Minor2		Major1		/lajor2	
Conflicting Flow All	325	221	288	0	-	0
Stage 1	221	-	-	-	-	-
Stage 2	104	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309	2.227	-	-	-
Pot Cap-1 Maneuver	671	821	1269	-	-	-
Stage 1	818	-	-	-	-	_
Stage 2	923	_	-	_	-	-
Platoon blocked, %	320			_	_	_
Mov Cap-1 Maneuver	671	821	1269			
Mov Cap-1 Maneuver		021	1203		_	
•	817	-	-	-	_	-
Stage 1			-	-	-	_
Stage 2	923	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	11.42		0.1		0	
HCM LOS	В		V. 1			
	U					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		22	-	672	-	-
HCM Lane V/C Ratio		0.001	-	0.167	-	-
HCM Ctrl Dly (s/v)		7.8	0		-	-
HCM Lane LOS		A	A	В	_	-
HCM 95th %tile Q(veh	1)	0	-	0.6	_	_
TOWN JOHN JUHIC Q(VCI	'/	U		0.0		

Intersection						
Int Delay, s/veh	0.8					
		EDT	MOT	WDD	ODI	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	4	•	Y	
Traffic Vol, veh/h	0	59	100	20	15	0
Future Vol, veh/h	0	59	100	20	15	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	_
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	84	143	29	21	0
	Major1		//ajor2		/linor2	
Conflicting Flow All	171	0	-	0	241	157
Stage 1	-	-	-	-	157	-
Stage 2	-	-	-	-	84	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1412	_	-	_	751	894
Stage 1	-	_	-	-	876	-
Stage 2	_	_	_	_	944	_
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	1412	_	_	_	751	894
Mov Cap-1 Maneuver	-	_	_	<u>-</u>	751	- 004
Stage 1	-		_	_	876	
_	_	_	_	_	944	_
Stage 2	-	_	-	-	944	-
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.93	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		1412	-	-	-	751
HCM Lane V/C Ratio		-	-	-	-	0.029
HCM Ctrl Dly (s/v)		0	-	-	-	9.9
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh)	0	-	-	-	0.1
7	,					

Intersection Capacity Worksheets: Year 2045 Background + Project (with Moonlit Meadows)

	۶	-	•	←	•	†	<i>></i>	>	↓
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations	7	f)	7	₽		ર્ન	7		4
Traffic Volume (vph)	55	630	136	160	83	15	348	10	10
Future Volume (vph)	55	630	136	160	83	15	348	10	10
Lane Group Flow (vph)	66	810	177	214	0	131	464	0	62
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	pm+ov	Perm	NA
Protected Phases	5	2	1	6		8	1		4
Permitted Phases	2		6		8		8	4	
Detector Phase	5	2	1	6	8	8	1	4	4
Switch Phase									
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.5	25.0	9.5	25.0	32.0	32.0	9.5	32.0	32.0
Total Split (s)	9.6	53.0	15.0	58.4	32.0	32.0	15.0	32.0	32.0
Total Split (%)	9.6%	53.0%	15.0%	58.4%	32.0%	32.0%	15.0%	32.0%	32.0%
Yellow Time (s)	3.5	4.0	3.5	4.0	4.0	4.0	3.5	4.0	4.0
All-Red Time (s)	1.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Lost Time (s)	4.5	6.0	4.5	6.0		6.0	4.5		6.0
Lead/Lag	Lead	Lag	Lead	Lag			Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes			Yes		
Recall Mode	None	Max	None	Max	None	None	None	None	None
v/c Ratio	0.09	0.85	0.55	0.21		0.62	0.78		0.22
Control Delay (s/veh)	5.4	28.8	13.0	9.6		47.5	28.3		22.5
Queue Delay	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Delay (s/veh)	5.4	28.8	13.0	9.6		47.5	28.3		22.5
Queue Length 50th (ft)	9	363	26	50		69	167		17
Queue Length 95th (ft)	24	#600	51	85		102	201		27
Internal Link Dist (ft)		477		408		755			327
Turn Bay Length (ft)	50		100				100		
Base Capacity (vph)	720	958	338	1034		375	616		477
Starvation Cap Reductn	0	0	0	0		0	0		0

Intersection Summary

Spillback Cap Reductn

Storage Cap Reductn

Cycle Length: 100

Reduced v/c Ratio

Actuated Cycle Length: 88.2

Natural Cycle: 90

Control Type: Semi Act-Uncoord

95th percentile volume exceeds capacity, queue may be longer.

