AGENDA
INTERCITY TRANSIT AUTHORITY
August 3, 2016
5:30 P.M.

## CALL TO ORDER

1) APPROVAL OF AGENDA 1 min.
2) INTRODUCTIONS - None 0 min.
3) PUBLIC COMMENT $\mathbf{1 0} \mathbf{~ m i n}$.

Public Comment Note: This is the place on the agenda where the public is invited to address the Authority on any issue. The person speaking is asked to sign-in on the General Public Comment Form for submittal to the Clerk of the Board. Please include your first and last name, a mailing address or a phone number (in the event we need to contact you). When your name is called, step up to the podium and give your name for the audio record. If you are unable to utilize the podium, you will be provided a microphone at your seat. Citizens testifying are asked to limit testimony to three minutes.

The Authority will not typically respond to your comments this same evening; however, they may ask some clarifying questions.
4) APPROVAL OF CONSENT AGENDA ITEMS

1 min.
A. Approval of Minutes: July 6, 2016, Regular Meeting; and July 20, 2016, Work Session.
B. Payroll: July 2016 Payroll in the amount of $\$ 3,004,370.79$.
C. Special Meeting: Schedule a special meeting for Wednesday, September 21, 2016, to conduct a joint meeting of the Authority and the Citizen Advisory Committee. (Ann Freeman-Manzanares)
D. Janitorial Services/Supplies Contract Extension: Consideration of a one-year contract extension with American Custodial, Inc. for Janitorial Services and Supplies at the Olympia Transit Center, Lacey Transit Center, Amtrak Centennial Station and Pattison Street Facilities. (Katie Cunningham)
5) PUBLIC HEARING

10 min.
A. Draft Annual Report \& Transit Development Plan (Dennis Bloom)
6) COMMITTEE REPORTS
A. Thurston Regional Planning Council (Karen Messmer)
3 min.
B. Transportation Policy Board (Debbie Sullivan)
3 min.
C. Citizen Advisory Committee (Walter Smit)

7) NEW BUSINESS
A. Solar Lighting for Bus Stops (Jeff Peterson) 5 min.
8) GENERAL MANAGER'S REPORT 10 min .
9) AUTHORITY ISSUES 10 min .
10) EXECUTIVE SESSION - None 0 min.

## ADJOURNMENT

Intercity Transit is committed to ensuring that no person is excluded from participation in, or denied the benefits of its transit services on the basis of race, color, or national origin consistent with requirements of Title VI of the Civil Rights Act of 1964 and Federal Transit Administration guidance in FTA Circular 4702.

For questions regarding Intercity Transit's Title VI Program, you may contact the agency's Title VI coordinator at (360) 705-5857 or ntrail@intercitytransit.com. If you need special accommodations to participate in this meeting, please call us at (360) 705-5857 three days prior to the meeting. For TDD users, please use the state's toll-free relay service, 711 and ask the operator to dial (360) 705-5857.

Please consider using an alternate mode to attend this meeting: bike, walk, bus, carpool, or vanpool. This facility is served by Routes 62A, 62B (on Martin Way), and 66 (on Pacific Avenue).

Minutes<br>INTERCITY TRANSIT AUTHORITY<br>Regular Meeting<br>July 6, 2016

## CALL TO ORDER

Chair Gadman called the July 6, 2016, meeting of the Intercity Transit Authority to order at 5:30 p.m., at the administrative offices of Intercity Transit.

Members Present: Chair and City of Lacey Councilmember, Jeff Gadman; Vice Chair and Citizen Representative Ryan Warner; Thurston County Commissioner Bud Blake; City of Tumwater Councilmember Debbie Sullivan; City of Yelm Councilmember Molly Carmody; Citizen Representative Karen Messmer; and Citizen Representative Don Melnick; and Labor Representative Ed Bricker.

Members Excused: City of Olympia Councilmember Clark Gilman.
Staff Present: Ann Freeman-Manzanares; Joy Gerchak; Paul Koleber; Steve Krueger; Eric Phillips; Pat Messmer; Carolyn Newsome; and Steve Swan.

Others Present: Legal Counsel, Dale Kamerrer.

## APPROVAL OF AGENDA

Vice Chair Warner requested an amendment to the agenda to include a Pension Committee Report.

It was M/S/A by Councilmember Sullivan and Citizen Representative Melnick to approve the agenda as amended.

## INTRODUCTIONS

A. Joy Gerchak introduced Russell Gilsdorf, Customer Service Representative
B. Paul Koleber introduced Chris Alfonso and Tom Crow, Maintenance Supervisors

PUBLIC COMMENT - (see section after Agenda Item 7B - Draft TDP)

## APPROVAL OF CONSENT AGENDA ITEMS

Citizen Representative Melnick requested a correction to the June 15, 2016, Work Session minutes.

## It was M/S/A by Citizen Representative Messmer and Vice Chair and Citizen Representative Warner to approve the consent agenda as amended.

A. Approval of Minutes: June 1, 2016, Regular Meeting; and June 15, 2016, Work Session.
B. Payroll: June 2016 Payroll in the amount of $\$ 2,121,976.51$.

## Commissioner Blake arrived.

## PUBLIC HEARING - None.

## COMMITTEE REPORTS

A. Thurston Regional Planning Council (TRPC). Karen Messmer said TRPC meets July 8, 2016. Agenda includes a special retirement recognition for Lon Wyrick. There is a retirement reception for him on Thursday, July 21 from 4 to 6 p.m. at TRPC. Members will be appointing an interim director who begins the end of July.

Agenda includes the Adoption of the Regional Transportation Plan. Members will discuss the 2017 State Legislation Preparation, and Messmer asked that staff make an early connection with TRPC staff about that. There is possibly a fall Federal Call for Funding Applications for Projects.
B. Transportation Policy Board (TPB). Sullivan said the TPB met June 8 and as part of the Regional Transportation Plan discussion, the topic of "Planning for Transit Planning for Rail" came up again. Sullivan doesn't know how to address this topic and is looking for suggestions on how to educate others that bus service is a better option rather than continuing to focus on a rail package. Messmer said a conversation is needed to make a connection to what fundamentals need to be in place and the reality about what needs to be in place in order to have a successful rail system, and that includes density, land use, etc. Then underpin that with the funding mechanism and support for what it would take to do rail, and the fact that you still need to have a transit system.
C. Pension Committee. Warner said the Pension Committee (made up of a variety of staff members) met June 28. They talked about the function of the Pension Committee and what the Committee should be doing. They will begin meeting on a more regular basis, and intend to distribute a survey to staff to determine if the current pension plans are meeting needs. Vendors will also be providing presentations from their various packages.
D. Citizen Advisory Committee. No report.

## NEW BUSINESS

## A. 2017-2020 Transportation Improvement Program (TIP) Adoption.

Development Director, Eric Phillips, presented the TIP for adoption which includes a list of all capital projects anticipated to receive Federal funding over the next four years. He indicated that no formal written comments or public testimony were received during the comment period or at the June 1 public hearing.

Phillips noted a change was made, which added the Design and Engineering Phase for the Pattison Maintenance and Operations Base Expansion, which was moved up as a subset from the bottom of the project list that was previously submitted.

It was M/S/A by Citizen Representative Melnick and Councilmember Sullivan to adopt the 2017-2020 Transportation Improvement Program (TIP) for projects with anticipated Federal funding.
B. Review Draft Annual Update of the Transit Development Plan.

Planning Manager, Dennis Bloom, presented for discussion the highlights of the annual draft 2016-2021 Transit Development Plan and the 2015 Annual Report.

He covered three main areas: The description of the system from the previous year (2015 summary); description of plan changes to services and facilities (2016-21); and Operating and Capital financing elements of the previous year (2015) budgeted for the current year (2016), planned for the next five years (2017-21).

Bloom then performed a review of the draft document by section. Highlights include:

## Section 3 - Service Characteristics

- Fare recovery was $11.7 \%$ of operating costs for local service and $9.9 \%$ for Express
- In 2015 fare recovery for Express service was closer to $16 \%$ which indicates a loss of ridership on these routes, and it's also a reflection of the cost of fuel.
- Dial-A-Lift fares recovered about 3.5\% of operating costs with total boardings at 161,594 - an increase of $4.7 \%$ above 2014.
- Vanpool saw a reduction in ridership with 192 vanpools in operation - a decrease from 214 the year before.
- Village Vans showed an increase in trips totaling 4,728 in 2015 - 13.4\% increase over 2014.
- Commute Trip Reduction - current regional team supports 196 active work sites.
- During 2015 staff received 347 submissions for Land Use Review (compared to 223 in 2014) of which staff reviewed 13 and commented on 13 applications requesting transit amenities (stops, shelters or ADA access).


## Section 4 - Service Connections

- Intercity Transit connects with several other transit systems including AMTRAK and Greyhound, and Rural Transportation which meets up at the major transfer point at Tumwater Square.
- Intercity Transit also contracts to provide service to three local colleges.

Bloom noted a correction to Page 6 of the document under Section 5 - Activities in 2015. Fixed route ridership decreased $4.2 \%$ with 4.3 million boardings and a $4.56 \%$ decrease overall for all services.

## Bloom did a quick summary of Sections 5-9 and the Appendix.

Carmody referred to Page 15 under Section 8 - Capital Improvement Program. She asked what the cost of a diesel coach is. Gadman responded it's approximately $\$ 500,000$, and the hybrid requires a midlife refurbishment which amounts to about half the cost of the vehicle, and includes battery replacement.

Messmer referred to performance and ridership numbers, and asked if the agency is doing a larger update of the service planning; and she'd like to understand the status of that process, such as a thorough analysis and when will that begin.
Gadman wanted confirmation that the agency could make a mid-course correction.
Bloom said staff plans to hire a consultant sometime in 2016, to review the short range plan and current service levels; the long range plan requires a larger conversation with the stakeholders and includes outreach to have a community conversation.

Melnick asked what the agency did to interface with businesses. Bloom said it's a requirement to reach out to the private sector and staff sends them a copy of the draft plan. Through TRPC and the CTR program, for the larger employers, staff conducts presentations and holds transit fairs on a regular basis.

Melnick asked why the draft plan doesn't contemplate any growth. Bloom said the RCW for this document requires a constrained budget, which is different from the Strategic Plan.

## Commissioner Blake left the meeting.

## PUBLIC COMMENT

Mr. Bret Thompson, $527 \mathbf{1 3}^{\text {th }}$ Avenue SE, Olympia. Mr. Thompson is a disabled Vietnam Veteran, who addressed the Authority regarding some issues he has experienced with bus operators. He also provided comment regarding bus stops located on the West Side near Capital Medical Center not having benches.

## C. Citizen Advisory Committee Bylaws Amendment.

Freeman-Manzanares said this agenda item reflects a 30-day notification regarding amendments to the Citizen Advisory Committee Bylaws changing the nomination and election of officers to coincide with a fall recruitment process.

## The Authority unanimously approved the changes to the Citizen Advisory Committee Bylaws as proposed.

## GENERAL MANAGER'S REPORT

Sales tax for June is 13.56 \% which is reflective of April, 2016. That is up $10.19 \%$ over 2015.

There are 180 active vanpools. Vanpool staff continues to work with the Go LewisMcChord campaign where they are looking at increasing the vanpool fleet.

Staff submitted comments on the Buy America Program, and awaiting a decision. The issue is the 7-passenger vehicles do not meet the Buy America Program and the manufacturer of vehicles manufactured in the Unites States is not willing to go through the Buy America process and all the documentation required by the FTA.

The State Auditors completed their annual audit. The final report is forthcoming.
Staff from the Olympia Fire Department contacted Intercity Transit requesting video coverage of the fire that took place downtown recently. They are looking for individuals who may be responsible.

There are two openings to attend the APTA Annual Meeting September 11-14 in Los Angeles. Authority members interested in attending should contact FreemanManzanares.

## AUTHORITY ISSUES

Messmer rode the Metro system in Montreal and noticed many of their public signs are in French and not in any other language; however, international symbols came in handy. She suggested Intercity Transit think about the signage inside the buses and at transfer stations, and what could be done to add international symbols so regardless of a person's language, they could read and understand the standard symbols.

Messmer, who participated in the Tumwater July $4^{\text {th }}$ parade, announced Intercity Transit received a "Community Award" for bus entry.

Melnick attended the CAC meeting on June 20, 2016, and said he was impressed with the depth of their conversation.

Melnick will be out of the country from July 15 through September 10. He will be attending the APTA Annual Conference September 11 through 14.

Gadman said he rode Portland's transit system and the integration of the street cars and buses is phenomenal. They offer day-long passes for $\$ 5$ that is accepted on any system all day long.

## ADJOURNMENT

There being no further business to come before the Authority, Chair Gadman adjourned the meeting at 7 p.m.

## INTERCITY TRANSIT AUTHORITY

Jeff Gadman, Chair

Date Approved: August 3, 2016.
Prepared by Pat Messmer, Recording Secretary/
Executive Assistant, Intercity Transit

## ATTEST

Pat Messmer
Clerk to the Authority

# Minutes <br> INTERCITY TRANSIT AUTHORITY <br> WORK SESSION 

July 20, 2016

## CALL TO ORDER

Chair Gadman called the July 20, 2016, Work Session of the Intercity Transit Authority to order at 5:30 p.m., at the administrative offices of Intercity Transit.

Members Present: Chair and City of Lacey Councilmember Jeff Gadman; Vice Chair and Citizen Representative Ryan Warner; City of Tumwater Councilmember Debbie Sullivan; City of Olympia Councilmember Clark Gilman; Citizen Representative Karen Messmer.

Members Excused: Thurston County Commissioner Bud Blake; City of Yelm Councilmember Molly Carmody; Citizen Representative Don Melnick; and Labor Representative Ed Bricker.

Staff Present: Ann Freeman-Manzanares; Jeff Brewster; Paul Koleber, Steve Krueger; Pat Messmer; Carolyn Newsome; and Eric Phillips.

Others Present: Ursula Euler, Citizen Advisory Committee.

## APPROVAL OF AGENDA

Chair Gadman noted that several members were absent; therefore, the Board did not have enough members to form a quorum.

## PUBLIC COMMENT - None.

## CITIZEN ADVISORY COMMITTEE REPORT

Citizen Advisory Committee Member, Ursula Euler said the CAC met on July 18 and received a similar presentation as the one tonight. She said Freeman-Manzanares added an item asking for CAC feedback on an extended the scope of short/long range plan. Perhaps the public could be more involved to step outside the constrained financial model and provide a more positive outlook. The CAC members agreed.

## Vice Chair and Citizen Representative Ryan Warner arrived forming a quorum.

## APPROVAL OF AGENDA

## Chair Gadman requested the addition of an Introduction to the Agenda.

It was M/S/A by Citizen Representative Messmer and Councilmember Gilman to approve the agenda as amended.

## INTRODUCTION

Development Director, Eric Phillips, introduced Jeff Brewster, the Marketing and Communications Manager.

## BUS TECHNOLOGY

Maintenance Manager, Paul Koleber, provided a presentation on bus technology.
Koleber noted Intercity Transit's fleet consists of 402 vehicles, including 35 diesel, 5 propane, 261 vanpool, 8 Village/Community Vans, and 22 staff-service-support vehicles. There are 40 budgeted positions in Maintenance.

Koleber created a process to look thoroughly at the Preventive Maintenance program, where everything was tested and revamped. Examples include:

- Revamping the oil sampling process because of inconsistencies in test results from the different vendors. Hired a new vendor for well sampling and have had great success. Engines are now rebuilt based on need and now scientific data indicates the trend of wear and tear on vehicles.
- Synthetic motor oil is very expensive. Semi-synthetic or synthetic blends are a combination of traditional motor oil and synthetic. Staff tested and discovered for a few cents more, they could double the amount of miles between oil changes - instead of 6,000 miles, go to 12,000 miles. This saves product, oil filters, and labor. Fuel mileage increased by $4 \%$ and cut engine wear $50 \%$ by adding better oil.
- Upgraded fuel additives which increased acceleration $20 \%$ and fuel miles by 2.25\%.
- Purchased wider tires for the hybrids which carry a higher operating pressure and equals better mileage. These tires cost $\$ 100$ less per tire. In the past 12 months, we have driven an additional 64,000 miles at the same time saving 4,300 gallons of fuel.
- Track new technology
- Diesel-electric hybrid buses - quite, yet costly
- Compressed Natural Gas (CNG) - infrastructure challenges and expensive
- Hydrogen fuel-cell technologies - new technology/availability of fuel?
- Fully electric buses - they don't have the operating range/cost of a traditional bus and need charge stations which are expensive and technology is still evolving
Gadman asked for details on the downtime other transit agencies are experiencing. Koleber said Link Transit purchased several electric buses, and they are having problems charging the buses, and the charging stations are expensive.

There are challenges with the design of the buses - some are shaped like a box or brick. The flat front of the bus creates problems for the drivers seeing reflections. There is an "A" pillar that obstructs view of pedestrians. There is an option to correct this -- Gillig has a non-hybrid $40^{\prime}$ bus and the nose and roof curve at the front which stops reflections.

Koleber showed a sample of a bus with "BRT or European styling". Many favor this style because of the curved front and less blind spots.

Messmer said people tend to have a more "romantic" high-tech image of a train versus bus, and can relate to BRT technology. There is an interior styling that may, on longer haul runs, make riders feel like they are riding on a comfortable train. Koleber said buses purchased at C-Tran in 2008 were a first attempt at hybrid buses, and they ran a commuter service from Vancouver to downtown Oroville. These buses had high backed reclining seats, reading lights, and they were a premium comfortable bus. They posed less of a challenge for the drivers.

Gilman asked if the propane buses have arrived. Koleber said they just became available off of the state contract, and staff is in the process of ordering them.

Messmer hopes the electric bus research starts to show good results. Electric has specific glitches because it's new and deployed in a larger different environment.

Koleber said Gillig is going to build an electric bus, but he doesn't feel the technology is there just yet. He said if the Authority were going to consider electric buses, give it more time. The Authority acknowledged they are not considering the purchase of more hybrid buses, and will stay with clean diesel. Freeman-Manzanares said if the agency is staying with the clean diesel, there is the option to consider a different look to the bus itself. Staff is also talking about replacing those in the 2018-19 timeframe. Staff will need to move on that quickly to allow for an 18-24 month build period.

Messmer said the Authority and staff need to think about how to explain the concept of clean diesel to the public. And how do we manage and maintain and work on doing the best we can with what we have.

Gadman said the clean diesel engines being built today versus those from ten years ago show a dramatic reduction in the particulate matter. They truly are cleaner.

Sullivan said there is clean energy and energy efficiency. So why not think of it as an "efficient diesel" which means it's efficient in the upfront costs, it's efficient in maintenance of those vehicles and how long they last. We're efficient with the tax payer dollars, efficient with fuel costs, efficient with the drivers, and so use the word "efficiency" as opposed to the word "clean." We can grasp a more holistic approach to our fleet and justify why we're making that choice.

## SHORT/LONG RANGE PLANNING STRATEGY

Freeman-Manzanares said the agency is under contract with Nelson Nygaard to undertake long and short range system services. This was contracted out before the community conversation project was defined. There was a proposed analysis of the fixed route, and a more constrained look at the long range plan. The previous plan was similar to our original project. That plan discussed offering service to northeast Lacey and increasing frequency on Martin Way. The Authority made the selection of the one they thought would be most useful, and that was putting 15-minute service on Martin Way and dropping off the service to northeast Lacey because of the significant cost to do both.

The introduction of the community conversation caused staff to expand thinking on how to approach the study, and as part of the community conversation, talked about what Intercity Transit should look like. Before going into that conversation, staff needs a solid plan on what that would look like. The consultant is preparing a proposal to provide additional research, outreach and future options. The staff will negotiate and come back to the Authority with an amended contract proposal. Staff's initial estimate is $\$ 50,000$.

Gadman said this is an opportune time to have a conversation with the community, where the Authority is looking at setting up different thresholds for service expansion or modifications. And to have the ability to take full advantage of the grant received from TRPC last year. Staff is asking the Authority if they feel comfortable with having Nelson Nygaard scope out a larger discussion and provide the Authority with another contract proposal.

Development Director, Eric Phillips, explained what the Authority would be looking at based on where we started with the constrained short/long range plan versus the expanded version that is being proposed.

Intercity Transit Authority Work Session
July 20, 2016
Page 5 of 6
After discussion, the Authority agreed to move forward with staff's recommendation.

## GENERAL MANAGER'S REPORT

Freeman-Manzanares thanked Vanpool Manager, Carolyn Newsome, and her staff for assisting with several marketing duties and responsibilities since there has been a shortage of staff.

Intercity Transit participated in the Lakefair parade on Saturday, July 16. Ryan Warner, attended, as did CAC members Sue Pierce and Victor VanderDoes.

Intercity Transit sponsored a local Roadeo on Sunday, July 17 at the Port of Olympia Airport tarmac. Twelve operators competed and there were 40 volunteers supporting the event.

Sales tax for June is at 13.56\%. That's 10.19\% over last year.

Ridership is down 4\%, and in an effort to promote and increase ridership, staff is piggybacking off of the Pokémon Go craze, and giving away the remainder of July monthly passes for free. Our Marketing Intern, former CAC Youth member, Grace Arnis, is developing the Facebook posts.

Freeman-Manzanares participated in the Transportation Policy Board conversation. They sent a list of issues they wanted to be addressed in the future, one which is vanpool. They also addressed the "empty bus" issue. Arnis volunteered to set up a video of the life cycle of a bus so we can actually show how that works.

Transit Appreciation Day is Wednesday, August 10 from 10 a.m. to 4 p.m. All are invited to attend.

## AUTHORITY ISSUES

Gadman invited the Authority to attend the State Auditor's exit conference being held on Friday, July 29, 2016, from 2 p.m. to 3 p.m. in the Board Room. Members interested in attending should notify Pat Messmer. Councilmember Sullivan expressed an interest in attending.

## ADJOURNMENT

## It was M/S/A by Councilmembers Gilman and Sullivan to adjourn the meeting at 7:00 p.m.

Intercity Transit Authority Work Session
July 20, 2016
Page 6 of 6

## INTERCITY TRANSIT AUTHORITY

Jeff Gadman, Chair

Date Approved: August 3, 2016
Prepared by Pat Messmer, Recording Secretary/
Executive Assistant, Intercity Transit

ATTEST

Pat Messmer
Clerk of the Board


# INTERCITY TRANSIT AUTHORITY AGENDA ITEM NO. 4-C <br> MEETING DATE: August 3, 2016 

## FOR: Intercity Transit Authority

FROM: Ann Freeman-Manzanares (705-5838)
SUBJECT: Special Meeting - September 21, 2016

1) The Issue: Whether to schedule a special meeting for Wednesday, September 21, 2016 to conduct a joint meeting of the Intercity Transit Authority and the Citizen Advisory Committee.
2) Recommended Action: Schedule a special meeting for Wednesday, September 21, 2016, to conduct a joint meeting of the Authority and the Citizen Advisory Committee.
3) Policy Analysis: When needed, the Authority can schedule special meetings, as long as members are given advance notice and the public is notified of such a change.
4) Background: Staff is recommending the Authority schedule a special meeting for Wednesday, September 21, 2016, to conduct the annual joint meeting of the Authority and Citizen Advisory Committee. Staff would cancel the regularly scheduled September 18th meeting of the CAC.
5) Alternatives:
A. Schedule a special meeting for Wednesday, September 21, 2016, to conduct a joint meeting of the Authority and CAC.
B. Schedule a joint meeting for a different date.
6) Budget Notes: This meeting is included in the 2016 budget.
7) Goal Reference: Having an opportunity to talk over issues between groups, sharing ideas and looking at the future of the agency meets all goals of Intercity Transit.
8) References: N/A.

# INTERCITY TRANSIT AUTHORITY <br> AGENDA ITEM NO. 4-D <br> MEETING DATE: August 3, 2016 

## FOR: Intercity Transit Authority

FROM: Katie Cunningham, 705-5837
SUBJECT: Janitorial Services and Supplies Contract Extension

1) The Issue: Consideration of a one-year contract extension with American Custodial, Inc. for Janitorial Services and Supplies at the Olympia Transit Center, Lacey Transit Center, Amtrak Centennial Station and Pattison Street Facilities.
2) Recommended Action: Authorize the General Manager to execute a one-year contract extension with American Custodial, Inc. to provide Janitorial Services and Supplies at the Olympia Transit Center, Lacey Transit Center, Amtrak Centennial Station and Pattison Street Facilities in an amount not-to-exceed $\$ 124,934$, including tax.
3) Policy: The Procurement Policy states the Authority must approve any expenditure over $\$ 25,000$.
4) Background: In August 2012, Intercity Transit awarded a two-year contract to American Custodial, Inc. The original contract included the option to extend services annually for up to three additional years. This recommendation represents the third and final one-year option available under the contract.

This recommendation also includes a weekend service level increase at the Olympia Transit Center and Pattison Street facilities. Transit Facilities staff requested this adjustment to enhance service coverage and facility cleanliness. The additional services will result in a $2.3 \%$ cost increase for this contract extension, which staff believes is fair and reasonable.

Facilities staff has indicated that Intercity Transit continues to be satisfied with American Custodial, Inc.'s contract performance, and remains confident that the Contractor will continue to provide high quality services which meet our requirements. Staff recommends the one-year contract extension with service level increase be approved.

## 5) Alternatives:

A. Authorize the General Manager to execute a one-year contract extension with American Custodial, Inc. for Janitorial Services and Supplies at the Olympia Transit Center, Lacey Transit Center, Amtrak Centennial Station and Pattison Street Facilities in an amount not-to-exceed $\$ 124,934$, including tax.
B. Defer action. This would result in a lapse in janitorial services coverage at Intercity Transit facilities.
6) Budget Notes: Intercity Transit's 2016 Janitorial Service and Supply budget is $\$ 140,000$. The total value of this contract amendment falls within the budgeted amount.
7) Goal Reference: Goal \#2: "Provide outstanding customer service." Goal \#3:
"Maintain a safe and secure operating system"
8) References: N/A.

# INTERCITY TRANSIT AUTHORITY AGENDA ITEM NO. 5 MEETING DATE: August 3, 2016 

## FOR: Intercity Transit Authority

FROM: Dennis Bloom, Planning Manager (5832)
SUBJECT: Public Hearing: Draft Annual Report \& Transit Development Plan

1) The Issue: Conduct a public hearing on the Draft 2015 Annual Report and 20162021 Transit Development Plan (TDP).
2) Recommended Action: Receive and consider public comments regarding the annual update of the Transit Development Plan.
3) Policy Analysis: The State requires a local transit's governing body conduct a public hearing each year on the Transit Development Plan. Authority policy also provides an opportunity for public comment prior to approval of this plan.
4) Background: The state, under RCW Section 35.58.2795, requires each public transit system provide an annual status report by September and provide a resource update of three specific elements:
a) Description of the system from the previous year (2015 Annual Report);
b) Description of planned changes, if any, to services and facilities (2016-2021);
c) Operating and Capital financing elements for the previous year (2015), budgeted for current year (2016) and planned for next five years (2017-2021).
Staff presented an overview of the Draft TDP at the Transit Authority's meeting on July 6, 2016. A presentation to the Citizen's Advisory Committee was also made on July 18. A public review process was initiated July 20 to encourage public comment and/or to participate in tonight's hearing.

This year's update is again an administrative process as part of the WSDOT requirement that transit systems comply with a September deadline. It is anticipated staff will request Authority approval of the TDP at their August 17, 2016, meeting. Upon final approval, staff will forward the document to WSDOT, local jurisdictions and other appropriate organizations and businesses.
5) Alternatives: N/A.
6) Budget Notes: This is currently covered under the 2016 Budget. The TDP simply reports on past and projected agency elements based on the current budget year. The development of next year's budget will be accomplished later in 2016, when discussions on the annual update of the agency's Strategic Plan takes place.
7) Goal Reference: Conducting a public hearing for the draft TDP reflects all current goals established for the agency.

## 8) References:

- Any public comment about the TDP received by Intercity Transit prior to the public hearing deadline will be distributed to the Authority as part of the public record.


## 2016 Timeline for TDP Process:

$\checkmark$ July 6, ITA: Present Draft TDP
$\checkmark$ July 18, CAC: Present Draft TDP
$\checkmark$ July 20, Public: Draft available to the public
August 3, ITA: Conduct Public Hearing
August 17, ITA: Request to Adopt TDP

> DRAFT
> Intercity Transit
> 2015
> Annual Report
> $\mathcal{E}$
> $2016-2021$
> Transit Development Plan

Prepared by the
Intercity Transit Executive Department - Planning Division

Intercity Transit Authority:
Jeff Gadman - Chair - City of Lacey
Ryan Warner - Vice Chair - Citizen Representative
Ed Bricker - Labor Representative
Bud Blake - Thurston County
Molly Carmody- City of Yelm
Clark Gilman - City of Olympia
Don Melnick - Citizen Representative
Karen Messmer - Citizen Representative
Debbie Sullivan - City of Tumwater

Ann Freeman-Manzanares - General Manager:
Intercity Transit
526 Pattison SE
PO Box 659
Olympia, WA 98507
360-786-8585

Intercity Transit complies with all federal requirements under Title VI, which prohibits discrimination on the basis of race, color or national origin.
If you have any questions concerning this policy or practice please, contact:
Intercity Transit, 526 Pattison SE, PO Box 659, Olympia, WA 98507 or by calling the agency's Title VI Officer at: 360.705.5885 or ephillips@intercitytransit.com

This document can be made available in other accessible formats. Please contact Customer Service: 360-786-1881 or outside Thurston County: 1-800-287-6348 TTY: 360-943-5211, Fax: 360-943-8760 or Customerservice@intercitytransit.com.

## Table of Contents

Section 1: Organization ..... 1
Section 2: Physical Plant ..... 3
Section 3: Service Characteristics ..... 4
Section 4: Service Connections ..... 5
Section 5: Activities in 2015 ..... 6
Section 6: State Proposed Action Strategies 2016-2021 ..... 8
Section 7: Summary of Proposed Changes 2016-2021 ..... 12
Section 8: Capital Improvement Program 2015-2021 ..... 14
Section 9: Operating Revenues \& Expenditures 2015-2021 ..... 24
Appendix: ..... 31A: Organizational ChartB: Service AreaC: Transportation Management Systems (WSDOT forms)D: Operating Data

## Introduction to Intercity Transit's 2015 Annual Report and 2016-2021 Transit Development Plan

This year's Transit Development Plan (TDP) continues a practice adopted by Intercity Transit in 2005. Prior to 2005 the "TDP process" was an opportunity to engage our governing body - the Intercity Transit Authority - our employees, customers and the general public to help define the direction of the transit system for the next six years.

At the time the TDP was combined with the update of the agency's "Strategic Plan," which provided an in-depth process for considering and developing future service designs, capital facilities, equipment, agency policies and other key business strategies. It also served as the basis for developing the coming year's annual budget. The time frame for this process covered several months and was completed each year in June and submitted to the WSDOT as required by Washington State law, RCW 36.57A.

With changes in WSDOT reporting requirements for the TDP in 2004 the current Intercity Transit process, established in 2005, now provides the basic reporting components and sections required under Washington State law. Intercity Transit however, continues to involve the public, agency staff, our Citizen Advisory Committee (CAC) and Transit Authority in annually reviewing and updating our "Strategic Plan," which is a separate process and document. The 'Plan' utilizes components of the TDP, but provides the more in-depth analysis and discussions for developing next year's annual budget (2017) and provides guidance for the future direction of the agency.

This year's "Draft 2015 Annual Report and 2016-2021 Transit Development Plan" will be presented at the Intercity Transit Authority meeting on July 6, 2016. Distribution of the draft document will then be made available the following week on Intercity Transit's web site, at local public libraries, Intercity Transit's OTC Customer Service Center in downtown Olympia, or by contacting Intercity Transit's administrative office. Local media news will be notified about the document and a notice and invitation to the public to comment on the TDP either electronically, by mail, fax, telephone, or in person at the hearing will be provided through the distribution of an on-board Rider News newsletter (July) with details on our web site and other social media outlets. This year it is anticipated the public hearing will be held at the Transit Authority meeting, 526 Pattison St SE, Olympia, WA, on August 03, 2016, starting at 5:30 pm.

