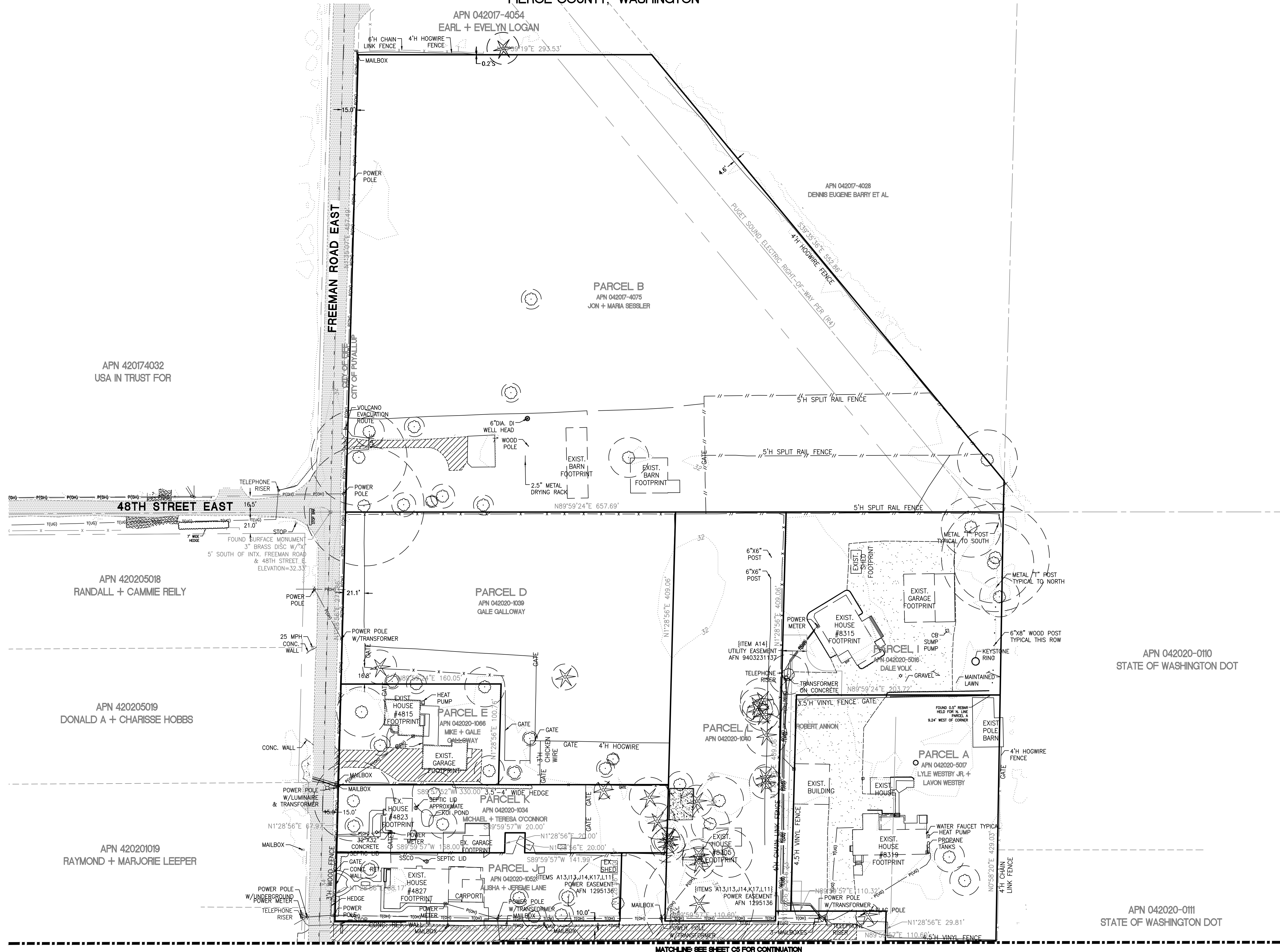


OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

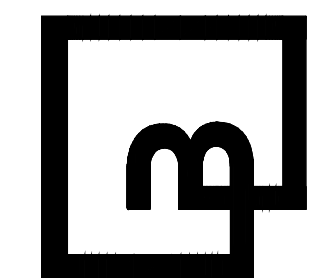
| | | | | | |
|-----|----------|-----|------|-------|------------------|
| 5 | 12/13/24 | DTC | JSM | JSM | SEPA RESUBMITTAL |
| No. | Date | By | Ckd. | Appr. | Revision |

EXISTING CONDITIONS
FOR
FREEMAN LOGISTICS

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

| | |
|------------|---------------------|
| Scale: | Designed <u>JSM</u> |
| Horizontal | Drawn <u>DTC</u> |
| 1" = 50' | Checked <u>JSM</u> |
| Vertical | Approved <u>JSM</u> |
| N/A | Date 12/20/24 |

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**



Job Number
21585

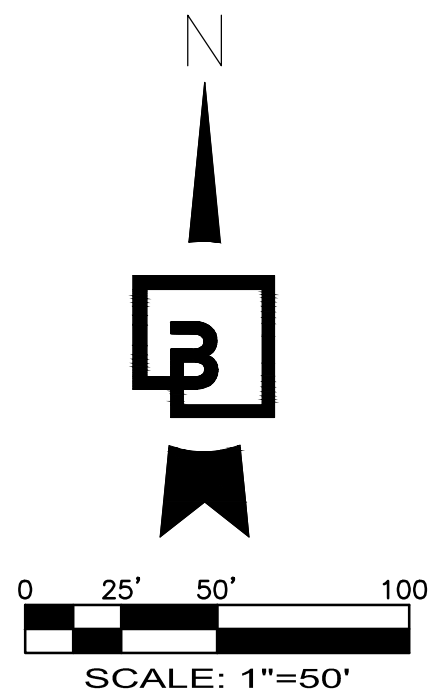
Sheet
C4 of 44

EXISTING CONDITIONS

OF

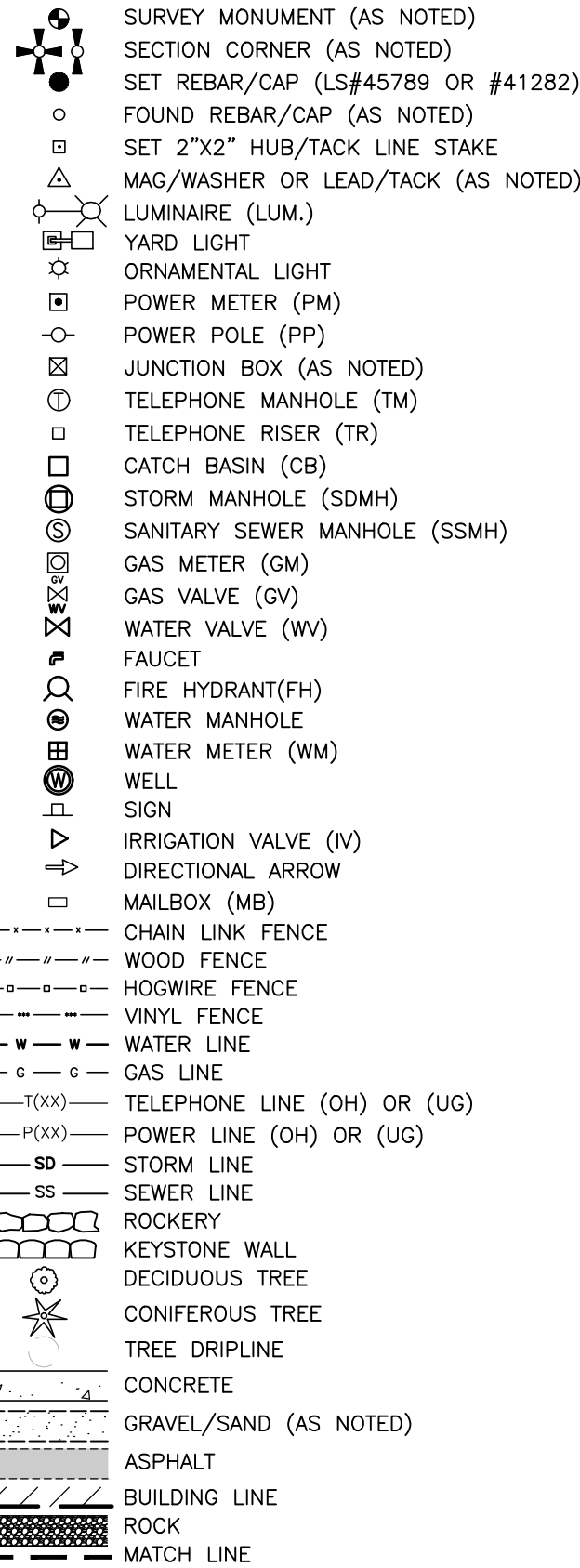
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



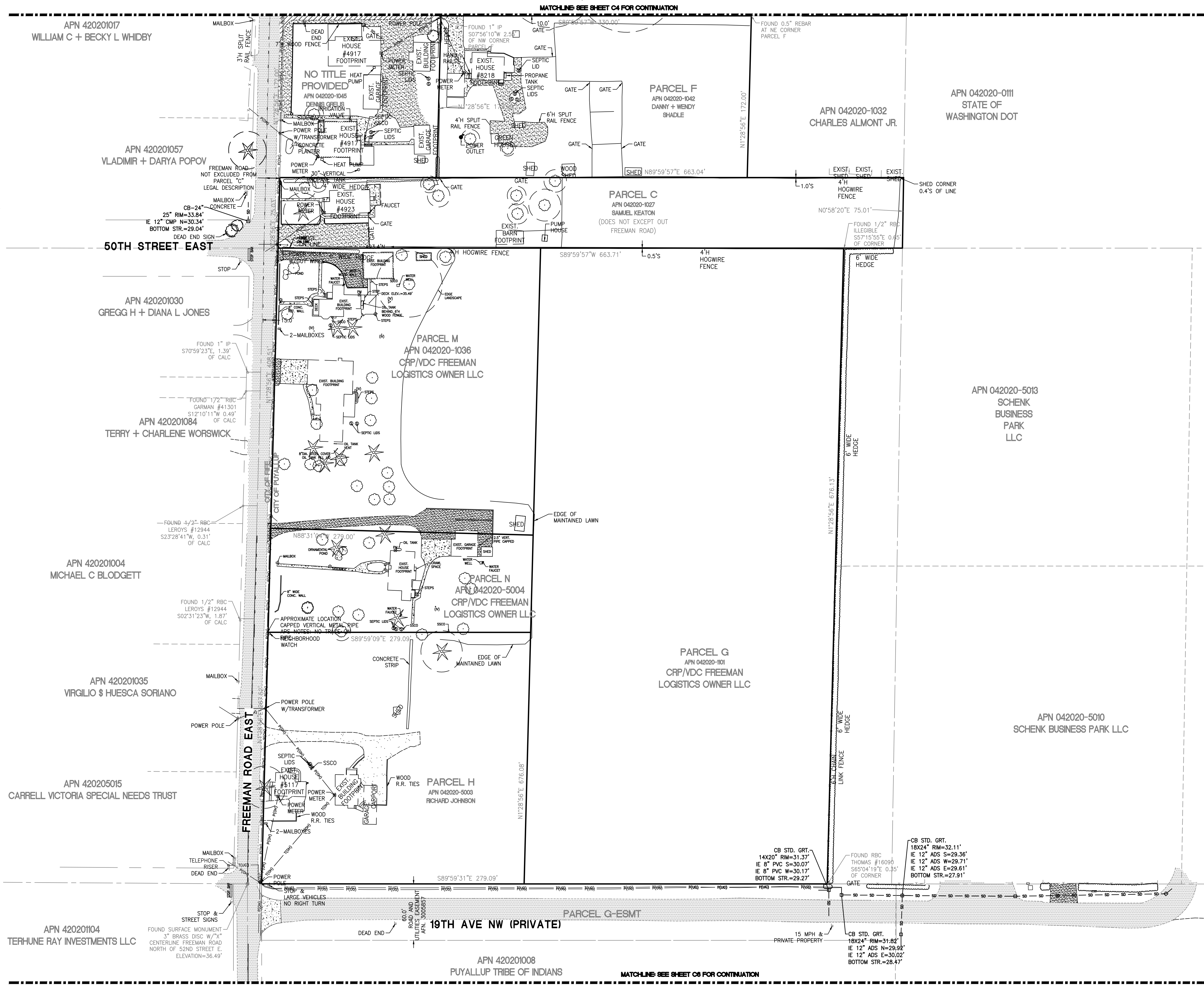
LEGEND

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)



ABBREVIATIONS

| | |
|-------|----------------------------------|
| (R#) | REFERENCE SURVEYS |
| (OH) | OVERHEAD |
| (UG) | UNDERGROUND |
| (TYP) | TYPICAL |
| (C) | CALCULATED |
| (M) | MEASURED |
| (GIS) | GEOGRAPHICAL INFORMATION SYSTEMS |
| (REF) | PER REFERENCE INFORMATION |
| (H) | HIGH |
| (V) | IRRIGATION VALVE |



APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

| Revision | No. | Date | By | Appr. |
|----------|----------|------|----|-------|
| 5 | 12/13/24 | | | |

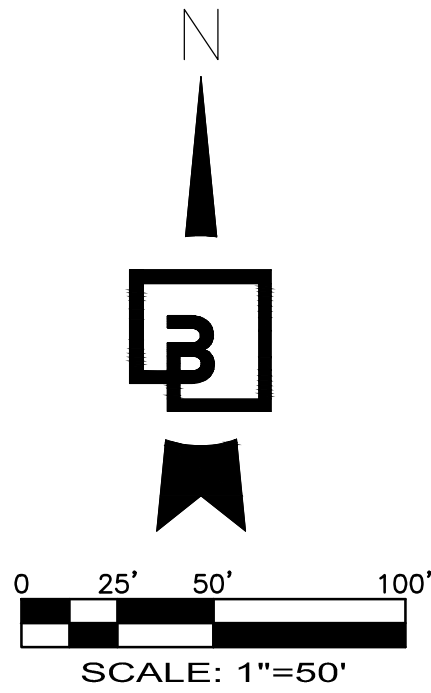
Title:
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

| | | |
|----------|----------------------|-----------------|
| Scale: | Horizontal 1"=50' | Vertical N/A |
| Designed | Drawn | Checked |
| Approved | Approved | Date |

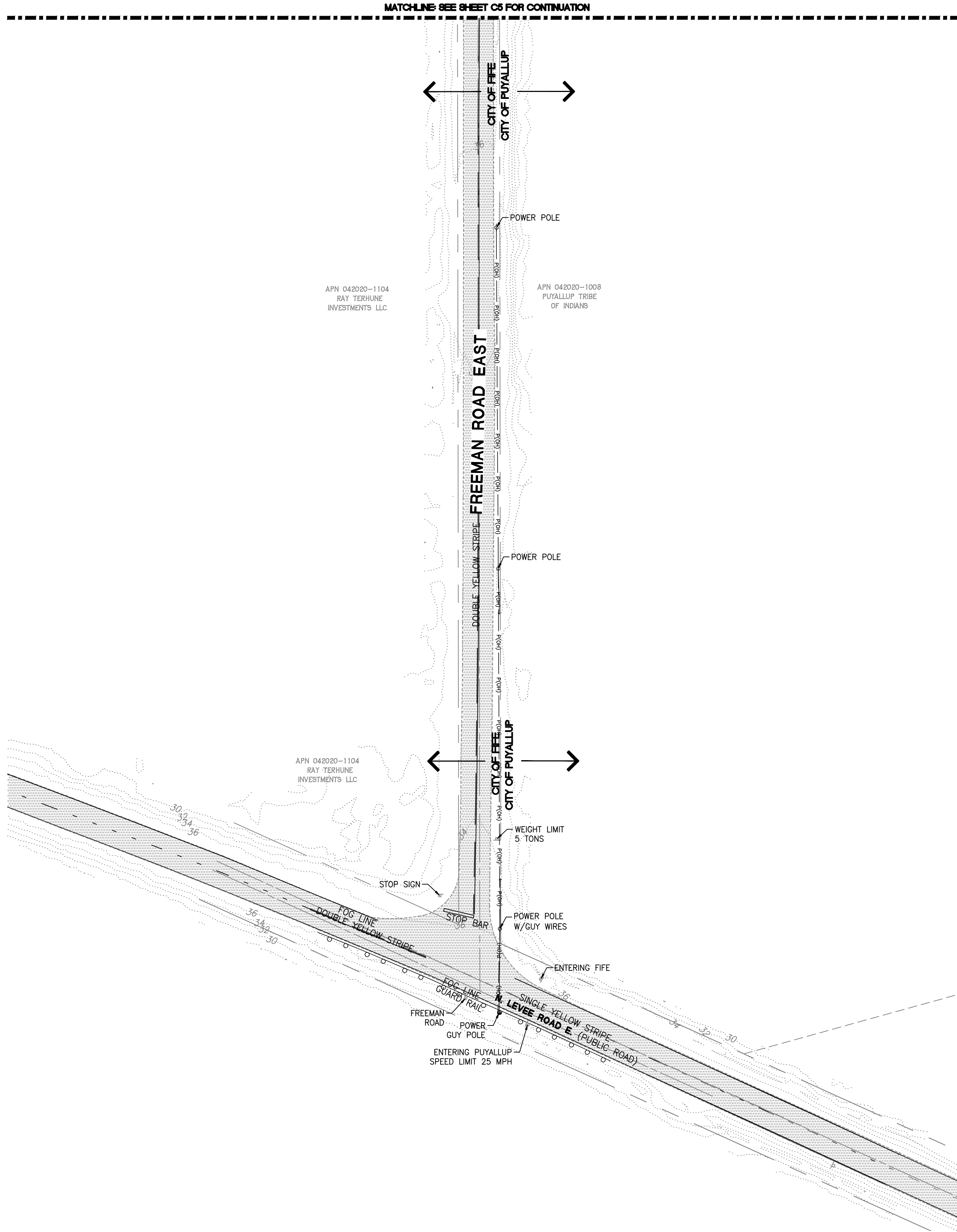
Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number
21585