0

0

0.09

0

0

0.85

0

0

0.52

0

0

0.21

0

0

0.35

0

0

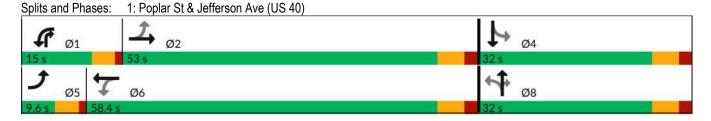
0.75

0

0

0.13

Queue shown is maximum after two cycles.



nmary 1: Poplar St & Jefferson Ave (US 40) 2045 Background + Project (with Moonlit) - AM Peak Hour

	۶	→	•	•	←	4	•	†	/	/	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	4		75	f			4	7		4	
Traffic Volume (veh/h)	55	630	42	136	160	5	83	15	348	10	10	15
Future Volume (veh/h)	55	630	42	136	160	5	83	15	348	10	10	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1722	1722	1722	1796	1796	1796	1885	1885	1885
Adj Flow Rate, veh/h	66	759	51	177	208	6	111	20	464	18	18	26
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.75	0.75	0.75	0.57	0.57	0.57
Percent Heavy Veh, %	6	6	6	12	12	12	7	7	7	1	1	1
Cap, veh/h	666	837	56	244	881	25	296	48	509	94	97	104
Arrive On Green	0.04	0.50	0.50	0.07	0.53	0.53	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1725	1678	113	1640	1665	48	870	182	1519	181	370	397
Grp Volume(v), veh/h	66	0	810	177	0	214	131	0	464	62	0	0
Grp Sat Flow(s),veh/h/ln	1725	0	1790	1640	0	1713	1052	0	1519	948	0	0
Q Serve(g_s), s	1.8	0.0	41.0	5.1	0.0	6.7	0.0	0.0	26.0	0.4	0.0	0.0
Cycle Q Clear(g_c), s	1.8	0.0	41.0	5.1	0.0	6.7	14.2	0.0	26.0	14.6	0.0	0.0
Prop In Lane	1.00		0.06	1.00		0.03	0.85		1.00	0.29		0.42
Lane Grp Cap(c), veh/h	666	0	893	244	0	906	343	0	509	296	0	0
V/C Ratio(X)	0.10	0.00	0.91	0.73	0.00	0.24	0.38	0.00	0.91	0.21	0.00	0.00
Avail Cap(c_a), veh/h	682	0	893	299	0	906	343	0	509	296	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.9	0.0	22.7	21.3	0.0	12.6	32.0	0.0	31.6	28.4	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	14.6	6.7	0.0	0.6	0.7	0.0	20.7	0.3	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	19.8	2.4	0.0	2.6	2.8	0.0	13.4	1.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.0	0.0	37.4	28.0	0.0	13.2	32.7	0.0	52.3	28.8	0.0	0.0
LnGrp LOS	В		D	С		В	С		D	С		
Approach Vol, veh/h		876			391			595			62	
Approach Delay, s/veh		35.4			19.9			48.0			28.8	
Approach LOS		D			В			D			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.7	55.4		32.0	8.7	58.4		32.0				
Change Period (Y+Rc), s	4.5	6.0		6.0	4.5	6.0		6.0				
Max Green Setting (Gmax), s	10.5	47.0		26.0	5.1	52.4		26.0				
Max Q Clear Time (g_c+l1), s	7.1	43.0		16.6	3.8	8.7		28.0				
Green Ext Time (p_c), s	0.1	2.0		0.2	0.0	1.4		0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh			35.9									
HCM 7th LOS			D									
Notes User approved pedestrian inter	rval to be	e less thai	n phase n	nax greer	1 .							
The state of the s				9.20.								

latana atia												
Intersection	0.7											
Int Delay, s/veh	3.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		सी	7		4		7	ĵ.			4	
Traffic Vol, veh/h	15	5	78	5	5	5	114	476	5	5	212	20
Future Vol, veh/h	15	5	78	5	5	5	114	476	5	5	212	20
Conflicting Peds, #/hr	0	0	6	6	0	0	13	0	0	0	0	13
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	57	57	85	50	50	50	85	85	59	60	85	60
Heavy Vehicles, %	9	9	9	17	17	17	2	2	2	4	4	4
Mvmt Flow	26	9	92	10	10	10	134	560	8	8	249	33
Major/Minor	Minor2			Minor1			Major1		N	//ajor2		
Conflicting Flow All	1129	1132	285	1109	1145	564	296	0	0	568	0	0
Stage 1	296	296	200	832	832	-		-	-	-	-	-
Stage 2	833	837	_	276	312	_	_	_	_	_	_	_
Critical Hdwy	7.19	6.59	6.29	7.27	6.67	6.37	4.12	_	_	4.14	_	_
Critical Hdwy Stg 1	6.19	5.59	-	6.27	5.67	-		_	_	-	_	_
Critical Hdwy Stg 2	6.19	5.59	_	6.27	5.67	_	_	_	-	-	_	-
Follow-up Hdwy	3.581	4.081	3.381	3.653	4.153	3.453	2.218	_	_	2.236	-	_
Pot Cap-1 Maneuver	176	197	738	175	187	497	1266	-	-	994	-	-
Stage 1	698	656	-	342	363	-		-	-	-	-	-
Stage 2	353	372	-	698	631	-	_	_	-	_	_	_
Platoon blocked, %					J• 1			_	-		_	_
Mov Cap-1 Maneuver	142	172	724	128	163	497	1250	-	-	994	_	_
Mov Cap-2 Maneuver	142	172	-	128	163	-	-	-	-	-	-	-
Stage 1	682	641	-	306	324	-	-	-	-	-	-	-
Stage 2	299	333	-	592	617	-	-	-	-	-	-	-
<u> </u>												
Annach	ED			MD			ND			CD		
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	17.86			27.71			1.57			0.25		
HCM LOS	С			D								
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		1250	-	-	148	724	188	50	-	-		
HCM Lane V/C Ratio		0.107	-	-			0.159		-	-		
HCM Ctrl Dly (s/v)		8.2	-	-	36.6	10.7	27.7	8.7	0	-		
HCM Lane LOS		Α	-	-	Е	В	D	Α	Α	-		
HCM 95th %tile Q(veh	1)	0.4	-	-	0.9	0.4	0.6	0	-	-		