## Section 1: Organization

This document represents Intercity Transit's annual update of a 5-year Transit Development Plan (TDP), as required under Washington State RCW Section 35.58.2795 and the federal Moving Ahead for Progress in the 21 ${ }^{\text {st }}$ Century (MAP-21). This report provides summary information for 2015 as well as projected changes for 2016-2021.

Intercity Transit, the business name for the Thurston County Public Transportation Benefit Area (PTBA), was established in September 1980 as authorized by Washington State law, RCW 36.57A. A brief history of the agency follows.

## Agency History

September 1980: Voters from Olympia, Lacey, Tumwater, and the surrounding urban area, approved collection of a sales tax of up to 3/10ths of $1 \%$ for the PTBA. On January 1, 1981, the PTBA Authority formally assumed control of local transit services previously operated through an intergovernmental agreement between the cities of Lacey, Olympia, and Tumwater.

May 1992: Further expansion of the Intercity Transit service area occurred. Thurston County voters outside the urban area approved the $3 / 10$ ths of $1 \%$ sales tax to support the expansion of the PTBA to include all of Thurston County. This included the south county cities and towns and rural areas of unincorporated Thurston County.
1995-1999: Local sales tax revenue slowed dramatically and resulted in the gradual reduction of service as a way of balancing service costs with revenues. In March 1999, a proposed 2/10ths of $1 \%$ increase in the sales tax for preserving service and a modest expansion failed, forcing an $8 \%$ reduction in service. Then in November '99, statewide Initiative 695 passed, which cut Motor Vehicle Excise Tax (MVET) revenue for transit. The courts found it unconstitutional, but the State Legislature subsequently eliminated it for public transit use.
2000-2002: The loss of MVET funding resulted in a decrease of $40 \%$ in revenue and required a $42 \%$ service reduction in February 2000. In early 2002, a Public Transportation Improvement Conference was convened of the jurisdictions in Thurston County resulting in agreement that reduced the service boundary to the urbanized areas of Olympia, Lacey, Tumwater and Yelm. The new boundary, established September 2002, became effective January 2003. In September ' 02 , voters within the new boundary approved an increase of $3 / 10$ ths to $6 / 10$ ths of $1 \%$ in local sales tax. The new rate went into effect in 2003.

2003-2005: Incremental service increases in 3 phases began. This reversed a trend that saw over a 50\% reduction in fixed-route service since 1995. Both Phase 1 (February '03) and Phase 2
(September '04) included $15 \%$ increases in service hours. A new corporate logo, bus graphics, and uniforms were also introduced in'04. During 2005 the focus was on rebuilding the fleet, updating operational software and systems, improving facilities, accessibility and shelters at bus stops and completing market research and ridership studies.

2006-2007: Implemented a Phase 3 increase of over 15\% in service hours. A circulator route, "Dash," was begun between the Capitol Campus and downtown Olympia. Completed a fixed route Short and Long Range Service Plan; 26 expansion vanpools acquired; installation of a communications system with advanced digital radio, AVL tracking, stop announcements and auto-passenger counters were completed in '07. In '07 a new multi-year service plan and a foundation for technological investments got underway. A small increase in service hours was implemented and upgrading of the fleet included 23 new buses (5 expansion), three Dial-A-Lift vans and 44 vanpools ( 27 expansion). Total system boardings in ' 07 increased $12 \%$ above ' 06 . A
new education program, "Smart Moves," for middle and high school students began; completed state funded Trip Reduction program with state offices in Tumwater; engaged over 1,000 participants in the annual Bicycle Commuter Contest.
2008-2009: An 11\% increase in service hours focused on local service enhancements and 15 minute service on major corridors. Expansion of the Martin Way Park \& Ride Lot (Lacey) began. Installation of on-board security camera for the fleet was completed. System wide ridership hit new record of over 5.1 million boardings in ' 08 as fuel prices nationwide rose to $\$ 3.50 \mathrm{gal}$. Received two national awards in '09: APTA's "Outstanding Public Transportation System" for medium sized systems and FTA's "Success in Enhancing Transit Ridership." Martin Way P\&R expansion completed ( 138 to 319 stalls); completed major market research and ridership studies; completed master site plan for expansion of the operations base and updated plan for the Olympia Transit Center (OTC) expansion; received WSDOT grants to construct a 300 stall P\&R on the Thurston County Waste and Recovery Center; and a 'Safe Routes to Schools' program for bicycle youth program at several schools. System's base fare increased from $\$ .75$ to $\$ 1$.

2010-2011: Acquired six hybrid replacement buses. Voters approved a $0.2 \%$ increase in local sales tax for transit, bringing the rate to $0.8 \%$ beginning Jan. '11. A Discounted Bus Pass pilot program began, to help local non-profit and human service agencies with their client's transportation needs. CTR law changes significantly increased the number of affected Thurston County worksite. $30^{\text {th }}$ Anniversary in 2011. Implemented a $3.1 \%$ service increase. Implemented an online trip planner and a regional application for 'next bus' information. Selected by FTA to receive ISO 14001-certified Environmental and Sustainability Management System (ESMS) training and created an agency ESMS. Continued major capital facility projects for the OTC (including accommodations for Greyhound), Operations Base, and Hawks Prairie P\&R Lot. Completed DAL client survey. Record fixed-route ridership of 4.5 million, and 5.3 million system wide.

2012: First transit system in the country to be awarded 'Gold Level' APTA Sustainability Commitment status. Continuation of innovative programs including Smart Moves youth outreach and BikePARTners that supports healthy commutes to schools. Bicycle Commuter Contest celebrates 25th Anniversary. Mike Harbour, GM for 17 years, moves on. Ann FreemanManzanares, Development Director, appointed Interim GM. Base adult fare increase of $25 \%$ approved for fixed route service and a $10 \%$ increase for vanpool fares. Demonstration Discounted Pass Program, begun in 2010, approved for future years. New federal legislation under "MAP21" eliminates discretionary funding for buses and bus facilities.
2013: ITA selects Ann Freeman-Manzanares as new General Manager. Local base fare increased from $\$ 1$ to $\$ 1.25$. New 332 stall Hawks Prairie Park \& Ride Lot officially opens in NE Lacey and receives American Public Works Assoc. "Project of the Year" for Washington State. Agency earns ISO 14001 Certification for Sustainability and Environmental practices, one of only nine transit systems in the country that have earned it to date. Implemented two WSDOT grant funded demonstration Express routes for service between Tumwater/Lakewood and limited Sound Transit peak service between Olympia/Seattle; includes partnering and opening a 30 stall park \& ride at a State Dept. of Health lot in Tumwater.

2014: Saw a modest $1 \%$ annual increase in fixed route ridership, but our $3^{\text {rd }}$ highest ridership year. The 'Walk N Roll' youth outreach program along with Bike PARTners continued to grow and is now in every school district we serve. Technology enhancement included relocating computer servers to a state agency facility in Olympia, which significantly reduced safety issues and remodeling costs on-site. Received Thurston County Chamber of Commerce 'Green Business of the Year Award.'

2015: The 'Walk N Roll' program continued to grow, adding 6 more schools to the program. Enhanced ADA accessibility to 30 more bus stops including the addition of four more shelters. Travel Trainers helped 72 individuals, teaching them to use bus service safely and confidently. Achieved first-ever statewide Grand Champion honor in State Public Transportation Roadeo competition.

## Governing Board

The Intercity Transit Authority governs the organization. The board increased to nine members with a state mandated addition of a labor representative in 2010. The other members consist of five elected officials representing the jurisdictions of Thurston County, Lacey, Olympia, Tumwater, and Yelm, plus three citizen representatives appointed by the Transit Authority. Citizen representatives serve three-year terms and elected officials are appointed by their respective jurisdiction. Intercity Transit is the only system in Washington State with citizen members serving on its governing board.

## Table of Organization

At the end of January 2015, Intercity Transit had 314 full-time equivalent staff positions (see table below for FTE's and Appendix A for organization chart).

| Department | Jan | Jan | Jan | Jan |
| :--- | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ |
| Executive | $\mathbf{4 . 5}$ | $\mathbf{3 . 0}$ | $\mathbf{3 . 0}$ | $\mathbf{3 . 0}$ |
| Development - (moved under Executive mid-2013) | $\mathbf{1 8 . 2 5}$ | $\mathbf{1 7 . 2 5}$ | $\mathbf{1 8 . 7 5}$ | 19.0 |
| Grants \& Sustainability | 3.0 | 2.0 | 2.0 | 2.0 |
| Planning | 4.0 | 4.0 | 4.0 | 4.0 |
| Procurement/Inventory | 6.0 | 6.0 | 7.0 | 7.0 |
| Marketing \& Communications | 5.25 | 5.75 | 5.75 | 6.0 |
| Human Resources - Assistants \& Analysts | 4.5 | $\mathbf{6 . 0}$ | $\mathbf{6 . 0}$ | $\mathbf{7 . 0}$ |
| Finance \& Administration | $\mathbf{1 1 . 0}$ | $\mathbf{1 1 . 0}$ | $\mathbf{1 1 . 0}$ | $\mathbf{1 0 . 0}$ |
| Accounting, Inventory, Clerical, | 6.0 | 6.0 | 6.0 | 5.0 |
| *Information Systems to Maintenance mid '08 | $5.0^{*}$ | 5.0 | 5.0 | 5.0 |
| back to Finance late-'10 |  |  |  |  |
| Operations: | $\mathbf{2 2 1 . 0}$ | $\mathbf{2 2 9 . 0}$ | $\mathbf{2 3 2 . 0}$ | $\mathbf{2 2 6 . 0}$ |
| Operators | 179.0 | 185.0 | 188.0 | 181.0 |
| Customer Service | 8.0 | 8.0 | 8.0 | 8.0 |
| Vanpool staff | 5.0 | 5.0 | 5.0 | 6.0 |
| Dial-A-Lift staff | 11.0 | 11.0 | 11.0 | 11.0 |
| Supervisors and Administrative | 15.0 | 18.0 | 18.0 | 18.0 |
| *Village Vans to Operations in '10 | 1.75 | 2.0 | 2.0 | 2.0 |
| Maintenance: (moved under Operations early 2014) | 48.0 | $\mathbf{4 7 . 0}$ | $\mathbf{4 7 . 0}$ | 49.0 |
| Coach/Auto Technicians | 22.0 | 22.0 | 22.0 | 22.0 |
| Facilities Maintenance | 7.0 | 7.0 | 7.0 | 7.0 |
| Other Maintenance | 19.0 | 18.0 | 18.0 | 18.0 |
| Total Employees | $\mathbf{3 0 7 . 2 5}$ | $\mathbf{3 1 3 . 7 5}$ | $\mathbf{3 1 7 . 7 5}$ | $\mathbf{3 1 4 . 0}$ |

## Section 2: Physical Plant

Intercity Transit dispatches all services from its administrative/operations base facility at 526 Pattison Street SE, Olympia. See Appendices for the completed forms for the State's information about Intercity Transit's rolling stock, owned equipment, and facility inventories.

## Section 3: Service Characteristics - 2015

During 2015, Intercity Transit provided a variety of transportation services benefiting the citizens of Thurston County (See Appendix for service area district maps):

## Fixed Route Service Operation

During 2015, 25 fixed routes as well as ADA paratransit (Dial-A-Lift) service were provided. Days of service on weekdays, generally 5:40 a.m. - 11:55 p.m.; Saturdays, generally 8:15 a.m. 11:55 p.m.; and Sundays between 8:30 a.m. - 9:00 p.m. No service on three national holidays. Fares: Recovered $11.7 \%$ of operating costs for Local service and $9.9 \%$ for Express.
Total Boardings: 4,306,582, a decrease of $-4.2 \%$ from 2014.

## Services for Persons with Disabilities Operation

"Dial-A-Lift" provides door-to-door service for people with qualified ADA disabilities, which prevents them from using regular bus services. Dial-A-Lift hours of operation reflect all Fixed Route service. No service on three national holidays.
Fares: Recovered about 3.5\% of operating costs.
Total Boardings: 161,594, an increase of $4.7 \%$ above 2014.
2015 Fare Structure for Fixed Route and Dial-A-Lift Service

| Local Service | Pixed Route | Per <br> Ride | Daily <br> Pass | Monthly <br> Pass | Olympress Service <br> Per Ride |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Regular Adult | $\$ 1.25$ | $\$ 2.50$ | $\$ 36.00$ | Monthly <br> Pass |  |
| Youth (6-17 yrs) <br> [Under 5 ride free] | $\$ 1.25$ | $\$ 2.50$ | $\$ 15.00$ | $\$ 3.00$ | $\$ 90.00$ |
| Reduced* | $\$ .50$ | $\$ 1.00$ | $\$ 15.00$ | $\$ 90.00$ |  |
| Dial-A-Lift <br> Reduced* | $\$ 1.00$ | $\$ 2.00$ | $\$ 36.00$ <br> $\$ 15.00^{*}$ | $\$ 1.25$ | $\$ 37.50$ |

* Reduced Fare Permit required. Eligibility based on age, disability or possession of a Medicare card.


## Vanpool Services Operation

By the end of 2015 there were 192 Intercity Transit commuter vanpools in operation throughout the Puget Sound region. This was a decrease from 214 the year before. Over the year, the vanpools carried an average of 1,400 daily riders.
Intercity Transit staff markets the vanpool program to employers and individuals, facilitates group formation and provides defensive driver training. Vanpool groups lease the vehicles on a monthly mileage basis, operate independently and are generally in service weekdays, from 5 a.m. $-6: 30$ p.m.

Fares: Recovered $100 \%$ of the operating costs.
Total Boardings: 685,112 a decrease of 7.9\% from 2014.
Ridematching: Free service. Intercity Transit is a member of the Washington State Ridematch network that provides a computerized database of individuals interested in carpooling and vanpooling. Established in 1997, it allows commuters the ability to make contacts throughout the state either through a toll free call, over the internet or with a local transit system.

## Village Vans Operation

Service began in 2002 for this grant-funded program. Intercity Transit operates with three vans to help meet work-related transportation challenges for families with low incomes. The program provided employment support transportation for 238 individuals totaling 4,728 rides in 2015 ( $13.4 \%$ increase from 2014). Of the client base, $19 \%$ were qualified under Temporary Assistance for Needy Families and $81 \%$ were low-income receiving some type of state or federal assistance. Vans are driven by eligible job seekers participating in the Customized Job Skills Training Program, volunteering a total of 6,109 hours in 2015. Ten drivers secured employment (five in transportation) as did dozens of passengers. This innovative program works with representatives from the Departments of Employment Security, Social and Health Services, South Puget Sound Community College, WorkSource Thurston County, Pacific Mountain Workforce Development Council and other local service agencies to support their client needs.

## Commute Trip Reduction Program

In 2005, the Thurston region implemented a program transition with a cooperative effort that includes the Thurston Regional Planning Council overseeing program administration and worksite support and Intercity Transit providing outreach and marketing efforts. The partnership continues for the 2013-15 biennium. It makes a commitment to the goals of the CTR law while providing on-going assistance to both local jurisdictions and affected worksites. With the goal of reducing the number of single occupant vehicle trips, vehicle miles traveled, congestion, greenhouse gases, and providing other options for commuters, the region is now required under Senate Bill 6088 that all state worksites and state colleges - no matter the size - in the urban portions of Lacey, Olympia and Tumwater to participate in CTR. Currently, the regional team supports 196 active worksites of which 190 are affected sites and 6 are voluntary.

## Land Use Review and Support Program

Intercity Transit is one of a number of local agencies to review land use permitting requests. Staff works with local government staff (Development and Public Works departments), Planning Commissions, as well as public and private developers to maximize the opportunities for public transportation through effective land use planning and urban design. During 2015 staff received 347 submissions, reviewed 13 and commented on 13 applications requesting transit amenities that typically are for a stop, shelter or improved ADA access to an existing stop.

## Agency Performance

Intercity Transit actively pursues efforts to improve the internal operations of the agency through improved communications, increased employee involvement and better understanding of the needs and desires of customers and employees. These efforts are aimed at making Intercity Transit a valued employer and enabling employees to effectively serve their customers.
Intercity Transit reviews financial and ridership performance on a monthly basis, and provides regular updates to the Citizen Advisory Committee and the Intercity Transit Authority.

## Section 4: Service Connections

In 2015 Intercity Transit provided connections with five other public transit operators, two rural regional service providers, as well as Greyhound and Amtrak service:

[^0]
# Mason County Transit 

Pierce Transit (PT)

Sound Transit (ST)

## AMTRAK

## Greyhound

Rural Transportation
(South Thurston Co - Olympia)

Park \& Ride Lots (P\&R)

Educational Facilities

Service connections between Shelton and Olympia's Capital Mall and Olympia Transit Center.

IT's Express service connects with PT's local service in Lakewood (Lakewood Station and SR 512 P\&R Lot) and Tacoma (connections at the Tacoma Dome Station, Tacoma Mall, and at numerous stops in downtown Tacoma.

IT funds a limited service ST Route 592 weekday extension between Olympia and DuPont, where it returns to regular service to Seattle. IT's Express routes also connect with ST service in Lakewood (Lakewood Station and SR 512 P\&R Lot), Tacoma Dome Station, and downtown Tacoma. From these locations riders can transfer to ST buses that travel to Seattle and Sea-Tac Airport or to Sounder passenger rail to Seattle.

Intercity Transit Routes 64 and 94 provide half hour peak and hourly off-peak service 7 days a week to the Olympia-Lacey Centennial Station location.

Four local Intercity Transit routes provide service within a block of the downtown Olympia Greyhound terminal.

South Thurston County system funded by a WSDOT grant provides regional connections with Intercity Transit routes in a number of locations within our service district.

Fixed routed service available at four lots:
Lacey: Martin Way P\&R (Local \& Express)
Hawks Prairie P\&R (Express)
Tumwater: DOH Lot (Local \& Express)
Thurston Co: Amtrak rail station (Local)
Fixed route service is available to many public and private schools throughout the service district. Of four school districts that exist within Intercity Transit's service district, 43 of the 50 public schools are served by transit routes. A number of these routes also have schedules that coincide with the school's opening and closing hours of operation.

Intercity Transit provides service to the Olympia campuses of South Puget Sound Community College and The Evergreen State College. The school's participate in local Commute Trip Reduction incentives and have transit pass programs for students, faculty and staff. Service is also available to Saint Martin's University (Lacey), but not onto the campus. The University has a student pass program for undergraduates.

## Section 5: Activities in 2015

Fixed route ridership decreased (-4.2\%) from the year before with 4.3 million boardings and $4.56 \%$ decrease overall for all services at 5.15 million boardings. Significant agency activity during the year continued with on-going capital facility project reviews and work on environmental sustainable goals. The effort to limit the use of non-renewable resources, reducing waste and
pollution, promoting public stewardship and protecting the natural environment as much as possible has been incorporated into training of all Intercity Transit staff. This year we conducted our second 'surveillance' audit of the agency's international ISO 14001 Certification and maintained it.

Capital facilities involved the continuing effort to accommodate needed growth with retrofitting of the Olympia Transit Center and on-going efforts to secure additional funds for fuel tank replacements at our Pattison Street operations base. Highlights of other agency efforts during the year included:
New Fleet Vehicles: Vanpool - 42 replacements acquired.
Transit Service: Service hours increased slightly ( $0.3 \%$ ) with the extension of Route 42 to serve the Thurston County's Accountability and Restitution Center in Tumwater.

New Shelters and Amenities: Retrofitted 2 additional shelters with interior solar lighting. Accessibility improvements were added to 30 stops. This included 2 completed through private developer improvements, 1 through local road improvements and 4 shelters/pads added to existing stops.

Service Planning: Continued to monitor service and make service adjustments to improve ontime performance and transfer connections. On-going participation with local jurisdictions on road improvement projects including regional projects for I-5 (JBLM, various interchanges) and SR 101. The "Smart Corridor" transit priority demonstration project got underway with the hiring of a consultant team to help implement the project over the next 2 years.

Ridership: System-wide Total Boardings (Fixed Route, DAL and Vanpool) decreased -4.5\% from 2014. The downturn, though modest, appears to reflect a drop in regional fuel prices. Fixed Route boardings decreased $-4.2 \%$, Vanpooling was down $-7.9 \%$, but Dial-A-Lift increased $4.7 \%$.

Village Van: This unique 'Welfare-to-Work' transportation program had 4,728 boardings ( $13.4 \%$ increase from 2014) but provided transportation to 238 low-income job seekers and workers during 2015. This program operates in partnership with 16 local social and public service agencies, including the South Puget Sound Community College and WorkSource Thurston County. The program trains individuals to become skilled employees and provides rides to qualified individuals.
Vanpool Program: The 685,112 passenger trips recorded during 2015 was a decrease of $-7.9 \%$ from the previous year's tally. The decrease appears to reflect partly the increase in monthly fares but also the drop in local fuel prices. Groups dropped from 220 in 2014 to 192. Vans operate throughout a five countywide region. With certified and trained volunteer drivers in place, these vanpools carried an average of 1,400 daily riders removing over 1,000 vehicles from our congested roadways each weekday.

Innovative Programs: Intercity Transit continued the growth of its "Walk N Roll" youth education program throughout the year reaching an estimated 2,429 students in 17 schools through field trips, school assemblies, and special events like, "Bike and Walk to School Days." The program also included after school classes where students receive 8 hours of bike maintenance and safe riding instruction. Student completing the class earned a functional bike, helmet, lock and lights. Total instruction time was 592 hours. The intent of this award winning program is to build the next generation of safe and healthy bikers, walkers and transit riders. We also provided on-line trip planning for fixed route service and participation in regional smart phone applications for 'next bus' arrival information and trip planning. Our Travel Training and Bus Buddy program also works with individuals to help them either transition from paratransit DAL service to fixed route or to help with people becoming comfortable with riding a bus.

## Section 6: State Proposed Action Strategies 2016-2021

The Washington State Department of Transportation (WSDOT) requires transit agencies report how they are accomplishing the state's public transportation objectives as identified in state's Transportation System Policy Goals (RCW 47.04.280). This supersedes WSDOT's "Investment Guidelines" previously requiring listing of accomplishments.

## 1. PRESERVATION

Preserve and extend prior investments in existing transportation facilities and the services they provide to people and commerce.

| 2015 | 2016 -2021 |
| :---: | :---: |
| Continued Effort | Continuing Effort |

2015

2016-2021

- Programmed funds continued for facility repairs at the central base as well as maintenance of all transit centers.
- Vanpool program had 42 replacements, which keeps the fleet at 257 vans.
- Continued efforts on fuel tank replacements and expanding vehicle parking at Intercity Transit base of operations.
- Continued master plan for expansion of the Olympia Transit Center for fixed route service and an interstate private carrier (Greyhound).
- Maintained two WSDOT Regional Mobility Grants for service enhancements of Express service along the I-5 corridor between Thurston and Pierce Counties. Includes weekday service between Tumwater Lakewood and extension of existing ST 592 (DuPont/Seattle) to Olympia.
- Depending on how much local economic recovery might occur it appears that basic service levels may remain the same over the next 3-5 years.
- Update fixed route Short (6yr) and Long Range (20 yr) Service Plan.
- Intercity Transit will continue to provide performance measurement reports that provide summaries to the public providing attributes, costs and utilization of the existing system services.
- Continue to replace aging fleet vehicles but the loss of federal discretionary grant funding continues to have a major impact on agency finances.
- Continue work on capital facility projects, but expansion/remodeling of Operations Base in Olympia will be toward fuel tank replacement and environmental work while the rest of the project is on hold due to change in federal assistance. Continue effort to expand the downtown Olympia Transit Center as a transportation hub, including accommodating Greyhound service.


## 2. SAFETY

Target construction projects, enforcement, and education to save lives, reduce injuries, and protect property.

| 2015 | 2016 - 2021 |
| :---: | :---: |
| Made Progress | Continuing Effort |

2015

- Safety is the system's \#1 priority. A Safety Committee meets monthly and, if necessary, confers on major events. Reviews monthly safety report, maintains ongoing safety records, and makes recommendations to General Manager on issues involving employee and customer safety.
- Outreach program to local schools for "Bike and Walk to School Days." Other sponsored programs include classes where students receive a recycled bike and learn maintenance and traffic skills and PE classes where students learn how to walk and bike to stay healthy and safe.
- Regular and on-going training of Operations and Maintenance staff as well as other agency support staff, remains a vital component of the organization.
- Participates in local and regional efforts to increase and improve security components within the service district and improve coordination between agencies, especially with local emergency services.
- Updated security cameras to capture images for service facilities. Cameras dramatically improved the ability to document safety concerns and to provide additional evidence in the case of security and accidents.
- Continued participation in the regional coordination of the Puget Sound Transportation Recovery Plan for major disruptions to vital transportation facilities and links at both the local and regional level. Continued a staff committee to review and assemble an Emergency Preparedness Plan.
2016-2021
- Agency will continue to develop programs for agency staff. In-house safety programs and committees will meet on a regular basis to review existing conditions with an eye toward making improvements.
- Continue to work and make improvements with other public agencies and school districts regarding safety on both the local and regional level.
- Inter-local project with City of Tumwater to improve on-street Tumwater Sq. transfer station accessibility, pedestrian safety and bus alignments.
- Provide training to ensure understanding and integration of National Incident Management System, the Emergency Preparedness and Security Plan and the continuity of an Operations Plan. Continue to acquire and implement modifications to facilities and vehicles to increase safety and security for customers and employees.


## 3. STEWARDSHIP

Continuously improve the quality, effectiveness, and efficiency of the transportation system.

| 2015 | 2016 -2021 |
| :---: | :---: |
| Continued Effort | Continuing Effort |

[^1]modes as well as Transportation Demand Management and Commute Trip Reduction efforts.

- Active in local and regional partnerships that regularly review, plan, coordinate and implement improvements to the local transportation network of roads, technology and services.
- Transit staff regularly attend community business association meetings to update and provide leadership in efforts to support and improve local and regional transportation network.
- Actively participate in a coordination network of human service organizations to improve mobility for those challenged by income, age and/or disabilities.
- Actively participating in on-going efforts of the regional Sustainability Plan that includes housing and transportation choices.
- Staff will continue to work with and participate in community based efforts to improve transportation efficiency in both the technical and service fields.
- Staff will actively participate in continuing partnerships that address transportation issues locally and regionally, including but not limited to updates of local Comprehensive Plans, Joint Base Lewis McChord/I-5 impacts, Inter-change Justification Reports (I-5), and Regional Transportation Plan updates.


## 4. MOBILITY

Facilitate movement of people and goods to contribute to a strong economy and a better quality of life for citizens.

| 2015 | 2016-2021 |
| :---: | :---: |
| Made Progress | Continuing Effort |

2015

- Intercity Transit staff continues to participate in local and state planning efforts to develop and improve alternatives to single occupant vehicles. Staff also takes an active role with regional long range transportation planning activities dealing with congestion and environmental impacts.
- Intercity Transit and Thurston Regional Planning Council cooperatively participate in local CTR efforts including promotional marketing efforts with employers around Thurston County. We continued to provide significant education and outreach program efforts to public schools (over 2,400 students). And staff coordinates annual county-wide bicycle commuting contest (May of each year).
- Staff regularly participates in local jurisdictional land use reviews, development of community design components (land and roads) and comments on transportation/transit integration and ADA accessibility.
- Provided service integration with four other public transit providers, one rural regional service provider, as well as interstate bus and passenger rail service.
- Continued regional integration of transportation services for fixed route and Dial-A-Lift (paratransit) services and a commuter Vanpool program as well as a Village Van program for qualified low-income recipients.
- Continued fare integration partnerships with public agency employers and colleges that support employees and students use of transit. This included
on-going work with WSDOT on state employee's transit 'STAR Pass' program. The pass is available to all State employees working in Thurston County. Locally, student pass programs with the South Puget Sound Community College, Evergreen State College and St. Martin's University continued. Pass agreements with Thurston County, the Thurston Regional Planning Council and City of Olympia continued.
- Intercity Transit staff regularly participates in local and regional meetings and with local, regional, state and tribal staff. Over the past year, the agency continued the regional effort, now funded with federal CMAQ funds, to make improvements in local traffic control technologies that will incorporate a 'transit signal priority' system.
- Continued for the 2015-17 Biennium two WSDOT Regional Mobility Grants for service enhancements of Express service along the I-5 corridor between Thurston and Pierce Counties.
- Intercity Transit staff will continue to work proactively on a range of transportation planning activities on the local and state level.
- Additional community based and target marketing efforts will continue.
- The agency will continue to work with the other regional transportation providers to improve service connections between providers.
- Staff will continue to work with local jurisdictions in partnership to improve public transportation accessibility between residential and commercial areas as well as on-going partnerships for road and safety improvements.
- Staff will also continue to work with local jurisdictions, state, and tribal organizations in partnership to improve public transportation in the region for services along state roads and federal interstate.
- Agency will continue to integrate improvements in information technology and transportation services. This includes web-based information, fare payment systems, mobile phone applications, on-street displays and other information materials that encourage and promote transportation alternatives.


## 5. ENVIRONMENTAL QUALITY AND HEALTH

Bring benefits to the environment and our citizens' health by improving the existing transportation infrastructure.

| 2015 | 2016-2021 |
| :---: | :---: |
| Made Progress | Continuing Effort |

## 2015

- Intercity Transit continues to utilize biodiesel fuel of a 5-20\% blend throughout the fleet. All buses run on ultra-low sulfur diesel. The agency meets all on-site water quality standards including recycling antifreeze, engine oil, office paper, cardboard and printer inks.
- In-house Sustainability Committee continued to review and analyze existing conditions, made recommendations for improving the agency's sustainability efforts, continued to provide in-house training of agency staff, and conduct an annual audit and report.
- Agency staff continued to monitor and track Sustainability Commitment status for Environmental \& Sustainability Policies and ISO 14001 certification of meeting those standards. Staff continued to coordinated in-house efforts
for training, monitoring and improving agency-wide sustainability efforts.
- On-going effort to coordinate and implement sustainability practices into a variety of transportation related programs and projects around our service district and region. This includes on-going participation with Sustainable Thurston County and Thurston Thrives activities
- Intercity Transit will continue to utilize biodiesel and ultra-low sulfur diesel. Higher blends of biodiesel maybe possible depending on cost.
- Implementing testing of synthetic oil for diesel engines, which anticipates a cost savings in total oil consumption and improved vehicle mileage.
- Agency core staff will continue work on Environmental and Sustainability Management Systems as a certified agency. Continue the audit and reporting process that "analyzes, controls and reduces the environmental impact of the agency's activities, products and services and to operate with greater efficiency and control."
- On-going review and consideration of better fixed route coach replacement technologies that can provide cleaner diesel engine and lower costs replacement parts than the current fleet of hybrid buses.
- Continue growth of the "Smart Moves" youth education program involving students, parents, teachers and community members to help students confidently and safely bicycle, walk, and ride transit. Support healthy choices year-round of biking, walking and transit use, including hosting the annual Thurston County Bicycle Commuter Contest and increasing our outreach efforts at employment sites effected by state and local Commute Trip Reduction requirements.