Sheet
C5 of 44



EXISTING CONDITIONS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



LEGEND

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- SURVEY MONUMENT (AS NOTED)
- SECTION CORNER (AS NOTED)
- SET REBAR/CAP (LS#45789 OR #41282)
- FOUND REBAR/CAP (AS NOTED)
- SET 2"x2" HUB/TACK LINE STAKE
- MAC/WASHER OR LEAD/TACK (AS NOTED)
- LUMINAIRE (LUM.)
- YARD LIGHT
- ORNAMENTAL LIGHT
- POWER METER (PM)
- POWER POLE (PP)
- JUNCTION BOX (AS NOTED)
- TELEPHONE MANHOLE (TM)
- TELEPHONE RISER (TR)
- CATCH BASIN (CB)
- STORM MANHOLE (SDMH)
- SANITARY SEWER MANHOLE (SSMH)
- GAS METER (GM)
- GAS VALVE (GV)
- WATER VALVE (WV)
- FAUCET
- FIRE HYDRANT(FH)
- WATER MANHOLE
- WATER METER (VM)
- WELL
- SIGN
- IRRIGATION VALVE (IV)
- DIRECTIONAL ARROW
- MAILBOX (MB)
- CHAIN LINK FENCE
- WOOD FENCE
- HOGWIRE FENCE
- VINYL FENCE
- WATER LINE
- GAS LINE
- TELEPHONE LINE (OH) OR (UG)
- POWER LINE (OH) OR (UG)
- STORM LINE
- SEWER LINE
- ROCKERY
- KEYSTONE WALL
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE DRIPLINE
- CONCRETE
- GRAVEL/SAND (AS NOTED)
- ASPHALT
- BUILDING LINE
- ROCK
- MATCH LINE

ABBREVIATIONS

- (R#) REFERENCE SURVEYS
- (OH) OVERHEAD
- (UG) UNDERGROUND
- (TYP) TYPICAL
- (C) CALCULATED
- (M) MEASURED
- (GIS) GEOGRAPHICAL INFORMATION SYSTEMS
- (REF) PER REFERENCE INFORMATION
- (H) HIGH
- (IV) IRRIGATION VALVE

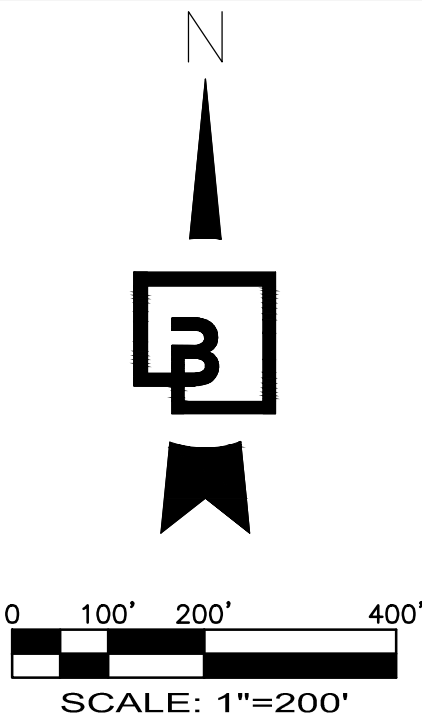
APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

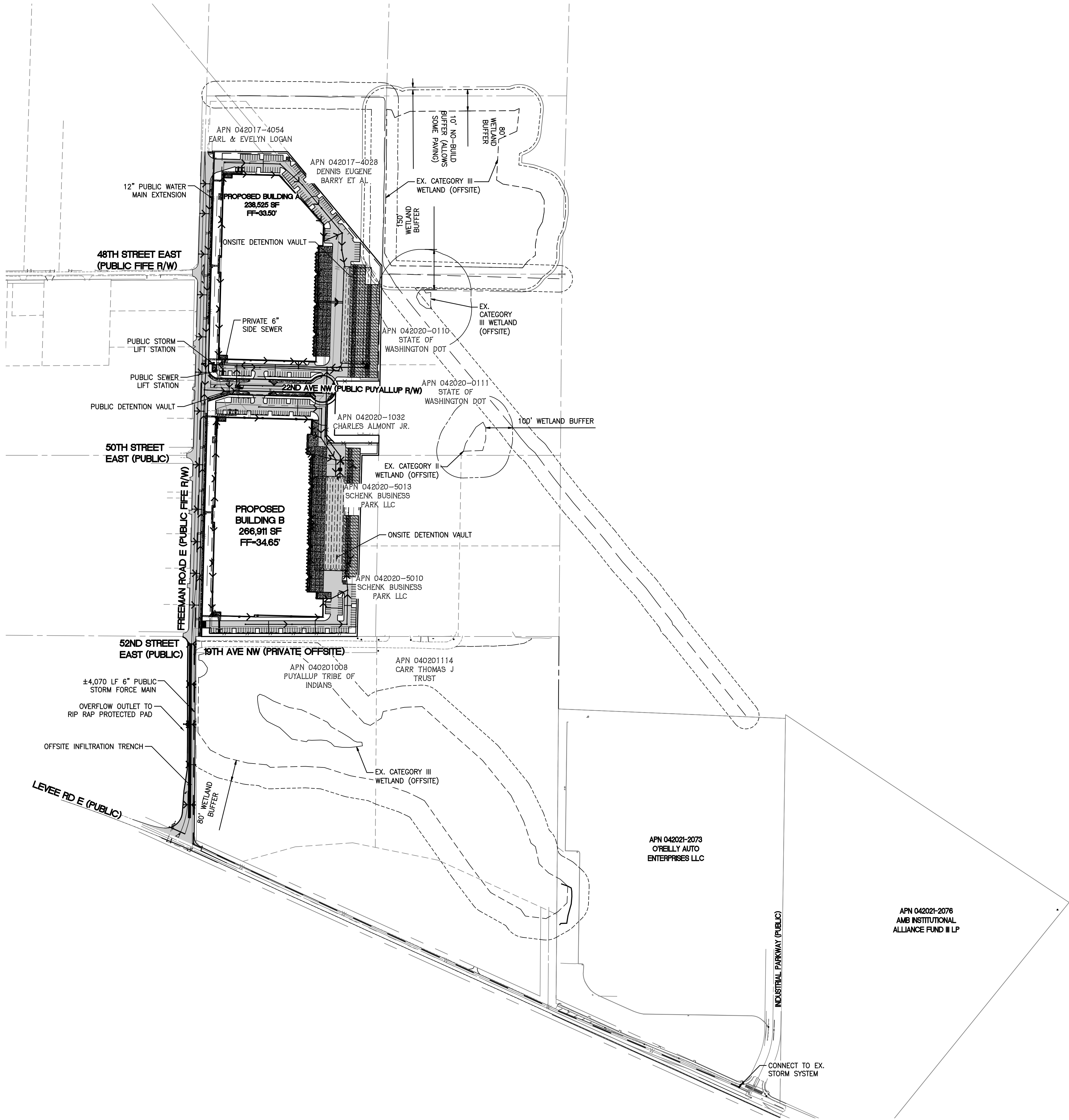
DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

| Revision | | | | |
|---|----------|-----|------|-------|
| No. | Date | By | Chd. | Appr. |
| 5 | 12/13/24 | DTC | JSM | JSM |
| SEPA RESUBMITTAL | | | | |
| Title: | | | | |
| For: VECTOR DEVELOPMENT COMPANY 11411 NE 124TH STREET SUITE 190 KIRKLAND, WA 98034 | | | | |
| EXISTING CONDITIONS FOR FREEMAN LOGISTICS | | | | |
| Scale: Horizontal 1"=50' Vertical N/A | | | | |
| Designed _____ JSM Drawn _____ DTC Checked _____ JSM Approved _____ JSM Date 12/20/24 | | | | |
| Barghausen Consulting Engineers, LLC. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com | | | | |
| Job Number 21585 | | | | |
| Sheet C6 of 44 | | | | |



PRELIMINARY STORM DRAINAGE OVERALL PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



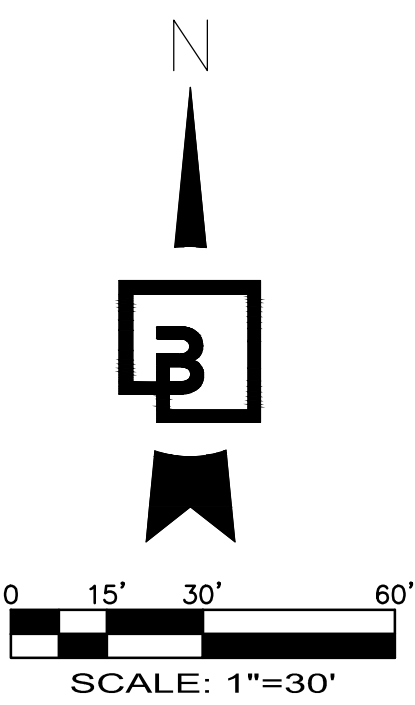
APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

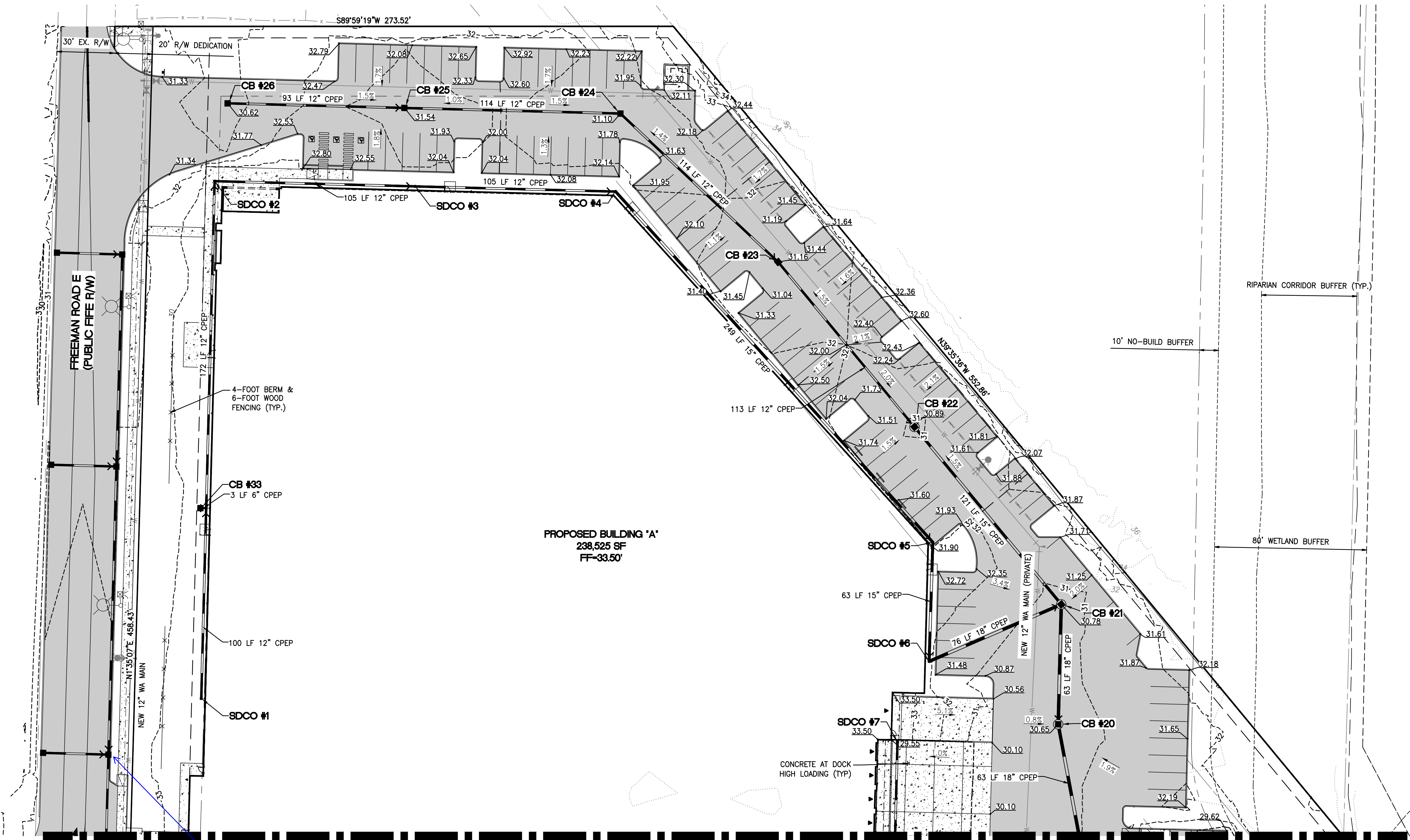
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

| | | | |
|--|--|---------------------------------|--|
| Job Number 21585 | | Sheet C7 of 44 | |
| <div><div>Barghausen Consulting Engineers, LLC. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com</div><div></div></div> | | | |
| <div><div>For: VECTOR DEVELOPMENT COMPANY 11411 NE 124TH STREET SUITE 190 KIRKLAND, WA 98034</div><div> 12/20/24</div></div> | | | |
| Title: PRELIMINARY STORM DRAINAGE OVERALL PLAN FOR FREEMAN LOGISTICS | | | |
| 5 No. | | 12/13/24 Date | |
| DTC By | | JSM Ctd. | |
| JSM Appr. | | SEPA RESUBMITTAL | |



PRELIMINARY GRADING AND DRAINAGE PLAN

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



MATCHLINE- SEE SHEET C9 FOR CONTINUATION

FIFE COMMENT: Gravity storm facilities within the City of Fife will be owned and maintained by CoF and constructed per CoF approvals and standards. Drainage permits will be required for design review.
[CIVIL-SEPA-2024 RESUB, Sheet C8]

| CATCH BASINS | |
|--|--|
| CB #20, TYPE 2-48" W/STANDARD GRATE RIM=30.65 IE=24.03 (18" N) IE=24.03 (18" S) | |
| CB #21, TYPE 2-48" W/STANDARD GRATE RIM=30.78 IE=24.78 (15" NW) IE=24.53 (18" SW) IE=24.53 (18" S) | |
| CB #22, TYPE 2-48" W/STANDARD GRATE RIM=30.89 IE=25.74 (12" NW) IE=25.49 (15" SE) | |
| CB #23, TYPE 1, W/STANDARD GRATE RIM=31.16 IE=26.38 (12" NW) IE=26.38 (12" SE) | |
| CB #24, TYPE 1, W/STANDARD GRATE RIM=31.10 IE=26.95 (12" W) IE=26.95 (12" SE) | |
| CB #25, TYPE 1, W/STANDARD GRATE RIM=31.54 IE=27.52 (12" W) IE=27.52 (12" E) | |
| CB #26, TYPE 1, W/STANDARD GRATE RIM=30.62 IE=27.98 (12" E) | |
| CB #33, TYPE 1, W/STANDARD GRATE RIM=33.33 IE=30.90 (6" E) | |
| SDCO #1, 8" SDCO RIM=33.46 IE=31.00 (12" N) | |
| SDCO #2, 8" SDCO RIM=33.22 IE=28.98 (12" S) IE=28.98 (12" E) | |
| SDCO #3, 8" SDCO RIM=32.21 IE=28.19 (12" W) IE=28.19 (12" E) | |
| SDCO #4, 8" SDCO RIM=32.61 IE=27.41 (12" W) IE=27.16 (15" SE) | |
| SDCO #5, 8" SDCO RIM=31.89 IE=25.56 (15" NW) IE=25.56 (15" S) | |
| SDCO #6, 8" SDCO RIM=32.28 IE=25.09 (15" N) IE=24.84 (18" NE) | |
| SDCO #7, 8" SDCO RIM=29.58 IE=27.20 (12" S) | |
| SDCO #37, 8" SDCO RIM=33.43 IE=30.26 (12" S) IE=30.76 (6" W) IE=30.26 (12" N) | |

| Revision | |
|----------|----------|
| No. | Date |
| 5 | 12/13/24 |

| SEPA | RESUBMITTAL | JSM | Appr. | DTC | By | Date |
|------|-------------|-----|-------|-----|----|------|
| | | | | | | |

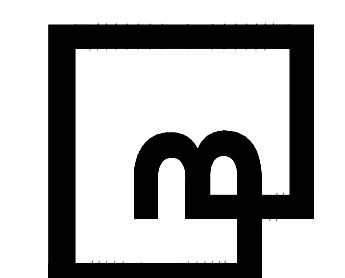
Title:

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



| Scale: | |
|------------|----------|
| Horizontal | 1"=30' |
| Vertical | N/A |
| Designed | |
| Drawn | DTC |
| Checked | JSM |
| Approved | JSM |
| Date | 12/20/24 |

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585
Sheet
C8 of **44**

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



PROPOSED BUILDING "A"
238,525 SF
FF=33.50'

NORTH DETENTION VAULT
360'X100'X7.5'
VOLUME REQUIRED=5.30 AC-FT
VOLUME PROVIDED=5.37 AC-FT
SEE SHEET C14 FOR MORE DETAILS.