Intersection						
Int Delay, s/veh	12.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
			NBL			SBK
Lane Configurations	ሻ	7	05	4	^	405
Traffic Vol, veh/h	70	32	65	510	165	105
Future Vol, veh/h	70	32	65	510	165	105
Conflicting Peds, #/hr	0	0	_ 2	_ 0	_ 0	_ 2
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	37	37	70	85	85	59
Heavy Vehicles, %	1	1	3	3	2	2
Mvmt Flow	189	86	93	600	194	178
Maian/Minan	N4:		\		M-:0	
	Minor2		Major1		Major2	
Conflicting Flow All	1071	285	374	0	-	0
Stage 1	285	-	-	-	-	-
Stage 2	786	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.227	-	-	-
Pot Cap-1 Maneuver	246	756	1179	-	-	-
Stage 1	766	-	-	-	-	-
Stage 2	451	_	_	-	_	-
Platoon blocked, %				_	-	-
Mov Cap-1 Maneuver	216	755	1177	_	_	_
Mov Cap-2 Maneuver	216			_	_	_
Stage 1	674	_	_	_	_	_
Stage 2	450					_
Olaye Z	750	_	_	_	_	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	58.02		1.12		0	
HCM LOS	F					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1		SBT
Capacity (veh/h)		241	-		755	-
HCM Lane V/C Ratio		0.079	-	0.877	0.115	-
HCM Ctrl Dly (s/v)		8.3	0	79.8	10.4	-
HCM Lane LOS		Α	Α	F	В	-
HCM 95th %tile Q(veh)	0.3	-	6.9	0.4	-

Intersection						
Int Delay, s/veh	5.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	f ə	
Traffic Vol, veh/h	133	6	5	447	160	42
Future Vol, veh/h	133	6	5	447	160	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	_	-
Veh in Median Storag		_	_	0	0	-
Grade, %	0	-	-	0	0	_
Peak Hour Factor	75	75	77	77	51	51
Heavy Vehicles, %	1	1	6	6	9	9
Mymt Flow	177	8	6	581	314	82
WWW.CT IOW		J	· ·	001	011	UL.
	Minor2		Major1		Major2	
Conflicting Flow All	948	355	396	0	-	0
Stage 1	355	-	-	-	-	-
Stage 2	594	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.309	2.254	-	-	-
Pot Cap-1 Maneuver	290	691	1141	-	-	-
Stage 1	712	-	-	-	-	-
Stage 2	554	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	288	691	1141	_	_	-
Mov Cap-2 Maneuver		-	-	-	_	_
Stage 1	706	_	-	-	_	-
Stage 2	554	_	_	_	_	_
Olago Z	004					
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	35.65		0.09		0	
HCM LOS	E					
Minor Lane/Major Mvr	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)	TIC .	20	-		-	- ODIN
HCM Lane V/C Ratio		0.006		0.627	-	_
HCM Ctrl Dly (s/v)		8.2	0	35.7	_	
HCM Lane LOS						-
	.)	A	Α	E	-	-
HCM 95th %tile Q(veh	1)	0	-	3.9	-	-

Intersection						
Int Delay, s/veh	1.2					
Movement	EBL	EDT	WDT	WDD	CDI	SBR
	EBL	EBT	WBT	WBR	SBL	SBK
Lane Configurations	•	<u>4</u>	^}	^	Y	0
Traffic Vol, veh/h	0	116	33	9	23	0
Future Vol, veh/h	0	116	33	9	23	0
Conflicting Peds, #/hr		_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	1	1	1	1	0	0
Mymt Flow	0	155	44	12	31	0
		_				
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	56	0	-	0	205	50
Stage 1	-	-	-	-	50	-
Stage 2	-	-	-	-	155	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.209	_	-	_	3.5	3.3
Pot Cap-1 Maneuver	1555	_	_	_	788	1024
Stage 1	-	_	_	_	978	-
Stage 2	_	_	_	_	878	_
Platoon blocked, %		_	_	<u> </u>	010	
Mov Cap-1 Maneuver	1555	_	_	_	788	1024
•					788	1024
Mov Cap-2 Maneuver		-	-	-		
Stage 1	-	-	-	-	978	-
Stage 2	-	-	-	-	878	-
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		9.75	
HCM LOS	- 0		- 0		3.73	
TOW LOO						
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1555	-	-	-	788
HCM Lane V/C Ratio		-	-	-	-	0.039
HCM Ctrl Dly (s/v)		0	-	-	-	9.8
HCM Lang LOS		۸				۸