## Section 7: Summary of Proposed Changes 2016-2021

In addition to the efforts Intercity Transit will engage in to meet Washington State's Transportation System Policy Goals, the following table provides a summary of proposed changes for service, facilities and equipment over the next six years:

| 2016 | Preservation/Maintain | Expansion |
| :---: | :---: | :---: |
| Services | (Express) WSDOT grant funded | No Change |
| Facilities | Bus stop improvements (Tumwater Sq Transfer Station) | No Change |
| Equipment | DAL: 5 <br> Vanpools: 38 | DAL: 2 |
| $\underline{2017}$ | Preservation/Maintain | Expansion |
| Services | (Express) WSDOT grant funded thru 6/30/17 | No Change |
| Facilities | Bus Stop improvements | No Change |
| Equipment | Buses: 7 <br> Vanpools: 38 <br> DAL: 1 | Vanpools: 11 |


| $\underline{\mathbf{2 0 1 8}}$ | Preservation/Maintain | Expansion <br> Services <br> Facilities |
| :--- | :--- | :--- |
| Equipment | No Change | No Change |
|  | DAL: 18 <br> Vanpools: 37 | No Change |

VEHICLE PROJECTIONS


Capital Plan: 2015-2021

| Total Expenses |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Expenses | 2015 |  | 2016 | 2017 | 2018 | 2019 |  | 2020 | 2021 |
| Coaches | \$ | - | \$ - | \$ | \$ 3,151,425 | \$ 3,245,967 | \$ | 14,209,222 | \$ - |
| Major Vehicle Components | \$ | - | \$ - | \$ 1,800,000 | \$ | \$ 2,100,000 | \$ | - | \$ 1,500,000 |
| Dial-A-Lift Vans | \$ | - | \$ 1,054,712 | \$ 467,840 | \$ 2,905,287 | \$ 334,108 | \$ | 1,729,009 | \$ 178,952 |
| Vanpools |  | 988,616 | \$ 1,126,510 | \$ 1,503,446 | \$ 1,524,310 | \$ 1,347,586 | \$ | 2,245,209 | \$2,112,538 |
| Village Vans | \$ | - - | \$ | \$ | \$ | \$ 32,830 | \$ | - | \$ 70,337 |
| Total Expenses for Vehicles |  | 988,616 | \$2,181,222 | \$ 3,771,286 | \$ 7,581,022 | \$ 7,060,491 | \$ | 18,183,440 | \$3,861,827 |





| Facility Trailers | 2015 |  |  | 2016 |  | 2017 |  | 2018 |  | 2019 |  | 2020 |  | 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Facility Trailer Unit Cost |  | \$15,000 |  | \$10,800 |  | \$11,200 |  | \$11,600 |  | \$12,000 |  | \$12,400 |  | \$12,800 |
| Vehicle Cost Inflation Rate |  | 3.5\% |  | 3.5\% |  | 3.5\% |  | 3.5\% |  | 3.5\% |  | 3.5\% |  | 3.5\% |
| Total Units Purchased |  | 1 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |
| Total Expense | \$ | 15,000 | \$ | - |  |  |  | - | \$ | - | \$ | - | \$ | - |






| TOTAL OTHER CAPITAL COSTS | $\$ 1,908,000$ | $\$ 16,735,282$ | $\$ 11,837,000$ | $\$ 5,736,000$ | $\$ 29,432,203$ | $\$ 577,500$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |$\$ 22,922,000$

## Section 9: Operating Revenues 2015-2021

| WSDOT Report - 2015 | General Fund | Working Capital | Total |
| :---: | :---: | :---: | :---: |
| Beginning Balance January 1, $\mathbf{2 C O}^{\prime} 5$ | \$23,757,544 | \$9,437,091 | \$33,194,635 |
| Revenues |  |  |  |
| Sales Tax | 33,696,773 |  | 33,696,773 |
| Motor Vehicle Excise Tax |  |  | - |
| Farebox | 4,760,962 |  | 4,760,962 |
| Sales Tax Equalization |  |  |  |
| Federal Operating Grants | 3,948,818 |  | 3,948,818 |
| State Operating Grants | 1,759,477 |  | 1,759,477 |
| Other | 653,017 |  | 653,017 |
| Contribution To Accounts | $(364,567)$ | 364,567 | - |
| Total Available | \$68,212,024 | \$9,801,658 | \$78,013,682 |
| Operating Expenses |  |  |  |
| Vanpool/Rideshare P\&M | 1,724,094 |  | 1,724,094 |
| Vanpool/Rideshare System Expansion | - |  | - |
| Fixed Route P\&M | 21,379,926 |  | 21,379,926 |
| Fixed Route System Expansion |  |  | - |
| Commuter Bus P\&M | 2,887,771 |  | 2,887,771 |
| Commuter Bus System Expansion |  |  |  |
| Paratransit ADA P\&M | 8,045,987 |  | 8,045,987 |
| Paratransit ADA System Expansion | - |  | - |
| Rideshare/CTR P\&M | - |  | - |
| Amtrak Station P\&M | 65,484 |  | 65,484 |
| Annual Depreciation | 6,534,955 |  | 6,534,955 |
| Contribution To Accounts |  |  | - |
| Total Expenses | \$40,638,217 | - | \$40,638,217 |
| Add Back Depreciation | 6,534,955 |  | 6,534,955 |
| Net Cash Available | \$34,108,762 |  | \$34,108,762 |
| Capital |  |  |  |
| Capital Revenue |  |  |  |
| Federal Capital Grant - Sec 5307 |  |  |  |
| Federal Capital Grant - Sec 5309 | 614,238 |  | 614,238 |
| State Capital Grants | - |  | - |
| Total Capital Revenue | \$614,238 | - | \$614,238 |
| Capital Expenses |  |  |  |
| System P\&M |  |  |  |
| Equipment \& Furnishings | 820,318 |  | 820,318 |
| Replace Coaches - |  |  | - |
| Replace Shuttle Vans/Small Coaches |  |  | - |
| Replace DAL Vans - |  |  | - |
| Replace Vanpool Vans - | 988,624 |  | 988,624 |
| Replace Staff Vehicles |  |  | - |
| Facilities |  |  |  |
| System Expansion |  |  | - |
| Coach - |  |  | - |
| Shuttle Van - Small Coach |  |  | - |
| DAL Van |  |  | - |
| Vanpool Van |  |  | - |
| Facilities | 7,945 |  | 7,945 |
| Total Capital Expenses | 1,816,887 |  | \$1,816,887 |
| Ending Balance December 31, 2015 | \$32,906,113 | \$9,801,658 | \$42,707,771 |


| WSDOT Report - 2016 | General Fund | Working Capital | Total |
| :---: | :---: | :---: | :---: |
| Beginning Balance January 1, 2016 | \$32,906,113 | \$9,801,658 | \$42,707,771 |
| Revenues |  |  |  |
| Sales Tax | 33,696,773 |  | 33,696,773 |
| Motor Vehicle Excise Tax |  |  | - |
| Farebox | 4,760,962 |  | 4,760,962 |
| Sales Tax Equalization |  |  |  |
| Federal Operating Grants | 4,302,114 |  | 4,302,114 |
| State Operating Grants | 1,308,941 |  | 1,308,941 |
| Other | 2,889,670 |  | 2,889,670 |
| Contribution To Accounts | $(200,293)$ | 200,293 | - |
| Total Available | \$79,664,280 | \$10,001,951 | \$89,666,231 |
| Operating Expenses |  |  |  |
| Vanpool/Rideshare P\&M | 1,860,368 |  | 1,860,368 |
| Vanpool/Rideshare System Expansion | - |  | - |
| Fixed Route P\&M | 26,278,799 |  | 26,278,799 |
| Fixed Route System Expansion |  |  | - |
| Commuter Bus P\&M | 3,116,024 |  | 3,116,024 |
| Commuter Bus System Expansion |  |  |  |
| Paratransit ADA P\&M | 8,681,951 |  | 8,681,951 |
| Paratransit ADA System Expansion | - |  | - |
| Rideshare/CTR P\&M | - |  | - |
| Amtrak Station P\&M | 70,660 |  | 70,660 |
| Annual Depreciation | 6,731,004 |  | 6,731,004 |
| Contribution To Accounts |  |  | - |
| Total Expenses | \$46,738,807 | - | \$46,738,807 |
| Add Back Depreciation | 6,731,004 |  | 6,731,004 |
| Net Cash Available | \$39,656,477 |  | \$39,656,477 |
| Capital |  |  |  |
| Capital Revenue |  |  |  |
| Federal Capital Grant - Sec 5307 |  |  |  |
| Federal Capital Grant - Sec 5309 | 8,246,526 |  | 8,246,526 |
| State/Local Capital Grants | 22,500 |  | 22,500 |
| Total Capital Revenue | \$8,269,026 | - | \$8,269,026 |
| Capital Expenses |  |  |  |
| System P\&M |  |  |  |
| Equipment \& Furnishings | 555,500 |  | 555,500 |
| Replace Coaches - |  |  | - |
| Replace Shuttle Vans/Small Coaches |  |  | - |
| Replace DAL Vans - | 1,049,616 |  | 1,049,616 |
| Replace Vanpool Vans - | 1,126,510 |  | 1,126,510 |
| Replace Staff Vehicles | 122,100 |  | 122,100 |
| Facilities | 15,979,782 |  | 15,979,782 |
| System Expansion |  |  | - |
| Coach - |  |  | - |
| Shuttle Van - Small Coach |  |  | - |
| DAL Van |  |  | - |
| Vanpool Van |  |  | - |
| Facilities |  |  | - |
| Total Capital Expenses | \$18,833,508 |  | \$18,833,508 |
| Ending Balance December 31, 2016 | \$29,091,995 | \$10,001,951 | \$39,093,946 |


| WSDOT Report - 2017 | General Fund | Working Capital | Total |
| :---: | :---: | :---: | :---: |
| Beginning Balance January 1, 2017 | \$29,091,995 | \$10,001,951 | \$39,093,946 |
| Revenues |  |  |  |
| Sales Tax | 35,213,128 |  | 35,213,128 |
| Motor Vehicle Excise Tax |  |  | - |
| Farebox | 5,029,358 |  | 5,029,358 |
| Sales Tax Equalization |  |  |  |
| Federal Operating Grants | 3,732,215 |  | 3,732,215 |
| State Operating Grants | 385,922 |  | 385,922 |
| Other | 2,280,122 |  | 2,280,122 |
| Contribution To Accounts | $(158,881)$ | 158,881 | - |
| Total Available | \$75,573,859 | \$10,160,832 | \$85,734,691 |
| Operating Expenses |  |  |  |
| Vanpool/Rideshare P\&M | 1,889,921 |  | 1,889,921 |
| Vanpool/Rideshare System Expansion | 76,358 |  | 76,358 |
| Fixed Route P\&M | 26,619,881 |  | 26,619,881 |
| Fixed Route System Expansion |  |  | - |
| Commuter Bus P\&M | 3,165,522 |  | 3,165,522 |
| Commuter Bus System Expansion |  |  |  |
| Paratransit ADA P\&M | 8,819,865 |  | 8,819,865 |
| Paratransit ADA System Expansion | - |  | - |
| Rideshare/CTR P\&M | - |  | - |
| Amtrak Station P\&M | 71,783 |  | 71,783 |
| Annual Depreciation | 6,932,934 |  | 6,932,934 |
| Contribution To Accounts |  |  | - |
| Total Expenses | \$47,576,264 | - | \$47,576,264 |
| Add Back Depreciation | 6,932,934 |  | 6,932,934 |
| Net Cash Available | \$34,930,529 |  | \$34,930,529 |
| Capital |  |  |  |
| Capital Revenue |  |  |  |
| Federal Capital Grant - Sec 5307 |  |  |  |
| Federal Capital Grant - Sec 5309 | 1,037,943 |  | 1,037,943 |
| State Capital Grants | 320,007 |  | 320,007 |
| Total Capital Revenue | \$1,357,950 | - | \$1,357,950 |
| Capital Expenses |  |  |  |
| System P\&M |  |  |  |
| Equipment \& Furnishings | 7,337,000 |  | 7,337,000 |
| Replace Coaches - | 1,800,000 |  | 1,800,000 |
| Replace Shuttle Vans/Small Coaches |  |  | - |
| Replace DAL Vans - | 311,893 |  | 311,893 |
| Replace Vanpool Vans - | 1,165,938 |  | 1,165,938 |
| Replace Staff Vehicles | 197,347 |  | 197,347 |
| Facilities | 4,500,000 |  |  |
| System Expansion |  |  | - |
| Coach - |  |  | - |
| Shuttle Van - Small Coach |  |  | - |
| DAL Van | 155,947 |  | 155,947 |
| Vanpool Van | 337,508 |  | 337,508 |
| Facilities |  |  | - |
| Total Capital Expenses | \$15,805,633 |  | \$15,805,633 |
| Ending Balance December 31, 2017 | \$20,482,846 | \$10,160,832 | \$30,643,678 |



Total Capital Expenses

Ending Balance December 31, 2018

| General Fund | Working Capital | Total |
| :---: | :---: | :---: |
| \$20,482,846 | \$10,160,832 | \$30,643,678 |
| 37,357,607 |  | 37,357,607 |
| 5,213,432 |  | $5,213,432$ |
| 3,273,399 |  | 3,273,399 |
| 385,922 |  | 385,922 |
| 1,065,916 |  | 1,065,916 |
| $(482,014)$ | 482,014 | - |
| \$67,297,108 | \$10,642,846 | \$77,939,954 |
| 2,059,556 |  | 2,059,556 |
| 79,981 |  | 79,981 |
| 27,802,705 |  | 27,802,705 |
|  |  | - |
| 3,315,689 |  | 3,315,689 |
|  |  | - |
| 9,238,265 |  | 9,238,265 |
| - |  | - |
| - |  | - |
| 75,188 |  | 75,188 |
| 7,140,922 |  | 7,140,922 |
|  |  | - |
| \$49,712,306 | - | \$49,712,306 |
| 7,140,922 |  | 7,140,922 |
| \$24,725,724 |  | \$24,725,724 |
| 3,574,865 |  | 3,574,865 |
| 329,457 |  | 329,457 |
| \$3,904,322 | - | \$3,904,322 |
| 5,293,000 |  | 5,293,000 |
| 3,151,425 |  | 3,151,425 |
|  |  | - |
| 2,905,287 |  | 2,905,287 |
| 1,174,992 |  | 1,174,992 |
| 269,764 |  | 269,764 |
| 443,000 |  | 443,000 |
|  |  | - |
|  |  | - |
|  |  | - |
| 349,322 |  | 349,322 |
|  |  | - |
| \$13,586,790 |  | \$13,586,790 |
| \$15,043,256 | \$10,642,846 | \$25,686,102 |


| WSDOT Report - 2019 | General Fund | Working Capital | Total |
| :---: | :---: | :---: | :---: |
| Beginning Balance January 1, 2018 | \$15,043,256 | \$10,642,846 | \$25,686,102 |
| Revenues |  |  |  |
| Sales Tax | 38,478,335 |  | 38,478,335 |
| Motor Vehicle Excise Tax |  |  |  |
| Farebox | 5,401,440 |  | 5,401,440 |
| Sales Tax Equalization |  |  |  |
| Federal Operating Grants | 3,338,867 |  | 3,338,867 |
| State Operating Grants | 385,922 |  | 385,922 |
| Other | 978,344 |  | 978,344 |
| Contribution To Accounts | $(494,070)$ | 494,070 | - |
| Total Available | \$63,132,094 | \$11,136,916 | \$74,269,010 |
| Operating Expenses |  |  |  |
| Vanpool/Rideshare P\&M | 2,238,860 |  | 2,238,860 |
| Vanpool/Rideshare System Expansion | 83,694 |  | 83,694 |
| Fixed Route P\&M | 29,009,690 |  | 29,009,690 |
| Fixed Route System Expansion |  |  | - |
| Commuter Bus P\&M | 3,469,613 |  | 3,469,613 |
| Commuter Bus System Expansion |  |  |  |
| Paratransit ADA P\&M | 9,667,131 |  | 9,667,131 |
| Paratransit ADA System Expansion | - |  | - |
| Rideshare/CTR P\&M | - |  | - |
| Amtrak Station P\&M | 78,678 |  | 78,678 |
| Annual Depreciation | 7,355,149 |  | 7,355,149 |
| Contribution To Accounts |  |  | - |
| Total Expenses | \$51,902,814 | - | \$51,902,814 |
| Add Back Depreciation | 7,355,149 |  | 7,355,149 |
| Net Cash Available | \$18,584,429 |  | \$18,584,429 |
| Capital |  |  |  |
| Capital Revenue |  |  |  |
| Federal Capital Grant - Sec 5307 |  |  |  |
| Federal Capital Grant - Sec 5309 | 25,530,092 |  | 25,530,092 |
| State Capital Grants | 339,239 |  | 339,239 |
| Total Capital Revenue | \$25,869,331 | - | \$25,869,331 |
| Capital Expenses |  |  |  |
| System P\&M |  |  |  |
| Equipment \& Furnishings | 100,000 |  | 100,000 |
| Replace Coaches - | 5,345,964 |  | 5,345,964 |
| Replace Shuttle Vans/Small Coaches |  |  | - |
| Replace DAL Vans - | 366,938 |  | 366,938 |
| Replace Vanpool Vans - | 986,041 |  | 986,041 |
| Replace Staff Vehicles | 55,426 |  | 55,426 |
| Facilities | 1,869,000 |  | 1,869,000 |
| System Expansion |  |  | - |
| Coach - |  |  | - |
| Shuttle Van - Small Coach |  |  | - |
| DAL Van |  |  | - |
| Vanpool Van | 361,548 |  | 361,548 |
| Facilities | 27,463,203 |  | 27,463,203 |
| Total Capital Expenses | \$36,548,120 |  | \$36,548,120 |
| Ending Balance December 31, 2019 | \$7,905,640 | \$11,136,916 | \$19,042,556 |


| WSDOT Report - 2020 | General Fund | Working Capital | Total |
| :---: | :---: | :---: | :---: |
| Beginning Balance January 1, 2018 | \$7,905,640 | \$11,136,916 | \$19,042,556 |
| Revenues |  |  |  |
| Sales Tax | 39,632,685 |  | 39,632,685 |
| Motor Vehicle Excise Tax |  |  | - |
| Farebox | 5,593,485 |  | 5,593,485 |
| Sales Tax Equalization |  |  |  |
| Federal Operating Grants | 3,405,644 |  | 3,405,644 |
| State Operating Grants | 385,922 |  | 385,922 |
| Other | 857,498 |  | 857,498 |
| Contribution To Accounts | $(404,206)$ | 404,206 | - |
| Total Available | \$57,376,668 | \$11,541,122 | \$68,917,790 |
| Operating Expenses |  |  |  |
| Vanpool/Rideshare P\&M | 2,406,849 |  | 2,406,849 |
| Vanpool/Rideshare System Expansion | 86,731 |  | 86,731 |
| Fixed Route P\&M | 29,975,843 |  | 29,975,843 |
| Fixed Route System Expansion |  |  | - |
| Commuter Bus P\&M | 3,595,540 |  | 3,595,540 |
| Commuter Bus System Expansion |  |  |  |
| Paratransit ADA P\&M | 10,017,992 |  | 10,017,992 |
| Paratransit ADA System Expansion | - |  | - |
| Rideshare/CTR P\&M | - |  | - |
| Amtrak Station P\&M | 81,534 |  | 81,534 |
| Annual Depreciation | 7,575,804 |  | 7,575,804 |
| Contribution To Accounts |  |  | - |
| Total Expenses | \$53,740,292 | - | \$53,740,292 |
| Add Back Depreciation | 7,575,804 |  | 7,575,804 |
| Net Cash Available | \$11,212,180 |  | \$11,212,180 |
| Capital |  |  |  |
| Capital Revenue |  |  |  |
| Federal Capital Grant - Sec 5307 |  |  |  |
| Federal Capital Grant - Sec 5309 | 10,834,888 |  | 10,834,888 |
| State Capital Grants | 349,361 |  | 349,361 |
| Total Capital Revenue | \$11,184,249 | - | \$11,184,249 |
| Capital Expenses |  |  |  |
| System P\&M |  |  |  |
| Equipment \& Furnishings | 287,500 |  | 287,500 |
| Replace Coaches - | 14,209,223 |  | 14,209,223 |
| Replace Shuttle Vans/Small Coaches |  |  | - |
| Replace DAL Vans - | 1,729,009 |  | 1,729,009 |
| Replace Vanpool Vans - | 1,871,008 |  | 1,871,008 |
| Replace Staff Vehicles |  |  | - |
| Facilities | 290,000 |  | 290,000 |
| System Expansion |  |  | - |
| Coach - |  |  | - |
| Shuttle Van - Small Coach |  |  | - |
| DAL Van |  |  | - |
| Vanpool Van | 374,202 |  | 374,202 |
| Facilities |  |  | - |
| Total Capital Expenses | \$18,760,941 |  | \$18,760,941 |
| Ending Balance December 31, 2020 | \$3,635,488 | \$11,541,122 | \$15,176,610 |


| WSDOT Report - 2021 |
| :---: |
| Beginning Balance January 1, 2018 Revenues |
|  |  |
|  |
| Motor Vehicle Excise Tax |
| Farebox |
| Sales Tax Equalization |
| Federal Operating Grants |
| State Operating Grants |
| Other |
| Contribution To Accounts |
| Total Available |
| Operating Expenses |
| Vanpool/Rideshare P\&M |
| Vanpool/Rideshare System Expansion |
| Fixed Route P\&M |
| Fixed Route System Expansion |
| Commuter Bus P\&M |
| Commuter Bus System Expansion |
| Paratransit ADA P\&M |
| Paratransit ADA System Expansion |
| Rideshare/CTR P\&M |
| Amtrak Station P\&M |
| Annual Depreciation |
| Contribution To Accounts |
| Total Expenses |
| Add Back Depreciation |
| Net Cash Available |
| Capital |
| Capital Revenue |
| Federal Capital Grant - Sec 5307 |
| Federal Capital Grant - Sec 5309 |
| State Capital Grants |
| Total Capital Revenue |
| Capital Expenses |
| System P\&M |
| Equipment \& Furnishings |
| Replace Coaches - |
| Replace Shuttle Vans/Small Coaches |
| Replace DAL Vans - |
| Replace Vanpool Vans - |
| Replace Staff Vehicles |
| Facilities |
| System Expansion |
| Coach - |
| Shuttle Van - Small Coach |
| DAL Van |
| Vanpool Van |
| Facilities |
| Total Capital Expenses |
| Ending Balance December 31, 2021 |

## Operating Expenses

Vanpool/Rideshare P\&M
Vanpool/Rideshare System Expansion
Fixed Route P\&M
Fixed Route System Expansion

Commuter Bus System Expansion
Paratransit ADA P\&M
Paratransit ADA System Expansion
Rideshare/CTR P\&M
Amtrak Station P\&M

Contribution To Accounts

Working Capital

Total

| $\mathbf{\$ 3 , 6 3 5 , 4 8 8}$ | $\mathbf{\$ 1 1 , 5 4 1 , 1 2 2}$ | $\mathbf{\$ 1 5 , 1 7 6 , 6 1 0}$ |
| ---: | ---: | ---: |
| 40,821,666 |  | $40,821,666$ |
|  |  | - |
| $5,789,815$ |  |  |
|  |  | $3,479,815$ |
| $3,473,757$ |  | 385,922 |
| 385,922 |  | 792,548 |
| 792,548 |  | - |

\$12,018,902 \$66,440,318

2,418,703
87,158
31,807,234
$3,613,248$
10,067,331

81,936
7,575,804
$\begin{array}{rrr}\$ 55,651,414 & - & \$ 55,651,414 \\ 7,575,804 & & 7,575,804 \\ \$ 6,345,806 & & \$ 6,345,806\end{array}$

| $1,385,839$ | $1,385,839$ |
| ---: | ---: |
| $\mathbf{1 , 9 5 9 , 8 3 9}$ | $1,959,839$ |
| $\mathbf{\$ 3}, \mathbf{3 4 5 , 6 7 8}$ | $\mathbf{\$ 3 , 3 4 5 , 6 7 8}$ |

\$3,345,678 - \$3,345,678

557,000 557,000
$1,500,000 \quad 1,500,000$
$1,795,591 \quad 1,795,591$
37,600 37,600
$2,365,000 \quad 2,365,000$

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
| 178,952 |  | 178,952 |
| 387,284 |  | 387,284 |
|  |  | - |
| \$6,821,427 |  | \$6,821,427 |
| \$2,870,057 | \$12,018,902 | \$14,888,959 |

## Appendix

| Appendix A: | Organizational Chart |
| :--- | :--- |
| Appendix B: | System Map and Service Boundary Map |
| Appendix C: | Public Management System (WSDOT forms) |
| Appendix D: | Operating Data |

## Appendix A




## Intercity Transit Mission:

To provide and promote transportation choices that support an accessible, sustainable, livable, healthy and prosperous community.

Vision: To be a leading transit system in the country, recognized for our well-trained, highly motivated, customer-focused, community-minded employees committed to enhancing the quality of life for all citizens of Thurston County.

## Bus Service in 2015

Fixed route service available weekdays on 25 routes, 18 routes operating Saturdays, 15 routes on Sundays. Dial-A-Lift (ADA/ paratransit) service available during fixed route service hours. Bus fleet is ADA accessible and all fixed route coaches have two-position bike racks:

- Twenty local routes serving the greater Olympia/Lacey/Tumwater/Yelm area. Connections to Grays Harbor Transit and Mason Transit service (in Olympia) and regional connections to Amtrak and Greyhound service are also available.
- Five inter-county routes provide Express service between Thurston and Pierce Counties with connections to Pierce Transit local service and Sound Transit Express and commuter service in Lakewood and Tacoma. Grant funded contract with Sound Transit for extension of existing route for limited peak trips between Olympia and DuPont with service to Seattle.


## Intercity Transit Service Boundary

Approved April 2002, Implemented September 2002,
Updated with City Annexations: 2005-2015


## Public Management System

|  | ic Transportation M ed Rolling Stock In Agency/Organizati | nagem entory <br> n: <br> Date: | nt System <br> Intercity Transit 1/22/2016 |  |  |  |  |  | ereby certify that inventory reflects formation for the <br> Signature and Title | all informa true, accu e agency/o <br> [original sig | tion report ate and com ganization ned by P. Ko | in this lete ted. <br> er] |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year/Make/Model | Vehicle Code | Vehicle Identification Number | Agency Vehicle Number | Current Odometer | Condition (points) | Age <br> Years | Remaining Useful Life (years) | $\left.\begin{array}{\|c\|} \text { Replacement } \\ \text { Cost } \end{array} \right\rvert\,$ | ADA Access (yes/no) | Seating Capacity | Fuel Type | $\begin{aligned} & \hline \text { WSDOT } \\ & \text { Title } \\ & \text { (yes/no) } \end{aligned}$ |
| 1 | 2008/Eldorado/Aerotech | 11 | 1FD4E45P68DA39644 | 130 | 204,844 | 80 | 7 | 0 | \$133,000 | yes | 12 | BD | no |
| 2 | 2008/Eldorado/Aerotech | 11 | 1FD4E45P88DA39645 | 131 | 244,575 | 80 | 7 | 0 | \$133,000 | yes | 12 | BD | no |
| 3 | 2008/Eldorado/Aerotech | 11 | 1FD4E45PX8DA39646 | 132 | 240,368 | 80 | 7 | 0 | \$133,000 | yes | 12 | BD | no |
| 4 | 2008/Eldorado/Aerotech | 11 | 1FD4E45P18DA39647 | 133 | 247,127 | 80 | 7 | 0 | \$133,000 | yes | 12 | BD | no |
| 5 | 2008/Eldorado/Aerotech | 11 | 1FD4E45P38DA39648 | 134 | 202,588 | 80 | 7 | 0 | \$133,000 | yes | 12 | BD | no |
| 6 | 2009/Eldorado/Aerotech | 11 | 1FDFE45P99DA72356 | 140 | 162,006 | 80 | 6 | 1 | \$133,000 | yes | 12 | BD | no |
| 7 | 2009/Eldorado/Aerotech | 11 | 1FDE45P09DA72357 | 141 | 158,918 | 80 | 6 | 1 | \$133,000 | yes | 12 | BD | no |
| 8 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL5B1121747 | 150 | 101,608 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 9 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL9B1121783 | 151 | 115,114 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 10 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL3B1122279 | 152 | 98,943 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 11 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL3B1121892 | 153 | 120,629 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 12 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL7B1122351 | 154 | 123,405 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 13 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL4B1122307 | 155 | 114,455 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 14 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL1B1122085 | 156 | 101,267 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 15 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL0B1124264 | 157 | 123,927 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 16 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL0B1124202 | 158 | 127,872 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 17 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL2B1154169 | 159 | 123,227 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 18 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL9B1154234 | 160 | 119,744 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 19 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL0B1155269 | 161 | 102,219 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 20 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL4B1155128 | 162 | 104,233 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 21 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL9B1156128 | 163 | 103,104 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 22 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL0B1155076 | 164 | 119,512 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 23 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL8B1155617 | 165 | 112,064 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 24 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL2B1155872 | 166 | 127,065 | 90 | 4 | 3 | \$133,000 | yes | 12 | BD | no |
| 25 | 2011 Eldorado/Aerotech | 11 | 1GB6G5BL5B1154781 | 167 | 111,490 | 90 | 4 | 4 | \$133,000 | yes | 12 | BD | no |
| 26 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL4C1180905 | 170 | 78,346 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 27 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BLXC1181606 | 171 | 90,366 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 28 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL7C1182857 | 172 | 80,747 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 29 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL0C1182196 | 173 | 93,726 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 30 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL9C1182567 | 174 | 87,157 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 31 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL0C1182585 | 175 | 69,298 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 32 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL3C1181642 | 176 | 70,075 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 33 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL6C1181358 | 177 | 79,916 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 34 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL6C1181926 | 178 | 84,851 | 90 | 3 | 4 | \$133,000 | yes | 12 | BD | no |
| 35 | 2012 Eldorado/Aerotech | 11 | 1GB6G5BL9C1180477 | 179 | 88,890 | 90 | 3 | 5 | \$133,000 | yes | 12 | BD | no |
| 36 | 2010/Gillig Hybrid | 10 | 15GGD3013A1177058 | 400 | 272,353 | 100 | 5 | 10 | \$630,700 | yes | 38 | DE | no |