OFFSITE DETENTION VAULT
308'X20'X11.5'
VOLUME REQUIRED=1.410 AC-FT
VOLUME PROVIDED=1.480 AC-FT
SEE SHEET C27 FOR MORE DETAILS

MATCHLINE - SEE SHEET C10 FOR CONTINUATION

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

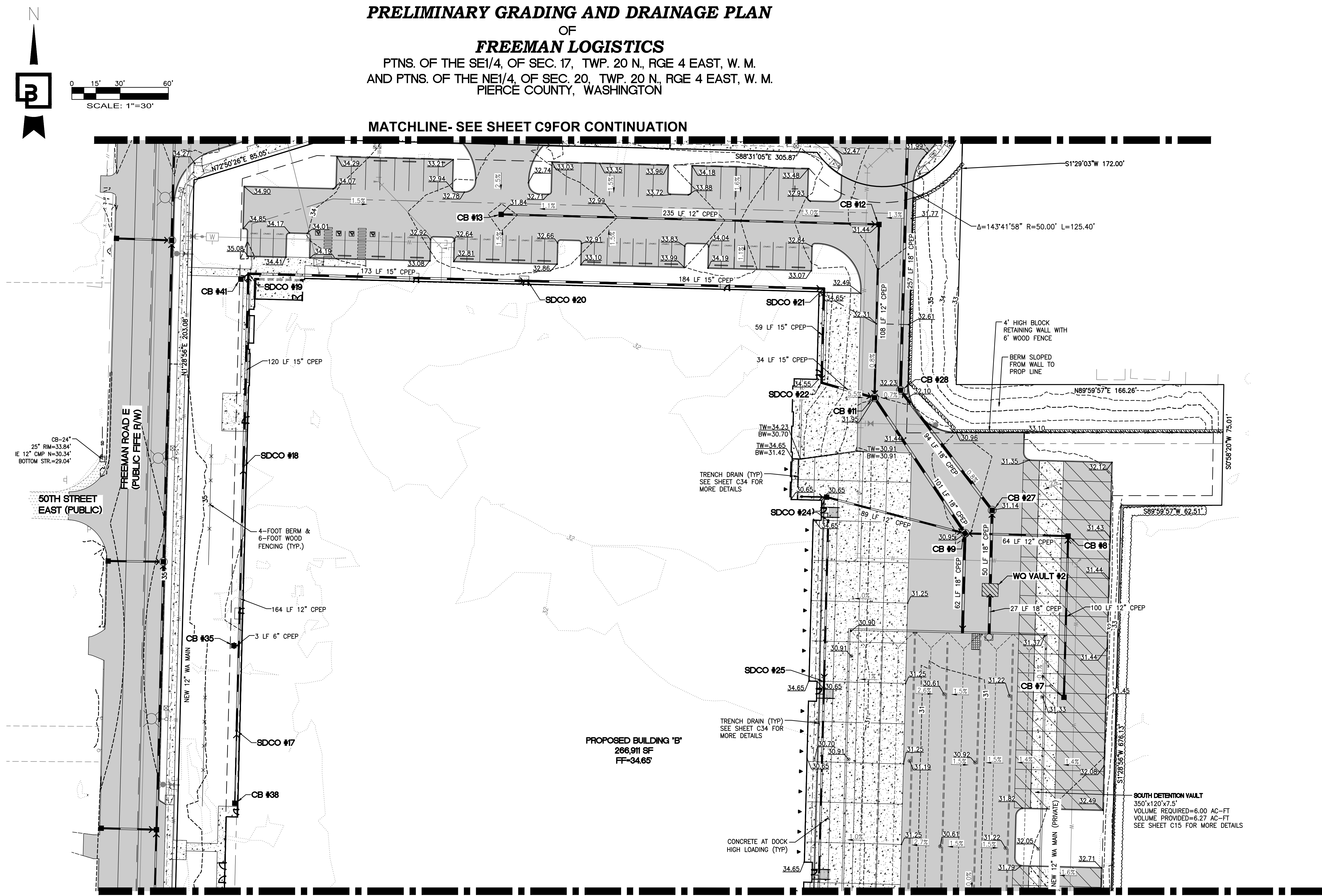
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS OF THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Job Number
21585

Sheet
C9 44

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

| CATCH BASINS |
|--|
| CB #7, TYPE 1, W/STANDARD GRATE RIM=31.06 IE=27.60 (12" N) |
| CB #8, TYPE 1, W/STANDARD GRATE RIM=31.04 IE=26.85 (12" S) IE=26.85 (12" W) |
| CB #9, TYPE 2-54" W/STANDARD GRATE RIM=30.95 IE=25.37 (18" NW) IE=25.98 (12" W) IE=26.06 (12" E) IE=25.37 (18" S) |
| CB #10, TYPE 1, W/STANDARD GRATE RIM=30.69 IE=27.98 (8" W) IE=27.65 (12" E) |
| CB #11, TYPE 2-48" W/STANDARD GRATE RIM=31.95 IE=26.48 (12" N) IE=26.23 (15" W) IE=25.98 (18" SE) |
| CB #12, TYPE 1, W/STANDARD GRATE RIM=31.41 IE=27.04 (12" W) IE=27.04 (12" S) |
| CB #13, TYPE 1, W/STANDARD GRATE RIM=31.84 IE=28.26 (12" E) |
| CB #27, TYPE 2-48" W/SOLID LOCKING LID RIM=31.14 IE=18.65 (18" S) IE=18.65 (18" NW) |
| CB #28, TYPE 2-48" W/SOLID LOCKING LID RIM=32.23 IE=18.26 (18" SE) IE=18.26 (18" N) |
| CB #35, TYPE 1, W/STANDARD GRATE RIM=34.73 IE=31.33 (6" E) |
| CB #38, TYPE 1, W/STANDARD GRATE RIM=34.53 IE=32.33 (6" N) |
| CB #41, TYPE 1, W/STANDARD GRATE RIM=34.38 IE=31.00 (6" NE) |
| SDCO #17, 8" SDCO RIM=34.61 IE=32.05 (6" S) IE=31.55 (12" N) |
| SDCO #18, 8" SDCO RIM=34.47 IE=30.73 (12" S) IE=30.48 (15" N) |
| SDCO #19, 8" SDCO RIM=34.42 IE=29.87 (15" S) IE=30.62 (6" SW) IE=29.87 (15" E) |
| SDCO #20, 8" SDCO RIM=33.36 IE=28.56 (15" W) IE=28.56 (15" E) |
| SDCO #21, 8" SDCO RIM=33.62 IE=27.18 (15" W) IE=27.18 (15" S) |
| SDCO #22, 8" SDCO RIM=34.33 IE=26.74 (15" N) IE=26.74 (15" E) |
| SDCO #23, 8" SDCO RIM=30.65 IE=28.50 (8" E) |
| SDCO #24, 8" SDCO RIM=30.73 IE=28.30 (12" S) |
| SDCO #25, 8" SDCO RIM=30.70 IE=27.02 (12" N) IE=27.02 (12" S) |
| WQ VAULT #2, 6"x12' VAULT RIM=31.42 IE=21.07 (18" S) IE=18.90 (18" N) |




| | |
|------------|-------|
| Job Number | 21585 |
| Sheet | |

| No. | Date | By | Ckd. | Appr. | SEFA RESUBMITTAL |
|----------|----------|----|------|-------|------------------|
| 5 | 12/13/24 | | DIC | JSM | |
| Revision | | | | | |

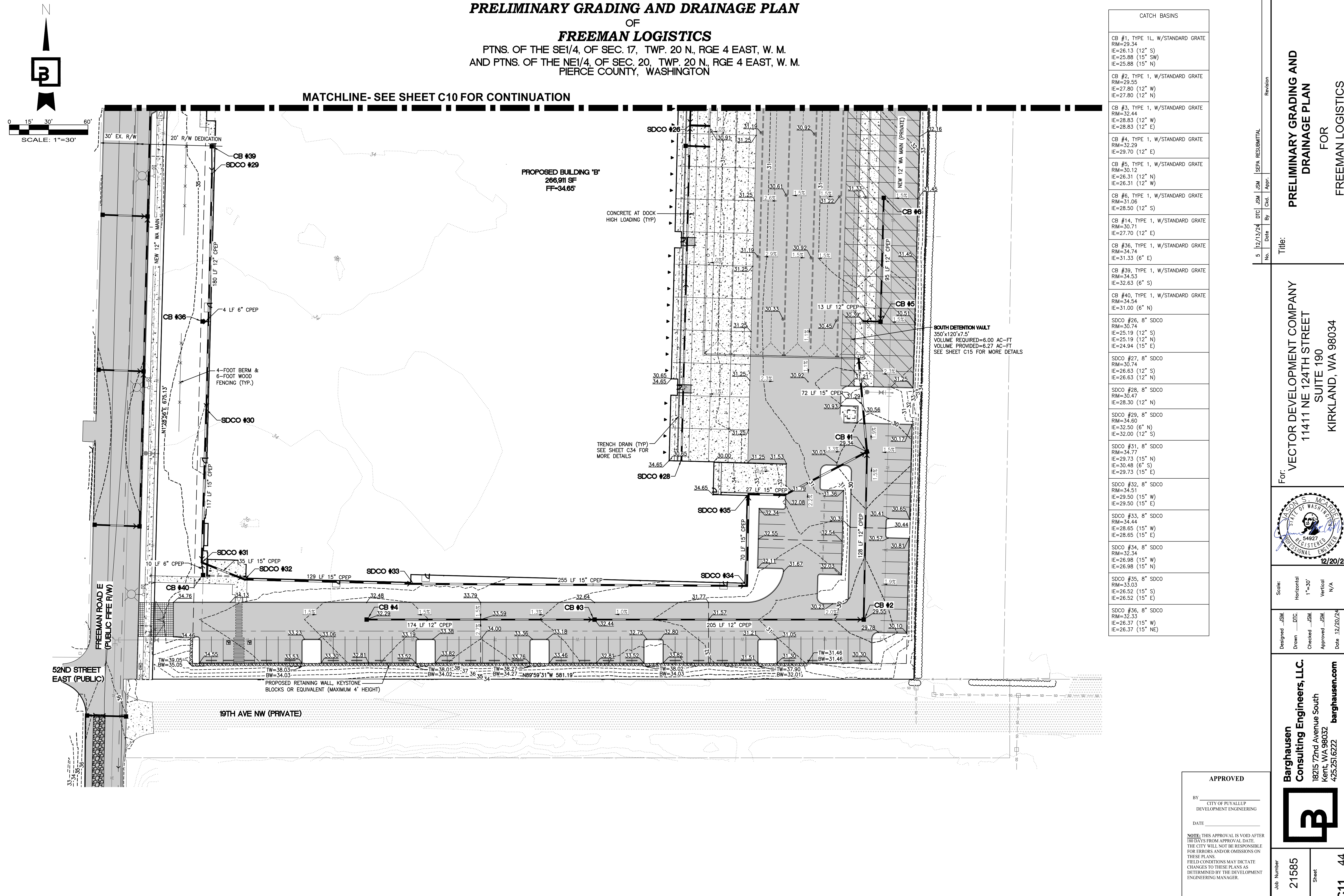
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

| | | | |
|----------|------------|----------|-----|
| Scale: | Horizontal | Vertical | N/A |
| Designed | JSM | | |
| Drawn | DTC | | |
| Checked | JSM | | |
| Approved | JSM | | |
| Date: | 12/20/24 | | |

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com



| | |
|------------|-------|
| Job Number | 21585 |
| Sheet | |



PRELIMINARY GRADING AND DRAINAGE PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

MATCHLINE- SEE SHEET C10 FOR CONTINUATION

| CATCH BASINS | |
|--|--|
| CB #1, TYPE 1L, W/STANDARD GRATE RIM=29.34 IE=26.13 (12" S) IE=25.88 (15" SW) IE=25.88 (15" N) | |
| CB #2, TYPE 1, W/STANDARD GRATE RIM=29.55 IE=27.80 (12" W) IE=27.80 (12" N) | |
| CB #3, TYPE 1, W/STANDARD GRATE RIM=32.44 IE=28.83 (12" W) IE=28.83 (12" E) | |
| CB #4, TYPE 1, W/STANDARD GRATE RIM=32.29 IE=29.70 (12" E) | |
| CB #5, TYPE 1, W/STANDARD GRATE RIM=30.12 IE=26.31 (12" N) IE=26.31 (12" W) | |
| CB #6, TYPE 1, W/STANDARD GRATE RIM=31.06 IE=28.50 (12" S) | |
| CB #14, TYPE 1, W/STANDARD GRATE RIM=30.71 IE=27.70 (12" E) | |
| CB #36, TYPE 1, W/STANDARD GRATE RIM=34.74 IE=31.33 (6" E) | |
| CB #39, TYPE 1, W/STANDARD GRATE RIM=34.53 IE=32.63 (6" S) | |
| CB #40, TYPE 1, W/STANDARD GRATE RIM=34.54 IE=31.00 (6" N) | |
| SDCO #26, 8" SDCO RIM=30.74 IE=25.19 (12" S) IE=25.19 (12" N) IE=24.94 (15" E) | |
| SDCO #27, 8" SDCO RIM=30.74 IE=26.63 (12" S) IE=26.63 (12" N) | |
| SDCO #28, 8" SDCO RIM=30.47 IE=28.30 (12" N) | |
| SDCO #29, 8" SDCO RIM=34.60 IE=32.50 (6" N) IE=32.00 (12" S) | |
| SDCO #31, 8" SDCO RIM=34.77 IE=29.73 (15" N) IE=30.48 (6" S) IE=29.73 (15" E) | |
| SDCO #32, 8" SDCO RIM=34.51 IE=29.50 (15" W) IE=29.50 (15" E) | |
| SDCO #33, 8" SDCO RIM=34.44 IE=28.65 (15" W) IE=28.65 (15" E) | |
| SDCO #34, 8" SDCO RIM=32.34 IE=26.98 (15" W) IE=26.98 (15" N) | |
| SDCO #35, 8" SDCO RIM=33.03 IE=26.52 (15" S) IE=26.52 (15" E) | |
| SDCO #36, 8" SDCO RIM=32.33 IE=26.37 (15" W) IE=26.37 (15" NE) | |

Revision
No. 5
Date 12/13/24
By DTC
Checked JSM
Approved JSM
SEPA RESUBMITTAL

Title:
PRELIMINARY GRADING AND DRAINAGE PLAN
FOR
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:
Horizontal 1"=30'
Vertical N/A

Designed JSM
Drawn JSM
Checked JSM
Approved JSM
Date 12/20/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number
21585

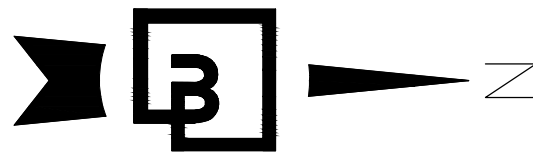
Sheet
C11 of **44**

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

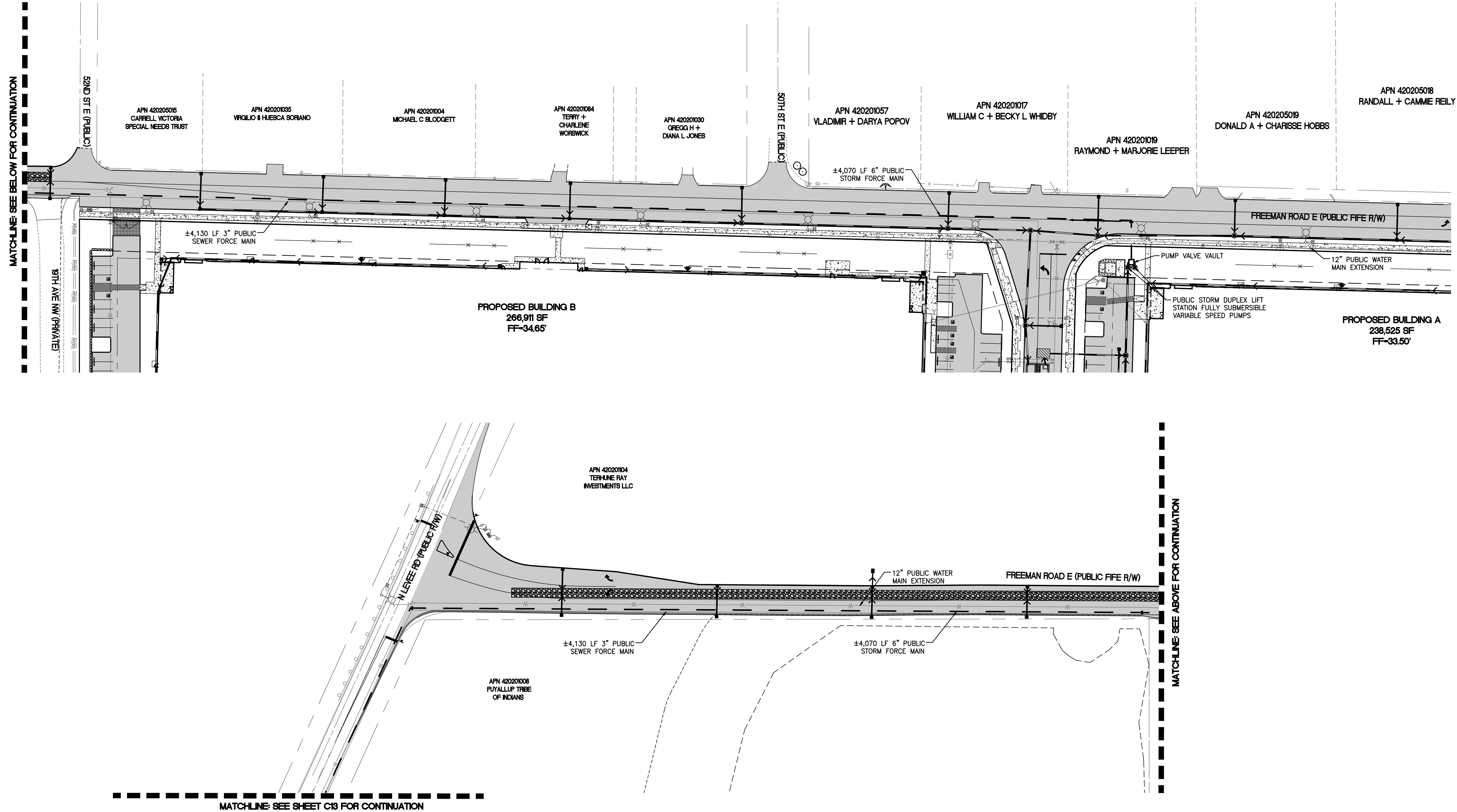
DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



0 25' 50' 100'
SCALE: 1"=50'

PRELIMINARY DRAINAGE OUTLET PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



ENGINEER'S REVIEW
☐ APPROVED
☐ APPROVED AS CORRECTED
☐ REVISE AND RESUBMIT
☐ REJECTED
☐ FOR INFORMATION ONLY

THE CITY'S REVIEW IS NOT A CONFIRMATION OF ANY DIMENSION OR QUANTITIES SHOWN IN THE PLANS AND WILL NOT RELIEVE THE DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR PLANS ERRORS. NO CHANGES SHALL BE MADE TO THE PLANS EXCEPT WITH THE CONSENT OF THE CITY ENGINEER. IF CONSTRUCTION HAS NOT COMMENCED WITHIN A REASONABLE PERIOD OF THE APPROVAL DATE, PLANS WILL REQUIRE RE-APPROVAL BY THE CITY.