Α

0.1

Α

HCM Lane LOS

HCM 95th %tile Q(veh)

	•	→	•	←	•	†	<i>></i>	>	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations	ሻ	f)	7	f)		ર્ન	7		4
Traffic Volume (vph)	25	205	363	635	55	10	220	5	15
Future Volume (vph)	25	205	363	635	55	10	220	5	15
Lane Group Flow (vph)	28	328	427	753	0	86	293	0	71
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	pm+ov	Perm	NA
Protected Phases	5	2	1	6		8	1		4
Permitted Phases	2		6		8		8	4	
Detector Phase	5	2	1	6	8	8	1	4	4
Switch Phase									
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.5	25.0	9.5	25.0	32.0	32.0	9.5	32.0	32.0
Total Split (s)	10.0	45.0	36.0	71.0	39.0	39.0	36.0	39.0	39.0
Total Split (%)	8.3%	37.5%	30.0%	59.2%	32.5%	32.5%	30.0%	32.5%	32.5%
Yellow Time (s)	3.5	4.0	3.5	4.0	4.0	4.0	3.5	4.0	4.0
All-Red Time (s)	1.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Lost Time (s)	4.5	6.0	4.5	6.0		6.0	4.5		6.0
Lead/Lag	Lead	Lag	Lead	Lag			Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes			Yes		
Recall Mode	None	Max	None	Max	None	None	None	None	None
v/c Ratio	0.06	0.33	0.51	0.56		0.45	0.45		0.28
Control Delay (s/veh)	5.1	13.3	6.1	11.2		47.2	4.7		20.7
Queue Delay	0.0	0.0	0.0	0.0		0.0	0.0		0.0
Total Delay (s/veh)	5.1	13.3	6.1	11.2		47.2	4.7		20.7
Queue Length 50th (ft)	3	96	65	249		52	0		14
Queue Length 95th (ft)	11	201	118	382		82	20		49
Internal Link Dist (ft)		477		408		755			327
Turn Bay Length (ft)	50		100				100		
Base Capacity (vph)	474	999	1003	1339		514	907		597
Starvation Cap Reductn	0	0	0	0		0	0		0
Spillback Cap Reductn	0	0	0	0		0	0		0
Storage Cap Reductn	0	0	0	0		0	0		0
Reduced v/c Ratio	0.06	0.33	0.43	0.56		0.17	0.32		0.12
Into an a atta a Commence and									

Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 92.5

Natural Cycle: 80

Control Type: Semi Act-Uncoord





nmary 1: Poplar St & Jefferson Ave (US 40) 2045 Background + Project (with Moonlit) - PM Peak Hour

	ℐ	→	•	•	←	•	4	†	<i>></i>	\	+	-√
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	eĵ.		ሻ	₽			र्स	7		€}•	
Traffic Volume (veh/h)	25	205	90	363	635	5	55	10	220	5	15	40
Future Volume (veh/h)	25	205	90	363	635	5	55	10	220	5	15	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	0.99		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1811	1811	1811	1841	1841	1841	1796	1796	1796	1826	1826	1826
Adj Flow Rate, veh/h	28	228	100	427	747	6	73	13	293	6	18	47
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85	0.75	0.75	0.75	0.85	0.85	0.85
Percent Heavy Veh, %	6	6	6	4	4	4	7	7	7	5	5	5
Cap, veh/h	356	601	264	714	1125	9	295	47	513	47	97	209
Arrive On Green	0.03	0.50	0.50	0.14	0.62	0.62	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	1725	1192	523	1753	1823	15	1163	238	1503	49	487	1049
Grp Volume(v), veh/h	28	0	328	427	0	753	86	0	293	71	0	0
Grp Sat Flow(s),veh/h/ln	1725	0	1715	1753	0	1838	1400	0	1503	1585	0	0
Q Serve(g_s), s	0.8	0.0	12.3	11.4	0.0	28.0	0.8	0.0	16.8	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.8	0.0	12.3	11.4	0.0	28.0	4.6	0.0	16.8	3.9	0.0	0.0
Prop In Lane	1.00		0.30	1.00		0.01	0.85		1.00	0.08		0.66
Lane Grp Cap(c), veh/h	356	0	865	714	0	1135	343	0	513	353	0	0
V/C Ratio(X)	0.08	0.00	0.38	0.60	0.00	0.66	0.25	0.00	0.57	0.20	0.00	0.00
Avail Cap(c_a), veh/h	400	0	865	993	0	1135	494	0	684	527	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	13.1	0.0	16.0	9.6	0.0	13.1	35.5	0.0	28.6	35.3	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.3	0.8	0.0	3.1	0.4	0.0	1.0	0.3	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	5.0	4.1	0.0	11.6	1.9	0.0	6.2	1.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.2	0.0	17.3	10.4	0.0	16.1	35.9	0.0	29.6	35.6	0.0	0.0
LnGrp LOS	В		В	В		В	D		С	D		
Approach Vol, veh/h		356			1180			379			71	
Approach Delay, s/veh		17.0			14.1			31.0			35.6	
Approach LOS		В			В			С			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	19.2	59.1		27.0	7.3	71.0		27.0				
Change Period (Y+Rc), s	4.5	6.0		6.0	4.5	6.0		6.0				
Max Green Setting (Gmax), s	31.5	39.0		33.0	5.5	65.0		33.0				
Max Q Clear Time (g_c+l1), s	13.4	14.3		5.9	2.8	30.0		18.8				
Green Ext Time (p_c), s	1.3	2.1		0.4	0.0	6.5		1.4				
Intersection Summary												
HCM 7th Control Delay, s/veh			18.6									
HCM 7th LOS			В									