|  | 응 | $\bigcirc$ | 응 | 응 | 응 | 을 | 응 | 응 | 을 | 응 | 을 | 을 | 을 | 응 | 읃 | 응 | 을 | 응 | 응 | 읃 | 을 | 응 | 응 | 응 | 을 | 응 | 응 | 응 | 응 | 응 | 응 | 응 | 응 | 응 | 을 | 응 | 응 | 응 | 응 | $\bigcirc$ | 응 | 을 | 을 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mid$ | 山 | \| | \| | \| | $\|\underset{\Delta}{\boldsymbol{a}}\|$ | $\mid$ | \| | 岗 | $\left\lvert\, \begin{array}{\|c\|} \hline \text { ロ } \end{array}\right.$ | $\mid \underset{\Delta}{\text { ■ }}$ | $\mid$ | $\|\underset{\text { \| }}{ }\|$ | 亗 | $\mid$ | $\|\stackrel{\rightharpoonup}{\square}\|$ | $\mid$ | $\left\lvert\, \begin{array}{\|l\|} \text { ■ } \end{array}\right.$ | $\mid$ | \| | $\mid$ | $\mid$ | $\stackrel{\circ}{\infty}$ | $\|\stackrel{\circ}{\infty}\|$ | 命\| | $\|\stackrel{Q}{\infty}\|$ | $\stackrel{\mathrm{p}}{\mathrm{p}}$ | $\|\stackrel{\mathrm{Q}}{\mathrm{\infty}}\|$ | $\left\lvert\, \begin{aligned} & \mathrm{p} \\ & \hline \end{aligned}\right.$ | $\stackrel{\circ}{\infty}$ | $\stackrel{\circ}{\otimes}$ | $\stackrel{\circ}{\infty}$ | 命\| | $\|\stackrel{\circ}{\infty}\|$ | $\stackrel{\mathrm{p}}{\mathrm{p}}$ | $\stackrel{Q}{\oplus}$ | $\|\stackrel{Q}{\infty}\|$ | 命\| | \| | $\stackrel{\mathrm{Q}}{\mathrm{p}}$ | $\stackrel{\rightharpoonup}{\oplus}$ | $\|\stackrel{\rightharpoonup}{\infty}\|$ | $\stackrel{\square}{\circ}$ |
|  | － | － | ¢ | ¢ | $\cdots$ | － | $\stackrel{\sim}{\sim}$ | ¢ | － | － | － | ¢ | － | ¢ | ¢ | － | $\stackrel{\sim}{\sim}$ | － | $\stackrel{\sim}{\sim}$ | ¢ | ¢ | $\stackrel{\sim}{m}$ | $\bar{n}$ | $\bar{\sim}$ | ¢ | ¢ | ¢ | $\overline{\text { m }}$ | ¢ | ¢ | $\stackrel{\sim}{\sim}$ | N | N | ले | N | $\underset{\sim}{\sim}$ | N | N | $\stackrel{\sim}{\sim}$ | N | $\underset{\sim}{\sim}$ | N | － |
|  | $\stackrel{\infty}{\infty}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\mathscr{D}}{\stackrel{0}{\lambda}}$ | $\stackrel{\infty}{\otimes}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\mathscr{N}}{\underset{\lambda}{2}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\substack{0 \\ ⿻}}{2}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\begin{aligned} & \infty \\ & \infty \\ & \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\stackrel{0}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\otimes}{\boldsymbol{N}}$ | $\stackrel{\infty}{\infty}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\stackrel{0}{\stackrel{0}{\lambda}}$ | $\stackrel{\otimes}{\otimes}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\perp}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\boldsymbol{N}} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\sim}{\sim}$ |
|  |  |  |  | 8 <br>  <br>  | $\begin{aligned} & \hline \mathrm{O} \\ & \hat{N} \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\left.\begin{array}{l\|} \hline \mathrm{O} \\ \stackrel{\rightharpoonup}{n} \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \right\rvert\,$ |  | $\begin{array}{\|l\|} \hline \mathrm{O} \\ \hat{1} \\ 0 \\ 0 \\ 0 \\ \Leftrightarrow \end{array}$ | $\begin{array}{\|l\|} \hline \stackrel{O}{2} \\ \stackrel{1}{n} \\ \hline 0 \\ 0 \\ 0 \\ \hline \end{array}$ | $\left.\begin{array}{\|c\|} \hline 0 \\ \hat{C} \\ 0 \\ 0 \\ 0 \\ \Theta \end{array} \right\rvert\,$ |  | $\left.\begin{array}{\|l\|} \hline \mathrm{O} \\ \stackrel{\rightharpoonup}{n} \\ 0 \\ 0 \\ 6 \\ 0 \end{array} \right\rvert\,$ |  |  | $\begin{array}{\|c\|} \hline \stackrel{O}{n} \\ \hat{0} \\ 0 \\ 0 \\ 0 \\ \hline \end{array}$ |  |  |  |  |  |  | $\left.\begin{array}{\|c\|} \hline 0 \\ \stackrel{\rightharpoonup}{n} \\ 0 \\ 0 \\ 6 \\ \end{array} \right\rvert\,$ | O | O | $\begin{array}{\|c} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{N}{n} \\ \infty \end{array}$ | $\left.\begin{array}{\|c\|} \hline 0 \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline 0 \\ 0 \\ 0 \\ \tilde{\sim} \\ 0 \\ 0 \end{array} \right\rvert\,$ |  | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathbf{0} \\ \underset{\sim}{N} \\ \underset{\sim}{n} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \infty \\ \infty \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{N}{2} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ |  | O | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\sim}{n} \end{array} \right\rvert\,$ | O <br>  <br> N <br> N <br> 0 | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \end{array}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{n} \end{array} \right\rvert\,$ | $\begin{array}{\|c} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{N}{n} \\ \infty \end{array}$ | O－ |  | $\left.\begin{array}{\|c\|} \hline 0 \\ 0 \\ \underset{\sim}{0} \\ \underset{\sim}{0} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline 0 \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ | $\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{0} \end{array}$ |
|  | 은 | 은 |  | 은 | 은 | $\stackrel{\sim}{*}$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{ }{\sim}$ | $\pm$ | $\underset{\sim}{*}$ | $\stackrel{\square}{7}$ | $\stackrel{\rightharpoonup}{*}$ | $\stackrel{\text { ̇ }}{\sim}$ | $\pm$ | $\stackrel{\text { ̇ }}{\sim}$ | $\stackrel{\rightharpoonup}{\sim}$ | $\stackrel{\square}{\sim}$ | $\underset{\sim}{*}$ | － | － | － | － | $\checkmark$ | － | ＊ | $\checkmark$ | 15 | 10 | 10 | 10 | 10 | $\llcorner$ | 10 | 10 | 10 | 10 | 15 | 10 | $\infty$ |
|  | 10 | 15 | $\infty$ | $\llcorner$ | 10 | m | m | m | ल | m | m | m | － | － | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | F | $F$ | $\stackrel{\square}{\square}$ | г | F | $\stackrel{\square}{\square}$ | F | $\stackrel{\square}{\square}$ |  | 은 | 은 | 은 | 은 | 은 | 은 | 은 | 안 | 은 | 은 | 은 | 안 |
|  | 은 | 은 | 음 | 은 | 은 | 욱 | 은 | 암 | 은 | 은 | 음 | 은 | 음 | 은 | 은 | 음 | 은 | 안 | 은 | 윽 | 은 | 은 | $\infty$ | $\infty$ | $\infty$ | $\infty$ | 8 | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | 8 | $\infty$ | $\infty$ | $\infty$ |
|  | $\left.\begin{array}{\|c\|} \hline \underset{\sim}{\infty} \\ 0 \\ 0 \\ 0 \\ N \end{array} \right\rvert\,$ | $\left\|\begin{array}{l} \hat{n} \\ \infty \\ \infty \\ \frac{\infty}{m} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline n \\ 0 \\ \vdots \\ \underset{\sim}{N} \end{array}$ | $\begin{array}{\|l\|} \hline \stackrel{O}{2} \\ \stackrel{N}{N} \\ \stackrel{N}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{N}{N} \\ \stackrel{N}{ल} \\ \hline \end{array}$ | $$ | $\left\lvert\, \begin{gathered} J \\ \infty \\ \infty \\ \underset{\sim}{c} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\left\|\begin{array}{l} 7 \\ 0 \\ 0 \\ 0 \\ -2 \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{0}{0} \\ 0 \\ 0 \\ \sim \\ \sim \end{array}\right\|$ | $\left\lvert\,\right.$ | $\begin{aligned} & \bar{\sim} \\ & \mathbf{0} \\ & \mathbf{8} \\ & \underset{\sim}{-} \end{aligned}$ | $\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \text { N } \end{array}$ | $\begin{array}{\|c\|} \hline 0 \\ 0 \\ \vdots \\ \vdots \end{array}$ | $\left\|\begin{array}{l} 0 \\ 0 \\ \infty \\ \infty \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{l} \overleftarrow{~} \\ \underset{~}{j} \\ \underset{O}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ \infty \end{array}\right\|$ |  | $\left\|\begin{array}{l} N \\ \underset{\sim}{2} \\ \text { di} \end{array}\right\|$ | $\left\|\begin{array}{l} \mathbf{y} \\ \mathbf{3} \\ 6 \\ 8 \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{N}{N} \\ \infty \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{c} \bar{n} \\ \hat{N} \\ \overline{0} \end{array}\right\|$ | $\left\|\begin{array}{c} \stackrel{ }{\infty} \\ \infty \\ \underset{\infty}{\infty} \end{array}\right\|$ |  | $\left.\begin{array}{\|c\|} \hline 0 \\ \underset{N}{N} \\ \infty \\ 0 \\ 0 \end{array} \right\rvert\,$ |  | $\left\|\begin{array}{\|c\|} \hline 0 \\ q^{2} \\ j^{6} \end{array}\right\|$ | $\left\|\begin{array}{c} \bar{n} \\ \infty \\ 10 \\ f^{2} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ 0 \\ \end{array}$ | $$ |  | $\left\|\begin{array}{c} 0 \\ \text { N } \\ \underset{\sim}{0} \\ i \end{array}\right\|$ | $\left\|\begin{array}{c} \hat{N} \\ \hat{N} \\ 6 \\ i n \end{array}\right\|$ | $\left\|\begin{array}{l} 7 \\ 10 \\ 10 \\ 0 \\ 10 \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \underset{N}{n} \\ 0 \\ 0 \\ N \\ \text { م } \end{array}$ | $\left\|\begin{array}{c} \underset{N}{\mathrm{O}} \\ \stackrel{-}{\mathrm{N}} \end{array}\right\|$ | $\left\|\begin{array}{c} \hat{m} \\ \frac{2}{0} \\ \frac{1}{2} \end{array}\right\|$ | $\begin{aligned} & \left.\begin{array}{l} g \\ \stackrel{C}{n} \\ m \\ \stackrel{n}{n} \end{array} \right\rvert\, \end{aligned}$ | $\begin{array}{\|c\|} \hline 0 \\ \hline 1 \\ 0 \\ 0 \\ 0 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \underset{\sim}{m} \\ \underset{\sim}{6} \\ \underset{\sim}{2} \end{array}$ | $\left\|\begin{array}{c} N \\ o \\ o \\ 0 \\ \underset{\sim}{z} \end{array}\right\|$ | $\begin{gathered} \infty \\ \stackrel{\infty}{7} \\ 0 \\ \hline \\ 7 \end{gathered}$ | $\begin{array}{\|c\|} \hline \infty \\ 0 \\ \underset{\sim}{j} \\ \underset{\sim}{\mid} \end{array}$ | ch |
|  | $\|\bar{\gamma}\|$ | $$ | $\begin{array}{\|c\|} \hline \text { Mo } \\ \hline \text { \| } \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{O} \\ \hline \mathrm{O} \end{array}$ | $\begin{aligned} & \hline 0 \\ & 0 \\ & 0 \end{aligned}$ | $\frac{O}{\dot{r}}$ | $\overline{\bar{\gamma}}$ | $\stackrel{N}{\tau}$ | $\frac{m}{\dot{d}}$ | $\frac{\vec{~}}{\overline{\mathrm{~F}}}$ | $\frac{10}{7}$ | $\frac{0}{7}$ | $\begin{array}{\|c\|} \hline \stackrel{\rightharpoonup}{*} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{\rightharpoonup}{v} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \underset{\sim}{\mathrm{V}} \\ \hline \end{array}$ | $\begin{array}{\|c\|c} \hline \underset{\sim}{N} \end{array}$ | $\begin{array}{\|c\|} \hline \underset{~}{*} \\ \hline \end{array}$ | $\left\lvert\, \begin{gathered} \stackrel{\sim}{\sim} \\ \underset{\sim}{2} \\ \hline \end{gathered}\right.$ | $\begin{array}{\|c\|} \hline \stackrel{O}{\mathrm{~F}} \\ \hline \end{array}$ | $$ | $\left.\begin{array}{\|c\|} \hline \infty \\ \underset{\sim}{*} \end{array} \right\rvert\,$ | $\begin{array}{\|c\|} \hline \stackrel{\rightharpoonup}{\mathrm{F}} \end{array}$ | $\begin{array}{\|c\|} \hline \text { O} \\ \text { oे } \end{array}$ | $\begin{array}{\|c\|} \hline \bar{ু} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline N \\ \text { N゙ } \end{array}$ | $$ | $\begin{array}{\|c\|} \hline \underset{~}{~} \\ \text { \| } \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{L}{2} \\ \underset{O}{2} \end{array}$ | $$ | $\begin{array}{\|c\|} \hline \hat{N} \\ \text { Non } \end{array}$ | $\begin{array}{\|c\|} \hline \text { প্ু } \\ \hline \end{array}$ | $\overline{\bar{\sigma}} \mid$ | $\begin{array}{\|c\|} \hline N \\ \hline N \end{array}$ | $\begin{array}{\|c\|} \hline \underset{ু}{\prime} \end{array}$ | ৷ু | $$ | $\begin{array}{\|c\|} \hline \mathbf{o} \\ \hline \mathbf{o} \\ \hline \end{array}$ | $$ | $\begin{array}{\|c\|} \hline \stackrel{y}{9} \\ \hline \text { \| } \\ \hline \end{array}$ | $\bar{G}$ | $\stackrel{N}{\sigma}$ | $$ | ¢ |
|  |  |  |  |  |  |  |  |  |  | とZ908レレO910\＆ロO૭Sレ | $\pm$ <br> $\vdots$ <br> 0 <br> 0 <br> $\bar{c}$ <br> $\vdots$ <br> 0 <br> $\vdots$ |  |  |  |  |  |  | 96をャ8レレヨャレ0ยロ〇〇Gレ | L6とャ8レレヨ910をロつつSレ | 15GGD3018E1184398 |  |  | N <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> $\vdots$ <br>  |  |  |  |  | 8๕80L0レーレレOZ8૭૭Gレ |  |  | 15GGB291151075106 |  |  |  | 15GGB291951075256 |  |  | 9 <br> 0 <br> $N$ <br> $N$ <br> 0 <br> 0 <br> 0 | 0 0 0 0 0 $\vdots$ $\vdots$ 0 2 2 0 0 0 0 $n$ |  | 15GGB291451076511 |  | عLS9LOLG8L6Z8〇〇Gレ |
|  | 은 | 안 |  | 은 | 은 | 은 | 은 | 은 | 은 | 안 | 은 | 은 | 은 | 은 | 은 | 안 | 은 | 은 | 은 | 은 | 은 | 은 | N | N | N | N | N | N | N | N | $\sim$ | N | N | $\sim$ | $\sim$ | N | N | N | $\sim$ | N | N | N | $\sim$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ले | $\stackrel{\infty}{\sim}$ | ¢ | 안 | $\bar{\square}$ | ～ | m | $\stackrel{5}{4}$ | ¢ | － | $\stackrel{\infty}{+}$ | 9 | $\bigcirc$ | N | 0 | L | L | $\bigcirc$ | is | ¢ | 앙 | 8 | $\bar{\sigma}$ | V | $\stackrel{3}{6}$ | $\pm$ | 4 | $\bigcirc$ | $\hat{¢}$ | $\stackrel{\infty}{\circ}$ | 8 | $\stackrel{\text { 간 }}{ }$ | 「 | N | $\cdots$ | N | $\stackrel{1}{\sim}$ | $\stackrel{\bigcirc}{\sim}$ | N | $\stackrel{\sim}{\sim}$ | ¢ | $\infty$ | $\bar{\infty}$ |


|  | 을 | 읃 | 응 | $\bigcirc$ | 을 | 을 | 읃 | 을 | 을 | 응 | 응 | 앙 | 을 | 응 | 응 | 응 | 앙 | 을 | 응 | 응 | 을 | 을 | 으응 | 을 | 을 | 읃 | $\bigcirc$ | $\stackrel{\varrho}{\wedge}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | 응 | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 응 | $\bigcirc$ | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\stackrel{\mathscr{0}}{\stackrel{0}{\lambda}}$ | $\left.\begin{aligned} & \infty \\ & \end{aligned} \right\rvert\,$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\infty}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ | － | ค－ | $\|\stackrel{\rightharpoonup}{\infty}\|$ | \| | $\stackrel{\circ}{\infty}$ | $\stackrel{0}{\infty}$ | 吊 | $\|\stackrel{\rightharpoonup}{\infty}\|$ | $\stackrel{\ominus}{\infty} \mid$ | $\|\stackrel{\rightharpoonup}{\infty}\|$ | $\stackrel{\mathrm{D}}{\mathrm{\infty}}$ | $\stackrel{\circ}{\infty} \mid$ | $\|\stackrel{Q}{\infty}\|$ | $\stackrel{Q}{\infty} \mid$ | $\stackrel{\mathrm{Q}}{\mathrm{p}}$ | $\mid$ | $\|\stackrel{Q}{\infty}\|$ | $\stackrel{\square}{\infty}$ | 命\| | 命 | $\|\stackrel{\circ}{\infty}\|$ | 命\| | $\stackrel{\mathrm{Q}}{\mathrm{p}}$ | 命\| | $\stackrel{\otimes}{\infty}$ | 命\| | 命\| | $\underset{\mathbf{U}}{\mathbf{K}}$ | 元 | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\underset{\circlearrowleft}{\mathbf{\top}}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\overleftarrow{ভ}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\stackrel{\varangle}{\circlearrowleft}$ | $\|\underset{0}{\mathbf{N}}\|$ | ৫ | $\underset{\circlearrowleft}{\mathbb{O}}$ | ভ | $\stackrel{4}{0}$ | ৫ | ৫ | ¢ |
|  | N | N | N | N | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | － | $\stackrel{\sim}{\sim}$ | N | N | N | N | N | N | N | N | N | N | N | $\stackrel{N}{\sim}$ | N | $\stackrel{\sim}{\sim}$ | $\stackrel{N}{\text { N}}$ | $\stackrel{\sim}{\sim}$ | N | N | N | － | $\stackrel{\sim}{\sim}$ | の | $\stackrel{\sim}{\sim}$ | ＋ | ナ | $\checkmark$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\underset{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ |
|  | $\stackrel{\infty}{\infty} \stackrel{\rightharpoonup}{\boldsymbol{\lambda}}$ | $\stackrel{\infty}{\stackrel{\infty}{\lambda}}$ | $\stackrel{\stackrel{\circ}{\otimes}}{\stackrel{1}{\lambda}}$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\infty}{\otimes}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\substack{\infty \\ \otimes}}{ }$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\mathscr{0}}{\stackrel{\wedge}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\stackrel{0}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\otimes}{\boldsymbol{\sim}}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $$ | $\left\|\begin{array}{l} \mathscr{0} \\ \underset{\lambda}{2} \end{array}\right\|$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \mathbf{\lambda} \end{array}\right\|$ | $\begin{array}{\|l\|} \infty \\ \stackrel{0}{\lambda} \end{array}$ | 을 | $\bigcirc$ | $\stackrel{\infty}{\infty}$ | $\bigcirc$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\infty}{\infty}$ | 응 | $\bigcirc$ | 을 | $\bigcirc$ | 을 | $\bigcirc$ | 을 | 을 | $\bigcirc$ | $\bigcirc$ | 응 |
|  | $\begin{array}{\|l\|} \hline \mathrm{O} \\ \hline 0 \\ \hline- \\ \hline \end{array}$ | $\left.\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \infty \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline \end{array} \right\rvert\,$ | $\begin{array}{l\|l} \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 & 0 \\ \end{array}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{N}{2} \\ \underset{\sim}{n} \end{array}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{N} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{\sim}{n} \\ & \underset{\sim}{\infty} \end{aligned}$ | $\left\|\begin{array}{l} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{\sim}{2} \\ \underset{\sim}{n} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline \mathrm{O} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline \end{array}$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \infty \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \hline 0 \\ 0 \\ \hline \\ 0 \\ 0 \\ 6 \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \hline 0 \\ 0 . \\ 0 \\ 0 \\ 0 \\ \infty \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ 0 \\ 0 \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 8 \\ \hline 0 \\ 0 \\ \hline- \\ \hline \\ 0 \\ 0 \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline 0 \\ \hline 0 \\ 0 \\ \hline 0 \\ 0 \\ \infty \end{array} \right\rvert\,$ |  | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{N}{\mathrm{~N}} \\ & \underset{\sim}{\infty} \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{O}_{2} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \\ \hline \end{array}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{\sim}{2} \\ \underset{\sim}{n} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array} \right\rvert\,$ | $\begin{array}{\|c} \hline \mathrm{O} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \end{array}$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{\sim}{2} \\ & \underset{\sim}{\infty} \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \mathbf{O} \\ & \underset{\sim}{n} \\ & \underset{\leftrightarrow}{2} \end{aligned}$ | $\left\|\begin{array}{c} \hline \mathrm{O} \\ \mathbf{O} \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array}$ | $\left\lvert\, \begin{gathered} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\left\lvert\, \begin{gathered} \mathrm{N} \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\left.\begin{array}{\|l\|} \hline 8 \\ 0 \\ 0 \\ \infty \\ 6 \\ \hline \end{array} \right\rvert\,$ |  | $\begin{aligned} & \hline 8 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ |  | $\left\lvert\, \begin{gathered} \mathrm{N} \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\begin{aligned} & \hline 0 \\ & \underset{\sigma}{\alpha} \\ & 0 \\ & \underset{\infty}{\infty} \end{aligned}$ | $$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{*} \end{aligned}$ | O N $\sim$ $N$ N |
|  | 15 | is | 10 | $\bigcirc$ | N | $\wedge$ | $\wedge$ | $\wedge$ | N | $\wedge$ | $\wedge$ | N | 入 | N | 入 | N | N | 入 | N | N | N | 入 | N | N | N | N | N | － | $\bigcirc$ | － | $\bigcirc$ | ＋ | $\bullet$ | $\bullet$ | － | － | － | － | － | － | － | － | － | － | $\bigcirc$ |
|  | 암 | 암 | 안 | 은 | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $F$ | 은 | m | $\checkmark$ | $\checkmark$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ |
|  | $\infty$ | $\infty$ | $\infty$ | $\infty$ | 8 | 8 | 8 | 8 | ৪ | 8 | 8 | ¢ | ¢ | 8 | 8 | ¢ | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | ¢ | ¢ | 8 | 8 | \％ | 안 | $\infty$ | 8 | 8 | 안 | $\stackrel{1}{5}$ | 안 | 안 | 안 | 안 | 안 | $\stackrel{\square}{5}$ | $\stackrel{\circ}{1}$ | $\bigcirc$ | $\stackrel{\circ}{\circ}$ |
|  | $\left\|\begin{array}{c} \stackrel{1}{N} \\ N \\ \tilde{N} \end{array}\right\|$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \infty \\ & \infty \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{1}{c} \\ - \\ \sim \\ \sim \end{array}\right\|$ | $\begin{array}{c\|c} -\infty \\ 0 \\ 0 \\ 0 \\ 0 \\ \\ \sim & \end{array}$ | $\left\|\begin{array}{c} \stackrel{9}{寸} \\ \underset{\sim}{2} \\ \stackrel{\rightharpoonup}{\mathrm{j}} \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \vdots \\ \underset{寸}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} n \\ \tilde{0} \\ 0 \\ \underset{\sigma}{\sigma} \end{array}\right\|$ |  |  | $\left\|\begin{array}{l} \mathrm{N} \\ \mathbf{o} \\ \underset{\sim}{2} \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{\mathcal{N}} \\ \underset{\sim}{n} \\ \stackrel{N}{N} \end{array}\right\|$ | $\left\lvert\, \begin{gathered} 9 \\ h \\ \substack{7 \\ 0 \\ M \\ \hline} \end{gathered}\right.$ | $\left\|\begin{array}{l} \overline{0} \\ 0 \\ 0 \\ 0 \\ \Gamma \end{array}\right\|$ | $\left\|\begin{array}{c} \stackrel{N}{\infty} \\ \infty \\ \stackrel{N}{N} \\ \underset{N}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ 0 \\ 0 \\ 0 \\ 0 \\ \text { N} \end{array}\right\|$ | $\left\|\begin{array}{c} \infty \\ \underset{N}{N} \\ o \\ 0 \\ N \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \infty \\ \infty \\ 0 \\ 0 \\ \end{array}\right\|$ | $\left\|\begin{array}{l}  \pm \\ 0 \\ 0 \\ 0 \\ 0 \end{array}\right\|$ |  | $\stackrel{\tau}{\sigma}$ <br> $\vdots$ <br> 0 <br> 0 | $\left\|\begin{array}{l} 0 \\ \infty \\ 0 \\ 6_{0} \\ ल \end{array}\right\|$ |  | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{2} \\ \underset{\sim}{3} \\ \underset{\sim}{2} \end{array}\right\|$ |  |  | $\left\|\begin{array}{c} \bar{n} \\ \underset{c}{2} \\ \underset{0}{6} \end{array}\right\|$ | $\left\|\begin{array}{c} \hat{0} \\ 6 \\ n^{2} \\ \Gamma \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{3}{n} \\ \tilde{\sim} \\ \underset{\sim}{c} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{N}{0} \\ \underset{\sim}{z} \end{array}\right\|$ | $\left\|\begin{array}{l} \bar{\delta} \\ \stackrel{\rightharpoonup}{\lambda} \\ \bar{r} \end{array}\right\|$ | $\begin{aligned} & \underset{G}{f} \\ & \underset{F}{f} \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ 0 \\ 0 \\ \underset{N}{n} \end{array}\right\|$ | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{+} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & i \end{aligned}$ | $\left\|\begin{array}{l} \frac{\sigma}{\tau} \\ \dot{f} \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \infty \\ 0 \\ \underset{\infty}{\infty} \end{array}\right\|$ | $\left.\begin{gathered} 5 \\ 0 \\ 10 \\ \stackrel{5}{\tau} \end{gathered} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline 8 \\ 0 \\ \infty \\ 0 \end{array} \right\rvert\,$ |  | $\begin{aligned} & \hat{ल} \\ & \stackrel{0}{\circ} \\ & \stackrel{0}{2} \end{aligned}$ | $\begin{aligned} & \bar{N} \\ & \infty \\ & e^{-} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{o} \\ & \stackrel{0}{2} \end{aligned}$ | $\begin{aligned} & \overline{\hat{1}} \\ & \stackrel{0}{\sigma} \\ & \hline \end{aligned}$ | N N N O |
|  | \| | $\overline{0}$ | $\begin{array}{\|c\|} N \\ \end{array}$ | $\begin{array}{l\|l\|} \hline 1 \\ \hline 0 \\ \hline 0 \end{array}$ | $\begin{array}{\|c\|} \hline 8 \\ \hline 8 \\ \hline \end{array}$ | $\overline{\mathrm{B}} \mid$ | $$ | $$ | $$ | $\begin{array}{\|l\|} \hline \stackrel{0}{9} \\ \stackrel{\rightharpoonup}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{\rightharpoonup}{\circ} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline N \\ \underset{\sigma}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{n}{o} \\ \hline \end{array}$ | $\frac{ \pm}{N}$ | $\begin{array}{\|c\|} \hline \frac{n}{N} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \rho \\ \stackrel{\sigma}{2} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \hat{A} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \infty \\ \infty \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \infty \\ \hline \infty \\ \hline \end{array}$ | $$ | $\left.\begin{array}{\|c\|} \hline 2 \\ \infty \\ \infty \end{array} \right\rvert\,$ | $$ | (প) | $\bar{\sigma}$ | $\stackrel{N}{\mathrm{o}}$ | $\begin{array}{\|c\|} \hline \text { প্ } \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \dot{ু} \\ \hline \end{array}$ | $\left.\begin{array}{\|l\|} \hline \stackrel{N}{n} \\ \stackrel{\sim}{\sim} \end{array} \right\rvert\,$ | $\begin{aligned} & \text { Ny } \\ & \stackrel{y}{2} \end{aligned}$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \stackrel{5}{5} \end{array} \right\rvert\,$ | $\begin{aligned} & \hline \infty \\ & \stackrel{\infty}{\sim} \\ & \stackrel{2}{2} \end{aligned}$ | $\begin{aligned} & \hline 8 \\ & \infty \\ & \infty \end{aligned}$ | $\begin{aligned} & 1 \\ & 0 \\ & \infty \\ & \sim \end{aligned}$ | $\begin{aligned} & \infty \\ & \infty \\ & \infty \\ & \hline \end{aligned}$ | $\begin{aligned} & \stackrel{\Gamma}{\mathrm{N}} \\ & \stackrel{\infty}{2} \end{aligned}$ | $$ | $\left\|\begin{array}{c} \stackrel{\omega}{\sim} \\ \infty \\ \sim \end{array}\right\|$ | $\begin{aligned} & \hline \mathbf{N} \\ & \infty \\ & \infty \end{aligned}$ | $\begin{array}{\|c\|} \hline \hline \\ \infty \\ \infty \end{array}$ | $\begin{gathered} \bar{\sim} \\ \stackrel{\infty}{\infty} \end{gathered}$ | $\begin{aligned} & \stackrel{\sim}{\sim} \\ & \infty \end{aligned}$ | $$ | $\left.\begin{array}{l\|} \hline 00 \\ \infty \\ \infty \end{array} \right\rvert\,$ | $\begin{aligned} & \stackrel{\rightharpoonup}{+} \\ & \infty \end{aligned}$ | $\stackrel{1}{\circ}$ |
|  |  |  |  |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & N \\ & \hat{N} \\ & \underset{N}{n} \\ & \underset{N}{N} \\ & \hat{N} \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |  |  | 15GGE271471091376 |  | 15GGE271871091378 |  |  |  |  |  |  | $\left\|\begin{array}{l\|l} 0 \\ 0 \\ \infty \\ N \\ N \\ \hat{N} \\ \hat{N} \\ 0 \\ 0 \\ 0 \\ \stackrel{0}{2} \end{array}\right\|$ |  |  |  |  |  |  |  |  | 1D8GP12R16B637752 |  |  |  |  |  |  |  |  |  |  |  |  | 0 <br> $\stackrel{0}{0}$ <br> 0 <br>  <br>  |  |  |  |  |
| $$ | $\checkmark$ | ＊ | ＊ | $\checkmark$ | $\sim$ | $\sim$ | $\sim$ | N | N | ＊ | ＊ | － | $\checkmark$ | － | － | $\checkmark$ | ＊ | $\sim$ | N | N | N | N | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\sim}$ | $\pm$ | $\stackrel{\square}{\square}$ | $\stackrel{\rightharpoonup}{\square}$ | $\stackrel{\rightharpoonup}{*}$ | $\pm$ | $\stackrel{\square}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\rightharpoonup}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{7}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & {\underset{N}{1}}^{\underset{N}{N}} \underset{\underset{N}{N}}{\underset{\sim}{2}} \end{aligned}$ | 2014 Chevy Express |  |  |  |  |  |  |  |  |  |  | 2007 Chevy Express |  |
|  | $\infty$ | $\infty$ | $\pm$ | ｜ | $\bigcirc$ | $\stackrel{\sim}{\infty}$ | $\infty$ | $\infty$ | 8 | Б | \％ | ¢ | \％ | ¢ | 8 | へ | $\infty$ | 8） | 안 | $\dot{\sigma}$ | $\stackrel{\mathrm{N}}{\mathrm{~N}}$ | $\stackrel{9}{\circ}$ | ㅇ | $\stackrel{1}{0}$ | $\stackrel{\ominus}{\circ}$ | $\stackrel{\rightharpoonup}{\circ}$ | $\stackrel{\infty}{\circ}$ | 옹 | $\frac{0}{7}$ | $\stackrel{\Gamma}{\tau}$ | $\stackrel{N}{7}$ | $\stackrel{m}{7}$ | $\frac{\pi}{r}$ | $\frac{10}{7}$ | $\stackrel{\circ}{\square}$ | $\stackrel{N}{F}$ | $\frac{\infty}{\tau}$ | $\frac{9}{7}$ | $\stackrel{\text { 귿 }}{ }$ | $\stackrel{\text { N}}{\sim}$ | N | $\stackrel{\sim}{\mathrm{N}}$ | $\stackrel{ \pm}{\text { N }}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ |


|  | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\infty}$ | 읃 | $\bigcirc$ | 을 | 응 | 앋 | 을 | 앙 | 을 | 응 | 응 | $\bigcirc$ | $\bigcirc$ | 응 | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\stackrel{\sim}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{2} \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\boldsymbol{N}} \end{aligned}$ | $\left\|\begin{array}{c} \mathscr{\infty} \\ \underset{\sim}{2} \end{array}\right\|$ | 을 | $\bigcirc$ | 읃 | 읃 | $\bigcirc$ | $\stackrel{\infty}{\sim}$ | $\stackrel{\mathscr{N}}{\stackrel{\infty}{>}}$ | $\stackrel{\infty}{\infty}$ | $\left.\begin{array}{\|l\|} \infty \\ \infty \\ \mathbf{\lambda} \end{array} \right\rvert\,$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\mathscr{N}}{\stackrel{\infty}{>}}$ | $\begin{aligned} & \infty \\ & 0 \\ & \hline \end{aligned}$ | $\stackrel{e}{\stackrel{\infty}{\lambda}}$ | $\left\|\begin{array}{l} \infty \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\bigcirc$ | 을 | 을 | $\bigcirc$ | 응 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ | ¢ | 《 | $\underset{\circlearrowleft}{\varangle}$ | $\underset{\mathbf{O}}{\boxed{\prime}}$ | $\overleftrightarrow{\circlearrowleft}$ | $\overleftarrow{\circlearrowleft}$ | $\underset{\top}{\varangle}$ | ৫ | ৫ | $\stackrel{\varangle}{\mathbf{0}}$ | $\|\underset{\mathbf{0}}{\mathbf{4}}\|$ | ভ | $\mid \underset{0}{\mathbf{4}}$ | ৫ |  | $\underset{\circlearrowleft}{\boxed{心}}$ | $\underset{\circlearrowleft}{\widetilde{c}}$ | $\stackrel{\varangle}{\mathbf{0}}$ | $\underset{\circlearrowleft}{\varangle}$ | 元 | $\overleftarrow{~ ৫ ~}$ | $\underset{\mathbf{U}}{\mathbf{\pi}}$ | $\stackrel{4}{\mathbf{0}}$ | ভ | $\overleftarrow{ভ}$ | $\underset{\sim}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\circlearrowleft}$ | $\underset{\circlearrowleft}{\varangle}$ | ৫ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\mathbb{U}$ | $\underset{~}{\boxed{\prime}}$ | $\underset{\circlearrowleft}{\varangle}$ | $\underset{\circlearrowleft}{\varangle}$ | $\stackrel{\leftrightarrow}{\mathbf{0}}$ | $\overleftarrow{\circlearrowleft}$ | ర | $\mid \underset{\mathbf{O}}{\mid}$ | ৫ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\left\|\begin{array}{\|c} \mathbb{1} \end{array}\right\|$ | ¢ | ¢ | ＜ |
|  | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | N | 入 | N | N | 入 | 入 | 入 | N | 入 | 入 | 入 | 入 | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\cdots$ | $\stackrel{\sim}{*}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{0}{\sim}$ | N | $\wedge$ | 入 | N | $\wedge$ | 入 | N | 入 | 入 | N | N | N | 入 | N | － |
|  | $\bigcirc$ | $\bigcirc$ | 응 | 읃 | 을 | $\bigcirc$ | $\bigcirc$ | 을 | 응 | 을 | 응 | 을 | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 을 | 응 | 읃 | 응 | $\bigcirc$ | 응 | 을 | 응 | $\bigcirc$ | $\bigcirc$ | 읃 | 을 | 을 | 을 | 을 | 읃 | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 을 | 을 | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 응 |
|  | $\begin{aligned} & \hline \stackrel{O}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \\ & \hline \end{aligned}$ | $\left\lvert\,\right.$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\infty}{ } \end{array}$ | $$ | $\left\lvert\, \begin{gathered} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \mathrm{~N} \end{gathered}\right.$ | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \mathrm{N} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \mathrm{~N} \end{array}$ | $\left\|\begin{array}{l} \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \underset{\infty}{ } \end{array}\right\|$ | $\left\lvert\,\right.$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}$ | $\left\lvert\, \begin{gathered} \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\infty}{2} \end{gathered}\right.$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{N}{N} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{y}{2} \end{array}$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\begin{array}{l\|l} \hline 0 \\ & \vdots \\ \underset{\sim}{n} & \vdots \\ N & \vdots \end{array}$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{~m} \\ & \underset{\sim}{2} \\ & \underset{\infty}{2} \end{aligned}$ | $\left\lvert\, \begin{gathered} 0 \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\begin{aligned} & \hline \stackrel{\sim}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned}$ |  | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\begin{array}{l\|} \hline \stackrel{O}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{*} \\ \hline \end{array}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{c} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{*} \end{aligned}$ | $\begin{array}{\|c} \hline \stackrel{N}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \end{array}$ | $\left\lvert\, \begin{gathered} 0 \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\left\lvert\, \begin{gathered} 0 \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | 웅 <br> 0 <br> 0 <br> 0 <br>  | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \mathrm{N} \end{array}\right\|$ | $\left\|\begin{array}{l\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left.\begin{gathered} \mathrm{O} \\ \mathrm{O} \\ \underset{N}{\mathrm{~N}} \\ \mathrm{o} \end{gathered} \right\rvert\,$ | $\begin{array}{\|c} \mathrm{O}_{0} \\ \underset{\sim}{\mathrm{~N}} \end{array}$ | $\left\|\begin{array}{c} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \underset{O}{2} \end{array}$ | $\left.\begin{array}{\|c} \mathrm{O}_{0} \\ \underset{\sim}{\mathrm{~N}} \end{array} \right\rvert\,$ | O O N N |
|  | － | 0 | － | 0 | － | － | 0 | － | $\bigcirc$ | － | － | $\bigcirc$ | $\bigcirc$ | － | － | 0 | － | － | － | － | $\bigcirc$ | － | － | － | $\bigcirc$ | 0 | － | － | － | － | $\checkmark$ | $\checkmark$ | － | － | － | $\checkmark$ | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | － |
|  | $\infty$ | $\infty$ | $\infty$ | N | － | N | 入 | N | 入 | N | N | N | 入 | N | N | 入 | 入 | 入 | 入 | N | N | 入 | N | 入 | N | 入 | 入 | N | N | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bigcirc$ | $\bullet$ |
|  | 앙 | \％ | 은 | 앙 | i | 안 | 안 | 앙 | 안 | $\stackrel{1}{6}$ | $\stackrel{1}{6}$ | $\bigcirc$ | $\stackrel{\square}{\circ}$ | ） | 앙 | $\stackrel{1}{2}$ | $\bigcirc$ | $\stackrel{1}{\circ}$ | 안 | 안 | $\stackrel{1}{\circ}$ | $\bigcirc$ | $\stackrel{\square}{\circ}$ | 안 | $\stackrel{\square}{\circ}$ | $\bigcirc$ | 안 | 안 | 안 | $\stackrel{\circ}{1}$ | 1 | 안 | 은 | $\stackrel{\circ}{1}$ | $\stackrel{1}{5}$ | 안 | $\stackrel{1}{5}$ | $\stackrel{\square}{1}$ | 안 | 안 | $\stackrel{\circ}{1}$ | $\stackrel{\square}{5}$ | $\stackrel{1}{5}$ | 앙 |
|  | $\begin{aligned} & m \\ & m \\ & \underset{m}{2} \end{aligned}$ | $\begin{aligned} & m \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\left\|\begin{array}{l} n \\ 0 \\ 0 \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ \infty \end{array}\right\|$ | $\begin{aligned} & \circ \\ & \hline 0 \\ & +0 \\ & \stackrel{+}{\circ} \end{aligned}$ | $\left\|\begin{array}{l} \hat{c} \\ \underset{\sim}{2} \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ \infty \end{array}\right\|$ |  |  | $\left\lvert\, \begin{aligned} & 0 \\ & 0 \\ & \overbrace{1} \\ & \underset{N}{2} \end{aligned}\right.$ | $\left\|\begin{array}{l} 0 \\ 0 \\ N \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \frac{1}{n} \\ \hat{0} \end{array}\right\|$ | $\left\|\begin{array}{c} \hat{N} \\ \infty \\ \underset{\sim}{c} \end{array}\right\|$ | $\stackrel{\stackrel{\rightharpoonup}{\tau}}{\stackrel{\rightharpoonup}{\tau}}$ | $\left\|\begin{array}{l} \frac{10}{\lambda} \\ \frac{0}{c} \\ \frac{1}{r} \end{array}\right\|$ | $\left\|\begin{array}{c} 9 \\ \stackrel{9}{4} \\ 10 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{c} \bar{o} \\ \underset{\sim}{o} \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \stackrel{1}{1} \\ 0^{0} \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \infty \\ \infty \\ 0 \\ N \end{array}\right\|$ | $\left\|\begin{array}{l} 4 \\ 0 \\ 0 \\ 0 \\ \end{array}\right\|$ | $\left\|\begin{array}{l} \tilde{6} \\ 0 \\ \underset{\infty}{-} \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ 0 \\ 0 \\ 1 \\ 1 \end{array}\right\|$ | $\left\|\begin{array}{c} 10 \\ \underset{y}{j} \\ \underset{\sim}{n} \end{array}\right\|$ | $\left\|\begin{array}{c} \mathrm{N} \\ 0 \\ 10 \\ 0 \end{array}\right\|$ | $\left.\begin{array}{\|c} \bar{\infty} \\ \bar{\phi} \\ \hline \infty \end{array} \right\rvert\,$ | $\begin{aligned} & \overline{0} \\ & 0 \\ & 0^{-} \end{aligned}$ | $\left\|\begin{array}{c} \infty \\ \stackrel{1}{*} \\ \infty \\ 0 \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \infty \\ \stackrel{0}{N} \\ \underset{\infty}{\infty} \end{array}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \stackrel{\rightharpoonup}{\mathrm{~F}} \end{aligned}$ | $\left\|\begin{array}{l} \hat{y} \\ \infty \\ \infty \\ \infty \end{array}\right\|$ | $\begin{gathered} 0 \\ \underset{\sim}{0} \\ \underset{\sim}{\mathrm{~T}} \end{gathered}$ | $\left\|\begin{array}{l} \bar{N} \\ 0 \\ 0 \\ 0 \end{array}\right\|$ | $\left.\begin{aligned} & \overline{\tilde{n}} \\ & \hat{m} \\ & \underset{N}{n} \end{aligned} \right\rvert\,$ | $\left\|\begin{array}{c} \infty \\ \frac{\infty}{N} \\ \stackrel{N}{N} \end{array}\right\|$ | $\begin{aligned} & N \\ & N \\ & \underset{N}{8} \end{aligned}$ | $\begin{aligned} & \infty \\ & \sim \\ & \infty \\ & \stackrel{\sim}{\infty} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \stackrel{N}{N} \end{aligned}$ | $\left\|\begin{array}{l} N \\ \hat{N} \\ \stackrel{\sigma}{\sigma} \end{array}\right\|$ | $\left\|\begin{array}{c} \bar{o} \\ 0 \\ \underset{\infty}{\infty} \end{array}\right\|$ |  | $\begin{array}{\|c\|} \hline 0 \\ 0 \\ 0 \\ N \end{array}$ | $\left\|\begin{array}{c} \infty \\ \infty \\ \infty \\ \infty \\ \infty \end{array}\right\|$ | $\begin{gathered} \underset{N}{N} \\ \underset{\sim}{\sim} \end{gathered}$ | ¢ |
|  | $\begin{aligned} & \hat{n} \\ & \infty \\ & \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & -1 \end{aligned}$ | $\begin{aligned} & \underset{N}{0} \\ & \infty \\ & \sim \end{aligned}$ | $\overline{\mathrm{O}}$ | $\begin{aligned} & \mathrm{O} \\ & \stackrel{\rightharpoonup}{\mathrm{O}} \end{aligned}$ | $\begin{array}{l\|} \hline 10 \\ 8 \\ 9 \end{array}$ | $\begin{array}{\|l\|} \hline 8 \\ \hline 8 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \stackrel{\rightharpoonup}{8} \\ \hline \mathrm{r} \end{array}$ | $\begin{array}{\|l\|} \hline 9 \\ \hline \mathbf{8} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \frac{0}{9} \\ \hline \end{array}$ | $\bar{\sigma}$ | $\begin{array}{\|c\|} \hline \stackrel{N}{\sigma} \\ \stackrel{1}{2} \end{array}$ | $\begin{array}{\|l\|} \hline \frac{m}{\sigma} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \frac{6}{9} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \stackrel{N}{\sigma} \\ \hline \end{array}$ | $\begin{aligned} & \text { 익 } \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \stackrel{\rightharpoonup}{N} \\ \underset{\sim}{2} \end{array}$ | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{2} \end{aligned}$ | $\left. \right\rvert\,$ | $\begin{aligned} & \hline \stackrel{0}{\mathrm{~N}} \\ & \stackrel{\sim}{\sim} \end{aligned}$ | $\begin{array}{\|l\|} \hline \hat{\gamma} \\ \Omega \end{array}$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{N} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \mathbf{N} \\ \mathbf{N} \end{array}$ | $\begin{array}{\|l\|} \hline \stackrel{\Gamma}{r} \\ \hline \end{array}$ | $\begin{aligned} & \hline \stackrel{ल}{\mathrm{O}} \\ & \underset{\sim}{2} \end{aligned}$ | $$ | $\begin{aligned} & \mathrm{G} \\ & \mathrm{G} \end{aligned}$ | $\begin{array}{\|l\|} \hline 0 \\ 6 \\ 9 \end{array}$ | $\begin{aligned} & \circ \\ & \stackrel{\circ}{\circ} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \hline \mathrm{~N} \end{aligned}$ | $\overline{\mathrm{O}}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{~N} \end{array} \right\rvert\,$ |  | $\left\lvert\, \begin{gathered} \mathrm{O} \\ \hline \mathrm{~N} \end{gathered}\right.$ | $\left.\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ N \end{array} \right\rvert\,$ | $\begin{aligned} & \hline \stackrel{O}{\mathrm{O}} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hat{O} \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \hline \infty \\ & \mathrm{o} \\ & \mathrm{~N} \end{aligned}$ | $\begin{array}{\|c} \hline \stackrel{\rightharpoonup}{2} \\ \text { Ni } \end{array}$ | $\begin{aligned} & \text { O} \\ & \text { N} \end{aligned}$ | $\begin{array}{\|l\|} \bar{N} \\ \underset{N}{2} \end{array}$ | $\begin{array}{\|c\|} \underset{\sim}{\mathrm{N}} \\ \text { N } \end{array}$ | $\begin{array}{\|c} \hline \stackrel{N}{\mathrm{~N}} \\ \hline \end{array}$ | N |
|  |  | 0 <br> $\stackrel{0}{2}$ <br> 0 <br> $\frac{2}{2}$ <br> $\vdots$ <br> $\vdots$ <br> $\vdots$ |  |  |  | 1GNDV23W78D196741 |  |  |  | 1GNDV23W08D208440 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1GAHG35K181219459 |  |  |  |  |  |  | $N$ $N$ $\infty$ $N$ $N$ $N$ 0 $\sim$ $N$ $N$ $N$ $N$ $N$ 0 $n$ |  |  | 90Z6LZS6ZכをZンZZG」G |  |  |  | $\left.\begin{array}{\|c\|} \hline N \\ \hat{N} \\ N \\ N \\ N \\ 0 \\ 0 \\ 0 \\ N \\ N \\ N \\ 0 \\ 1 \end{array} \right\rvert\,$ | 0 <br>  <br> 0 <br> 0 <br> 0 <br> 0 <br>  <br>  |  |  | 0 <br> 0 <br> 0 <br> 0 <br> $N$ <br> 0 <br> 0 <br> 0 <br> 0 <br> $N$ <br> $N$ <br> $N$ <br> $N$ <br> $\vdots$ |  |
| $$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\cdots$ | $\checkmark$ | $\stackrel{\square}{-}$ | $\cdots$ | $\stackrel{\sim}{\square}$ | $\div$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\rightharpoonup}{7}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{*}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\cdots$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2008 Chevy Express |  |  |  | 0 <br> $\stackrel{0}{6}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  |  |  | euuə！s eloKo 600Z | 0 <br> $\stackrel{0}{6}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  |  |  |  | 2009 Toyota Sienna |  |  |  |
|  | $\stackrel{N}{N}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | － | $\stackrel{\sim}{\sim}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{2} \\ \stackrel{2}{2} \end{gathered}\right.$ | $\stackrel{\stackrel{c}{\mathrm{c}}}{\mathrm{c}}$ | $\underset{\sim}{\mathrm{m}}$ | $\begin{aligned} & \stackrel{1}{2} \\ & \stackrel{2}{2} \\ & \hline \end{aligned}$ | $\left\lvert\, \begin{gathered} \stackrel{0}{2} \\ \stackrel{2}{2} \\ \hline \end{gathered}\right.$ | $\stackrel{\rightharpoonup}{\mathrm{m}}$ | $\stackrel{\infty}{\sim}$ | $\stackrel{\substack{9 \\ \sim}}{ }$ | $\stackrel{O}{\mathrm{f}}$ | $\bar{j}$ | $\begin{array}{\|c} \underset{\sim}{\sim} \\ \underset{\sim}{2} \end{array}$ | $\underset{\sim}{\underset{\sim}{2}}$ | $\underset{\sim}{f}$ | $\left\lvert\, \begin{aligned} & \circ \\ & \sim \\ & \sim \end{aligned}\right.$ | $\left.\begin{array}{\|c} 0 \\ \dot{f} \end{array} \right\rvert\,$ | $\stackrel{\rightharpoonup}{\mathrm{f}}$ | $\stackrel{\infty}{\infty}$ | $\begin{array}{\|c} \hline \dot{f} \\ \hline \end{array}$ | $\begin{array}{\|c} \circ \\ \stackrel{1}{\sim} \\ \hline \end{array}$ | $\stackrel{5}{5}$ | $\left\lvert\, \begin{gathered} \mathrm{N} \\ \stackrel{2}{2} \end{gathered}\right.$ | \％ | $\stackrel{4}{5}$ | ¢ | $\stackrel{6}{6}$ | is | $\stackrel{\infty}{\sim}$ | $\stackrel{0}{\square}$ | $\stackrel{\circ}{6}$ | $\stackrel{\bar{\sigma}}{\square}$ | $\begin{gathered} \underset{\sim}{N} \\ \stackrel{y}{2} \\ \hline \end{gathered}$ | $\stackrel{セ}{6}$ | $\stackrel{\text { ¢ }}{6}$ | $\stackrel{\llcorner }{6}$ | $\stackrel{\bigcirc}{6}$ | $\stackrel{\text { ¢ }}{\bullet}$ | $\stackrel{\infty}{\bullet}$ | $\stackrel{8}{6}$ | ㅇ |


|  | 을 | 응 | 앙 |  | 을 | 을 | 응 | 을 | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \stackrel{0}{\boldsymbol{N}} \end{array}\right\|$ | $\stackrel{\mathscr{N}}{\stackrel{N}{\lambda}}$ | $\stackrel{\oplus}{\infty}$ | 을 | 을 | 응 | $\bigcirc$ | 을 | $\bigcirc$ | 을 | $\bigcirc$ | $\bigcirc$ | 을 | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\boldsymbol{N}} \end{aligned}$ | $\left\|\begin{array}{c} \mathscr{\infty} \\ \underset{\sim}{2} \end{array}\right\|$ | 을 | $\bigcirc$ | $\bigcirc$ | 응 | 응 | 응 | 을 | $\stackrel{\infty}{\infty}$ | $\left.\begin{array}{\|l\|} \infty \\ \infty \\ \mathbf{\lambda} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathscr{0} \\ & \stackrel{y}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\varnothing}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\infty}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ¢ }}{\text { ¢ }}$ | ¢ | ¢ | $\underset{\circlearrowleft}{\Psi}$ | $\|\underset{ভ}{\top}\|$ | ৫ | $\|\underset{\circlearrowleft}{\overleftarrow{0}}\|$ | $\mid \underset{\circlearrowleft}{\mathbf{U}}$ | ৫ | $\mid \underset{\circlearrowleft}{\text { ৫ }}$ | $\mid \underset{ভ}{\varangle}$ | $\mid \underset{\circlearrowleft}{\boxed{U}}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{\sim}{4}$ | $\|\underset{\circlearrowleft}{\boxed{\top}}\|$ | $\stackrel{\boxed{O}}{\mathbf{0}}$ | $\underset{\circlearrowleft}{\top}$ | $\|\underset{\circlearrowleft}{\boxed{\top}}\|$ | $\underset{ভ}{\mathbb{O}}$ | $\mathbb{\circlearrowleft}$ | ভ | $\mathbb{\top}$ | $\mid \underset{ভ}{\varangle}$ | $\left\|\begin{array}{\|c} \mathbb{1} \end{array}\right\|$ | $\|\underset{\circlearrowleft}{\widetilde{0}}\|$ | $\mathbb{ভ}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\mathbf{0}}{\mathbf{4}}$ | ৫ | 区 | $\|\underset{0}{4}\|$ | ভ | $\mid \underset{\circlearrowleft}{\boxed{\top}}$ | $\stackrel{\boxed{1}}{\mathbf{0}}$ | $\mathbb{ভ}$ | ৫ | ভ | ৫ | ৫\| | $\mathbb{\circlearrowleft}$ |  | $\mathbb{U}$ | © | $\stackrel{\varangle}{\circlearrowleft}$ | $\mid \underset{\circlearrowleft}{\mathbf{U}}$ | ¢ |
|  | $\wedge$ | $\wedge$ | N | $\wedge$ | 入 | 入 | $\wedge$ | $\wedge$ | N | 入 | N | N | $\sim$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{1}{\sim}$ | $\stackrel{10}{\sim}$ | $\wedge$ | 入 | N | N | N | 入 | N | 入 | N | N | $\wedge$ | － | － | － | － | N | 入 | $\wedge$ | 入 |
|  | $\bigcirc$ | $\bigcirc$ | 응 | 읃 | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 응 | 을 | 응 | 을 | 을 | 읃 | 을 | $\bigcirc$ | 을 | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 을 | 을 | 응 | $\bigcirc$ | $\bigcirc$ | 읃 | 을 | 을 | 을 | 응 | 읃 | 을 | 을 | $\bigcirc$ | 을 | $\bigcirc$ | 응 | 응 | $\bigcirc$ | $\bigcirc$ | 읃 | $\bigcirc$ | $\bigcirc$ | 을 |
|  | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | O O N N N | $\left\|\begin{array}{c} \hline \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \mathrm{N} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{N}{N} \\ \underset{\infty}{ } \end{array}$ | $\left\lvert\, \begin{gathered} \mathrm{O} \\ 0 \\ \text { N} \\ \underset{\infty}{2} \end{gathered}\right.$ | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \mathrm{N} \end{array}\right\|$ | $\left\|\begin{array}{c} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline \mathrm{O} \\ \mathrm{O} \\ \text { N } \\ \mathrm{\omega} \end{array}$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \text { N} \\ \text { N } \end{array}$ | $\left\lvert\,\right.$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \text { N} \\ \underset{\infty}{*} \end{array}\right\|$ |  | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\left\lvert\, \begin{gathered} \underset{\sim}{N} \\ \tilde{j} \\ \underset{\sim}{n} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\begin{array}{l\|l} \hline 0 \\ & \vdots \\ \underset{\sim}{n} & \vdots \\ N & \vdots \end{array}$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{~m} \\ & \underset{\sim}{2} \\ & \underset{\infty}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{*} \end{aligned}$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \end{aligned}$ |  | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ |  | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{c} \end{aligned}$ |  |  | $\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{N} \\ \text { \| } \end{array}$ | $\left.\begin{array}{\|c} \mathrm{O} \\ \mathrm{O} \\ \underset{\sim}{\mathrm{~N}} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \end{array}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathbf{O} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathbf{O} \\ & \underset{\sim}{N} \end{aligned}$ | － |  | $$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \text { N} \\ \underset{\infty}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} \mathrm{O} \\ \mathrm{O} \\ \underset{\mathrm{~N}}{\mathrm{o}} \end{array}\right\|$ | $\left\|\begin{array}{c} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | O－ O－ N 0 |
|  | $-$ | － | $\checkmark$ | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | － | $\checkmark$ | － | － | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | － | － | － | － | $\checkmark$ | － | N | N | $\sim$ | N | N | m | $\cdots$ | m | m | ल | m | n | m | の | m | ल | $\cdots$ | m | m |
|  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bullet$ | 10 | 15 | $\infty$ | 15 | 15 | $\checkmark$ | $\checkmark$ | $\checkmark$ | － | － | ＊ | － | ナ | ＋ | － | － | $\checkmark$ | ナ | ナ |
|  | 안 | \％ | 안 | 앙 | is | $\stackrel{1}{5}$ | $\stackrel{\square}{\circ}$ | ค | $\bigcirc$ | $\stackrel{1}{6}$ | $\stackrel{1}{6}$ | $\bigcirc$ | $\stackrel{\square}{\circ}$ | 안 | 앙 | $\stackrel{1}{2}$ | $\bigcirc$ | $\stackrel{1}{\circ}$ | 안 | $\bigcirc$ | $\stackrel{1}{\circ}$ | $\bigcirc$ | $\bigcirc$ | 안 | $\stackrel{\square}{\circ}$ | $\bigcirc$ | $\bigcirc$ | 8 | 8 | $\bigcirc$ | 8 | $\bigcirc$ | ㅇ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 앙 | － | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | ㅇ | $\bigcirc$ |
|  | $\left\|\begin{array}{l} 0 \\ \frac{1}{0} \\ 0 \\ 1 \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ 1 \\ 0 \\ 10 \\ 0 \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \infty \\ & \stackrel{\infty}{N} \\ & \underset{N}{2} \end{aligned}\right.$ | $\left\lvert\, \begin{aligned} & \underset{\sim}{\hat{2}} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\left\|\begin{array}{c} 8 \\ \stackrel{0}{0} \\ \infty \\ \infty \\ \infty \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{N}{N} \\ & \hline \end{aligned}\right.$ | $\left\|\begin{array}{c} \bar{y} \\ \underset{\sim}{j} \\ \underset{j}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ \end{array}\right\|$ | $\left\|\begin{array}{c} \hat{0} \\ 0 \\ -\infty \\ \bar{\infty} \end{array}\right\|$ | $\left\|\begin{array}{l} \stackrel{\sim}{n} \\ \underset{\sim}{2} \\ \stackrel{0}{2} \\ \hline \end{array}\right\|$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \bar{~} \\ & \stackrel{1}{2} \end{aligned}$ | $\left\|\begin{array}{l} 0_{0} \\ e_{j} \\ \dot{0} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \hat{\alpha} \\ \hat{N} \\ \stackrel{\rightharpoonup}{c} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{\sigma}{2} \end{array}\right\|$ | $\left.\begin{gathered} \hat{N} \\ \mathbf{N} \\ \mathbf{n}^{\circ} \end{gathered} \right\rvert\,$ | 응 | $\left\|\begin{array}{l} \hat{\circ} \\ \dot{\circ} \\ \stackrel{\rightharpoonup}{j} \end{array}\right\|$ | O O N O | $\begin{gathered} \infty \\ \stackrel{\infty}{n} \\ \underset{\sim}{\infty} \end{gathered}$ | $\begin{gathered} \tilde{N} \\ \infty \\ \underset{\sim}{i} \end{gathered}$ | $\left\|\begin{array}{l} 9 \\ \stackrel{9}{5} \\ \stackrel{5}{5} \end{array}\right\|$ | $\left\|\begin{array}{l} \mathfrak{N} \\ \mathbf{o} \\ e^{2} \end{array}\right\|$ |  | $\left\|\begin{array}{c} 0 \\ 0 \\ \underset{\sim}{n} \\ \stackrel{\rightharpoonup}{c} \end{array}\right\|$ | $\begin{array}{\|c} { }_{5}^{\infty} \\ \infty \\ N \end{array}$ | $\left\|\begin{array}{c} \infty \\ 0 \\ \underset{\sim}{2} \\ \underset{\sim}{c} \end{array}\right\|$ | $\left\|\begin{array}{c} \infty \\ \underset{N}{N} \\ \mid \end{array}\right\|$ | $\begin{aligned} & \bar{t} \\ & \bar{\sigma} \end{aligned}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\circ} \\ & \stackrel{\circ}{8} \end{aligned}$ | $\begin{array}{\|c\|} \hline \frac{0}{v} \\ \frac{\infty}{\tau} \\ \frac{1}{r} \\ \hline \end{array}$ | $\left\lvert\, \begin{gathered} \infty \\ \infty \\ \underset{\sim}{-} \\ \dot{寸} \end{gathered}\right.$ |  | $\left.\begin{gathered} \underset{\sim}{3} \\ \underset{\sim}{0} \end{gathered} \right\rvert\,$ | $\left\|\begin{array}{c} \infty \\ \stackrel{+}{6} \\ \stackrel{\circ}{8} \end{array}\right\|$ | $\begin{gathered} \mathbb{Z} \\ \underset{\sim}{\infty} \end{gathered}$ | $\begin{gathered} N \\ \stackrel{N}{7} \\ \stackrel{m}{5} \end{gathered}$ |  |  | $\begin{aligned} & 8 \\ & \hline \\ & 0 \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 9 \\ & \stackrel{0}{n} \\ & 0 \\ & \hline \end{aligned}$ | $\left\|\begin{array}{c} \overline{0} \\ \infty \\ \underset{n}{n} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{\mathrm{H}} \\ \\ \infty \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} N \\ N \\ N \\ N \end{array}\right\|$ | $\stackrel{\sim}{\text { co }}$ |
|  | $\left.\begin{array}{\|c\|} \stackrel{\sim}{\mathrm{N}} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|c\|} \hline \stackrel{0}{\mathrm{~N}} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{array}{\|l\|} \hline \hat{N} \\ \underset{N}{2} \end{array}$ | $\begin{aligned} & \text { © } \\ & \underset{\sim}{\mathrm{N}} \end{aligned}$ | $\begin{array}{\|c\|} \hline \stackrel{N}{\mathrm{~N}} \\ \text { N } \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{o}{\mathrm{~N}} \\ \hline \end{array}$ | $\left\|\begin{array}{l} \bar{ल} \\ \stackrel{N}{N} \end{array}\right\|$ | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{N}{2} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{\mathrm{N}} \\ & \text { N} \end{aligned}\right.$ | $\begin{array}{\|c\|} \hline \stackrel{y}{\mathrm{~N}} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 0 \\ 0 \\ \underset{N}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{e}{\mathrm{~N}} \\ \hline \end{array}$ | $\left\|\begin{array}{l} \overline{0} \\ \stackrel{N}{N} \end{array}\right\|$ | $\left\|\begin{array}{l} \mathrm{N} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $$ | $\left. \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline \mathbf{0} \\ 0 \\ \underset{N}{2} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ N \end{array} \right\rvert\,$ | $\begin{array}{\|c} \hat{N} \\ \underset{N}{N} \end{array}$ | $\begin{aligned} & \hline \stackrel{\rightharpoonup}{6} \\ & \text { N} \end{aligned}$ | $\left\|\begin{array}{c} \bar{e} \\ \underset{N}{2} \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \underset{N}{\mathrm{~N}} \\ & \underset{N}{2} \end{aligned}\right.$ | $\left.\begin{array}{\|c\|} \hline 0 \\ \hline \\ \underset{N}{2} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline \stackrel{\rightharpoonup}{4} \\ \hline \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{~N} \end{aligned}$ | $\left\|\begin{array}{c} \bar{\infty}_{\hat{N}} \end{array}\right\|$ | $\frac{8}{2}$ | $\overline{\overline{0}}$ | $\stackrel{N}{N}$ | $\begin{aligned} & \mathrm{m} \\ & \stackrel{0}{\mathrm{~N}} \end{aligned}$ | $\frac{\stackrel{\rightharpoonup}{\mathrm{N}}}{\stackrel{1}{2}}$ | $\left\lvert\, \frac{o}{\stackrel{1}{N}}\right.$ | $\left\lvert\, \frac{ন}{\bar{N}}\right.$ | $\left\lvert\, \begin{array}{\|c} \stackrel{N}{\mathrm{~N}} \\ \hline \end{array}\right.$ | $\frac{m}{\stackrel{N}{N}}$ | $\frac{\stackrel{\rightharpoonup}{5}}{\stackrel{1}{N}}$ | $\frac{n}{\stackrel{n}{N}}$ | $\frac{0}{\stackrel{ }{N}}$ | $\stackrel{\text { ¢ }}{\stackrel{1}{\sim}}$ |  |  | $\begin{array}{\|l\|} \stackrel{\rightharpoonup}{\mathrm{N}} \\ \stackrel{\rightharpoonup}{N} \end{array}$ | $\stackrel{\Gamma}{N}$ | $\begin{aligned} & \underset{N}{N} \\ & \stackrel{N}{2} \end{aligned}$ | $\stackrel{N}{\stackrel{N}{N}}$ |
|  | 5TDZK23C79S282635 |  |  |  | $\left\|\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ N \\ 0 \\ 0 \\ 0 \\ 0 \\ N \\ \underset{N}{N} \\ 0 \\ i \end{array}\right\|$ |  |  |  |  | 5TDZK23C49S286349 |  |  |  |  |  |  |  | G0L9GIL6LYGEOHVOI |  |  |  |  | $\infty$ <br> 0 <br>  <br>  <br>  <br>  <br>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\sim}$ | m | $\cdots$ | $\cdots$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ |
|  | 2009 Toyota Sienna | 2009 Toyota Sienna |  | 2009 Toyota Sienna | 2009 Toyota Sienna | 2009 Toyota Sienna |  | 2009 Toyota Sienna |  | 2009 Toyota Sienna |  |  |  |  |  |  |  |  |  |  |  | $\left\lvert\, \begin{gathered} 0 \\ 0 \\ 0 \\ \vdots \\ \underset{\sim}{\grave{1}} \\ \lambda \\ 0 \\ \vdots \\ \vdots \\ 0 \\ 0 \\ 0 \\ \hline \end{gathered}\right.$ |  |  | $\begin{array}{\|c\|} 0 \\ 0 \\ 0 \\ 0 \\ \underset{\sim}{x} \\ \lambda \\ \lambda \\ 0 \\ \hline 0 \\ 0 \\ \hline \\ \hline N \end{array}$ |  |  | $c$ <br> $\stackrel{N}{0}$ <br> $\stackrel{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 | $c$ <br> $\stackrel{N}{0}$ <br> $\stackrel{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  |  |  |  |  |  |  |  |  | $\begin{gathered} \stackrel{c}{w} \\ \stackrel{\rightharpoonup}{0} \\ \stackrel{0}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ \stackrel{\rightharpoonup}{c} \\ \stackrel{\rightharpoonup}{N} \end{gathered}$ | $$ | $\begin{gathered} c \\ \stackrel{0}{0} \\ \stackrel{0}{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \stackrel{\rightharpoonup}{2} \\ \hline \mathbf{N} \end{gathered}$ |  |  |  |  |
|  | 찯 | $\stackrel{N}{N}$ | $\stackrel{\sim}{\sim}$ | N | $\stackrel{\sim}{\stackrel{\circ}{\sim}}$ | $\stackrel{\circ}{\sim}$ | $\stackrel{\text { N }}{ }$ | $\stackrel{\infty}{\stackrel{\infty}{\sim}}$ | $\stackrel{9}{2}$ | $\stackrel{\circ}{\infty}$ | $\underset{\sim}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\square}{\infty}$ | $\stackrel{\sim}{\infty}$ | $\left\|\begin{array}{c} \infty \\ \infty \\ \sim \end{array}\right\|$ | $\stackrel{\sim}{\infty}$ | $\left.\begin{aligned} & \infty \\ & \propto \\ & \sim \end{aligned} \right\rvert\,$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\circ}{\sim}$ | $\bar{\sigma}$ | $\stackrel{N}{\mathrm{~N}}$ | $\begin{aligned} & 9 \\ & \hline \end{aligned}$ | $\stackrel{\square}{\square}$ | $\stackrel{\circ}{\square}$ | $\stackrel{\circ}{\circ}$ | $\stackrel{\text { 人 }}{\sim}$ | $\stackrel{\infty}{\circ}$ | \％ | O- | $\stackrel{\Gamma}{\mathrm{N}}$ | $\begin{gathered} \mathrm{N} \\ \mathrm{~N} \end{gathered}$ | $\begin{gathered} \underset{N}{N} \\ \hline \end{gathered}$ | $\begin{array}{\|c} \underset{\sim}{\mathrm{N}} \end{array}$ | $\begin{aligned} & \mathrm{o} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \circ \\ & \stackrel{\rightharpoonup}{N} \end{aligned}$ | $\stackrel{N}{\mathrm{~N}}$ | $\infty$ | 8 |  | $\stackrel{\Gamma}{N}$ | $\stackrel{N}{\mathrm{~N}}$ | $\stackrel{m}{N}$ | $\stackrel{\star}{N}$ | $\stackrel{10}{\sim}$ |