BY _____ DATE _____



APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

Job Number
21585

Sheet
C12 of **44**



Scale:
Horizontal 1"=50'
Vertical N/A

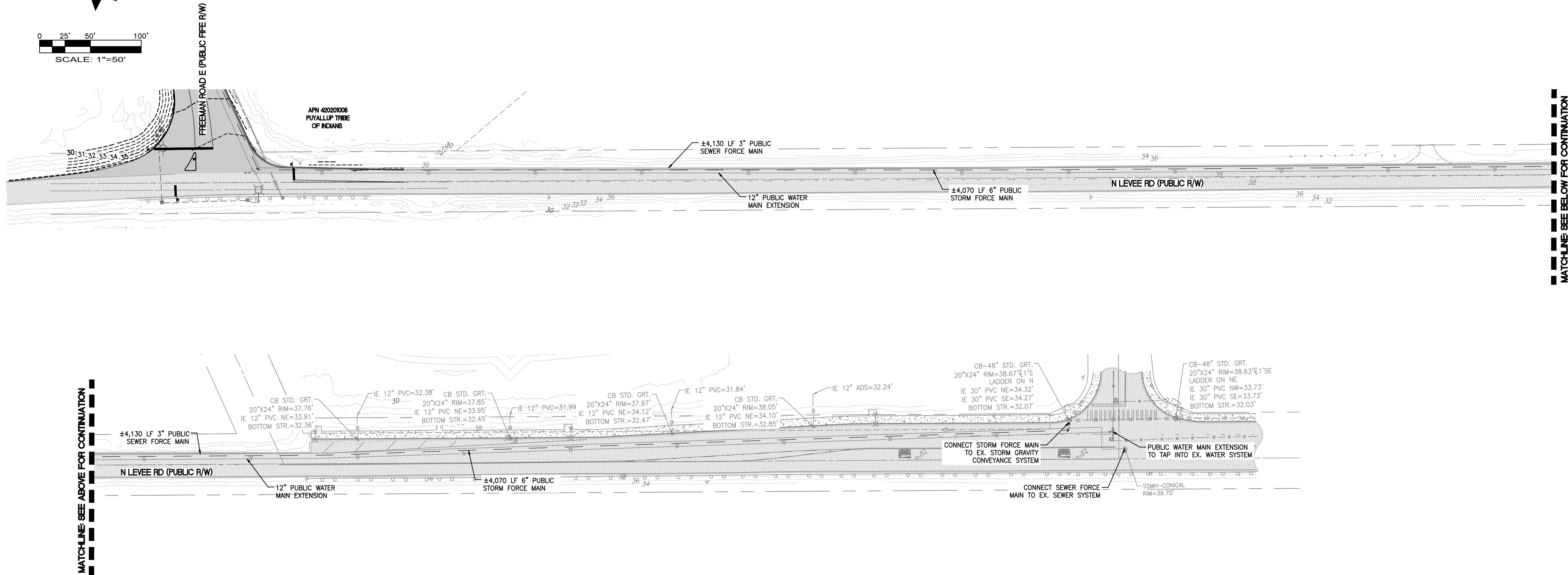
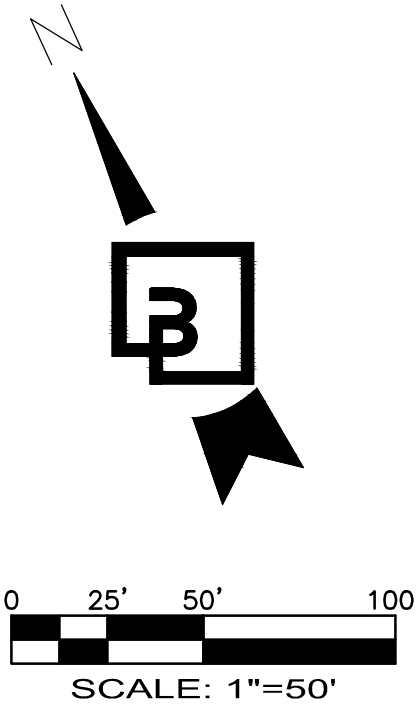
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|----------|----------|-------|-------|-------|-------|
| Designed | _____ | _____ | _____ | _____ | _____ |
| Drawn | _____ | _____ | _____ | _____ | _____ |
| Checked | _____ | _____ | _____ | _____ | _____ |
| Approved | _____ | _____ | _____ | _____ | _____ |
| Date | 12/20/24 | | | | |

For: **VECTOR DEVELOPMENT COMPANY**
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

Title: **PRELIMINARY DRAINAGE OUTLET PLAN**
FOR
FREEMAN LOGISTICS

| No. | Date | By | Chd. | Appr. | Revision |
|-----|----------|-----|------|-------|------------------|
| 5 | 12/13/24 | DTC | JSM | JSM | SEPA RESUBMITTAL |

PRELIMINARY DRAINAGE OUTLET PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



| No. | Date | By | Chd. | Appr. | Revision |
|-----|----------|-----|------|-------|------------------|
| 5 | 12/13/24 | DTC | JSM | JSM | SEPA RESUBMITTAL |

Title:

PRELIMINARY DRAINAGE OUTLET PLAN
FOR
FREEMAN LOGISTICS

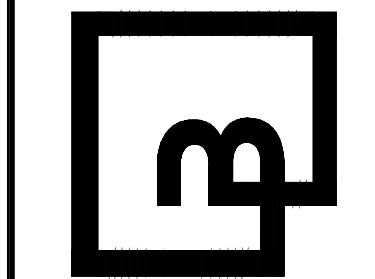
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:
Horizontal 1"=50'
Vertical N/A

| Designed | Drawn | Checked | Approved | Date |
|----------|-------|---------|----------|----------|
| JSM | JSM | JSM | JSM | 12/20/24 |

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425.251.6222 barghausen.com



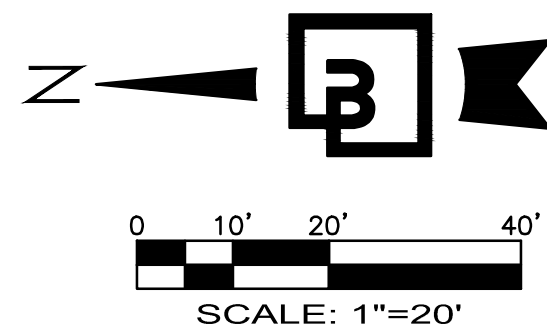
Job Number
21585
Sheet
C13 of **44**

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

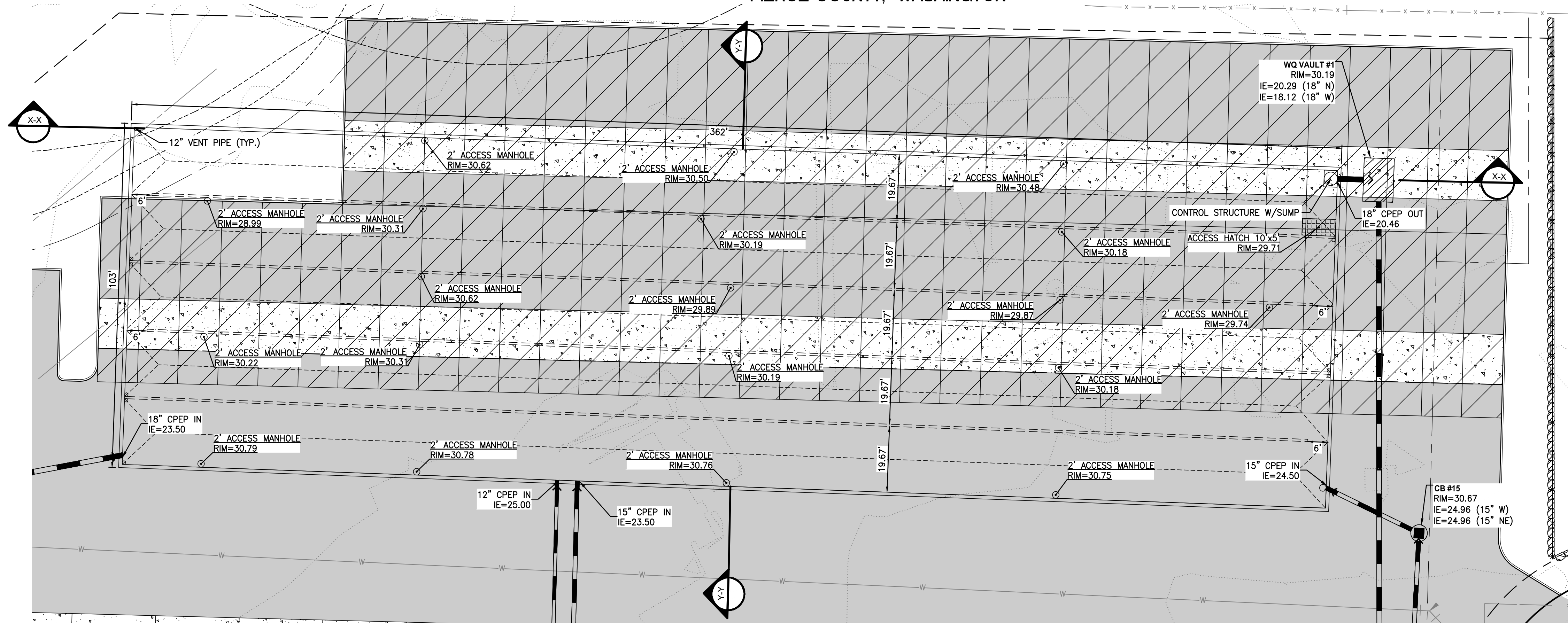
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



PRELIMINARY DETENTION VAULT PLAN - NORTH

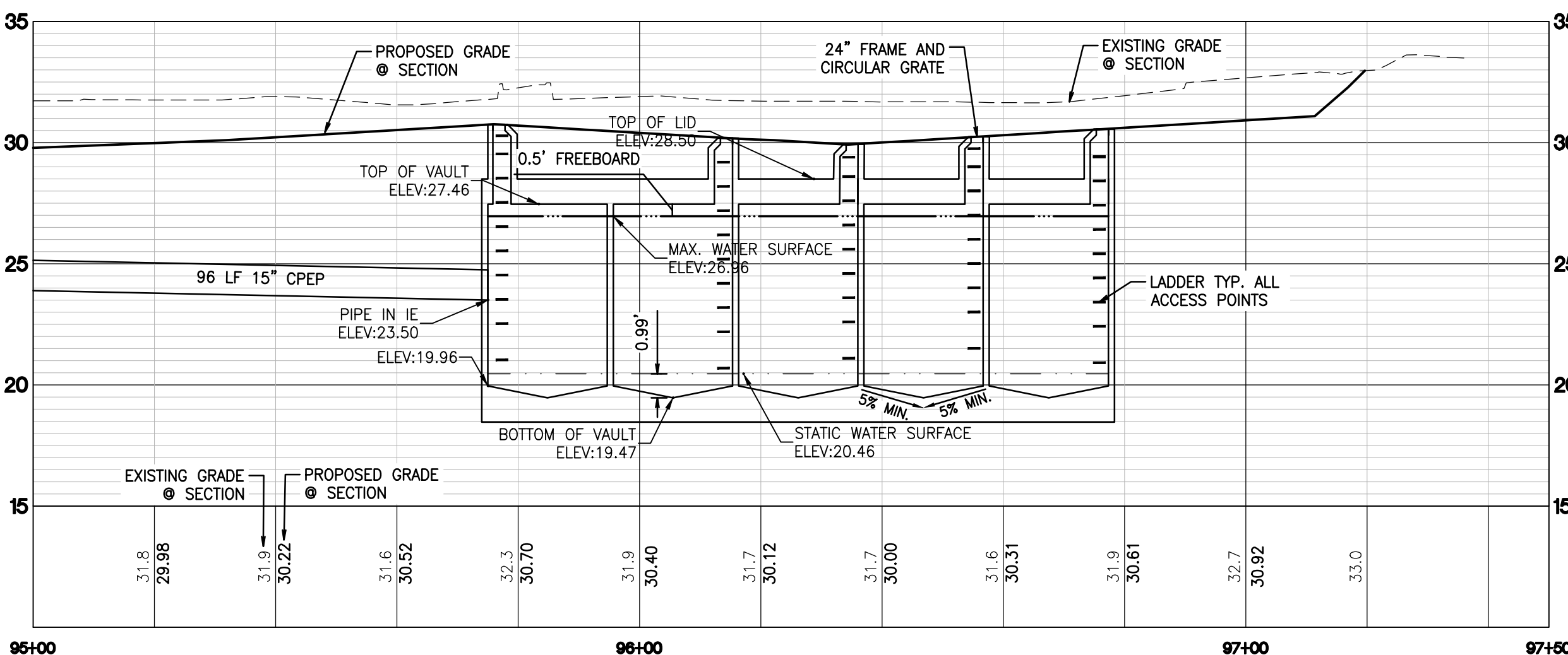
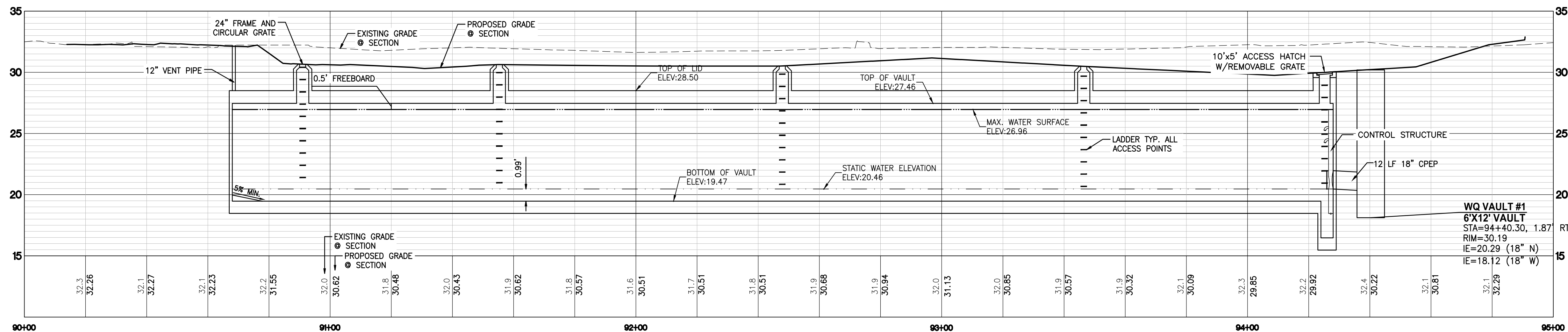
OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



DETENTION VAULT BUILDING A

LIVE STORAGE DEPTH = 6.5 FEET
TOP OF LID = 28.50
TOP OF VAULT = 27.46
MAXIMUM WATER SURFACE = 26.96
STATIC WATER SURFACE = 20.46
BOTTOM OF VAULT = 19.47
DETENTION VOLUME REQUIRED = 230,750 CF
DETENTION VOLUME PROVIDED = 234,000 CF



DETENTION VAULT X-X SECTION
SCALE: H: 1"=20' V: 1"=5'

VAULT NOTES:

1. VENTILATION PIPES (MIN. 12" DIAMETER OR EQUIVALENT) SHALL BE PROVIDED IN ALL CORNERS OF THE VAULT TO ALLOW FOR VENTILATION PRIOR TO ENTRY OF MAINTENANCE PERSONNEL INTO VAULT. VENTILATION PIPES ENTER THROUGH THE VAULT LID. PROVIDE LOCKING LIDS FLUSH WITH FINISH GRADE USING CLEANOUT.
2. WHERE PIPES ENTER AND LEAVE THE VAULT BELOW THE DESIGNED MAX WATER SURFACE, THEY SHALL BE SEALED USING A NON-POROUS, NON-SHRINKING GROUT.
3. DETENTION VAULT HAS BEEN DESIGNED WITH THE HIGH GROUNDWATER IN MIND AND BUOYANCY WILL BE ACCOUNTED FOR IN THE STRUCTURAL DESIGN CALCULATIONS.



KEYNOTE (A)
TYPICAL AT ALL MANHOLE ACCESS MINIMUM SIGN SHALL BE 10"x7" ALUMINUM SIGN. THIS SIGN CAN BE ORDERED AT COMPLIANCE SIGNS.COM, AND IS MODEL NUMBER ACE-10005
BOLT TO INSIDE OF STRUCTURE ABOVE TOP LADDER RUNG. (TYP)
CONFINED SPACE SIGNAGE TYPICAL DETAIL
NOT TO SCALE

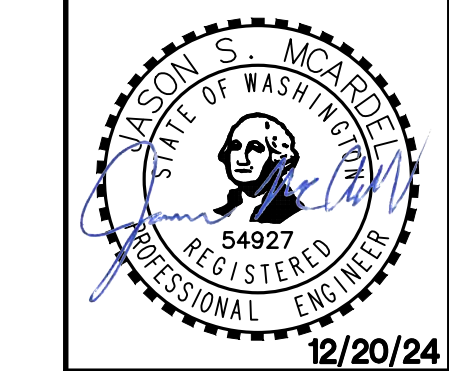
APPROVED

BY _____ CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Title: **PRELIMINARY DETENTION VAULT PLAN - NORTH**
FOR **FREEMAN LOGISTICS**

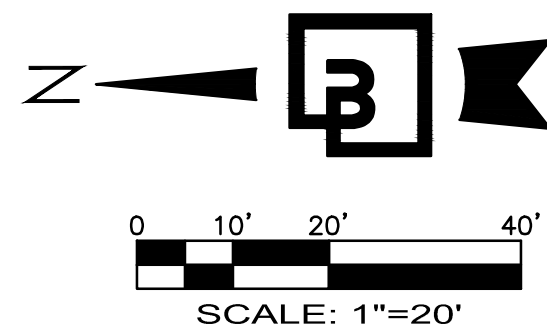
For: **VECTOR DEVELOPMENT COMPANY**
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



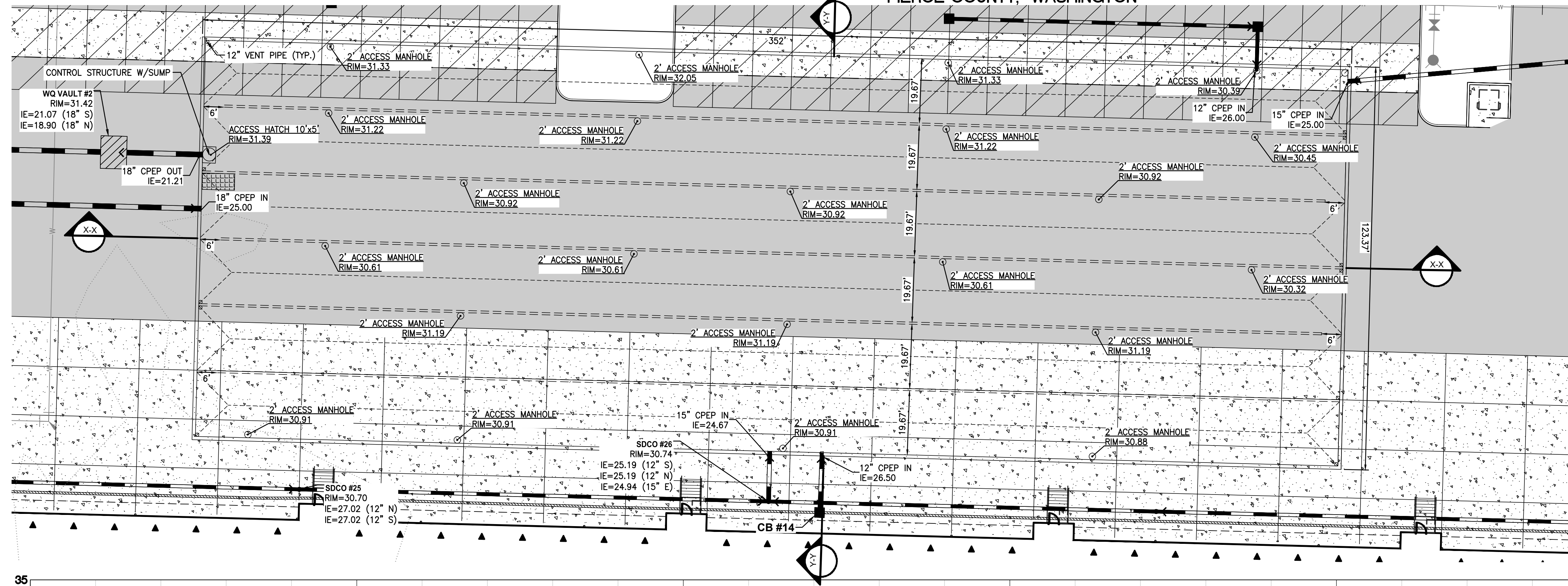
Scale: Horizontal 1"=20' Vertical 1"=5'
Designed: JSM
Drawn: JSM
Checked: JSM
Approved: JSM
Date: 12/20/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