Intersection												
Int Delay, s/veh	4.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7		4		ሻ	ĵ.			4	
Traffic Vol, veh/h	10	15	110	5	5	10	89	297	10	15	475	20
Future Vol, veh/h	10	15	110	5	5	10	89	297	10	15	475	20
Conflicting Peds, #/hr	0	0	6	6	0	0	1	0	0	0	0	1
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	_	None	-	-	None	-	-	None
Storage Length	-	-	100	-	-	-	60	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	69	69	85	60	60	60	85	85	59	83	85	83
Heavy Vehicles, %	7	7	7	1	1	1	5	5	5	4	4	4
Mvmt Flow	14	22	129	8	8	17	105	349	17	18	559	24
Major/Minor	Minor2			Minor1			Major1		I	Major2		
Conflicting Flow All	1171	1184	578	1179	1187	358	584	0	0	366	0	0
Stage 1	608	608	-	567	567	-	-	-	-	-	-	-
Stage 2	563	576	-	612	620	-	-	-	-	-	-	-
Critical Hdwy	7.17	6.57	6.27	7.11	6.51	6.21	4.15	-	-	4.14	-	-
Critical Hdwy Stg 1	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.17	5.57	-	6.11	5.51	-	-	-	-	-	-	-
Follow-up Hdwy	3.563	4.063	3.363	3.509	4.009	3.309	2.245	-	-	2.236	-	-
Pot Cap-1 Maneuver	166	185	506	168	189	689	976	-	-	1181	-	-
Stage 1	474	478	-	510	508	-	-	-	-	-	-	-
Stage 2	502	494	-	482	481	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	135	161	503	95	165	689	975	-	-	1181	-	-
Mov Cap-2 Maneuver	135	161	-	95	165	-	-	-	-	-	-	-
Stage 1	463	467	-	455	454	-	-	-	-	-	-	-
Stage 2	429	441	-	332	470	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	19.43			25.87			2.03			0.24		
HCM LOS	С			D								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR		
Capacity (veh/h)		975	-	-	149	503	206	54	-	-		
HCM Lane V/C Ratio		0.107	-	-	0.242	0.257	0.162	0.015	-	-		
HCM Ctrl Dly (s/v)		9.1	-	-	36.6	14.6	25.9	8.1	0	-		
HCM Lane LOS		Α	-	-	Е	В	D	Α	Α	-		
HCM 95th %tile Q(veh))	0.4	-	-	0.9	1	0.6	0	-	-		

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T T	T T	NDL	4	3B1 }	ODIX
Traffic Vol, veh/h	25	r. 5	5	361	580	5
Future Vol, veh/h	25	5	5	361	580	5
Conflicting Peds, #/hr		0	0	0	0	0
			Free	Free	Free	Free
Sign Control RT Channelized	Stop -		-		riee -	None
	0	None 0			_	
Storage Length			-	-		-
Veh in Median Storag		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	47	47	82	85	85	69
Heavy Vehicles, %	1	1	7	7	3	3
Mvmt Flow	53	11	6	425	682	7
Major/Minor	Minor2		Major1	ı	Major2	
Conflicting Flow All	1123	686	690	0	- viajoiz	0
Stage 1	686			U		
	437	-	-	-	-	-
Stage 2		-	1 17	-	-	-
Critical Hdwy	6.41	6.21	4.17	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy		3.309	2.263	-	-	-
Pot Cap-1 Maneuver	229	449	882	-	-	-
Stage 1	502	-	-	-	-	-
Stage 2	653	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		449	882	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	497	-	-	-	-	-
Stage 2	653	-	-	-	-	-
Annroach	ED		NB		SB	
Approach	EB					
HCM Ctrl Dly, s/v	23.62		0.13		0	
HCM LOS	С					
Minor Lane/Major Mv	mt	NBL	NBT	EBLn1 E	-Bl n2	SBT
Capacity (veh/h)		25	-		449	
HCM Lane V/C Ratio		0.007		0.235		_
HCM Ctrl Dly (s/v)		9.1	0		13.2	_
HCM Lane LOS		9.1 A	A	23.7 D	13.2 B	-
HCM 95th %tile Q(ve	h)	0	- -	0.9	0.1	
HOW SOUT WHILE Q(VE	11)	U	_	0.9	U. I	-