|  | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\sim}$ | $\stackrel{\mathscr{N}}{\stackrel{\wedge}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\sim}{\otimes}$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\omega}{\wedge}$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\stackrel{\infty}{\infty}$ | $\left\lvert\, \begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}\right.$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\stackrel{\circ}{\otimes}$ | $\stackrel{\infty}{\infty}$ | $\left\lvert\, \begin{aligned} & \mathscr{0} \\ & \stackrel{\infty}{\lambda} \end{aligned}\right.$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\stackrel{\infty}{\otimes}$ | $\stackrel{\sim}{0}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{\lambda} \end{aligned}$ | $\stackrel{\infty}{\infty} \mid$ | $\stackrel{\infty}{\varnothing}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\stackrel{\infty}{\perp}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\mathscr{N}}{\stackrel{0}{\lambda}}$ | $\begin{aligned} & \infty \\ & \infty \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\stackrel{\infty}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty} \mid$ | $\stackrel{\otimes}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ¢ | ＜ | ভ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{0}{4}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\overleftarrow{~}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}} \mid$ | $\underset{0}{4}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\overleftarrow{\circlearrowleft}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\overleftarrow{৫}}$ | $\underset{0}{4}$ | ব | $\underset{\top}{\top}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{0}{4}$ | ভ | $\underset{\circlearrowleft}{\overleftarrow{O}}$ | $\underset{\circlearrowleft}{4}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | ব | $\stackrel{\mathbb{1}}{\mathbf{0}}$ | ৫ | $\stackrel{\varangle}{\mathrm{O}}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\sim}{\top}$ | $\underset{\sim}{\overleftarrow{0}}$ | $\|\underset{\circlearrowleft}{\top}\|$ | $\underset{\mathbf{0}}{\mathbf{~}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{0}{4}$ | $\stackrel{\boxed{O}}{\mathbf{0}}$ | $\underset{\circlearrowleft}{\top}$ | ¢ |
|  | $\wedge$ | $\wedge$ | N | 入 | 入 | 入 | $\wedge$ | $\wedge$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{ }{\sim}$ | $\cdots$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\underset{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\stackrel{1}{\sim}$ | $\stackrel{10}{\sim}$ | 入 | 入 | N | N | N | N | 入 | $\wedge$ | 入 | N | N | 入 |
|  | $\bigcirc$ | 을 | $\bigcirc$ | 을 | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 을 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 응 | 응 | $\bigcirc$ | 응 | 응 | $\bigcirc$ | 응 | 을 | 응 | 응 | $\bigcirc$ | 을 | 응 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 을 | 을 | 을 | 읃 | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | $\bigcirc$ | 응 |
|  | $\begin{array}{\|l\|} \hline \mathrm{O} \\ \mathrm{O} \\ \tilde{N} \\ \mathrm{~N} \end{array}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{O} \\ & \underset{N}{\mathrm{~N}} \\ & \hline \end{aligned}$ | O $\underset{O}{2}$ N N | $\begin{array}{\|c} \hline \mathrm{O} \\ \underset{N}{N} \\ \underset{\sim}{2} \end{array}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \text { Nָ } \\ & \text { N } \end{aligned}$ | O O N N | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left.\begin{array}{\|l\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \\ & \hline \end{aligned}\right.$ | $\left\lvert\, \begin{gathered} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{N} \\ \hline \end{gathered}\right.$ | $\begin{aligned} & \hline \stackrel{O}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned}$ | $\left\|\begin{array}{l} \stackrel{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{c} \\ & \hline \end{aligned}$ | $\left\lvert\, \begin{array}{l\|} \hline \stackrel{\sim}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{*} \end{array}\right.$ | $$ | $\begin{aligned} & \hline \stackrel{O}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\left.\begin{aligned} & \hline \stackrel{\circ}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned} \right\rvert\,$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{*} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \underset{ }{2} \end{aligned}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{N} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{c} \\ & \hline \end{aligned}\right.$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{\infty} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{N} \end{array}\right\|$ | $$ |  |  |  | O O Ǹ N | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \underset{\sim}{\mathrm{~N}} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | O <br> O <br> N <br>  | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{o} \\ \underset{\sim}{\mathrm{j}} \end{array}\right\|$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\left.\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{\mathrm{~N}} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \text { Nin } \\ & \underset{\infty}{ } \end{aligned}$ | O O $\underset{\sim}{\mathrm{N}}$ N | O O N N |
|  | m | m | m | m | $\cdots$ | ल | m | ल | m | m | m | m | ल | ल | m | ल | m | m | m | $\cdots$ | m | ल | m | m | m | m | ल | ल | m | m | ल | ल | m | $\checkmark$ | － | － | $\checkmark$ | － | － | － | － | $\checkmark$ | － | ナ | － |
|  | － | ＊ | ＊ | － | ＋ | － | ナ | ＊ | $\checkmark$ | $\checkmark$ | ＊ | － | $\checkmark$ | $\checkmark$ | ＊ | － | $\checkmark$ | ＊ | － | － | $\checkmark$ | － | ＊ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | ＊ | ＊ | － | ＊ | ナ | － | m | $\cdots$ | ल | ल | ल | m | ल | m | $\cdots$ | m | m | $m$ |
|  | ㅇ | ㅇ | ㅇ | ㅇ | $\bigcirc$ | ㅇ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | ㅇ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\bigcirc$ | $\bigcirc$ |
|  | $\left\|\begin{array}{l} 0 \\ 0 \\ \infty \\ \underset{N}{1} \end{array}\right\|$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \underset{N}{N} \\ & \stackrel{\rightharpoonup}{-} \end{aligned}$ | $\begin{aligned} & \hline 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} \bar{\sigma} \\ \bar{\sigma} \\ \stackrel{\rightharpoonup}{n} \end{gathered}$ | $\left\|\begin{array}{l} y_{0} \\ 0 \\ 5^{\circ} \end{array}\right\|$ | $\left\|\begin{array}{c} \bar{n} \\ \underset{N}{n} \\ \stackrel{n}{n} \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ \infty \\ 0 \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{c} \tilde{M} \\ 0 \\ \underset{寸}{-} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{0}{-} \end{array}\right\|$ | $\left\|\begin{array}{c} N \\ 0 \\ 10 \\ \mathrm{O}^{2} \end{array}\right\|$ | $\left.\begin{aligned} & 0 \\ & \stackrel{0}{N} \\ & \hat{N} \end{aligned} \right\rvert\,$ | $\left\|\begin{array}{c} \stackrel{O}{\mathrm{~N}} \\ \stackrel{\rightharpoonup}{\circ} \\ \stackrel{2}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \stackrel{\sim}{n} \\ ल \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \underset{y}{c} \\ 8 \\ \hline \end{array}\right\|$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \tilde{\sigma} \\ & \dot{\sigma} \end{aligned}$ | $\left\|\begin{array}{l} \stackrel{L}{O} \\ \underset{N}{0} \\ \underset{N}{2} \end{array}\right\|$ |  |  | $\left\|\begin{array}{c} 0 \\ 0 \\ 0 \\ \tilde{j} \\ 0 \end{array}\right\|$ |  | $\left\|\begin{array}{c} N \\ \vdots \\ \dot{e} \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \infty \\ 0 \\ 0 \\ N \end{array}\right\|$ | $\left\|\begin{array}{l} \circ \\ 0 \\ 0 \\ 0 \\ \hline- \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \infty \\ \infty \\ \infty \\ 0 \\ 0 \end{array}\right\|$ | $\begin{aligned} & \underset{\sim}{0} \\ & 0 \\ & 0 \\ & 0 \\ & \sim \end{aligned}$ | $\begin{aligned} & \circ \\ & \stackrel{\circ}{\infty} \\ & \stackrel{-}{2} \end{aligned}$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{N} \\ \underset{\infty}{\infty} \end{array}\right\|$ | 10 <br> 0 <br> 0 <br> 10 <br> 1 <br> 0 | $\left\|\begin{array}{l} 8 \\ o \\ \underset{0}{0} \end{array}\right\|$ | $\left\|\begin{array}{l} \overline{0} \\ 0 \\ 0 \\ م \end{array}\right\|$ | $\begin{aligned} & \mathbf{N} \\ & \mathbf{N} \\ & 0 \\ & 0 \end{aligned}$ | $\left\|\begin{array}{c} \underset{\sim}{m} \\ \underset{\sim}{j} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline \frac{\sigma}{i} \\ \sigma^{2} \\ \underset{\sigma}{ } \end{array}$ | $\begin{aligned} & \underset{\sim}{7} \\ & \underset{\sim}{n} \\ & \end{aligned}$ | $\begin{aligned} & \text { N్} \\ & \text { oे} \\ & \hline \text { N} \end{aligned}$ | $\begin{aligned} & \mathbf{c}_{0} \\ & \infty \\ & 0^{-} \end{aligned}$ | $\left\|\begin{array}{l} \tilde{N} \\ \dot{j} \\ \mathcal{F} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}$ | $\begin{aligned} & \hline 9 \\ & 0 \\ & 0 \\ & 0 \\ & 1 \end{aligned}$ | $\left\|\begin{array}{c} N \\ \underset{c}{c} \\ \underset{N}{s} \end{array}\right\|$ | $\begin{array}{\|l\|} \hline 0 \\ \underset{\sim}{n} \\ \underset{N}{n} \end{array}$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{j} \\ i \end{array}\right\|$ | \％ |
|  | $\left\lvert\, \begin{array}{\|c\|} \underset{N}{N} \\ \hline \end{array}\right.$ | $\begin{aligned} & \stackrel{N}{N} \\ & \stackrel{N}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\otimes}{N} \\ & \stackrel{N}{2} \end{aligned}$ | $\stackrel{N}{N}$ | $\left\lvert\, \begin{aligned} & \infty \\ & N \\ & N \end{aligned}\right.$ | $\left\lvert\, \begin{array}{\|c\|} \hline \stackrel{N}{N} \\ \hline \end{array}\right.$ | $\begin{array}{\|l\|} \hline \stackrel{p}{n} \\ \stackrel{n}{2} \end{array}$ | $\|\overline{\mathrm{m}}\|$ | $\begin{array}{\|c\|} \hline \underset{N}{N} \\ \stackrel{N}{2} \end{array}$ | $\left\lvert\, \begin{aligned} & \mathrm{o} \\ & \stackrel{y}{\mathrm{~N}} \end{aligned}\right.$ | $\overline{\dot{d}} \mid$ | $\begin{array}{\|c\|} \stackrel{N}{\mathcal{N}} \\ \hline \end{array}$ | $\begin{array}{\|c} \stackrel{?}{\mathrm{~N}} \end{array}$ | $\frac{\mathcal{V}}{\bar{N}}$ | $\begin{array}{\|l\|} \hline \frac{5}{N} \\ \stackrel{7}{N} \end{array}$ | $\begin{array}{l\|} \hline \dot{9} \\ \stackrel{\rightharpoonup}{N} \end{array}$ | $\begin{array}{\|c\|} \hat{J} \\ \bar{N} \end{array}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{+}{N} \end{array}\right\|$ | $\begin{aligned} & \hline \dot{F} \\ & \stackrel{\rightharpoonup}{N} \end{aligned}$ | $\begin{aligned} & \circ \\ & \stackrel{\circ}{N} \\ & \stackrel{n}{2} \end{aligned}$ | $\frac{\bar{N}}{\bar{N}}$ | $\begin{array}{\|c\|} \hline N \\ \stackrel{N}{N} \end{array}$ | $\begin{array}{\|c\|} \hline \frac{10}{N} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{y}{N} \\ \stackrel{2}{2} \\ \hline \end{array}$ | $\left.\begin{array}{\|l\|} \hline \frac{6}{5} \\ \stackrel{n}{N} \end{array} \right\rvert\,$ | $\begin{aligned} & \varphi \\ & \stackrel{6}{N} \\ & \stackrel{n}{2} \end{aligned}$ | $\begin{array}{\|c\|} \hline \frac{10}{N} \\ \hline \end{array}$ | $\begin{aligned} & \infty \\ & \stackrel{0}{N} \end{aligned}$ | $\left.\begin{array}{\|l\|} \hline 9 \\ \stackrel{B}{N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{e} \\ & \stackrel{e}{N} \end{aligned}$ | $\begin{array}{\|l\|} \hline \stackrel{?}{\mathrm{~N}} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \bar{\lambda} \\ \bar{N} \end{array}$ | $\stackrel{N}{N}$ | 은 | $\begin{array}{\|c\|} \hline{ }_{N}^{N} \end{array}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { N} \\ & \text { N} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \underset{N}{2} \end{aligned}$ | $\left.\begin{array}{\|l\|} \hline \stackrel{L}{0} \\ \text { NN} \end{array} \right\rvert\,$ | $\begin{array}{\|l\|} \hline \mathbf{O} \\ \text { N} \end{array}$ | $\begin{aligned} & \mathrm{N} \\ & \stackrel{N}{N} \end{aligned}$ | $\begin{array}{\|c\|} \hline \infty \\ \underset{N}{N} \end{array}$ | $\begin{aligned} & \hline \stackrel{\rightharpoonup}{\mathrm{N}} \\ & \text { Nin } \end{aligned}$ | $\stackrel{\circ}{\mathrm{N}}$ | $\stackrel{\checkmark}{\text { N}}$ |
|  | 2D4RN4DG6BR732491 |  |  |  |  |  |  |  |  |  |  | 1FBNE3BL4BDA90480 |  |  | 1FBNE3BL5BDA90472 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1FBNE3BL2BDA90476 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\stackrel{\square}{\sim}$ | $\cdots$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\sim}$ | $\cdots$ | $\stackrel{\sim}{\sim}$ | $\stackrel{-}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\cdots$ | $\stackrel{-}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\cdots$ | $\stackrel{-}{-}$ | $\cdots$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\square}$ | $\cdots$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ |
|  |  |  |  |  |  |  | 2011 Dodge Caravan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2012 Dodge Caravan |
|  | $\left\|\frac{0}{N}\right\|$ | $\stackrel{N}{N}$ | $\stackrel{\infty}{\stackrel{\infty}{N}}$ | $\stackrel{\Omega}{\mathrm{N}}$ | 인 | $\overline{\mathrm{N}}$ | $\stackrel{\sim}{\mathrm{N}}$ | $\underset{N}{N}$ | $\underset{N}{\underset{N}{*}}$ | $\begin{array}{\|c} \stackrel{\sim}{N} \\ \text { N } \end{array}$ | $\begin{array}{\|c} \stackrel{0}{N} \\ \mathrm{~N} \end{array}$ | $\hat{\mathrm{N}}$ | $\left\|\begin{array}{c} \infty \\ \underset{N}{N} \end{array}\right\|$ | $\begin{array}{\|c} \stackrel{\sim}{\mathrm{N}} \\ \hline \end{array}$ | $\begin{aligned} & \text { O} \\ & \underset{N}{2} \\ & \hline \end{aligned}$ | $\bar{\sim}$ | $\underset{N}{\widetilde{N}}$ | $\stackrel{\underset{\sim}{2}}{\stackrel{1}{2}}$ | $\underset{N}{\underset{N}{2}}$ | $\stackrel{\sim}{N}$ | $\left\|\begin{array}{c} \bullet \\ \underset{N}{2} \end{array}\right\|$ | $\stackrel{\hat{N}}{\hat{N}}$ | $\begin{array}{\|c} \infty \\ \underset{N}{N} \\ \hline \end{array}$ | $$ | $\begin{array}{\|c} \stackrel{\circ}{\mathrm{N}} \\ \hline \end{array}$ | $\underset{\sim}{\underset{\sim}{N}}$ | $\stackrel{\sim}{\underset{\sim}{*}}$ | $\stackrel{\sim}{\underset{\sim}{~}}$ | $\stackrel{\ddagger}{\underset{N}{2}}$ | $\begin{array}{\|c} \substack{2 \\ ~} \\ \hline \end{array}$ | $\begin{array}{\|c} 0 \\ \underset{\sim}{*} \\ \hline \end{array}$ | $\stackrel{\underset{\sim}{\mathrm{N}}}{ }$ | $\begin{gathered} \infty \\ \underset{\sim}{*} \end{gathered}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{\underset{\sim}{2}} \end{gathered}\right.$ | $$ | $\stackrel{\Gamma}{N}$ | $\stackrel{\text { N}}{\text { N }}$ | $\stackrel{గ}{\sim}$ | $\stackrel{\mathrm{y}}{\mathrm{~N}}$ | $\stackrel{1}{\sim}$ | $\begin{gathered} \bullet \\ \stackrel{\leftrightarrow}{N} \end{gathered}$ | N | $\begin{array}{\|c} \infty \\ \stackrel{\sim}{N} \\ \hline \end{array}$ | $\stackrel{\square}{\sim}$ | － |


|  | $\stackrel{\sim}{\sim}$ | 읃 | $\stackrel{\infty}{\varnothing}$ | 을 | $\stackrel{\infty}{\perp}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\stackrel{\circ}{\infty}}{\stackrel{1}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\stackrel{0}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\begin{aligned} & \infty \\ & \stackrel{0}{\lambda} \end{aligned}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\stackrel{\mathscr{N}}{\stackrel{0}{\lambda}} \mid$ | $\stackrel{\infty}{\infty}$ | $\bigcirc$ | 응 | 알 | 응 | $\bigcirc$ | 응 | 응 | 을 | 응 | 응 | 응 | 응 | 잉 | $\bigcirc$ | $\stackrel{\mathscr{D}}{\stackrel{\infty}{\lambda}}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{y}{2} \end{array}\right\|$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\oplus}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \stackrel{\infty}{\lambda} \end{array}\right\|$ | $\stackrel{\otimes}{\otimes}$ | $\stackrel{\infty}{\infty}$ |  |  | 응 | 응 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\overline{0}}{\stackrel{0}{4}} \stackrel{\stackrel{2}{2}}{\gtrless}$ | ¢ | $\underset{\circlearrowleft}{\circlearrowleft}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\underset{\circlearrowleft}{\Psi}$ | $\mathbb{\top}$ | $\underset{0}{4}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | ৫ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{\text { © }}{\mathbf{U}}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\mathrm{O}}{\mathbf{4}}$ | $\underset{~ ভ ~}{\text { ৫ }}$ | $\underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\sim}{\mathbb{O}}$ | ভ | $\underset{\circlearrowleft}{\overleftarrow{O}}$ | $\stackrel{\varangle}{\mathrm{O}}$ | $\underset{0}{\mathbb{O}}$ | ভ | $\underset{0}{4}$ | $\underset{\circlearrowleft}{\Psi}$ | $\underset{0}{\top}$ | $\underset{0}{\overleftarrow{0}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | ভ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | ভ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\overleftarrow{\top}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\underset{\mathbf{U}}{\mathbf{\pi}}$ | $\underset{\circlearrowleft}{\circlearrowleft}$ | ৫ | $\underset{\circlearrowleft}{\text { ৫ }}$ | $\underset{~ ভ ~}{\text { ৫ }}$ | $\underset{\circlearrowleft}{\mathbb{O}}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | णे |  | ৫ | ¢ |
|  | $\wedge$ | $\wedge$ | N | $\wedge$ | 入 | 入 | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\cdots$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | 10 | N | － | 入 | 入 | 入 | N | － | N | 入 | 入 | N | N | N | 入 | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $N$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\underset{\sim}{\sim}$ | N |  | $\sim$ | $\sim$ |
|  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 을 | 을 | 을 | $\bigcirc$ | 을 | 을 | $\bigcirc$ | $\bigcirc$ | 읃 | 응 | $\bigcirc$ | 응 | $\bigcirc$ | 응 | 을 | 응 | 응 | 을 | 응 | 응 | 응 | 을 | 을 | $\bigcirc$ | 응 | $\bigcirc$ | 을 | 을 | 을 | 을 | 을 | 을 | $\bigcirc$ | 응 | 응 | 을 | $\bigcirc$ | 을 | 앙 |  | 응 | 을 |
|  | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{O} \\ & \underset{N}{\mathrm{~N}} \end{aligned}$ | $\left.\begin{array}{\|c} \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\left.\begin{array}{\|l\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ |  | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \text { Nin } \\ \underset{\infty}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \text { N} \\ \underset{\infty}{ } \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \stackrel{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{d} \end{array}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{c} \end{aligned}$ |  | $$ | $\begin{gathered} \underset{\sim}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{\infty} \end{gathered}$ | $\begin{aligned} & \hline \stackrel{\circ}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \\ & \underset{y}{2} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{\infty} \\ & \hline \end{aligned}\right.$ | $\left\|\begin{array}{l} \stackrel{\sim}{N} \\ \tilde{N} \\ \underset{\sim}{n} \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{\sim}{N} \\ & \hline \end{aligned}$ | O O N N | $\left.\begin{array}{\|c} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{N} \\ \underset{\sim}{2} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \text { Nin } \\ & \underset{\infty}{ } \end{aligned}$ | O <br> O <br> N <br>  | $\left\|\begin{array}{c} \mathrm{O} \\ \mathrm{O} \\ \underset{\sim}{\mathrm{~N}} \end{array}\right\|$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ 0 \\ \underset{\sim}{\mathrm{~N}} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \underset{\mathrm{~N}}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \underset{\sim}{\mathrm{~N}} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \text { N} \\ & \underset{\infty}{2} \end{aligned}$ | $\left.\begin{array}{\|c} \hline \mathrm{O} \\ \underset{\sim}{\mathrm{~N}} \\ \mathrm{o} \end{array} \right\rvert\,$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\circ}{N} \\ & \underset{\sim}{*} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \text { O} \\ & \underset{N}{7} \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{\infty} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \end{aligned}$ | $\underset{N}{\sim}$ |  | $\begin{aligned} & \stackrel{\rightharpoonup}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{n} \end{aligned}$ | O N N－ $\sim$ |
|  | － | － | ＊ | － | $\checkmark$ | － | － | － | － | － | － | － | － | － | － | － | － | － | 10 | 10 | 10 | $\sim^{\circ}$ | 10 | 10 | 10 | 15 | 10 | 10 | $\bigcirc$ | $\bigcirc$ | 15 | 10 | 10 | $\sim$ | 10 | $\bigcirc$ | 10 | 10 | 15 | 10 | $\bigcirc$ | 0 |  | 10 | 10 |
|  | ๓ | ल | m | ल | ल | m | m | ल | ल | m | m | m | ल | m | м | m | m | m | N | N | N | N | $\sim$ | N | $\sim$ | N | N | N | N | N | N | $\sim$ | $\sim$ | N | N | N | $N$ | N | N | N | N | N |  | $\sim$ | $N$ |
|  | $\bigcirc$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\infty$ | $\bigcirc$ | $\infty$ | $\bigcirc$ | $\infty$ | $\bigcirc$ | $\infty$ | 8 | 8 | 8 | 8 | ¢ | 8 | 8 | 8 | ¢ | ¢ | 8 | 8 | 8 | 8 | ¢ | 8 | 8 | 8 | 8 | ¢ | 8 | ¢ | 8 | ） |  | 8 | 8 |
|  | $\left\|\begin{array}{l} \text { or } \\ \hline \\ \infty \\ \infty \\ \hline \end{array}\right\|$ | $\begin{aligned} & O \\ & \underset{N}{N} \end{aligned}$ | $\begin{array}{\|c\|} \hline \\ \hat{N} \\ 1 \\ h^{2} \end{array}$ |  | $\left\|\begin{array}{l} \bar{\circ} \\ \omega_{n} \\ \stackrel{\circ}{\circ} \end{array}\right\|$ | $\left\lvert\, \begin{gathered} 0 \\ \infty \\ \infty \\ \bar{i} \\ \hline \end{gathered}\right.$ | $\left\|\begin{array}{c} \stackrel{O}{N} \\ \underset{U}{0} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \underset{\infty}{\infty} \\ \dot{n} \end{array}\right\|$ | $\stackrel{\infty}{\stackrel{\infty}{N}} \underset{\underset{N}{N}}{ }$ | $\begin{aligned} & \underset{\underset{F}{F}}{\underset{F}{2}} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \text { o } \\ & \text { O} \\ & \underset{F}{F} \\ & \hline \end{aligned}\right.$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{\infty} \\ \underset{\sim}{c} \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \underset{\sim}{\sim} \\ \underset{N}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} 8 \\ 0 \\ \hat{\infty} \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ \stackrel{c}{c} \\ \infty \\ 0 \\ \underset{\sim}{2} \end{array}\right\|$ | $\left.\begin{gathered} \underset{\sim}{n} \\ \underset{\sigma}{6} \end{gathered} \right\rvert\,$ | $\left\|\begin{array}{c} \underset{\sim}{0} \\ ल \\ \underset{j}{j} \end{array}\right\|$ | $\begin{aligned} & \overline{\hat{N}} \\ & \stackrel{\rightharpoonup}{N} \end{aligned}$ | $\begin{aligned} & \text { ed } \\ & \text { en } \\ & \underset{\sim}{m} \end{aligned}$ | $\begin{gathered} \underset{\sim}{6} \\ \underset{\sim}{\infty} \end{gathered}$ | $\left\|\begin{array}{l} 8 \\ 0 \\ 寸 \\ 寸 \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ 0 \\ 0 \\ i 0 \\ i \end{array}\right\|$ | $\begin{gathered} \bar{m} \\ \bar{\sigma} \end{gathered}$ | $\left\|\begin{array}{l} 1 \\ \infty \\ \infty \\ 1 \\ N \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \infty \\ \underset{\sim}{c} \\ \stackrel{-}{N} \end{array}$ | $\begin{gathered} \stackrel{y}{0} \\ \underset{\sim}{v} \end{gathered}$ | $\left\|\begin{array}{c} 0 \\ m \\ \infty \\ \dot{\sigma} \end{array}\right\|$ | $\begin{gathered} \underset{\sim}{2} \\ \underset{\sim}{6} \\ \underset{\sim}{2} \end{gathered}$ | $\begin{gathered} 8 \\ 0 \\ 0 \\ 0 \end{gathered}$ |  | $\begin{gathered} n \\ \underset{\sim}{\sim} \\ \underset{\sim}{2} \end{gathered}$ | $\begin{aligned} & \overline{1} \\ & \infty \\ & \omega_{0}^{2} \end{aligned}$ | $\begin{aligned} & \text { Oi} \\ & \text { O} \\ & \text { N} \end{aligned}$ |  | $\left\|\begin{array}{c} \tilde{y} \\ \underset{\sim}{\mathcal{j}} \end{array}\right\|$ | $$ | $\begin{gathered} \underset{\sim}{2} \\ \underset{\sim}{\infty} \\ \end{gathered}$ | $\begin{aligned} & \hat{e} \\ & \stackrel{y}{n} \\ & \underset{N}{2} \end{aligned}$ | $\begin{array}{\|c\|} \hline \infty \\ \stackrel{\infty}{N} \\ \stackrel{n}{n} \end{array}$ | $\begin{aligned} & \hline \stackrel{\circ}{0} \\ & \stackrel{\rightharpoonup}{m} \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & m \end{aligned}$ | en |  | $\begin{aligned} & \infty \\ & 0 \\ & \hat{0} \\ & \hat{6} \end{aligned}$ |  |
|  | $\frac{\underset{N}{N}}{}$ | $\stackrel{N}{N}$ | $\stackrel{\mathrm{N}}{\mathrm{~N}}$ | $\underset{N}{N}$ | $\mid \stackrel{0}{N}$ | $\mid \stackrel{N}{N}$ | $$ | $\mid \stackrel{\underset{N}{N}}{ }$ | $\left\lvert\,\right.$ | $\stackrel{\sim}{N}$ | $\|\underset{\sim}{\underset{N}{N}}\|$ | $\left\|\begin{array}{c} \stackrel{\sim}{N} \\ \underset{N}{N} \end{array}\right\|$ | $$ | $\stackrel{N}{\mathrm{~N}}$ | $\left\lvert\, \begin{gathered} \infty \\ \underset{N}{N} \\ \hline \end{gathered}\right.$ | N | $\begin{array}{\|c} \hline \stackrel{e}{N} \\ \underset{N}{2} \end{array}$ | $\stackrel{\underset{\sim}{\underset{N}{N}}}{ }$ | $\begin{aligned} & \hline \mathrm{O} \\ & \text { N} \end{aligned}$ | $\begin{array}{\|c\|} \hline \\ \underset{N}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{N}{\mathrm{~N}} \\ \text { \| } \end{array}$ | $\left.\begin{array}{\|c\|} \hline \stackrel{e}{N} \\ \text { N} \end{array} \right\rvert\,$ | $$ | $\begin{array}{\|l\|} \hline \stackrel{\rightharpoonup}{0} \\ \underset{N}{N} \end{array}$ | $\left.\begin{array}{\|l\|} \hline \hline \\ \hline \end{array} \right\rvert\,$ | $\begin{aligned} & \hat{N} \\ & \text { N} \end{aligned}$ | $\left.\begin{array}{\|l\|} \hline \infty \\ 0 \\ \text { N} \end{array} \right\rvert\,$ | $\begin{aligned} & \hline \stackrel{\rightharpoonup}{0} \\ & \text { Ǹ } \end{aligned}$ | $\stackrel{0}{\stackrel{N}{N}}$ | $\stackrel{\Gamma}{\stackrel{\rightharpoonup}{N}}$ | $\stackrel{N}{N}$ | $\frac{m}{N}$ | $\begin{aligned} & \text { N్N } \\ & \text { Nे } \end{aligned}$ | $\stackrel{\bar{N}}{\mathrm{~N}} \mid$ | $\begin{array}{\|c} \underset{N}{N} \\ \underset{N}{2} \end{array}$ | $\stackrel{\underset{N}{N}}{ }$ | $\begin{gathered} \underset{\sim}{N} \end{gathered}$ | $\begin{aligned} & \stackrel{\sim}{2} \\ & \underset{N}{N} \end{aligned}$ | $$ | $\begin{aligned} & \mathrm{N} \\ & \underset{N}{N} \end{aligned}$ | $\begin{aligned} & \stackrel{\sim}{N} \\ & \underset{N}{2} \end{aligned}$ | $\underset{N}{N}$ |  | $\stackrel{\Gamma}{N}$ | N |
|  |  |  |  |  |  |  |  |  |  | 1GAZGYFA7C1144735 | 1GAZGYFA3C1146028 |  |  |  |  |  |  | 1GAZG1FG4C1147166 |  <br>  <br>  <br>  <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  |  |  |  |  |  |  | 0 <br>  <br>  <br>  <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 |  | $\boxed{0}$ <br>  <br>  <br>  |  |  |  |  | 1FBNE3BL3DDA71731 |  |  |  |  |  |  |  | 0 2 2 2 2 2 2 2 2 | 0 |  |  |
| $\begin{array}{lll\|} \hline \frac{0}{0} & 0 \\ \frac{0}{\pi} & 0 \\ \hline & 0 \\ > \end{array}$ | $\cdots$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{-}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{-}{\sim}$ | $\stackrel{\sim}{-}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\cdots$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{-}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\sim}$ | n |  | $\stackrel{\square}{-}$ | $\stackrel{\sim}{-}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $c$ <br> $\stackrel{N}{0}$ <br> $\stackrel{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br>  |  |  |  | $c$ <br> $\stackrel{N}{0}$ <br> $\stackrel{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br>  |  |  |  |  |  |  | 2013 Ford Econoline |  |  |  |  |  | － |  | 2013 Ford Econoline |
|  | ¢ | $\begin{gathered} \mathrm{N} \\ \mathrm{~N} \end{gathered}$ | $$ | $\begin{array}{\|c\|c\|} \hline \\ \hline \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 1 \\ 0 \\ \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \\ 0 \\ N \\ \hline \end{array}$ | $\begin{array}{\|c} \hat{e} \\ \hat{N} \end{array}$ | $\begin{aligned} & \infty \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \text { N } \end{aligned}$ | $\stackrel{\ominus}{\mathrm{N}}$ | $\stackrel{\bar{N}}{\mathrm{~N}}$ | $\begin{array}{\|c} N \\ N \end{array}$ | $\stackrel{\aleph}{N}$ | $\stackrel{H}{\mathrm{~N}}$ | $\stackrel{\stackrel{i}{2}}{\stackrel{N}{N}}$ | $\begin{array}{\|c} \stackrel{\circ}{\mathrm{N}} \\ \hline \end{array}$ | $\stackrel{N}{\mathrm{~N}}$ | $\stackrel{\infty}{\stackrel{\infty}{N}}$ | $\stackrel{\circ}{\stackrel{\circ}{N}}$ | $\begin{array}{\|c} \circ \\ \underset{N}{2} \\ \hline \end{array}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{\infty} \\ \underset{N}{2} \end{gathered}\right.$ | $\begin{array}{\|c} \underset{\sim}{\infty} \\ \underset{N}{2} \\ \hline \end{array}$ | $\begin{gathered} \infty \\ \underset{\sim}{\infty} \\ \hline \end{gathered}$ | $\stackrel{+}{\substack{\underset{N}{N} \\ \hline}}$ | $\begin{aligned} & 10 \\ & \underset{\sim}{1} \\ & \hline \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{N}{\infty} \end{aligned}$ | $\begin{gathered} \stackrel{\sim}{\infty} \\ \underset{N}{2} \end{gathered}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \\ & \hline \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{N}{0} \end{aligned}$ | $\stackrel{\mathrm{N}}{\mathrm{~N}}$ | $\stackrel{\underset{N}{N}}{ }$ | $\begin{gathered} \underset{N}{2} \\ \underset{N}{2} \end{gathered}$ | $\stackrel{\substack{2 \\ \underset{N}{2} \\ \hline}}{ }$ | $\stackrel{H}{N}$ | $\begin{array}{\|c} \stackrel{1}{2} \\ \underset{N}{2} \\ \hline \end{array}$ | $\stackrel{\oplus}{\mathrm{N}} \mathrm{~N}$ | N | $\stackrel{\infty}{\underset{\sim}{N}}$ | $\begin{array}{\|c} \hline \underset{N}{2} \\ \hline \end{array}$ | － | ¢ | O | ¢ | ¢ | L |