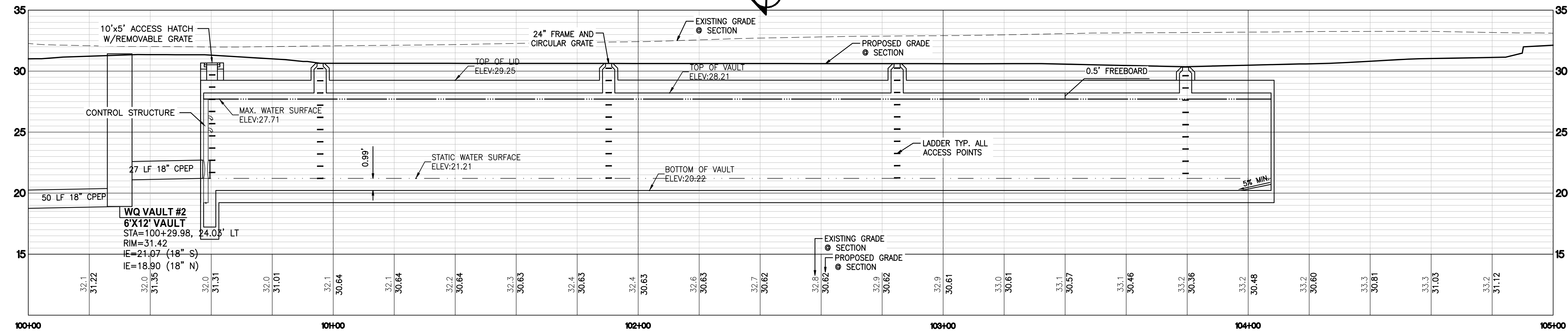
Job Number: **21585**
Sheet: **C14** of **44**



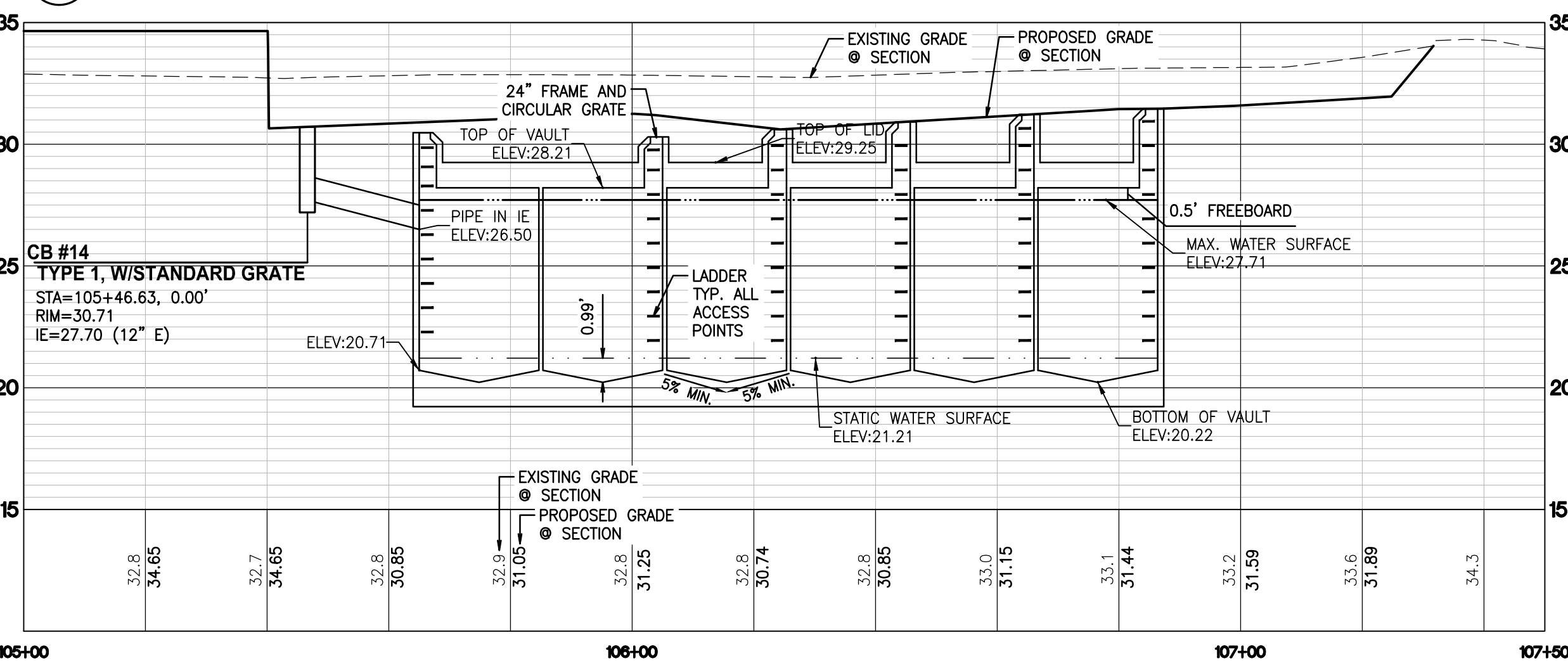
PRELIMINARY DETENTION VAULT PLAN - SOUTH
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



DETENTION VAULT BUILDING B
LIVE STORAGE DEPTH = 6.5 FEET
TOP OF LID = 29.25
TOP OF VAULT = 28.21
MAXIMUM WATER SURFACE = 27.71
STATIC WATER SURFACE = 21.21
BOTTOM OF VAULT = 20.22
DETENTION VOLUME REQUIRED = 261,300 CF
DETENTION VOLUME PROVIDED = 273,000 CF



DETENTION VAULT X-X SECTION
SCALE: H: 1"=20' V: 1"=5'



DETENTION VAULT Y-Y SECTION
SCALE: H: 1"=20' V: 1"=5'

VAULT NOTES:

- VENTILATION PIPES (MIN. 12" DIAMETER OR EQUIVALENT) SHALL BE PROVIDED IN ALL CORNERS OF THE VAULT TO ALLOW FOR VENTILATION PRIOR TO ENTRY OF MAINTENANCE PERSONNEL INTO VAULT. VENTILATION PIPES ENTER THROUGH THE VAULT LID. PROVIDE LOCKING LIDS FLUSH WITH FINISH GRADE USING CLEANOUT.
- WHERE PIPES ENTER AND LEAVE THE VAULT BELOW THE DESIGNED MAX WATER SURFACE, THEY SHALL BE SEALED USING A NON-POROUS, NON-SHRINKING GROUT.
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KEYNOTE

TYPICAL AT ALL MANHOLE ACCESS MINIMUM SIGN SHALL BE 10"x7" ALUMINUM SIGN. THIS SIGN CAN BE ORDERED AT COMPLIANCE SIGNS.COM, AND IS MODEL NUMBER ACE-10005

BOLT TO INSIDE OF STRUCTURE ABOVE TOP LADDER RUNG. (TYP)

**CONFINED SPACE SIGNAGE
TYPICAL DETAIL**

NOT TO SCALE

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE _____

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Title: **PRELIMINARY DETENTION VAULT
PLAN - SOUTH
FOR
FREEMAN LOGISTICS**

For: **VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034**



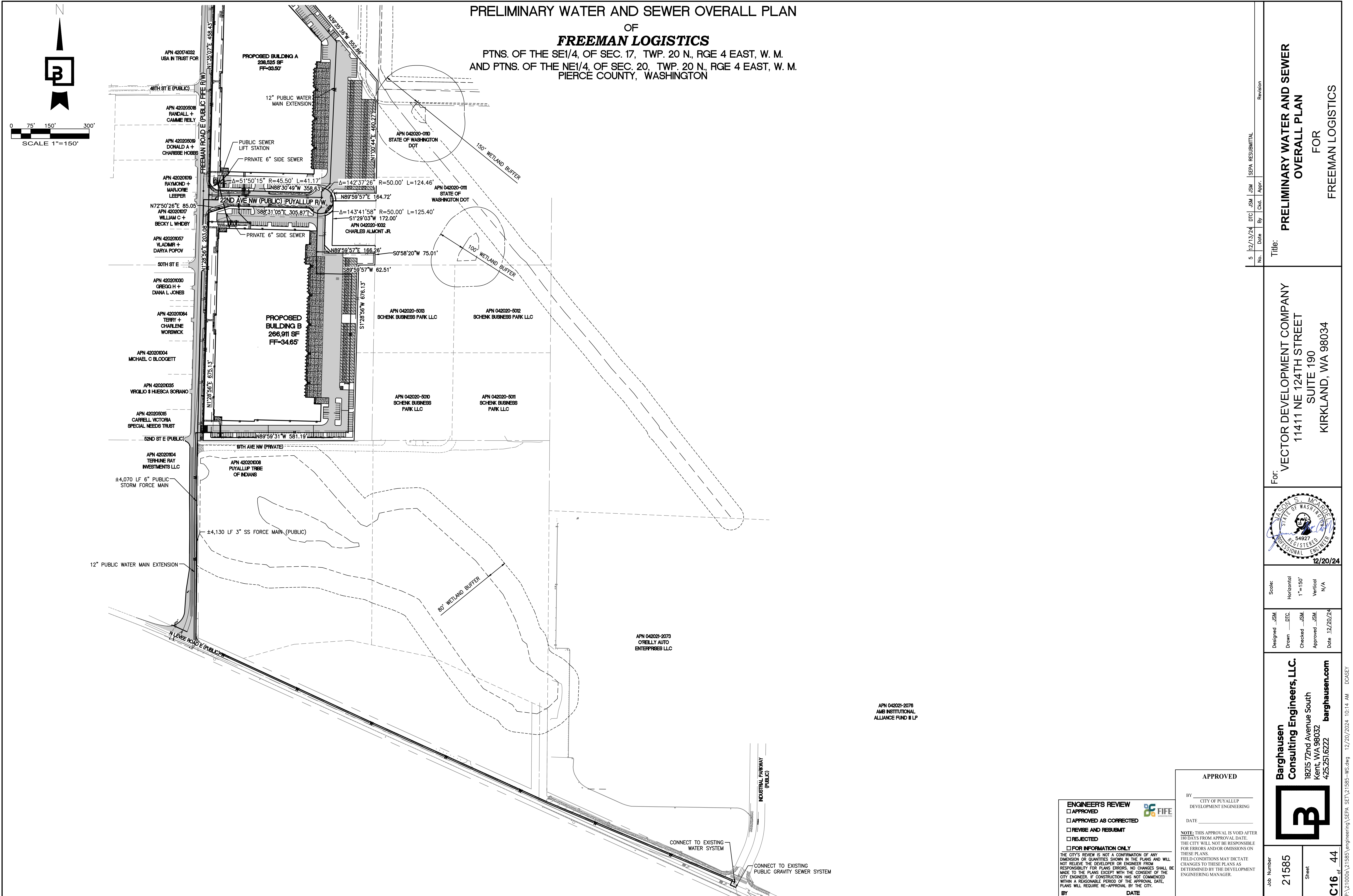
Scale: Horizontal 1"=20' Vertical 1"=5'

Designed: JSM Drawn: DTC Checked: JSM Approved: JSM Date: 12/20/24

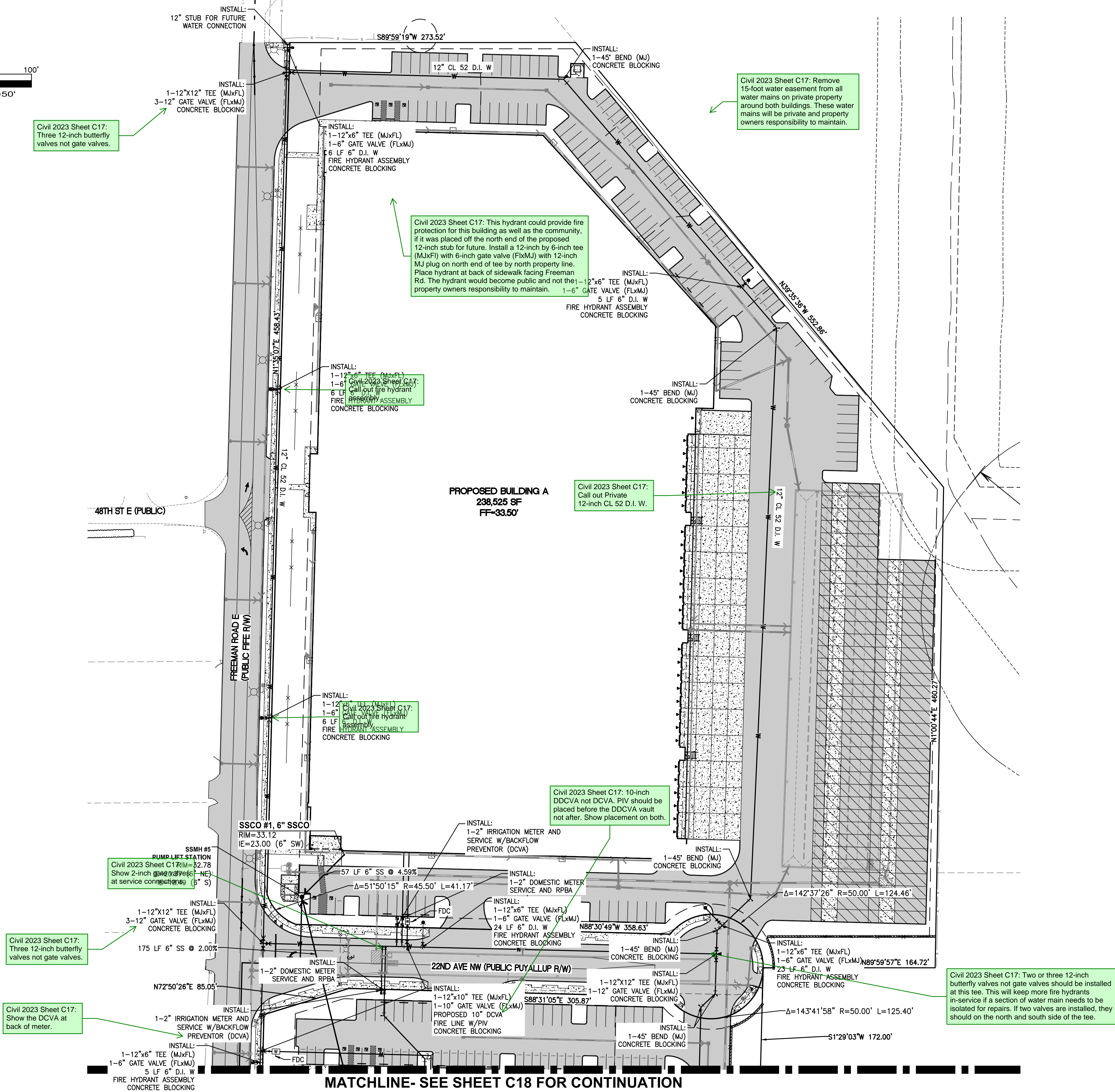
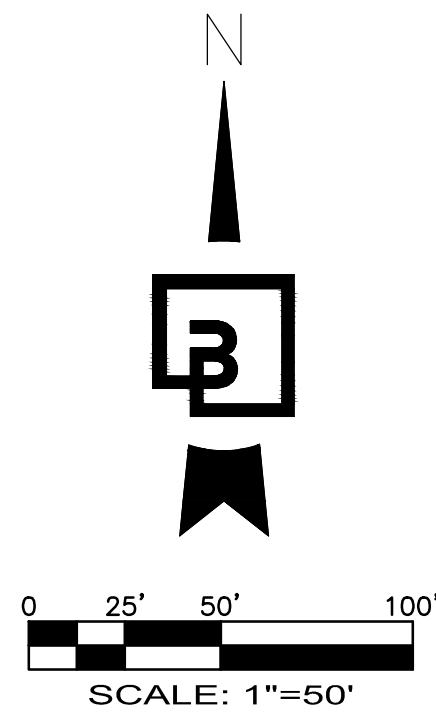
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18215 72nd Avenue South
Kent, WA 98032
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Job Number: **21585**
Sheet: **C15** of **44**



PRELIMINARY WATER AND SEWER PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



MATCHLINE- SEE SHEET C18 FOR CONTINUATION

ENGINEER'S REVIEW
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BY _____ DATE _____

APPROVED

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DATE _____

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Title: **PRELIMINARY WATER AND SEWER PLAN**
For: **FREEMAN LOGISTICS**

VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



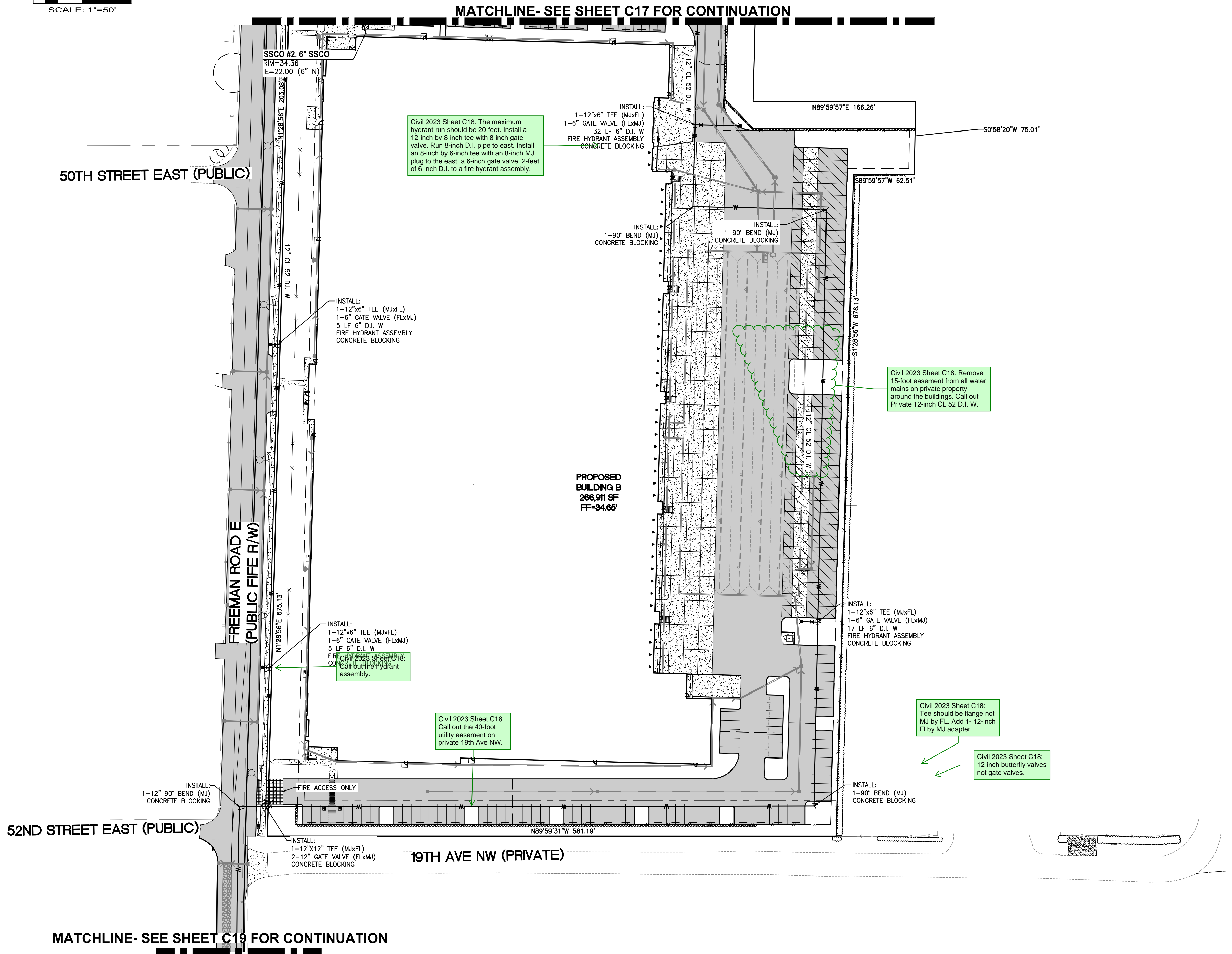
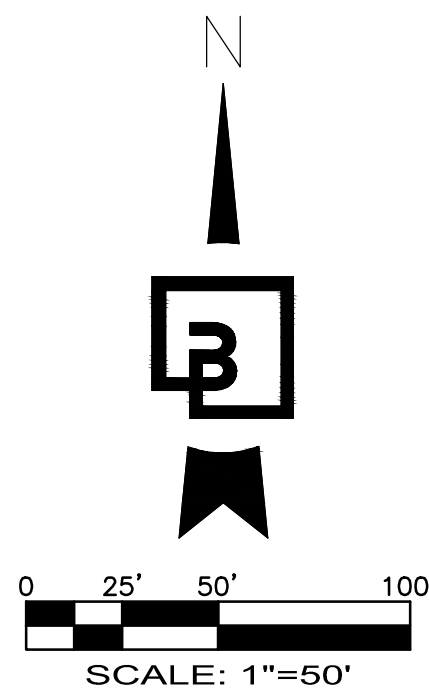
Scale: Horizontal 1"=50' Vertical N/A

Designed: JSM Drawn: JSM Checked: JSM Approved: JSM Date: 12/20/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
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Job Number: **21585**
Sheet: **C17** of **44**

PRELIMINARY WATER AND SEWER PLAN
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



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BY _____ DATE _____



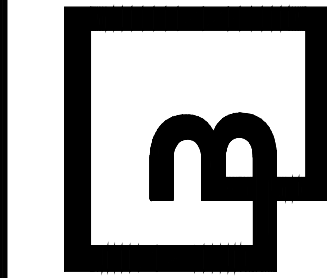
APPROVED

BY _____ CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

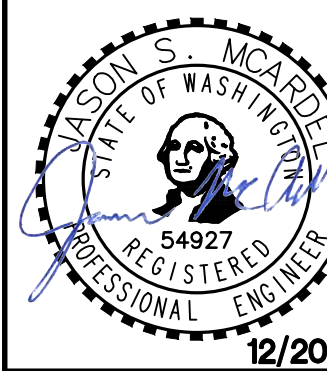
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Job Number
21585

Sheet
C18 of **44**



Scale:
Horizontal 1"=50'
Vertical N/A

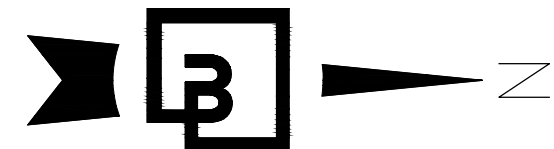
Designed _____
Drawn _____
Checked _____
Approved _____
Date 12/20/24

For: **VECTOR DEVELOPMENT COMPANY**
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

Title: **PRELIMINARY WATER AND SEWER PLAN**
FOR
FREEMAN LOGISTICS

| No. | Date | By | Appr. | Revision |
|-----|----------|-----|-------|------------------|
| 5 | 12/13/24 | DTC | JSM | SEPA RESUBMITTAL |

PRELIMINARY WATER AND SEWER PLAN
OF
FREEMAN LOGISTICS
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AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



0 25' 50' 100'
SCALE: 1"=50'

Civil 2023 Sheet C19:
Call out the public utility
easement including the
size of the easement.

Civil 2023 Sheet C19:
Install a marker post for
this valve. Add City
Standard detail 03.01.02
to this plan set.

Civil 2023 Sheet C19:
Install:
1-12-inch 90 degree bend (NJ) x PUBLIC
1-12-inch B.V. (F160) x R. FORCE MAIN
Concrete Blocking

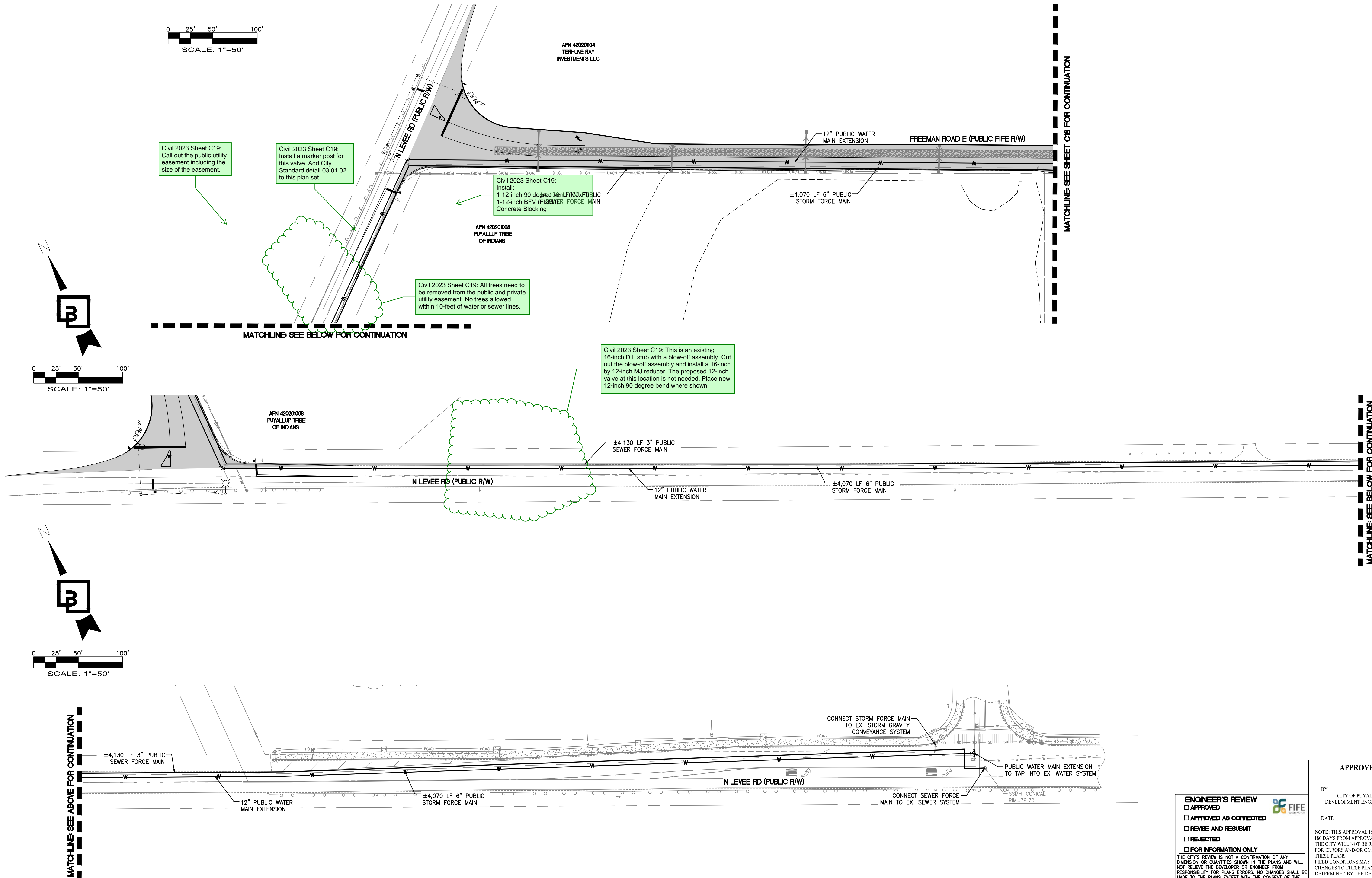
Civil 2023 Sheet C19: All trees need to
be removed from the public and private
utility easement. No trees allowed
within 10-feet of water or sewer lines.

Civil 2023 Sheet C19: This is an existing
16-inch D.I. stub with a blow-off assembly. Cut
out the blow-off assembly and install a 16-inch
by 12-inch MJ reducer. The proposed 12-inch
valve at this location is not needed. Place new
12-inch 90 degree bend where shown.

0 25' 50' 100'
SCALE: 1"=50'

0 25' 50' 100'
SCALE: 1"=50'

0 25' 50' 100'
SCALE: 1"=50'



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BY _____ DATE _____

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER
180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR
CHANGES TO THESE PLANS AS
DETERMINED BY THE DEVELOPMENT
ENGINEERING MANAGER.

| Revision | No. | Date | By | Appr. |
|----------|----------|------|----|-------|
| 5 | 12/13/24 | | | |

SEPA RESUBMITTAL

Title:
PRELIMINARY WATER AND SEWER PLAN
For:
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



| | | |
|----------|------------|----------|
| Scale: | Horizontal | Vertical |
| | 1"=50' | N/A |
| Designed | JSM | |
| Drawn | DTC | |
| Checked | JSM | |
| Approved | JSM | |
| Date | 12/20/24 | |

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number
21585

Sheet
C19 of **44**

PRELIMINARY ROAD IMPROVEMENT FREEMAN AND LEVEE INTERSECTION

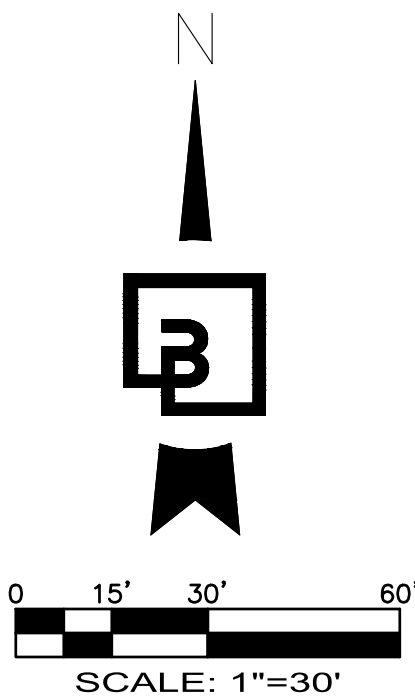
OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

CITY OF FIFE GENERAL NOTES

1. ALL SPECIFICATIONS, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF FIFE MUNICIPAL CODE, THE LATEST EDITION OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF FIFE MUNICIPAL CODE AND THE LATEST EDITION OF THE WSDOT/APWA STANDARD PLANS.
3. A COPY OF THE APPROVED PLANS SHALL BE ON SITE DURING CONSTRUCTION.
4. CONSTRUCTION OF PROPOSED IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS. ANY CHANGES FROM THE "APPROVED" PLANS WILL REQUIRE APPROVAL FROM THE DEVELOPER, DEVELOPERS ENGINEER AND THE CITY OF FIFE.
5. A PRE-CONSTRUCTION MEETING AND ANY REQUIRED PERMITS SHALL BE REQUIRED PRIOR TO ANY WORK ACTIVITY. THE PRE-CONSTRUCTION MEETING SHALL BE HELD AT FIFE CITY HALL.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL ON SITE STORM WATER RUNOFF BY USING APPROVED TEMPORARY OR PERMANENT DRAINAGE EROSION/SILTATION CONTROL PROCEDURES. THE CITY OF FIFE HAS ADOPTED THE STORMWATER MANAGEMENT MANUAL FOR THE PUGET SOUND BASIN (THE TECHNICAL MANUAL) DEVELOPED BY THE DEPARTMENT OF ECOLOGY.
7. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CALL ONE-CALL (1-800-425-5555) FOR UTILITY LOCATIONS (WATER, SANITARY SEWER, STORM SEWER, GAS, POWER, TELEPHONE AND CABLE TV).
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. ANY UTILITY RELOCATIONS SHALL BE AT THE EXPENSE OF THE APPLICANT AND MUST BE IN ACCORDANCE WITH THE CITY OF FIFE'S STANDARDS.
9. NO SAW CUTTING IN THE RIGHT-OF-WAY WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF FIFE. ONCE APPROVED, EXISTING PAVEMENT SURFACES SHALL BE SAW CUT FULL DEPTH WITH STRAIGHT, UNIFORM EDGES TWELVE INCHES (12") OUT FROM THE EDGE OF EXCAVATION. IF SLOUGHING OCCURS DURING EXCAVATION, THE EXISTING PAVEMENT SHALL BE SAW CUT TO ACHIEVE THE REQUIRED 12 INCHES (12") FROM THE EDGE OF EXCAVATION.
10. LANE CLOSURES SHALL BE RESTRICTED TO 9:00 A.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY. ONE LANE (MINIMUM) SHALL BE RESERVED FOR TRAFFIC (BOTH DIRECTIONS) AT ALL TIMES. WORK IN THE RIGHT OF WAY REQUIRES A RIGHT-OF-WAY PERMIT. NIGHT, WEEKEND, OR WORK HOURS OTHER THAN HOURS MENTIONED ABOVE WILL REQUIRE THE CITY OF FIFE ENGINEER'S APPROVAL. A THREE DAY ADVANCE NOTICE IS REQUIRED. ACCESS TO EXISTING DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
11. IF WORK IS REQUIRED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE PROOF OF LIABILITY INSURANCE IN AN AMOUNT NO LESS THAN ONE MILLION DOLLARS PER OCCURRENCE AND A \$10,000 (OR 125% OF CONSTRUCTION COSTS) RESTORATION/DEFECT BOND ON CITY OF FIFE FORMS. THE CONTRACTOR SHALL ALSO PROVIDE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL A MINIMUM OF FIVE(5) DAYS PRIOR TO STARTING THE WORK. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
12. THE CONTRACTOR SHALL CONTACT PIERCE COUNTY TRANSIT AND THE FIFE SCHOOL DISTRICT FOR COORDINATING BUS STOP OPERATIONS DURING CONSTRUCTION, IF NECESSARY.
13. NO CONSTRUCTION, EXCAVATION, HAULING OR REMOVAL OF FILL SHALL BE PERMITTED BETWEEN THE HOURS OF 10:00 P.M. AND 7:00 A.M. WEEKDAYS OR 10:00 P.M. AND 9:00 A.M. ON WEEKENDS.
14. THE CONTRACTOR WILL BE REQUIRED TO WATER THE SITE, AS NECESSARY, TO REDUCE EMISSIONS AS A RESULT OF CONSTRUCTION ACTIVITY. A HYDRANT PERMIT AND WATER METER IS REQUIRED TO OBTAIN WATER FROM THE CITY OF FIFE'S WATER SYSTEM. THE CONTRACTOR SHALL ALSO SWEEP ALL AFFECTED PUBLIC ROADS, AS NECESSARY, OR AS DIRECTED BY THE CITY, TO REMOVE MUD DEPOSITS AS A RESULT OF CONSTRUCTION ACTIVITY.
15. CUT SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL AND FILL SLOPES SHALL NOT BE STEEPER THAN 1-1/2 HORIZONTAL TO 1 VERTICAL, OR AS RECOMMENDED BY A SOILS ENGINEER. THE CATCH POINTS OF THE TOP OF CUT SLOPES AND BOTTOM OF FILL SLOPES SHALL BE SET BACK FROM THE SITE BOUNDARY LINES IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS A RETAINING WALL IS DESIGNED BY THE ENGINEER AND CONSTRUCTED FOR THIS PROJECT:

| | |
|-----------------|-------------------|
| CUT/FILL DEPTH | SET BACK DISTANCE |
| UNDER 5 FEET | 2 FEET |
| 5 FEET AND OVER | HEIGHT/2 |
16. ISSUANCE OF A PERMIT BY THE CITY OF FIFE DOES NOT IMPLY OR SIGNIFY THAT THE PROPOSED WORK COMPLIES WITH THE REQUIREMENTS OF OR IS ALLOWED BY OTHER COUNTY, STATE, OR FEDERAL LAWS, ORDINANCES, OR REGULATIONS. APPLICANT WILL ACCEPT SOLE RESPONSIBILITY AND LIABILITY FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
17. "AS-BUILT" DRAWINGS CERTIFIED BY A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER ARE REQUIRED FOR RIGHT-OF-WAY IMPROVEMENTS AND ANY SITE CIVIL WORK. THESE DRAWINGS SHALL BE SUBMITTED ON 24" X 36" MYLAR, ON CD IN ELECTRONIC PDF FORMAT AS APPROVED BY THE CITY AND RECEIVE APPROVAL FROM THE CITY BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.
18. ALL STORM PIPE SHALL BE INSTALLED WITH RUBBER GASKETED JOINTS. PIPES SHALL NOT ALLOW INTRUSION OF GROUNDWATER INTO STORM SYSTEM. PIPES SHALL BE INSTALLED WATER TIGHT AND AIR TESTED.
19. ALL EXCAVATIONS IN ROADWAYS SHALL BE BACKFILLED FULL-DEPTH WITH CRUSHED ROCK BASE COURSE COMPACTED TO 95% MDD.
20. CURB AND GUTTER SECTIONS IN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED USING FORMS. EXTRUDED APPLICATIONS SHALL NOT BE ACCEPTED, CONCRETE TO BE MINIMUM 4,000 PSI STRENGTH.
21. ALL TYPE II CATCH BASINS NOT DIRECTLY PICKING UP STORM DRAINAGE SHALL HAVE ROUND SOLID LOCKING LIDS. LIDS WILL NOT BE CONSTRUCTED IN THE CURB AND GUTTER LINE OR WHEEL PATH.
22. ALL DRIVEWAYS TO HAVE 6" THICK CONCRETE PAVING FOR ADDITIONAL STRENGTH. MIN. 4,000 PSI STRENGTH.
23. HDPE STORM PIPE TO MEET ASTM F810-93.
24. ALL STRUCTURES LARGER THAN A TYPE I CATCH BASIN SHALL REQUIRE A MINIMUM OF 12" THICKNESS OF 4" - 8" QUARRY SPALLS FOR BASE AND MINIMUM OF 12" OUTSIDE OF STRUCTURE, OVER 260# FABRIC PER ASTM D-4632