Intersection						
Int Delay, s/veh	3.2					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			4	\$	4
Traffic Vol, veh/h	82	6	6	284	462	128
Future Vol, veh/h	82	6	6	284	462	128
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	66	66	79	79	89	89
Heavy Vehicles, %	1	1	3	3	1	1
Mvmt Flow	124	9	8	359	519	144
WWW.CT IOW	121		J	000	010	
	Minor2		Major1		Major2	
Conflicting Flow All	966	591	663	0	-	0
Stage 1	591	-	-	-	-	-
Stage 2	375	-	-	-	-	-
Critical Hdwy	6.41	6.21	4.13	-	-	-
Critical Hdwy Stg 1	5.41	_	_	-	_	-
Critical Hdwy Stg 2	5.41	-	_	_	_	-
Follow-up Hdwy		3.309	2.227	_	_	_
Pot Cap-1 Maneuver	284	509	921	_	_	_
Stage 1	555	-	-	_	_	_
Stage 2	697	_	_	_	_	_
Platoon blocked, %	001			_	_	_
Mov Cap-1 Maneuver	281	509	921	-	_	_
Mov Cap-1 Maneuver		509	921	-	_	-
•		-	_	-	_	-
Stage 1	550	-	-	-	-	-
Stage 2	697	-	-	-	-	-
Approach	EB		NB		SB	
HCM Ctrl Dly, s/v	27.61		0.18		0	
HCM LOS	D		0.10		•	
TIOM EGG						
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		37	-	290	-	-
HCM Lane V/C Ratio		0.008	-	0.46	-	-
HCM Ctrl Dly (s/v)		8.9	0	27.6	-	-
HCM Lane LOS		Α	A	D	-	-
HCM 95th %tile Q(veh	1)	0	-	2.3	_	-
TOW JOHN JUHIC Q(VEI	'/	U		2.0		

Intersection						
Int Delay, s/veh	0.7					
		CDT.	MOT	WED	ODI	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	^	4	^	00	Y	^
Traffic Vol, veh/h	0	73	109	20	15	0
Future Vol, veh/h	0	73	109	20	15	0
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	70	70	70	70	70	70
Heavy Vehicles, %	1	1	1	1	0	0
Mvmt Flow	0	104	156	29	21	0
Major/Minor N	Asiar1		/oior?		Minor2	
	Major1		Major2			470
Conflicting Flow All	184	0	-	0	274	170
Stage 1	-	-	-	-	170	-
Stage 2	-	-	-	-	104	-
Critical Hdwy	4.11	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
	2.209	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1397	-	-	-	720	879
Stage 1	-	-	-	-	865	-
Stage 2	-	-	-	-	925	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1397	-	-	-	720	879
Mov Cap-2 Maneuver	-	-	-	-	720	-
Stage 1	-	-	-	-	865	-
Stage 2	-	-	-	-	925	-
Ŭ						
A	ED		WD		OD.	
Approach	EB		WB		SB	
HCM Ctrl Dly, s/v	0		0		10.16	
HCM LOS					В	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1397			-	720
HCM Lane V/C Ratio		-	_	_	_	0.03
HCM Ctrl Dly (s/v)		0	_	_	_	10.2
HCM Lane LOS		A		-	_	10.2 B
HCM 95th %tile Q(veh)		A 0	-			0.1
HOW SOUT WITH Q(VEII)		U	-	-	-	0.1

Sonesta Townhomes – Hayden, CO)
Traffic Impact Study (FT #25099)	

Signal Warrant Analysis

Warrant 1: 8 Hour Analysis - 2025 Existing

	Major	Minor*	Warrant Type		ition A		lition B		Condition A + B				
2025	Jefferson Ave (US Highway 40) EB / WB Total	Poplar St	Street Designation	Major	Minor	Major	Minor	Major A	Minor A	Major B	Minor B		
Time of	Number	of Lanes	Vehicles per Hour Needed to Meet	350	105	525	53	280	84	420	42		
Day	1	1	Warrant		100	020		200	04	420			
0:00	31	1		no	no	no	no	no	no	no	no		
1:00	14	0		no	no	no	no	no	no	no	no		
2:00	22	1		no	no	no	no	no	no	no	no		
3:00	31	1		no	no	no	no	no	no	no	no		
4:00	71	3		no	no	no	no	no	no	no	no		
5:00	173	10		no	no	no	no	no	no	no	no		
6:00	513	17		yes	no	no	no	yes	no	yes	no		
7:00	648	110		yes	yes	yes	yes	yes	yes	yes	yes		
8:00	482	48		yes	no	no	no	yes	no	yes	yes		
9:00	487	35		yes	no	no	no	yes	no	yes	no		
10:00	491	28	Warrant is Met	yes	no	no	no	yes	no	yes	no		
11:00	432	43		yes	no	no	no	yes	no	yes	yes		
12:00	500	33	(yes/no)	yes	no	no	no	yes	no	yes	no		
13:00	462	26		yes	no	no	no	yes	no	yes	no		
14:00	537	28		yes	no	yes	no	yes	no	yes	no		
15:00	578	63		yes	no	yes	yes	yes	no	yes	yes		
16:00	684	52		yes	no	yes	no	yes	no	yes	yes		
17:00	860	54		yes	no	yes	yes	yes	no	yes	yes		
18:00	614	38		yes	no	yes	no	yes	no	yes	no		
19:00	388	26		yes	no	no	no	yes	no	no	no		
20:00	254	14		no	no	no	no	no	no	no	no		
21:00	163	4		no	no	no	no	no	no	no	no		
22:00	107	3		no	no	no	no	no	no	no	no		
23:00	40	1		no	no	no	no	no	no	no	no		
Total	8,582	639		1	Not Met	3	Not Met		1	Not Met			