|  | 을 | 읃 | 을 | $\bigcirc$ | 을 | 을 | 읃 | 을 | 을 | $\bigcirc$ | $\bigcirc$ | 을 | $\bigcirc$ | 을 | 읃 | 을 | 을 | $\bigcirc$ | 을 | 응 | 을 | 을 | 으응 | 을 | $\bigcirc$ | $\left\|\begin{array}{l} \infty \\ \stackrel{0}{\lambda} \end{array}\right\|$ | $\stackrel{\oplus}{\infty}$ | $\bigcirc$ | $\stackrel{\infty}{\infty} \mid$ | $\begin{aligned} & \infty \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \mathscr{0} \\ & \underset{\sim}{2} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\left.\begin{array}{\|l\|} \infty \\ \infty \\ \mathbf{\lambda} \end{array} \right\rvert\,$ | $\left\|\begin{array}{l} \infty \\ \underset{\sim}{\infty} \end{array}\right\|$ | $\begin{aligned} & 0 \\ & \underset{\sim}{2} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\oplus}{\infty}$ | $\left\|\begin{array}{l} \infty \\ \underset{\sim}{\infty} \end{array}\right\|$ | 을 | 을 | 읃 | 을 | 을 | 응 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ¢ }}{\text { ¢ }}$ | ¢ | ¢ | ৫ | $\|\underset{ভ}{\top}\|$ | ৫ | $\|\underset{\circlearrowleft}{ }\|$ | $\mid \underset{\circlearrowleft}{\mathbf{U}}$ | ৫ | $\underset{\circlearrowleft}{\Psi} \mid$ | $\left\|\begin{array}{\|c\|} \mathbb{0} \end{array}\right\|$ | $\mid \underset{\circlearrowleft}{\mathbf{\top}}$ | ৫ | $\|\underset{0}{4}\|$ | $\|\underset{\circlearrowleft}{\boxed{\top}}\|$ | $\mid \underset{\circlearrowleft}{\mathbf{U}}$ | $\|\underset{\circlearrowleft}{\boxed{U}}\|$ | $\|\underset{\circlearrowleft}{\boxed{\top}}\|$ | $\mid \underset{ভ}{\mathbf{U}}$ | $\mid \underset{\mathbf{U}}{\mathbf{4}}$ | $\mid \underset{\circlearrowleft}{\top}$ | $\underset{\circlearrowleft}{\overleftarrow{0}}$ | $\mid \underset{ভ}{\varangle}$ | $\left\|\begin{array}{\|c} \mathbb{1} \end{array}\right\|$ | $\|\underset{\circlearrowleft}{\widetilde{0}}\|$ | $\|\underset{0}{\mathbf{N}}\|$ | $\|\underset{\circlearrowleft}{\boxed{O}}\|$ | $\|\underset{\circlearrowleft}{\widetilde{0}}\|$ | ৫ | $\mathbb{ভ}$ | $\|\underset{0}{4}\|$ | ভ | $\mid \underset{\circlearrowleft}{\boxed{\top}}$ | $\underset{\circlearrowleft}{\Psi}$ | $\mathbb{ভ}$ | $\stackrel{\varangle}{\mathbf{0}}$ | ভ | $\mathbb{\top}$ | $\mathbb{\circlearrowleft}$ | ৫ | $\|\underset{0}{4}\|$ | © | © | $\|\underset{0}{\mathbf{0}}\|$ | $\mid \underset{\circlearrowleft}{\boxed{\top}}$ | ¢ |
|  | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{*}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{ }{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\sim$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{10}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{10}{\sim}$ | N | N | N | 入 | N | 入 | 入 | N | N | N | 入 | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ |
|  | $\bigcirc$ | $\bigcirc$ | 을 | 읃 | 을 | $\bigcirc$ | $\bigcirc$ | 읃 | $\bigcirc$ | $\bigcirc$ | 읃 | 을 | $\bigcirc$ | 읃 | $\bigcirc$ | 응 | 읃 | 응 | 읃 | 응 | 을 | 응 | 을 | 응 | 을 | $\bigcirc$ | 을 | 을 | 을 | 을 | 을 | 읃 | 을 | $\bigcirc$ | 을 | 을 | 응 | 응 | 을 | 읃 | $\bigcirc$ | 읃 | 을 | 을 | 응 |
|  | $\begin{aligned} & \hline \stackrel{O}{N} \\ & ल \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \underset{\sim}{2} \\ & \underset{\sim}{2} \\ & \underset{y}{\mid} \end{aligned}$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{N} \end{array}\right\|$ | $\begin{array}{\|c\|} \hline \stackrel{N}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{n} \end{array}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{2} \\ \tilde{m} \\ \underset{\sim}{N} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\left\lvert\,\right.$ | $\begin{aligned} & \hline \underset{\sim}{N} \\ & \underset{\sim}{2} \\ & \underset{\sim}{N} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \hline \underset{N}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned}\right.$ | $\left\lvert\, \begin{gathered} \underset{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{N} \end{gathered}\right.$ | $\left\lvert\,\right.$ | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{n} \end{aligned}$ |  | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\left\lvert\, \begin{gathered} 0 \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\begin{array}{l\|} \hline \stackrel{\sim}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{n} \end{array}$ | $\left.\begin{array}{\|c\|} \hline \stackrel{\sim}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{2} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{~m} \\ & \underset{\sim}{2} \\ & \underset{\infty}{2} \end{aligned}$ | $\left\lvert\, \begin{gathered} 0 \\ \underset{\sim}{n} \\ \underset{\sim}{N} \\ \underset{\infty}{ } \end{gathered}\right.$ | $\begin{aligned} & \hline \stackrel{\sim}{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{n} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ |  | $\begin{aligned} & \hline \stackrel{N}{N} \\ & \underset{\sim}{7} \\ & \underset{\sim}{c} \end{aligned}$ |  |  | $\begin{aligned} & \hline 0 \\ & \stackrel{0}{\sigma} \\ & \hat{0} \\ & \omega \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{O} \\ & 0 \\ & \underset{N}{N} \end{aligned}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\left\|\begin{array}{c} \mathrm{O} \\ 0 \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left.\begin{array}{\|c\|} \hline \mathrm{O} \\ \mathrm{O} \\ \mathrm{~N} \\ \mathrm{~N} \end{array} \right\rvert\,$ | $$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \mathrm{~N} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & 0 \\ & \underset{\sim}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \underset{\sim}{\mathrm{~N}} \\ & \underset{\sim}{2} \end{aligned}$ | $\left.\begin{gathered} \mathrm{O} \\ \mathrm{O} \\ \underset{N}{\mathrm{~N}} \\ \mathrm{o} \end{gathered} \right\rvert\,$ | $\begin{aligned} & \mathrm{o} \\ & \underset{\sim}{n} \\ & \underset{\sim}{N} \\ & \underset{\infty}{ } \end{aligned}$ | $\left\|\begin{array}{c} \stackrel{\sim}{N} \\ \underset{\sim}{2} \\ \underset{\sim}{c} \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \stackrel{\sim}{N} \\ & \tilde{N} \\ & \underset{\sim}{n} \\ & \underset{\sim}{2} \end{aligned}\right.$ | $\left\lvert\, \begin{array}{l\|} \hline \underset{N}{N} \\ \underset{\sim}{n} \\ \underset{\sim}{n} \end{array}\right.$ |  | O N $\sim$ $N$ 0 |
|  | 10 | is | 15 | $\infty$ | is | 10 | 10 | $\infty$ | $1 \sim$ | is | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | $\llcorner$ | 1 | 10 | 10 | 10 | 15 | 10 | 10 | 10 | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bigcirc$ | $\bullet$ | $\bullet$ |
|  | $\sim$ | $\sim$ | $\sim$ | $\sim$ | N | $\sim$ | $\sim$ | $\sim$ | $\sim$ | N | $\sim$ | $\sim$ | $\sim$ | $\sim$ | N | $\sim$ | N | N | $\sim$ | N | N | N | $\sim$ | N | N | N | N | N | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | $\checkmark$ | － | $\checkmark$ | － | － | $\checkmark$ | － | － |
|  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | ¢ | 8 | 8 | 8 | 8 | ¢ | 8 | 8 | ¢ | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | ¢ | ¢ | ¢ | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  | $\left\|\begin{array}{l} 8 \\ 0 \\ 0 \\ 0 \\ 寸 \end{array}\right\|$ | $\left\lvert\, \begin{gathered} 9 \\ \dot{G} \\ \dot{\sigma} \end{gathered}\right.$ | $\begin{gathered} \stackrel{\sim}{n} \\ \underset{寸}{-} \end{gathered}$ | $\left\|\begin{array}{l} \text { g } \\ \text { - } \\ \underset{\text { ju}}{ } \end{array}\right\|$ | $\left\|\begin{array}{l} \hat{N} \\ 0 \\ 0 \\ 0 \\ 1 \end{array}\right\|$ | $\left\|\begin{array}{l} \mathrm{N} \\ \mathrm{M} \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{l} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array}\right\|$ | $\left\|\begin{array}{c} 8 \\ \underset{N}{n} \\ i \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \infty \\ & \infty \\ & 0 \\ & \underset{\sim}{j} \\ & \hline \end{aligned}\right.$ | $\left\|\begin{array}{l} \mathrm{N} \\ \mathrm{~N} \\ \mathcal{G} \end{array}\right\|$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{m} \\ \underset{m}{j} \end{array}\right\|$ | $\left.\begin{aligned} & \infty \\ & \underset{\infty}{\infty} \\ & \infty \\ & \hline \end{aligned} \right\rvert\,$ | $\left\|\begin{array}{c} 10 \\ 0 \\ \vdots \\ \end{array}\right\|$ | $\left\|\begin{array}{l} \tilde{n} \\ \underset{N}{0} \\ 0 \end{array}\right\|$ | $\stackrel{\hat{6}}{2}$ | $\left\|\begin{array}{l} 8 \\ 0 \\ 0 \\ \gamma^{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \infty \\ \underset{\sim}{n} \\ 0 \\ \sim \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \stackrel{N}{N} \\ \vdots \\ \hline \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \underset{N}{N} \end{array}\right\|$ | $\left.\begin{aligned} & 0 \\ & \infty \\ & N \\ & N \end{aligned} \right\rvert\,$ | $\left\|\begin{array}{l} n \\ 0 \\ 0 \\ \underset{\sim}{2} \end{array}\right\|$ | $\left\|\begin{array}{l} \underset{~}{O} \\ o \\ \underset{~ j}{n} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{U}{\mathrm{O}} \\ \underset{\sim}{\mathrm{~N}} \end{array}\right\|$ | $\left\|\begin{array}{c} N \\ 0 \\ 0 \\ \infty \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{c} 0 \\ \stackrel{0}{\Gamma} \\ \infty \end{array}\right\|$ | $\left\|\begin{array}{c} 10 \\ \underset{\sim}{\circ} \\ \dot{q} \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \omega \\ 0 \\ N \\ i \end{array}\right\|$ | $\left\|\begin{array}{l} \infty \\ \infty \\ \infty \\ 0 \\ i \end{array}\right\|$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & \underset{\sim}{1} \end{aligned}$ | $\begin{aligned} & \hline 9 \\ & \hat{N} \\ & \underset{N}{2} \end{aligned}$ | $\begin{aligned} & \frac{m}{\underset{f}{f}} \\ & \underset{r}{2} \end{aligned}$ | $\left.\begin{array}{\|l\|} \hline \stackrel{9}{2} \\ \stackrel{\sim}{\sim} \end{array} \right\rvert\,$ | $\begin{array}{\|c} L_{0} \\ \underset{\sim}{N} \\ \hline \end{array}$ |  | $\begin{array}{\|c\|} \hline \underset{m}{m} \\ \underset{\sim}{2} \end{array}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0_{c} \end{aligned}$ | $\begin{aligned} & 0 \\ & \infty \\ & \underset{\sim}{\sim} \end{aligned}$ | $$ | $\begin{array}{\|c\|} \hline 0 \\ \hline 8 \\ \mathrm{o} \\ \mathrm{~N} \end{array}$ | $\left\|\begin{array}{c} n \\ 0 \\ \underset{N}{N} \end{array}\right\|$ | $\left\|\begin{array}{c} \mathrm{N} \\ \mathrm{~N} \\ \mathrm{~N} \end{array}\right\|$ | $\left\|\begin{array}{l} 10 \\ 0 \\ \underset{N}{2} \end{array}\right\|$ | $\left\|\begin{array}{c} \underset{\sim}{\sim} \\ \underset{\sim}{0} \end{array}\right\|$ | $\left\|\begin{array}{c} \mathbf{d}^{0} \\ 0 \\ \underset{N}{5} \end{array}\right\|$ | N |
|  | $\begin{array}{\|l\|} \hline \stackrel{m}{2} \\ \underset{N}{2} \end{array}$ | $\begin{aligned} & \underset{\sim}{\mathrm{N}} \\ & \underset{N}{2} \end{aligned}$ | $\begin{aligned} & \stackrel{\sim}{ल} \\ & \underset{N}{2} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{N} \\ & \underset{N}{2} \end{aligned}$ | $$ | $\begin{array}{\|l\|} \hline \underset{\sim}{2} \\ \underset{N}{2} \end{array}$ | $\left.\begin{array}{\|l\|} \hline \mathbf{p} \\ \underset{N}{N} \end{array} \right\rvert\,$ | $\begin{aligned} & \mathrm{O} \\ & \underset{N}{N} \end{aligned}$ | $\left\|\begin{array}{c} \underset{\sim}{N} \\ \hline \end{array}\right\|$ | $\begin{array}{\|c\|} \underset{\sim}{N} \\ \underset{N}{2} \end{array}$ | $\begin{array}{\|c\|} \hline \stackrel{m}{\underset{N}{N}} \end{array}$ | $\begin{array}{\|c\|} \hline \underset{\sim}{2} \\ \underset{N}{2} \end{array}$ | $\left. \right\rvert\,$ | $\left\lvert\, \begin{aligned} & \substack{4 \\ \underset{N}{2} \\ \hline} \end{aligned}\right.$ | $\begin{array}{\|c\|} \hline \stackrel{y}{\mathbf{N}} \\ \hline \end{array}$ | $\left.\begin{array}{\|c\|} \hline \infty \\ \underset{\sim}{4} \end{array} \right\rvert\,$ | $\begin{aligned} & \hline \underset{\sim}{2} \\ & \underset{N}{2} \end{aligned}$ | $\left\|\begin{array}{l} \circ \\ \stackrel{1}{N} \\ \underset{N}{2} \end{array}\right\|$ | $\left.\begin{array}{\|c} \bar{i} \\ \stackrel{N}{N} \end{array} \right\rvert\,$ | $\left\|\begin{array}{c} \mathrm{N} \\ \underset{N}{N} \end{array}\right\|$ | $\left.\begin{array}{\|c} \stackrel{\sim}{1} \\ \stackrel{\sim}{N} \end{array} \right\rvert\,$ | $\left\|\begin{array}{c} \stackrel{4}{N} \\ \underset{N}{2} \end{array}\right\|$ | $\begin{array}{\|l} \hline 0 \\ \\ \mathrm{~N} \\ \mathrm{~N} \end{array}$ | $\left.\begin{array}{\|l\|} \hline 0 \\ \\ \mathrm{~N} \end{array} \right\rvert\,$ | $\begin{array}{\|l\|} \hline \stackrel{N}{n} \\ \underset{N}{2} \end{array}$ | $\left\|\begin{array}{l} \hline \mathrm{e} \\ \underset{N}{\mathrm{~N}} \end{array}\right\|$ | $\left.\begin{array}{\|c\|} \hline \bar{e} \\ \underset{N}{2} \end{array} \right\rvert\,$ | $\begin{array}{\|l\|} \hline \mathrm{N} \\ \mathrm{~N} \end{array}$ | $\begin{aligned} & \mathrm{O} \\ & \text { N } \end{aligned}$ | $\begin{array}{\|c} \overline{-} \\ \text { N } \end{array}$ | $\begin{array}{\|c\|} \hline \mathrm{O} \\ \underset{\sim}{c} \end{array}$ | $\begin{array}{\|c} \substack{o \\ \underset{\sim}{2} \\ \hline} \end{array}$ | $\begin{array}{\|c} \underset{\sim}{\prime} \\ \underset{\sim}{c} \end{array}$ | $\begin{aligned} & \hline \stackrel{0}{0} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{array}{\|l\|} \hline 0 \\ \stackrel{y}{N} \end{array}$ | $\begin{aligned} & \hline \stackrel{\rightharpoonup}{\circ} \\ & \underset{\sim}{2} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \underset{\sim}{4} \end{aligned}$ | $\begin{aligned} & \text { oi } \\ & \stackrel{+}{\mathrm{N}} \end{aligned}$ | $\frac{\mathrm{O}}{\underset{\sim}{2}}$ | $\begin{array}{\|c} \underset{\sim}{\mathrm{N}} \\ \underset{\sim}{2} \end{array}$ | $\left\lvert\, \begin{gathered} \underset{\sim}{N} \\ \underset{\sim}{2} \end{gathered}\right.$ | $\left\|\begin{array}{l} \underset{N}{\mathrm{~N}} \end{array}\right\|$ | $\begin{array}{\|c} \underset{\sim}{N} \\ \underset{\sim}{2} \end{array}$ | $\begin{gathered} \underset{\sim}{\underset{\sim}{N}} \end{gathered}$ | $\stackrel{\sim}{\sim}$ |
|  |  |  |  |  |  |  |  | 1FBNE3BL8DDA87651 |  |  | 1FBNE3BL2DDA87645 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | o <br> N <br> O <br>  |  |  |  |  |  |  |
| $$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{\square}$ | $\div$ | $\div$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\stackrel{-}{-}$ | $\stackrel{\square}{\sim}$ | $\cdots$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{-}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{-}$ | $\stackrel{\square}{-}$ | $\stackrel{\sim}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{\square}{\square}$ | $\stackrel{-}{\square}$ | $\stackrel{\square}{\sim}$ | $\stackrel{\square}{-}$ | $\cdots$ | $\cdots$ | $\stackrel{\sim}{\square}$ | $\stackrel{\sim}{-}$ | $\stackrel{\sim}{\square}$ |
|  | 2013 Ford Econoline | 2013 Ford Econoline |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $c$ <br> $\stackrel{0}{0}$ <br> $\stackrel{0}{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br>  <br>  |  |  |  |  |  |  |
|  | $\begin{array}{\|l\|} \hline \hline \\ \hline \mathbf{M} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hat{N} \\ \hline \end{array}$ | $\begin{aligned} & \infty \\ & \hline 0 \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \hline \text { oे } \\ \hline \end{array}$ | $\frac{0}{2}$ | $\stackrel{\Gamma}{\bar{m}}$ | $\stackrel{N}{\mathrm{~m}}$ | $\frac{m}{m}$ | $\stackrel{\rightharpoonup}{\mathrm{m}}$ | $\frac{\omega}{m}$ | $\frac{\varphi}{m}$ | $\frac{N}{n}$ | $\frac{\infty}{m}$ | $\begin{array}{\|c} \hline \frac{9}{m} \\ \hline \end{array}$ | $\begin{array}{\|c} \stackrel{\rightharpoonup}{\mathrm{N}} \\ \mathrm{~m} \end{array}$ | $\begin{array}{\|c} \underset{\sim}{N} \\ \hline \end{array}$ | $\begin{array}{\|c} \underset{N}{N} \\ \underset{\sim}{2} \end{array}$ | $\begin{gathered} \underset{\sim}{2} \\ \hline \end{gathered}$ | $\begin{gathered} \underset{\sim}{\underset{N}{2}} \end{gathered}$ | $\begin{array}{\|c} \stackrel{2}{2} \\ \underset{\sim}{2} \end{array}$ | $\begin{array}{\|c} \stackrel{0}{2} \\ \mathrm{~m} \end{array}$ | $\begin{gathered} \mathrm{N} \\ \mathrm{~m} \end{gathered}$ | $\begin{array}{\|c} \infty \\ \underset{\sim}{2} \end{array}$ | $\begin{array}{\|c} \stackrel{\rightharpoonup}{\mathrm{N}} \\ \mathrm{~m} \end{array}$ | $\begin{aligned} & \text { Pen } \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \bar{m} \\ \hline \end{array}$ | $\begin{array}{\|c} \stackrel{N}{2} \\ \end{array}$ | $\begin{aligned} & \underset{m}{m} \\ & \hline \end{aligned}$ | $\stackrel{\underset{\sim}{\mathrm{m}}}{ }$ | $\begin{aligned} & \text { n } \\ & \hline \end{aligned}$ | $\begin{aligned} & \underset{\sim}{e} \\ & \end{aligned}$ | $\begin{array}{\|c} \mathbf{N} \\ \mathrm{m} \\ \hline \end{array}$ | $\begin{aligned} & \infty \\ & \underset{m}{m} \\ & \hline \end{aligned}$ | $\begin{aligned} & \underset{\sim}{\mathrm{M}} \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \stackrel{\rightharpoonup}{\mathrm{O}} \\ \hline \end{array}$ | $\underset{\sim}{\underset{\sim}{f}}$ | $\stackrel{\underset{\sim}{c}}{ }$ | $\stackrel{\sim}{m}$ | $\begin{aligned} & \underset{~}{寸} \\ & \mathrm{~m} \end{aligned}$ | L | $\begin{array}{\|c} \hline \\ \hline \\ \hline \end{array}$ | $\begin{aligned} & \underset{\sim}{\mathrm{m}} \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \infty \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{9 \\ \text { en } \\ \hline} \end{array}$ | ¢ |



Public Transportation Management System
Owned Equipment Inventory

|  | Equipment Code and Description | Condition (points) | Age (years) | Remaining Useful Life (years) | Replacement Cost (\$) | Comments <br> (If more than two lines, please attach a separate comment page) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Telephone System | 67 | 7 | 3 | \$200,000 | Software patches and parts replacements as needed |
| 3. | CAD/AVL | 85 | 7 | 3 | \$6,000,000 | Regular software patches |
| 4. | Paratransit Dispatch Software | 85 | 7 | 3 | \$450,000 |  |
| 5. | Mobile Digital Survellience System | 91 | 4 | 5 | \$850,000 | Camera installation should be included in new bus replacements |
| 6. | Fuel Management System | 100 | 0 | 10 | \$300,000 | Installation by late 2012 |
| 7. | Bus Wash Systems | 87 | 3 | 12 | \$400,000 |  |
| 8. | Fixed Route Runcutting \& Scheduling Software | 70 | 8 | 2 | \$100,000 | Frequent software patches as needed to integrate with AVL system |
| 9. | Inventory \& Accounting Software | 92 | 7 | 3 | \$750,000 | last major upgrade 7 years ago. freq minor upgrades |
| 10. | Digital Voice Recording System | 40 | 7 | 3 | \$100,000 | Feature of on-bus announcement system with CAD/AVL system |

Public Transportation Management System Owned Facility Inventory
Agency/Organization: Intercity Transit
Date: January 13, 2016

|  | ty | Facility Name | Condition (points) | Age (years) | Remaining Useful Life (years) | Replacement Cost (\$) | Comments <br> (If more than two lines, please attach a separate comment page) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 23 | Administration Building | 55 | 30 | 19 | \$3,500,000 |  |
| 2. | 11 | Maintenance Building | 52 | 30 | 19 | \$10,500,000 |  |
| 3. | 6 | Olympia Transit Center | 66 | 21 | 28 | \$7,000,000 |  |
| 4. | 6 | Lacey Transit Center | 72 | 19 | 30 | \$1,500,000 |  |
| 5. | 24 | Amtrak Depot | 70 | 22 | 16 | \$2,000,000 |  |
| 6. | 9 | Martin Way Park and Ride | 88 | 31 | 34 | \$1,000,000 | Owned by WSDOT. Lot/capacity redesigned \& doubled in 2009 |
| 7. | 9 | Hawks Prairie Park and Ride | 97 | 2 | 38 | \$1,500,000 | Property leased from Thurston Co. |

## Appendix D

## Operating Data

## 2015 Summary of Fixed Route Services

|  | Headways |  |  |  |  | Revenue Service Hours |  |  | Revenue Service Miles |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekday |  |  | Sat | Sun | Wkdy | Sat | Sun | Wkdy | Sat | Sun |
| Route | Peak | Mid | Night |  |  |  |  |  |  |  |  |
| 12-W. Tumwater | 30 | 60 | 60 | 60 | 60 | 6532 | 726 | 653 | 90,931 | 9,991 | 9,186 |
| 13-E. Tumwater | 15 | 15 | 60 | 60 | 60 | 13,419 | 638 | 633 | 150,477 | 7,604 | 7,386 |
| 21-N. Bethel | 30 | 60 |  | 60 | 60 | 2,603 | 298 | 321 | 33,331 | 3,794 | 4,115 |
| 41-TESC | 15 | 30 | 30 | 30 | 30 | 10,257 | 1,550 | 1,281 | 130,838 | 19,630 | 16,333 |
| 42-Family Court | 30 | 30 |  |  |  | 1,632 |  |  | 17,424 |  |  |
| 43-SPSCC/Tumwater | 30 | 30 |  | 60 |  | 6,874 | 533 |  | 86,528 | 6,956 |  |
| 44-SPSCC/Cap. Mall | 30 | 30 | 30 | 30 | 60 | 8,166 | 1,369 | 655 | 102,426 | 17,213 | 8,2573 |
| 45-Conger/Cap. Mall | 30 | 60 |  | 60 |  | 3,797 | 584 |  | 38,118 | 5,161 |  |
| 47-Capital Mall/CMC | 30 | 30 |  | 60 | 60 | 6,959 | 591 | 637 | 62,373 | 5,411 | 6,371 |
| 48-Capital Mall/TESC | 30 | 30 | 30 | 30 |  | 7,851 | 1,369 |  | 105,549 | 18,314 |  |
| 49-Capital Mall |  |  |  |  | 30 |  |  | 623 |  |  | 6,474 |
| 60-Lilly/Panorama | 30 | 60 |  | 60 | 60 | 7,211 | 871 | 903 | 73,062 | 9,083 | 9,461 |
| 62A-Martin/Meridian | 30 | 30 | 60 | 30 | 60 | 11,085 | 1,598 | 993 | 135,117 | 19,778 | 13,593 |
| 62B-Martin/Meadows | 30 | 30 | 60 | 30 | 60 | 11,968 | 1,831 | 985 | 151,603 | 23,511 | 13,883 |
| 64-College/ Amtrak | 30 | 60 |  | 60 | 60 | 10,752 | 1,264 | 1,257 | 122,394 | 14,341 | 14,286 |
| 66-Ruddell | 30 | 30 | 60 | 30 | 30 | 12,032 | 2,041 | 1,957 | 152,858 | 26,122 | 24,819 |
| 67-Tri-Lakes | 60 | 60 |  | 60 |  | 3,435 | 548 |  | 52,224 | 8,471 |  |
| 68-Carpenter/Yelm Hwy | 30 | 60 |  | 60 | 60 | 10,176 | 1,211 | 1,306 | 160,102 | 18,666 | 20,172 |
| 94-Yelm | $\begin{array}{r} 30 / \\ 60 \\ \hline \end{array}$ | $\begin{array}{r} \hline 30 / \\ 60 \end{array}$ |  | $\begin{gathered} \hline 60 / \\ 75 \end{gathered}$ | 135 | 11,354 | 1,226 | 708 | 211,584 | 25,179 | 14,679 |
| 101-Dash | $\begin{gathered} \hline 12 / \\ 15 \end{gathered}$ | $\begin{gathered} \hline 12 / \\ 15 \end{gathered}$ |  | 10 |  | 6,212 | 348 |  | 51,015 | 2,534 |  |
| 411-Nightline |  |  | 60 | 60 | 60 | 126 | 126 | 99 | 1,734 | 1,734 | 1,350 |
| $\begin{aligned} & \text { * ST592-Oly/DuPont } \\ & \text { (Sea) } \\ & \hline \end{aligned}$ | $\begin{gathered} 6 \mathrm{AM} / \\ 6 \mathrm{PM} \end{gathered}$ |  |  |  |  | 1,862 |  |  | 50,184 |  |  |
| 603-Olympia/Tacoma | 30 | 90 |  |  |  | 6,336 |  |  | 146,227 |  |  |
| 605-Olympia/Tacoma | 30 | 90 |  |  |  | 6,357 |  |  | 151,439 |  |  |
| * 609- <br> Tumwater/Lakewood | 30 | 90 |  |  |  | 6,123 |  |  | 173,414 |  |  |
| 612-Lacey/Tacoma | $\begin{gathered} \hline 1 \mathrm{AM} / \\ 1 \mathrm{PM} \end{gathered}$ |  |  |  |  | 674 |  |  | 16,263 |  |  |
| 620-Oly/Tacoma Mall |  |  |  | $\begin{gathered} 60 / \\ 90 \end{gathered}$ | $\begin{gathered} 60 / \\ 90 \end{gathered}$ |  | 1,118 | 1,205 |  | 27,781 | 29,948 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| System Totals |  |  |  |  |  | 173,791 | 19,839 | 14,217 | 2,467,215 | 271,276 | 200,326 |
| 2015 Totals |  |  |  |  |  | 207,847 |  |  | 2,938,817 |  |  |

* WSDOT "Regional Mobility Grant:" funded through June 2017.