FIFE COMMENT: City of Fife grading permit required for design review. Also, require a Street Opening Permit and ROW Permit for review and approval. [CIVIL-SEPA-2024 RESUB, Sheet C20]

FIFE COMMENT - Remove or strike out note 14. The water shall be from City of Puyallup. [CIVIL-SEPA-2024 RESUB, Sheet C20]

FRONTAGE LEGEND:

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- TYPE II CATCH BASIN
- TYPE I CATCH BASIN
- STORM DRAIN FLOW ARROW
- STORM DRAINAGE LINE
- FIRE HYDRANT
- WATER VALVE
- CONCRETE BLOCKING
- 90° BEND
- SPOT ELEVATIONS
- CONTOURS
- PROPOSED ASPHALT PAVEMENT
- EXISTING PAVEMENT
- GRIND AND HMA CLASS 1/2" OVERLAY

NORTH LEVEE ROAD EAST SECTION A

NOT TO SCALE

NORTH LEVEE ROAD EAST SECTION E

NOT TO SCALE

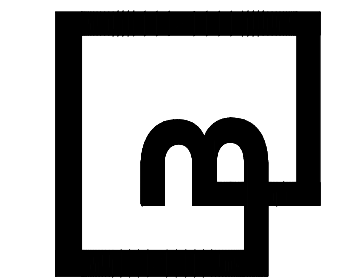
Title:
PRELIMINARY ROAD IMPROVEMENT
FREEMAN AND LEVEE INTERSECTION
FOR
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



| | | |
|----------|------------|----------|
| Scale: | Horizontal | Vertical |
| | 1"=30' | N/A |
| Designed | JSM | |
| Drawn | DTC | |
| Checked | JSM | |
| Approved | JSM | |
| Date | 12/20/24 | |

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585
Sheet
C20 of 44

| | |
|---|------|
| ENGINEER'S REVIEW | |
| <input checked="" type="checkbox"/> APPROVED | |
| <input type="checkbox"/> APPROVED AS CORRECTED | |
| <input type="checkbox"/> REVISE AND RESUBMIT | |
| <input type="checkbox"/> REJECTED | |
| <input type="checkbox"/> FOR INFORMATION ONLY | |
| THE CITY'S REVIEW IS NOT A CONFIRMATION OF ANY DIMENSION OR QUANTITIES SHOWN IN THE PLANS AND WILL NOT RELIEVE THE DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR PLANS ERRORS. NO CHANGES SHALL BE MADE TO THE PLANS EXCEPT WITH THE CONSENT OF THE CITY ENGINEER. IF CONSTRUCTION HAS NOT COMMENCED WITHIN A REASONABLE PERIOD OF THE APPROVAL DATE, PLANS WILL REQUIRE RE-APPROVAL BY THE CITY. | |
| BY | DATE |

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

CALL BEFORE YOU DIG:
1-800-424-5555

UTILITY CONFLICT NOTE:

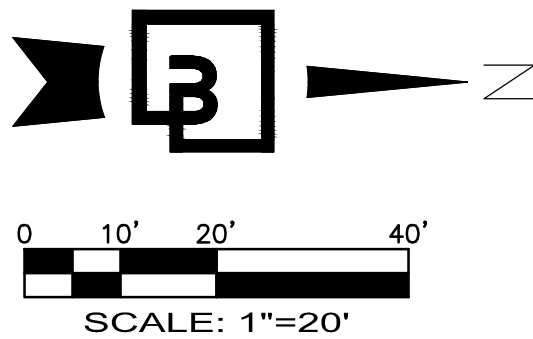
CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

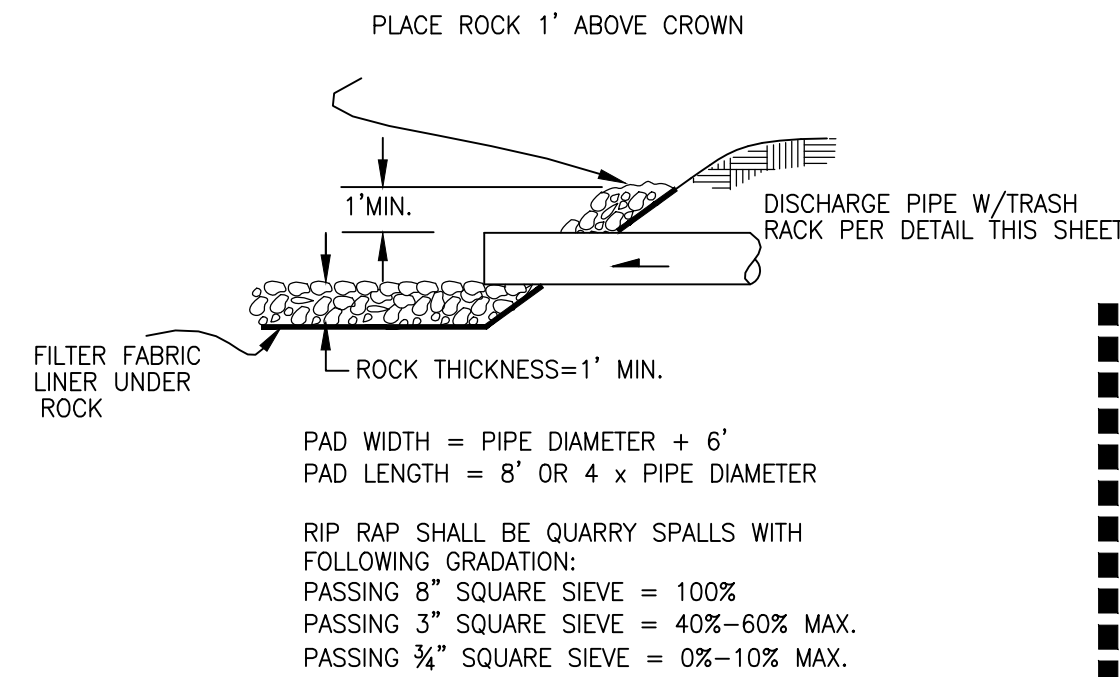
PRELIMINARY ROAD IMPROVEMENTS STA 50+00 TO 55+00

OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



FIFE NOTE: Right of way dedication required prior to permitting. [CIVIL-SEPA-2024 RESUB, Sheet C21]

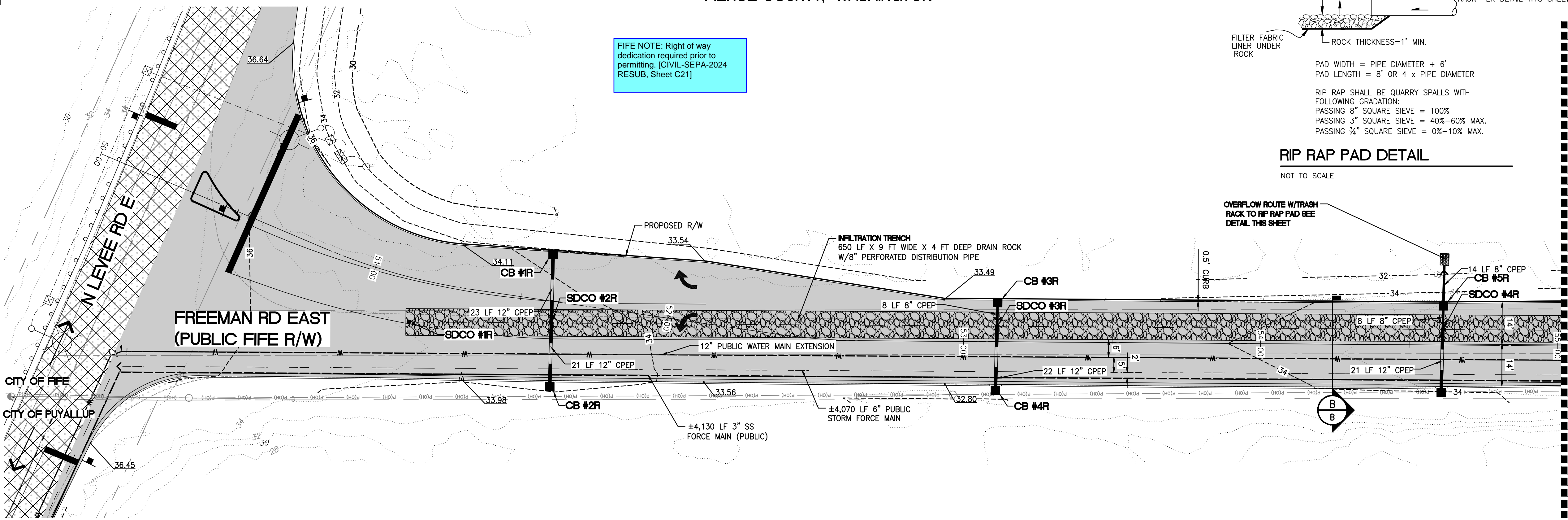


RIP RAP PAD DETAIL

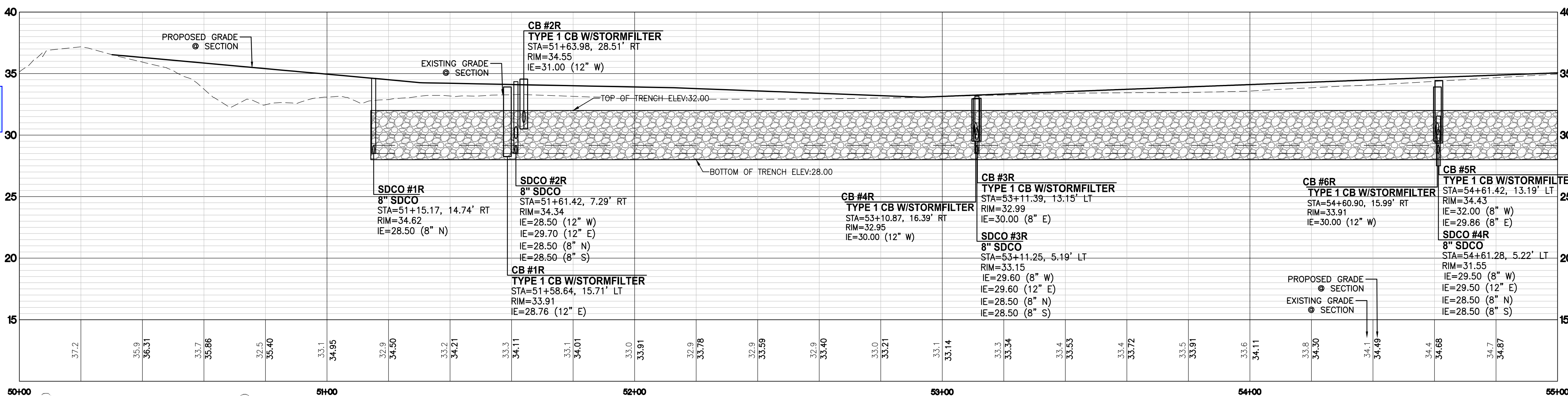
NOT TO SCALE

OVERFLOW ROUTE W/TRASH RACK TO RIP RAP PAD SEE DETAIL THIS SHEET

MATCHLINE STA 55+00 SEE SHEET C22 FOR CONTINUATION

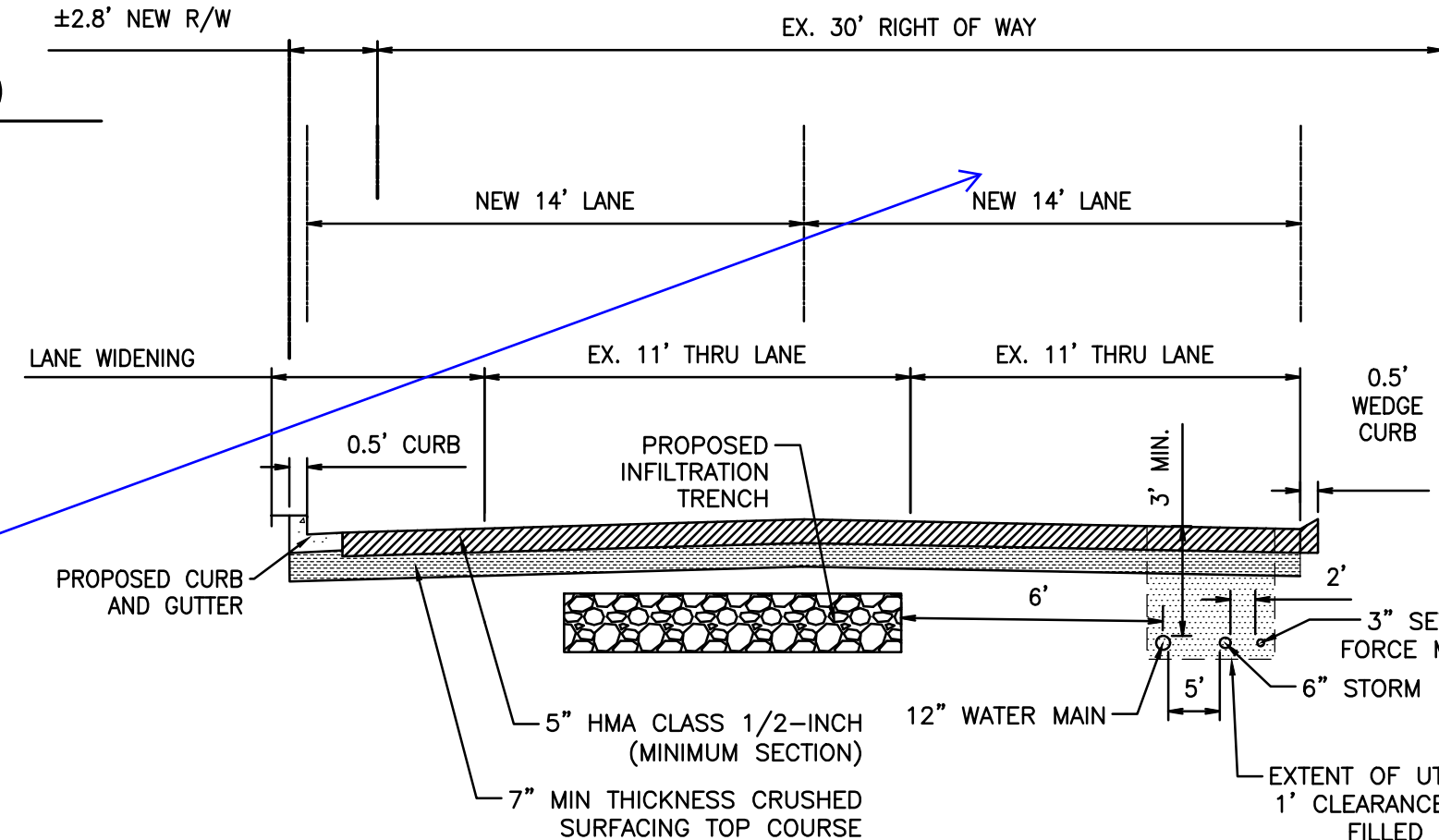


FIFE NOTE: Show seasonal groundwater elevations in relation to proposed infiltration trench elevations. [CIVIL-SEPA-2024 RESUB, Sheet C21]



FREEMAN ROAD EAST
STA: 50+00 TO 55+00

SCALE: HORIZ. 1"=20' VERT. 1"=5'



FIFE COMMENT: Enhance cross section and clearly illustrate how future Fife utilities (sewer and water) will have adequate space for standard installation. Also show all existing and proposed crossings in profile. [CIVIL-SEPA-2024 RESUB, Sheet C21]

FRONTAGE LEGEND:

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- TYPE II CATCH BASIN
TYPE I CATCH BASIN
STORM DRAIN FLOW ARROW
STORM DRAINAGE LINE
FIRE HYDRANT
WATER VALVE
CONCRETE BLOCKING
90° BEND
SPOT ELEVATIONS
CONTOURS
PROPOSED ASPHALT PAVEMENT
EXISTING PAVEMENT
GRIND AND HMA CLASS 1/2" OVERLAY

UTILITY CONFLICT NOTE:

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CALL BEFORE YOU DIG:
1-800-424-5555

ENGINEER'S REVIEW
☐ APPROVED
☐ APPROVED AS CORRECTED
☐ REVISE AND RESUBMIT
☐ REJECTED
☐ FOR INFORMATION ONLY
THE CITY'S REVIEW IS NOT A CONFIRMATION OF ANY DIMENSION OR QUANTITIES SHOWN IN THE PLANS AND WILL NOT RELIEVE THE DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR PLANS ERRORS. NO CHANGES SHALL BE MADE TO THE PLANS EXCEPT WITH THE CONSENT OF THE CITY ENGINEER. IF CONSTRUCTION HAS NOT COMMENCED WITHIN A REASONABLE PERIOD OF THE APPROVAL DATE, PLANS WILL REQUIRE RE-APPROVAL BY THE CITY.