^{*} Vehicles per hour on higher-volume minor-street approach (one direction only)



Warrant 1: 8 Hour Analysis - 2028 Background without Moonlit Meadows

	Major	Minor*	Warrant Type		ition A			tion B			ion A + B	
2028	Jefferson Ave (US Highway 40) EB / WB Total	Poplar St	Street Designation	Major	Minor	Ma	ajor	Minor	Major A	A Minor A	Major B	Minor B
Time of Day	Number of Lanes		Vehicles per Hour Needed to Meet	350	105	5	525	53	280	84	420	42
-	1	1	Warrant									
0:00	32	1		no	no	ı	no	no	no	no	no	no
1:00	14	0		no	no	r	no	no	no	no	no	no
2:00	23	1		no	no	ı	no	no	no	no	no	no
3:00	33	1		no	no	ı	no	no	no	no	no	no
4:00	74	3		no	no	ı	no	no	no	no	no	no
5:00	178	10		no	no		no	no	no	no	no	no
6:00	528	18		yes	no	У	/es	no	yes	no	yes	no
7:00	668	113		yes	yes	У	/es	yes	yes	yes	yes	yes
8:00	496	49		yes	no	ı	no	no	yes	no	yes	yes
9:00	500	36		yes	no	r	no	no	yes	no	yes	no
10:00	505	29		yes	no	r	no	no	yes	no	yes	no
11:00	445	44	Warrant is Met	yes	no	r	no	no	yes	no	yes	yes
12:00	515	34	(yes/no)	yes	no	r	no	no	yes	no	yes	no
13:00	477	27		yes	no	r	no	no	yes	no	yes	no
14:00	553	29		yes	no	У	/es	no	yes	no	yes	no
15:00	596	65		yes	no	У	/es	yes	yes	no	yes	yes
16:00	705	54		yes	no	У	/es	yes	yes	no	yes	yes
17:00	886	56		yes	no		/es	yes	yes	no	yes	yes
18:00	632	39		yes	no	-	/es	no	yes	no	yes	no
19:00	400	27		yes	no		no	no	yes	no	no	no
20:00	261	14		no	no		no	no	no	no	no	no
21:00	168	4		no	no		no	no	no	no	no	no
22:00	109	3		no	no		no	no	no	no	no	no
23:00	42	7		no	no Not Mot		no	no Not Mot	no	no	no Not Mot	no
Total	8,840	658		1	Not Met		4	Not Met		1	Not Met	

^{*} Vehicles per hour on higher-volume minor-street approach (one direction only)



Warrant 1: 8 Hour Analysis - 2028 Background with Moonlit Meadows

	Major Minor* Warrant Type Condition A Condition B						ı	Condition A + B					
2020			vvarrant Type	Cond	IIIOII A		Condition B		Condition A + B				
2028	Jefferson Ave (US Highway 40)	Poplar St	Street Designation	Major	Minor		Major	Minor		Major A	Minor A	Major B	Minor B
	EB / WB Total	NB / SB Highest											_
Time of Day	Number	of Lanes	Vehicles per Hour Needed to Meet	350	105		525	53		280	84	420	42
_	1	1	Warrant										
0:00	33	3		no	no		no	no		no	no	no	no
1:00	14	1		no	no		no	no		no	no	no	no
2:00	23	2		no	no		no	no	ı	no	no	no	no
3:00	33	2		no	no		no	no		no	no	no	no
4:00	75	6		no	no		no	no	ı	no	no	no	no
5:00	182	16		no	no		no	no		no	no	no	no
6:00	539	35		yes	no		yes	no		yes	no	yes	no
7:00	691	180		yes	yes		yes	yes		yes	yes	yes	yes
8:00	515	78		yes	no		no	yes		yes	no	yes	yes
9:00	514	57		yes	no		no	yes		yes	no	yes	yes
10:00	520	52		yes	no		no	no		yes	no	yes	yes
11:00	461	69	Warrant is Met	yes	no		no	yes		yes	no	yes	yes
12:00	558	62	(yes/no)	yes	no		yes	yes		yes	no	yes	yes
13:00	523	57		yes	no		no	yes		yes	no	yes	yes
14:00	604	62		yes	no		yes	yes		yes	no	yes	yes
15:00	653	102		yes	no		yes	yes		yes	yes	yes	yes
16:00	772	98		yes	no		yes	yes		yes	yes	yes	yes
17:00	962	104		yes	no		yes	yes		yes	yes	yes	yes
18:00	686	74		yes	no		yes	yes		yes	no	yes	yes
19:00	439	52		yes	no		no	no		yes	no	yes	yes
20:00	295	37		no	no		no	no	١	yes	no	no	no
21:00	193	21		no	no		no	no	l	no	no	no	no
22:00	120	11		no	no		no	no	1	no	no	no	no
23:00	50	6		no	no		no	no	4	no	no	no	no
Total	9,455	1,187		1	Not Met		7	Not Met	L		4	Not Met	