## 2015 Route Service Summary

| Route | Total Boardings | Revenue Hours | Board / Hour | Rating | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Trunk Routes |  |  |  |  |  |
| 13-E. Tumwater | 346,969 | 14,690 | 23.6 | Marginal |  |
| 41-TESC | 486,936 | 13,087 | 37.2 | Satisfactory |  |
| 44-SPSCC/Cap. Mall | 259,266 | 10,190 | 25.4 | Satisfactory |  |
| 48-Capital Mall/TESC | 351,426 | 9,219 | 38.1 | Satisfactory | Runs weekday \& Saturday. |
| 49-Capital Mall | 25,994 | 623 | 41.7 | Exceeds | Runs Sunday only. |
| 62A-Martin/Meridian | 369,192 | 13,676 | 27.0 | Satisfactory |  |
| 62B-Martin/Meadows | 376,896 | 14,784 | 25.5 | Satisfactory |  |
| 66-Ruddell | 339,298 | 16,030 | 21.2 | Marginal |  |
| Secondary Routes |  |  |  |  |  |
| 12-W. Tumwater | 127,533 | 7,911 | 16.1 | Satisfactory |  |
| 21-N. Bethel | 74,482 | 3,221 | 23.1 | Satisfactory |  |
| 43-Barnes Blvd | 188,866 | 7,407 | 25.5 | Exceeds |  |
| 45-Conger/Cap. Mall | 51,561 | 4,381 | 11.8 | Marginal |  |
| 47-Capital Mall/CMC | 192,478 | 8,187 | 23.5 | Satisfactory |  |
| 60-Lilly/Panorama | 131,981 | 8,974 | 14.7 | Marginal |  |
| 64-College/Amtrak | 218,292 | 13,273 | 16.4 | Satisfactory |  |
| 67-Tri Lake | 37,633 | 3,983 | 9.4 | Unsatisfactory |  |
| 68-Carpenter/Boulevard | 222,708 | 12,694 | 17.5 | Satisfactory |  |
| 94-Yelm | 191,119 | 13,287 | 14.4 | Marginal |  |
| Specialized \& Shuttle Routes |  |  |  |  |  |
| 42-Family Court | 8,058 | 1,632 | 4.9 | Unsatisfactory | Limited service. Runs only weekdays during AM/Noon/PM peak. |
| 101-Dash | 82,425 | 6,560 | 12.6 | Marginal | Productivity: Session 13.3, <br> Non-session 11.4, Saturdays 10.3 |
| 411-Nightline | 9,148 | 352 | 26.0 | Exceeds | Operates Fri/Sat/Sun late night during academic year (under contract). |
| Express Routes |  | Per Trip |  |  |  |
| 603-Olympia/Tacoma | 55,179 | 6,336 | 12.7 | Marginal | Runs Weekdays only. |
| 605-Olympia/Tacoma | 76,218 | 6,357 | 16.5 | Satisfactory | Runs Weekdays only. |
| 609-Tumwater/Lkwd | 28,418 | 6,123 | 5.3 | Unsatisfactory | Runs Weekdays only. Grant-funded. |
| 612-Lacey/Tacoma | 8,874 | 674 | 17.3 | Satisfactory | Runs Weekdays only. |
| 620-Oly/Tacoma Mall | 22,468 | 2,323 | 11.8 | Marginal | Runs Sat/Sun only. |
| ST 592-Oly/DuPont (Sea) | 23,164 | 1,862 | 7.6 | Unsatisfactory | Runs Weekdays only. Operated by ST |
| EXPRESS TOTALS | 214,321 | 23,675 | 9.1 | Unsatisfactory |  |
| Fixed Route Totals | 4,306,582 | 207,847 | 20.7 | Change from 2014: <br> Hours up 0.1\%, Boa | ardings decreased $-4.2 \%$, dings per Hour down -4.3\%. |

## Other Intercity Transit Services

| Dial-A-Lift Service | 161,594 | -- | -- | $4.7 \%$ increase from 2014 |
| :--- | ---: | :---: | :---: | :--- |
| Vanpools | 685,112 | -- | - | $-7.9 \%$ decrease from 2014 |


| System Total | $5,153,288$ |  | $-4.5 \%$ decrease from 2014's 5,393,979 Boardings. |
| :--- | :--- | :--- | :--- |


| Performance |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Standard | Standard | Trunk | Primary | Secondary | Rural | Commuter | Express |
|  | Riders per Hour |  |  |  |  | Riders per Trip |  |
|  | Exceeds standard | $>40$ | $>30$ | $>25$ | $>20$ | 25 or more | 25 or more |
| Satisfactory | $25-40$ | $20-30$ | $15-25$ | $12-20$ | 15.0 to 24.9 | 15.0 to 24.9 |  |
| Marginal | $20-24$ | $15-19$ | $10-14$ | $9-11$ | 10.0 to 14.9 | 10.0 to 14.9 |  |
| Unsatisfactory | $<20$ | $<15$ | $<10$ | $<9$ | Less than 10 | Less than 10 |  |

## 2015 Vehicle Assignment Analysis

| Route | High <br> Load* | Interlined Routes | Vehicle <br> Assigned | Comments |
| :---: | :---: | :---: | :---: | :---: |
| Trunk Routes |  |  |  |  |
| 13-E. Tumwater | 57 | 12,41,45,64,66 | Large Bus | Runs Mon-Sun. |
| 41-TESC | 66 | 13 | Large Bus | Runs Mon-Sun. |
| 44-SPSCC/Cap. Mall | 65 | 62A, 62B | Large Bus | Runs Mon-Sun. |
| 48-Capital Mall/TESC | 62 | 66,94 | Large Bus | Runs Mon-Sat. |
| 49-Capital Mall | 50 | 66 | Large Bus | Runs Sunday. |
| 62A-Martin/Meridian | 52 | 43, 44, 62B | Large Bus | Runs Mon-Sun. |
| 62B-Martin/Meadows | 47 | 43, 44, 62A | Large Bus | Runs Mon-Sun. |
| 66-Ruddell Road | 46 | 13, 48, 49 | Large Bus | Runs Mon-Sun. |
| Secondary Routes |  |  |  |  |
| 12-W. Tumwater | 51 | 13, 45, 64 | Medium Bus | Runs Mon-Sun. |
| 21-N. Bethel | 41 | 47, 60 | Small Bus | Runs Mon-Sun. |
| 43-SPSCC/Barnes | 53 | 62A, 62B | Large Bus | Runs Mon-Sat. |
| 45-Conger/Cap. Mall | 39 | 12, 13 | Medium Bus | Runs Mon-Sat. |
| 47-Capital Mall/CMC | 46 | 21, 68 | Medium Bus | Runs Mon-Sun. |
| 60-Lilly/Panorama | 49 | 21, 47 | Small Bus | Runs Mon-Sun. |
| 64-College/Amtrak | 43 | 12, 13 | Medium Bus | Runs Mon-Sun. |
| 67-Tri Lake | 43 | None | Small Bus | Runs Mon-Sat. |
| 68-Carpenter/Boulevard | 54 | 47 | Medium Bus | Runs Mon-Sun. |
| 94-Yelm | 56 | 48 | Large Bus | Runs Mon-Sun. |
| Specialized \& Shuttle Routes |  |  |  |  |
| 42-Family Court | 39 | None | Small Bus | Runs weekdays during commute hours and noon period. |
| 101-Dash | 38 | None | Small Bus | Weekdays: Runs all year. Saturdays: Runs Apr-Sep. |
| 411-Nightline | 61 | None | Large Bus | Runs Fri/Sat/Sun late night during TESC class quarters, by contract. |
| Express Routes |  |  |  |  |
| 603-Olympia/Tacoma | 54 | 605 | Large Bus | Runs weekdays only. |
| 605-Olympia/Tacoma | 63 | 603, 612 | Large Bus | Runs weekdays only. |
| 609-Tumwater/Lkwd | 38 | None | Large Bus | Runs weekdays only. |
| 612-Lacey/Tacoma | 38 | 605 | Large Bus | Runs weekdays only. |
| 620-Oly/Tacoma Mall | 51 | None | Large Bus | Runs weekends only. |

* High Load: Based on APC date provides highest passenger load by route during 2015 (not average trip load).
** Recommended Vehicle Assignment:
Large Bus: Low Floor 40' - Seating Capacity: 38
Medium Bus: Low Floor 35' - Seating Capacity: 32
Small Bus: Low Floor 30' - Seating Capacity Av: 23


## Minutes <br> INTERCITY TRANSIT CITIZEN ADVISORY COMMITTEE

July 18, 2016

## CALL TO ORDER

Chair VanderDoes called the July 18, 2016, meeting of the Citizen Advisory Committee (CAC) to order at 5:35 p.m. at the administrative offices of Intercity Transit.

Members Present: Chair Victor VanderDoes; Sue Pierce; Ursula Euler; Jonah Cummings; Walter Smit; Billie Clark; Joan O'Connell; Carl See; Mitchell Chong; Lin Zenki; and Leah Bradley.

Absent: Vice Chair Jan Burt; Michael Van Gelder; Ariah Perez; Quinn Johnson; Denise Clark; and Ron Hughes.

Staff Present: Ann Freeman-Manzanares; Eric Phillips; Jeff Brewster; and Nancy Trail.

## APPROVAL OF AGENDA

It was M/S/A by EULER and SMIT to approve the agenda.

## INTRODUCTIONS

VanderDoes introduced Authority member, JEFF GADMAN.

## MEETING ATTENDANCE

A. July 20, 2016, Work Session - Ursula Euler
B. August 3, 2016, Regular Meeting - Walter Smit
C. August 17, 2016, Work Session - Joan O'Connell

## APPROVAL OF MINUTES

It was M/S/A by PIERCE and EULER to approve the minutes of the June 20, 2016 meeting.
CONSUMER ISSUES

- Chong - kudos for staff.


## NEW BUSINESS

A. BUS TECHNOLOGY - (Paul Koleber) Koleber indicated he was responsible for the maintenance of the agency vehicles. He provided the fleet composition: Fixed Route 71 buses ( 23 hybrid/48 conventional); Dial-A-Lift (DAL): 35 Diesel and purchasing 5 propane; Vanpool: 261 (including 4 Department of Transportation grant vehicles); Village Vans/Community Van: 8 vehicles; Staff/Service/Support: 22 vehicles. Maintenance supports a total of 402 vehicles and currently has 40 budgeted staff positions.

Koleber shared that when he accepted this position he was told that it was important to support the core business and values. He encouraged staff to take everything out and play with it. He wanted to take a fresh look with fresh eyes. He encouraged staff to work with other agencies if they have solutions. Staff did a lot of work with preventative maintenance programs and implemented new FTA standards. Staff did a lot of testing on the oil and experimenting with a blend of synthetic oil that doubled the mileage between oil changes. Staff also experimented with a fuel additive that resulted in increased fuel efficiency by $4 \%$. It creates less drag on the motor and cuts engine wear in half.

VanderDoes - asked how staff tested the oil.
Koleber - indicated they sent samples off to labs for scientific testing.

## Bradley arrived.

Koleber discussed the work staff did with coach tires and that by purchasing tires that are rated up 2 load ranges they could carry more weight more safely and had less rolling resistance. The new tires cost the agency over $\$ 100$ less per tire. It was determined that the tires can travel 64,000 more miles and use 4,300 less gallons of fuel.

Koleber relayed information on new technologies that staff is tracking. Diesel/electric hybrid buses are quiet, but they cost $30 \%$ more per bus to purchase. They were supposed to get $23 \%$ better fuel mileage and emit fewer emissions. Now studies are saying maybe not so much. Traditional diesel buses ride in what they call the "sweet spot" all day long and it works. The hybrids are trying to push a bus with a small diesel engine. The buses use the battery to get moving until the engine kicks in and is doing the pulling. The hybrids are working so hard that they are actually spewing more emissions. The half-life rehabilitation costs for hybrids is $\$ 300,000$.

Koleber reviewed compressed natural gas technology currently utilized by Pierce Transit and Walla Walla transit. He indicated there is a $10 \%$ upcharge to have tanks added to the buses. Currently the agency doesn't have a way to fuel them, and the infrastructure to fuel them is very expensive.

Koleber spoke about hydrogen fuel cell technology. He indicated the buses run on hydrogen and the byproduct is pure water. The technology is bigger in Europe. As with compressed natural gas, the agency does not have the infrastructure in place for this.

Koleber shared information on the use of fully electric buses, and that they don't' have the range many expected. He indicated a lot of agencies are trying them, and the challenge is the cost of the bus is expensive at about $\$ 500,000$ to $-\$ 1 \mathrm{M}$. It also means agencies must install charging stations and they cost anywhere from \$50,000-\$750,000. He believes the price will come down over time. Koleber showed photos of a bus that caught fire while being demoed at Mason Transit. The technology is evolving, but it isn't there yet.

Koleber requested committee feedback on the possibility of purchasing a different style of buses that have a curved nose, offer better visibility; and help with blind spots. The style is referred to as BRT effects and also known as European. The windshield glass is tipped like a
car and doesn't have the reflection problem that drivers currently deal with. Some of the new styles can accommodate a 3 bike carrier, which is a common request from riders. The new styling adds about $\$ 17,000$ to the purchase price.

Koleber answered questions.
VanderDoes - remarked he was impressed with the research.
Koleber - indicated he was excited about where the agency is headed.
O'Connell - liked the idea of waiting until the electric industry worked things out before jumping in.

Koleber - stated he spoke with Wenatchee and the reliability of electric bus is at about $40 \%$ to $50 \%$ at any given time. That is a deal breaker for the agency. The chargers aren't working as promised and the vehicles don't have the range.

Freeman-Manzanares - asked the committee what they thought about the BRT or European styling. When the agency purchased diesel/hybrids the potential fuel savings and clean technology off-set the additional expense. The environmental statistic aren't as good as initially presumed and not only is the initial cost more, but the midlife rehabilitation costs are $\$ 300,000$ versus $\$ 50,000$. The general consensus was appreciation for the BRT styling.

Koleber - acknowledged the Authority decision to move forward with clean diesel.
Zenki - remarked that it would be a good thing to put on the website. She believes the information is counterintuitive to what the community might think. She likes the new style and thinks people will be surprised by the information.

Gadman - stated the regulations regarding clean diesel for motor vehicles has been aggressively attacked. They have made huge progress in making diesel burn cleaner, putting out a lot less particulate than they used to.

Pierce - indicated drivers try to leave the lights on when it's dark and the reflection is difficult for drivers.

See arrived.
Koleber - stated the front wheel housing was painted black due to the reflection issues it created for drivers.

Gadman - remarked that he likes the more modern look.
VanderDoes - inquired about the agency's biodiesel
Koleber - indicated the agency uses a blend.

Freeman-Manzanares - stated the agency has to balance between leading edge/bleeding edge technology and the fact that the FTA allows a $20 \%$ spare ratio. Systems testing new technology, which is considered proven technology by FTA, are having trouble complying with the $20 \%$ spare ration when some of their vehicles are out of service so frequently. In addition, the drivers here are frustrated with the lack of power in the hybrid vehicles.

Koleber - indicated the staff ran a test and rode to Tacoma. As the coach came out of Tacoma he thought he was going to have to get out and push. They tweaked the setting on the Allison's for increased performance on 5 buses to the most horsepower buses can give you. Nobody could guess which coaches they did it on. Pushing a $40,000 \mathrm{lb}$ vehicle with a pick up engine isn't feasible. Not only did it not work well but if you are altering the engine to that degree, you are not getting good fuel economy.

Gadman - stated the terrain here is an argument against electric buses.
Koleber - indicated while testing one of the electric buses going up courthouse hill the gauges were drained. Another problem with electric buses is they have had to lighten them up. Some of the panels and ceiling were sagging on a brand new coach they wanted $\$ 700,000$ for. That's problematic.

Zenki - remarked that safety is an issue.
Pierce - indicated the perception of safety as well.
Phillips - asked about the performance of the BRT fleet at C-Tran.
Koleber - indicated the BRT fleet was very well received, and people like the styling.
VanderDoes - asked if Koleber was having fun and like working at IT.
Koleber - stated he was a technician when he started at IT. He left to get some management experience and came back as soon as the opportunity presented itself. He stated he has great and supportive management in Ann and Jim and he couldn't ask for better. The focus is on continual improvement and supporting the core business of this agency. He is thrilled to be here and yes, he is having fun.

Freeman-Manzanares - remarked that staff is thrilled with Koleber and he has made tremendous improvements both technologically and in terms of culture since he arrived.

Freeman-Manzanares - indicated the Authority has expressed their interest in pursuing clean diesel technology and forecasting a 15 year replacement cycle. FTA's replacement cycle is recommended at 12 years. This exercise prepares us to look at our next replacement in a 2018/2019 timeframe. Although it depends on the bus market, typically it takes about 18 to 24 months to receive buses so we're having the
conversations now so we can focus on specification development. Staff will continue to study new technologies.

VanderDoes - remarked that he had apprehension about leaving hybrids and staff's analysis has alleviated his apprehension.

Gadman - stated that the financial forecast tool IT uses is very useful. Looking long and short term, the hybrid's don't pencil out. As good stewards of public funds, the Authority must be responsible.

Eric Phillips introduced Jeff Brewster as the new Marketing, Communications and Outreach manager.
B. DRAFT TRANSIT DEVELOPMENT PLAN (TDP) - (Eric Phillips) Phillips shared information on the purposes of the document and that it was a state requirement. The document provides a recap of 2015 and then looks at 2016-2021 under a constrained plan. The interesting stuff is at the end in the appendices. The annual requirement includes a public process culminating in a hearing on August 3, and notice goes out this week. The final document gets forwarded to the state. There are 3 key things under the statute including a description of the system; any changes; and then a summary of the operating capital and finances. There is a rolling stock summary; equipment and facility inventory; and fixed route summary.

Phillips indicated the document also includes a history of the system. State sets rules that the agency has to aspire to be consistent and in coordination with the growth management act. There is a new section for economic vitality that staff needs to report on in the plan. If there was an increase in service it would be detailed. There was a $.03 \%$ increase last year in Tumwater.

Phillips discussed the appendices and remarked that appendix D is the operating data that summarizes service headways by route; how much revenue service hours are deployed for each of the routes; and how many miles are involved. He mentioned the committee may find the service summary classification and hours/riders/per hour and performance measurement interesting. This provides the different types of vehicles and how they are assigned by routes. Some routes limit the size of the vehicles deployed.

Phillips answered questions.
Cummings - inquired about revenue service hours in appendix D.
Phillips - replied that revenue service hours do not include the time the bus is headed to the point where it starts the route. This is called deadhead time. Revenue would be when the bus is in service on a route.

Freeman-Manzanares - indicated staff does a great job pulling together this information and it is useful for the CAC and the ITA to utilize in terms of performance. It is indicative of policy decisions regarding coverage and frequency. Some routes are lower performing but provide lifeline service. Some of these serve
facilities that need to be service but are not in more densely populated areas therefore have lower ridership.

O'Connell - remarked it was great information when she was new to the committee and continues to be really useful.

Cummings - stated he was curious about Route \#49 in the service routes summary as one of the highest performing routes.

Phillips - Staff looks analytically at the stop level and what's potentially driving change. The system will be analyzed as a whole as part of the short range planning process. This is really a necessary exercise to see if we can better serve our community.

Chong - asked how long it takes to determine if another bus needs to be added to a route.

Freeman-Manzanares - because of our limited rolling stock, the answer is, it depends. If it's peak service, we likely don't have the ability to send additional buses to cover overloading situations. If it's off-peak we likely can send a back-up bus. If the situation is perpetual, we look to increase frequency. Increasing frequency at this time would require additional equipment which would take approximately 18-24 months to get and the capital to purchase the equipment.

Zenki - inquired if the agency was any closer to something like ORCA card.
Freeman-Manzanares - stated fare systems are complicated. When the ORCA system was developed they had grant funds to help them purchase the system. IT was not included in that initial process. Staff requested to be included in the system once it was up and running. The charge to be included was exorbitant and unobtainable for us. Years later we looked to a member system to sponsor us in terms of evaluating what it would take to join. We had a financial agreement with Pierce Transit. They began to have financial issues and determined they needed to back away from their sponsorship. Now the region is studying ORCA II. They know we are interested in participating in the One Regional Card. Part of the challenge is our farebox system is old and no longer supported. We likely will have to migrate to another system before the Puget Sound has made a decision on a new system.

Phillips - indicated there are a lot of pieces to that and money creates issues.
C. SHORT/LONG RANGE PLANNING STRATEGY - (Eric Phillips/Ann Freeman-Manzanares) Freeman-Manzanares discussed the short/long range planning strategy last done in 2006. The agency has a contract with Nelson Nygaard to pursue an updated planning process. The last process consisted of an in depth analysis of the fleet/routes and a constrained model for long range outlook. Staff is proposing we expand this study to include a more thorough evaluation and more scenarios for future possibilities. The community conversation is a huge driver of the need to expand our thinking and approach to the plans. The end goal being to present some solid examples of what our service might look like if we

## Intercity Transit Citizen Advisory Committee

July 18, 2016
Page 7 of 10
remain the same; if we look smaller; if we are able to exercise our final one tenth in sales tax; or if we get the opportunity to increase the local options from the legislature; and what an expansion might look like.

Phillips indicated normally a system review starts with tearing apart the current system to look at all the details. Consultants look route by route/stop by stop, and complete a detailed analysis and do a lot of number crunching. They look for opportunities to make improvements and make sure it is the best design for service delivery. It is a very analytical look at what the agency is doing. It will show what the options are for improving and include trade-offs for marginally performing routes; and look at what the cost would be to trade one neighborhood for a different neighborhood.

Phillips stated the long range plans looking back at the history of Intercity Transit have done a very constrained look at the agency's system. This provided a fixed route system review looking only within the limits of what the current budget allows. Here is where we're at and this potential can only be accomplished if the agency gets more funds.

Freeman-Manzanares indicated during that time staff was looking at northeast Lacey, and the Authority made some difficult decisions. They increased frequency on the 62 instead. Tumwater has annexed several areas. Officials have indicated a top question is when are they getting transit service. A desire is to have the agency look at current and anticipated land use and serve our entire PTBA. Staff is working with the consultant looking at what it might cost to expand service. We are waiting to hear back on that and will discuss with the Authority this week.

Phillips/Freeman-Manzanares answered questions.
Gadman - stated the board would discuss these very things to determine trigger points on when the agency needs to expand service at their annual retreat.

Phillips - indicated the idea was to come up with a better understanding of what the community wants to see, and not just three options. This work would provide some stepping stones moving forward.

Freeman-Manzanares - noted the conversations with the CAC and ITA have indicated both want to talk about the potential of adding service to support development and support comprehensive plans. The Pattison facility has to be rehabilitated and expanded to provide our current level of service. We can't expand service without addressing the maintenance and operations base.

Gadman - asked the committee if they would recommend the Authority take on the additional costs for the broader look through the Community Conversation.

O'Connell - remarked it really is worth the money to do this work.
Euler - confirmed the agency wants to broaden the study because you are opening the doors to look at some other revenue services and expand service.

Phillips - Staff wants to give people the opportunity to see what that might look like. The concern was not doing the work might not show the full picture and create alternatives. Staff would like people feel like they know what they will get longterm. The technical expertise these consultants offer is unparalleled. We have one of the better consultants who works with systems this size. He's going to tell the agency if there are problems and staff is very comfortable with their work.

See - asked if the opportunity presented itself does the agency have the staff resources and plan for how to use the studies together.

Phillips - indicated the scope of work includes the short term plan in phase I and marry it with the public participation process which would include a public process. The long range plan becomes a set of implementation strategies. This work would expand the long range pieces and redevelop those alternatives to give the agency some understanding of community preferences. It will yield constrained and unconstrained alternatives showing the community what it would take to get there. This would definitely be an expanded version of what staff had previously scoped. He added it is a good time to do the work and identify what the future system looks like and what the costs are to get there.

Freeman-Manzanares shared that from the time the agency was awarded the funds Eric Phillips and Jeff Brewster have been hired. While we are still in the process of filling some positions, the agency is in a good place to look at doing the expanded work, and she doesn't think the agency can afford not to.

Euler - commented that the process will be more of a community engagement not consultant and staff.

Phillips - indicated that the area is on the heels of unprecedented economic times, considering the economic losses the agency sustained in recent years. The agency's revenue streams make it very vulnerable, and the agency knows what it looks like supporting a community in those down times.

VanderDoes - remarked that he keeps wondering why the agency wouldn't do it. This is true marketing - finding out what they need and if the agency can provide the service.

Euler - inquired if the Authority approves it does the agency have a plan to implement it, knowing it can take years to do it.

Pierce - remarked that as staff finds out what the community wants they will find out what the community doesn't understand.

Phillips - stated staff will keep it practical because it is important for people to understand.

Cummings - asked if staff had looked into whether the county or cities have done any studies for their own purposes that might apply.

Phillips - indicated the scope includes evaluating the work that's out there and that includes the work jurisdictions are doing on their comprehensive plans and the regional modeling with TRPC's travel demand forecasting data. This also shows where the region will be going 20 years from now. All the plans will be looked at for consistency.

Pierce - shared that Intercity Transit does a good job of reaching out and getting information out. She remembered a few years back being upset at a proposed plan for the Express routes. When she got to the meeting and listened to the presentation it all made sense. It makes sense to spend the money and do the expanded work.

## CONSUMER ISSUES

- Chong - had kudos for staff on an issue he had with a stop on route \#94. He appreciates how helpful staff was in resolving the issue.
- Chong - would like some written documentation on how consumer issues have been settled.

Freeman-Manzanares - indicated she will work with staff on getting that information back to the committee.

## REPORTS

- Freeman-Manzanares provided the report from the ITA Regular meeting on Wednesday, July 6, 2016, including the TIP adoption; review of the draft TDP; and a review of the CAC Bylaw amendment proposed.
- Freeman-Manzanares provided the General Manager's report including reading an email from Charles Richardson thanking the committee for his tenure. The agency participated in the Lakefair parade and CAC members VanderDoes and Pierce attended as did Authority member Ryan Warner. The next parade will be the holiday parade and all are welcome. Morningside clients joined the group on bus too. The agency sponsored a local rodeo for our operators at the Olympia Airport. Last year staff won the Grand Champion award at the state level Rodeo. Twelve operators attended including some from King County and did so on their own time. About 40 employees came out on Sunday to judge and assist. While our operators were practicing the OFD came out and one of our operators was able to drive the fire truck. One of the agency's operators who is a pilot took some aerials of the roadeo which were distributed. Sales tax for June $13.56 \%$ and up $9.5-10 \%$ over last year. Please join staff celebrating Transit Appreciation Day on August 10 th in the bus yard - the program starts at 12:04 pm.

Gadman - shared the Authority's appreciation for the work the committee does and donating their valuable time. When attending transit conferences across the country he shares how valuable the agency's citizen advisory committee's work is to the Authority and agency.

## NEXT MEETING: August 15, 2016.

# Intercity Transit Citizen Advisory Committee 

July 18, 2016
Page 10 of 10
ADJOURNMENT
It was M/S/A by $\mathrm{O}^{\prime}$ CONNELL and CUMMINGS to adjourn the meeting at 7:38 pm .
Prepared by Nancy Trail
G: \CAC \Minutes \2016\20160516\CACMinutes20160718.docx

# INTERCITY TRANSIT AUTHORITY <br> AGENDA ITEM NO. 7-A <br> MEETING DATE: August 3, 2016 

## FOR: Intercity Transit Authority

FROM: Jeff Peterson, 705-5878
SUBJECT: Solar Lighting for Bus Stops

1) The Issue: Consideration of entering into a contract for solar lighting solutions at bus stops.
2) Recommended Action: Authorize the General Manager to:
A. Enter into a three-year contract with Urban Solar Corp. for solar lighting solutions for bus stops with two, one-year, contract extension options; and B. To purchase 20 solar units in the amount of $\$ 27,636$, including tax.
3) Policy: The procurement policy states the Authority must approve any contract over $\$ 25,000$.
4) Background: Intercity Transit's previous solar lighting agreement with Urban Solar Corp. expired in November 2015. Solar lighting continues to be an energy efficient cost effective option to provide lighting at our bus stops as no third party power source is needed. The system is self-supporting through the use of solar panels, low voltage batteries, and control modules. This agreement also allows for solar lighting solutions to stops that do not have shelters. The contract is designed to allow for the inclusion of solar lighting related accessories that would enhance our bus stops.

Intercity Transit issued a Request for Proposal on June 30, 2016. An optional preproposal conference was held on June 30, 2016. An addendum was posted on July 6,2016 . Proposals were due by July 14, 2016. Two proposals were received by the due date and time. The evaluation team scored the proposals and determined that not only did Urban Solar Corp. offer the best solution but also offered the lowest overall price.

Additionally, by leveraging collective buying power and allowing other government entities use of this contract, [Athens Transit (GA), City of Visalia Transit (CA), TriMet (OR), Lane Transit District (OR), City of Porterville (CA), and Santa Barbara Metropolitan Transit District (CA)] the competition yielded a
$22 \%$ savings as compared to our previous contract pricing. Accordingly, staff recommends awarding a contract to Urban Solar Corp. to provide solar lighting solutions for our bus stops and shelters.
5) Alternatives:
A. Authorize the General Manager to enter into a three-year term contract with Urban Solar Corp. for solar lighting solutions for bus stops with two, one-year contract extension options; and to purchase 20 solar units in the amount of $\$ 27,636$, including tax.
B. Defer action. This would require staff to delay ordering new solar lighting units for bus stops.
6) Budget Notes:

The 2016 budget includes $\$ 45,000$ to for solar lighting purchases.
7) Goal Reference: Goal Reference: Goal \#2: "Provide outstanding customer service." Goal \#3: "Maintain a safe and secure operating system." Goal \#5: "Align best practices and support agency activities and sustainable technologies."
8) References: N/A.


[^0]:    Grays Harbor Transit Service between Aberdeen, WA and Olympia's Capital Mall, Greyhound terminal and the Olympia Transit Center.

[^1]:    - Intercity Transit continues to be involved with working with local jurisdictions and employers to promote the use of alternative transportation