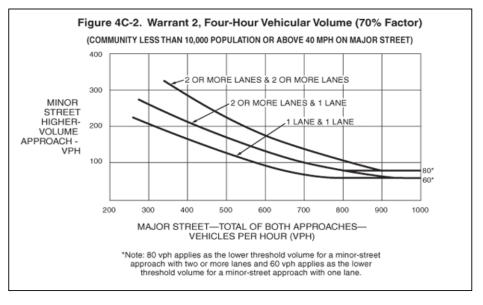
^{*} Vehicles per hour on higher-volume minor-street approach (one direction only)



Intersection: Jefferson Ave (US 40) at Poplar St

Warrant 2: 4 Hour Analysis - 2025 Existing

2025	Major Jefferson Ave (US Highway 40) EB / WB Total	Minor* Poplar St NB / SB Highest		Warrant 2 (Figure 4C-2)
		of Lanes		,
Day	1	1		
0:00	31	1		no
1:00	14	0		no
2:00	22	1		no
3:00	31	1		no
4:00	71	3		no
5:00	173	10	Warrant is Met	no
6:00	513	17		no
7:00	648	110		Yes
8:00	482	48		no
9:00	487	35		no
10:00	491	28		no
11:00	432	43		no
12:00	500	33	(yes/no)	no
13:00	462	26	(yes/110)	no
14:00	537	28		no
15:00	578	63		no
16:00	684	52		no
17:00	860	54		no
18:00	614	38		no
19:00	388	26		no
20:00	254	14		no
21:00	163	4		no
22:00	107	3		no
23:00	40	1		no
Total	8,582	639	1	Not Met



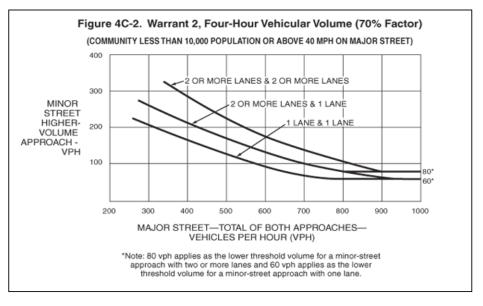


^{*}The minor volume for each hour represents the higher of either minor approach.

Intersection: Jefferson Ave (US 40) at Poplar St

Warrant 2: 4 Hour Analysis - 2028 Background without Moonlit Meadows

	Major	Minor*			
2028	Jefferson Ave (US Highway 40)	Poplar St			
	EB / WB Total	NB / SB Highest		Warrant 2 (Figure 4C-2)	
Time of	Number		(i iguio io 1)		
Day	1	1			
0:00	32	1		no	
1:00	14	0		no	
2:00	23	1		no	
3:00	33	1		no	
4:00	74	3		no	
5:00	178	10	Warrant is Met	no	
6:00	528	18		no	
7:00	668	113		Yes	
8:00	496	49		no	
9:00	500	36		no	
10:00	505	29		no	
11:00	445	44		no	
12:00	515	34	(yes/no)	no	
13:00	477	27	(yes/110)	no	
14:00	553	29		no	
15:00	596	65		no	
16:00	705	54		no	
17:00	886	56		no	
18:00	632	39		no	
19:00	400	27		no	
20:00	261	14		no	
21:00	168	4		no	
22:00	109	3		no	
23:00	42	1		no	
Total	8,840	658	1	Not Met	



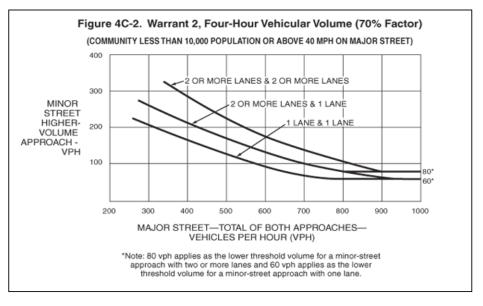


^{*}The minor volume for each hour represents the higher of either minor approach.

Intersection: Jefferson Ave (US 40) at Poplar St

Warrant 2: 4 Hour Analysis - 2028 Background with Moonlit Meadows

2028	Major Jefferson Ave (US Highway 40) EB / WB Total	Minor* Poplar St NB / SB Highest		Warrant 2 (Figure 4C-2)
Time of Day	Number 1	of Lanes 1		
0:00	33	3		no
1:00	14	1		no
2:00	23	2		no
3:00	33	2		no
4:00	75	6		no
5:00	182	16	Warrant is Met (yes/no)	no
6:00	539	35		no
7:00	691	180		Yes
8:00	515	78		no
9:00	514	57		no
10:00	520	52		no
11:00	461	69		no
12:00	558	62		no
13:00	523	57	(yes/110)	no
14:00	604	62		no
15:00	653	102		Yes
16:00	772	98		Yes
17:00	962	104		Yes
18:00	686	74		no
19:00	439	52		no
20:00	295	37		no
21:00	193	21		no
22:00	120	11		no
23:00	50	6		no
Total	9,455	1,187	4	Met





^{*}The minor volume for each hour represents the higher of either minor approach.