APPROVED

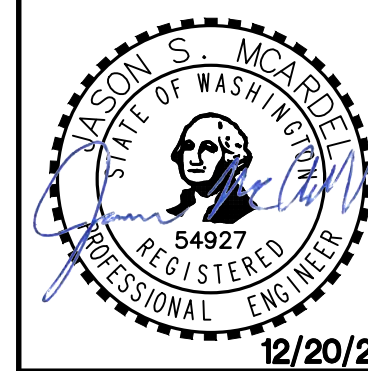
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number: 21585
Sheet: C21 of 44



| | |
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| Designed | JSM |
| Drawn | DTC |
| Checked | JSM |
| Approved | JSM |
| Date | 12/20/24 |

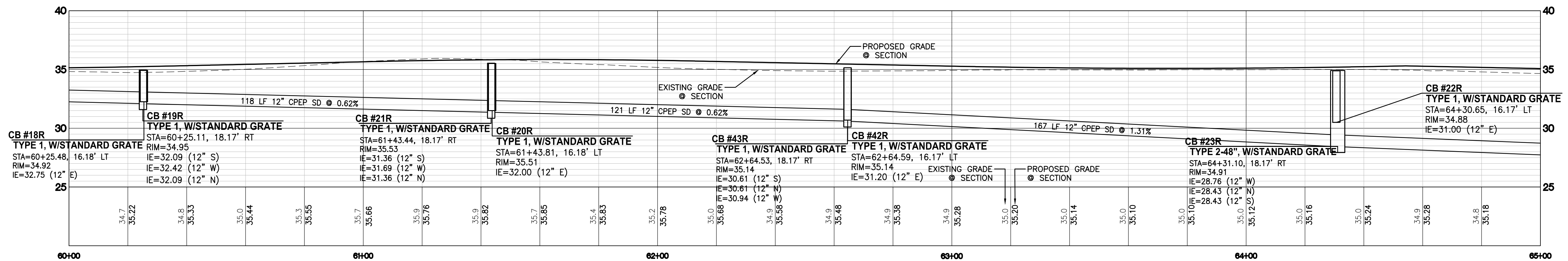
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

Title: PRELIMINARY ROAD IMPROVEMENTS
STA 50+00 TO 55+00
FOR
FREEMAN LOGISTICS

| Revision | SEPA RESUBMITAL | JSM | Appr. |
|----------|-----------------|-----|-------|
| 5 | 12/13/24 | DTC | By |

► **B** ► Z

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



30' EX. R/W

20' R/W DEDICATION

12' THRU LANE

12' TURN LANE

12' THRU LANE

±1.5' LANE WIDENING

EX. 11' THRU LANE

EX. 11' THRU LANE

±14' LANE WIDENING

4' PLANTER

5' SIDEWALK

2.5'

0.5' CURB

1.5'

PROPOSED CURB AND GUTTER

SS CRUSHED TOP COURSE

6" STORM DISCHARGE

3" SEWER FORCE MAIN

3' MIN.

2'

EXTENT OF UTILITY TRENCH 1' CLEARANCE MIN. TO BE FILLED WITH CDF OR APPROVED EQUIVALENT

5" HMA CLASS 1/2-INCH (MINIMUM SECTION)


7" MIN THICKNESS CRUSHED SURFACING TOP COURSE

PROPOSED CURB AND GUTTER

4" MIN. CONCRETE

FRONTAGE LEGEND:

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- | ENGINEER'S REVIEW | |  |
|---|------|---|
| <input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS CORRECTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED <input type="checkbox"/> FOR INFORMATION ONLY | | |
| <p>THE CITY'S REVIEW IS NOT A CONFIRMATION OF ANY DESIGN OR QUANTITIES SHOWN IN THE PLANS AND WILL NOT RELIEVE THE DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR PLANS ERRORS. NO CHANGES SHALL BE MADE TO THE PLANS EXCEPT WITH THE CONSENT OF THE CITY ENGINEER. IF CONSTRUCTION HAS NOT COMMENCED WITHIN A REASONABLE PERIOD OF THE APPROVAL DATE, PLANS WILL REQUIRE RE-APPROVAL BY THE CITY.</p> | | |
| BY | DATE | |

**CALL BEFORE YOU DIG:
1-800-424-5555**

UTILITY CONFLICT NOTE:

CAUTION:

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| 5 | 12/13/24 | DTC | JSM | JSM | SEPA RESUBMITTAL |
|---|----------|-----|-----|-----|------------------|
| | | | | | |

Title:


For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



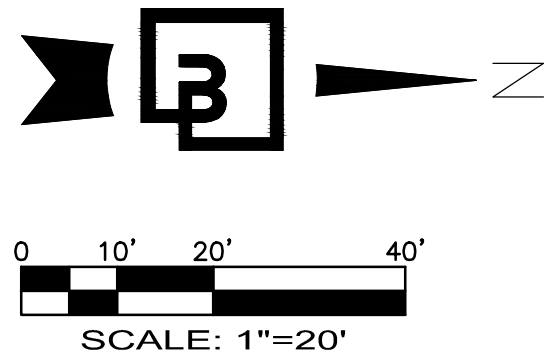
Scale:

Designed JSM

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**



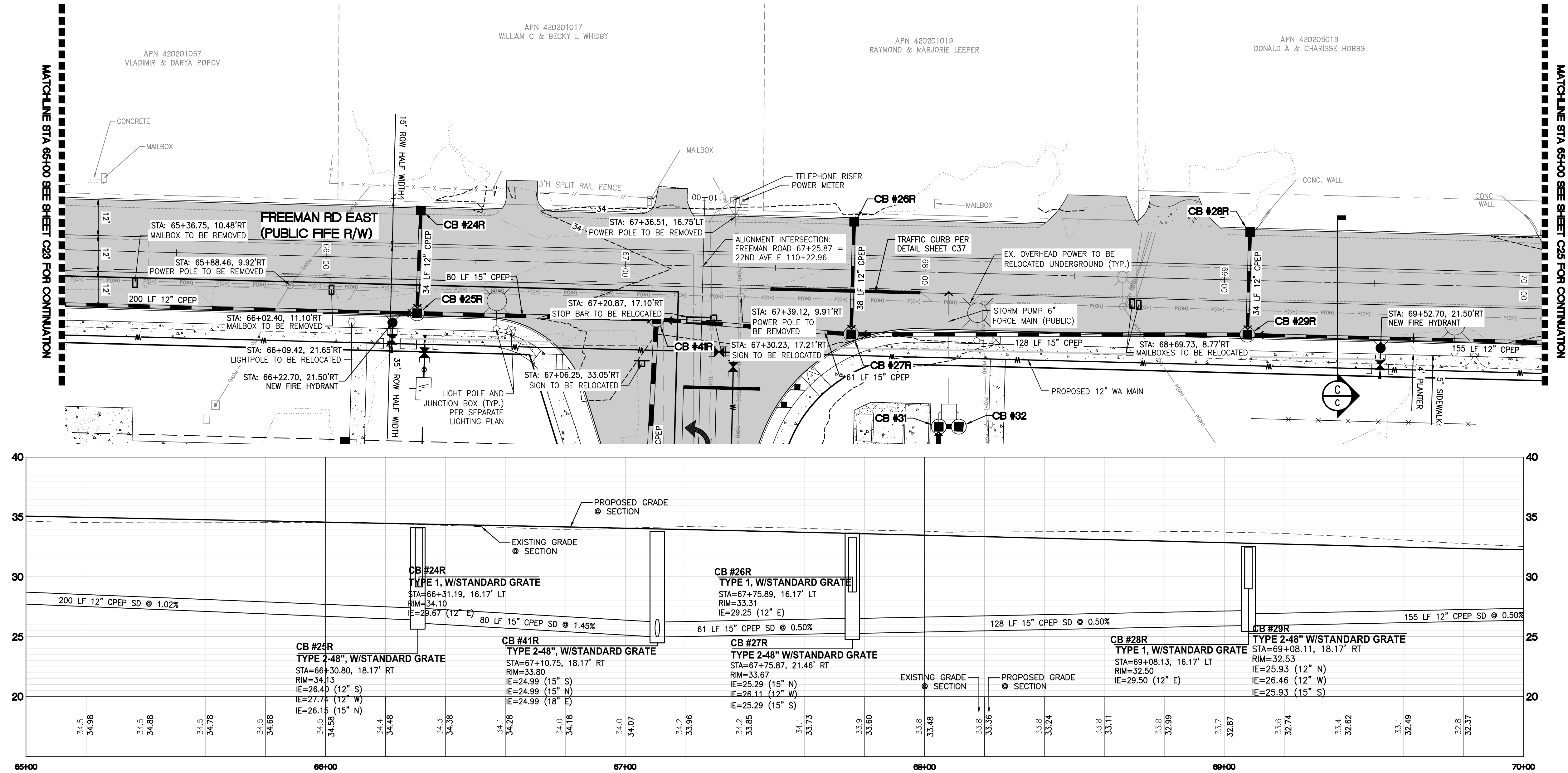
Job Number
21585
Sheet



PRELIMINARY ROAD IMPROVEMENTS STA 65+00 TO 70+00

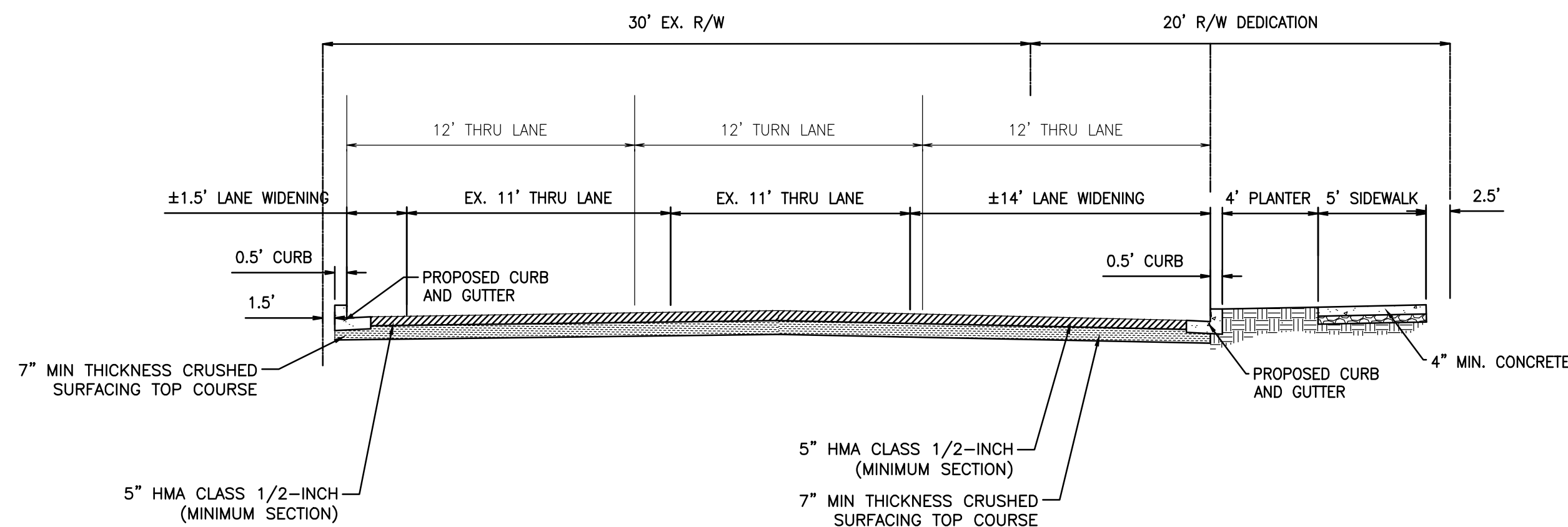
OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



FREEMAN ROAD EAST & STA: 65+00 TO 70+00

SCALE: HORIZ. 1"=20' VERT. 1"=5'

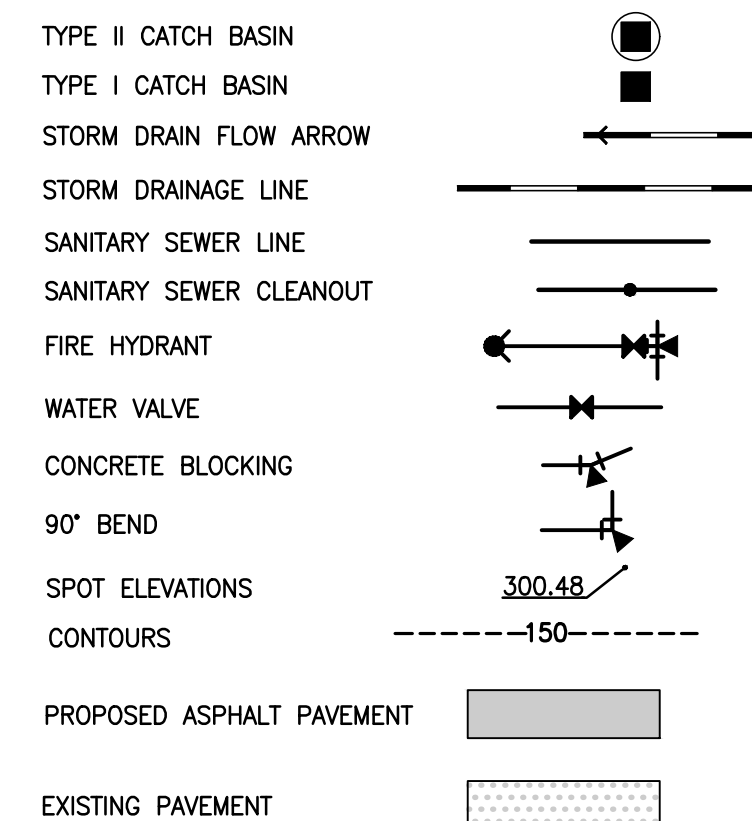


FREEMAN ROAD EAST SECTION C

NOT TO SCALE

FRONTAGE LEGEND:

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)



| ENGINEER'S REVIEW | |
|---|------|
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| <input type="checkbox"/> APPROVED AS CORRECTED | |
| <input type="checkbox"/> REVISE AND RESUBMIT | |
| <input type="checkbox"/> REJECTED | |
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| BY | DATE |

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PRELIMINARY ROAD IMPROVEMENTS
STA 65+00 TO 70+00
FOR
FREEMAN LOGISTICS

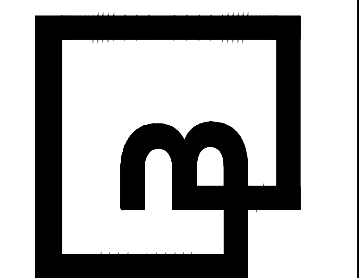
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



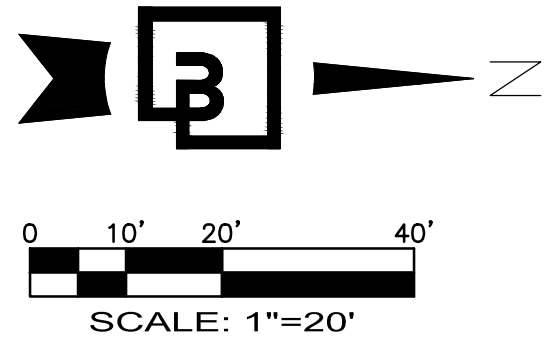
Scale:
Horizontal 1"=20'
Vertical 1"=5'

Designed: JSM
Drawn: JSM
Checked: JSM
Approved: JSM
Date: 12/20/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



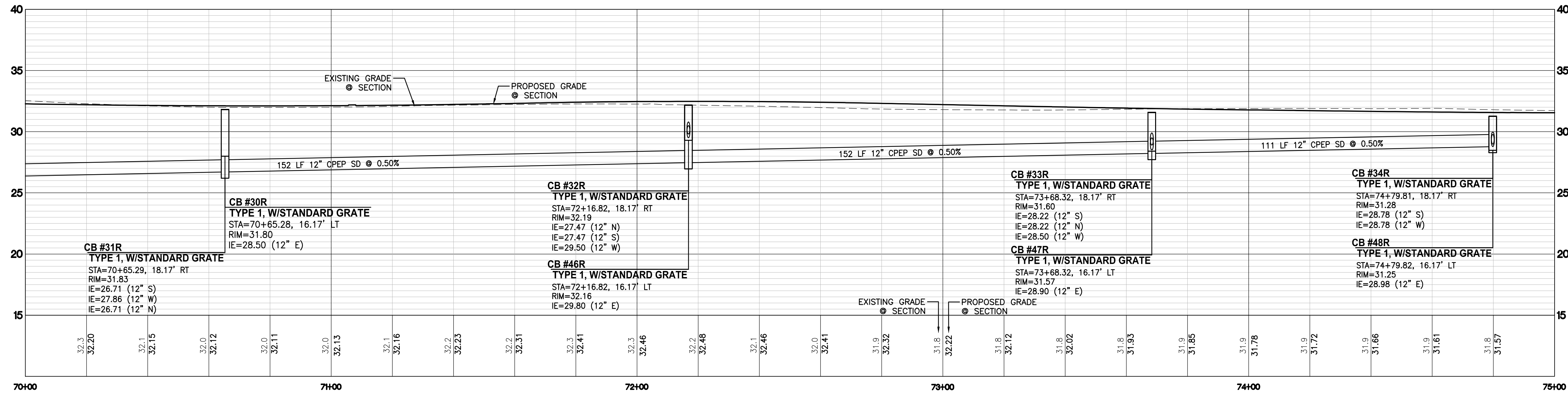
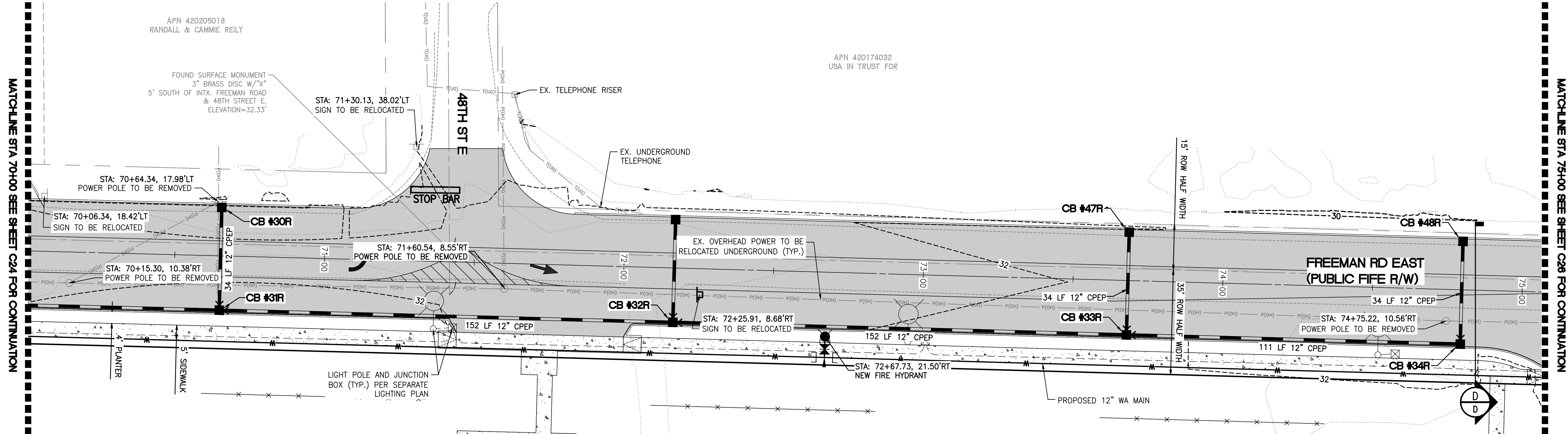
Job Number: 21585
Sheet: C24 of 44



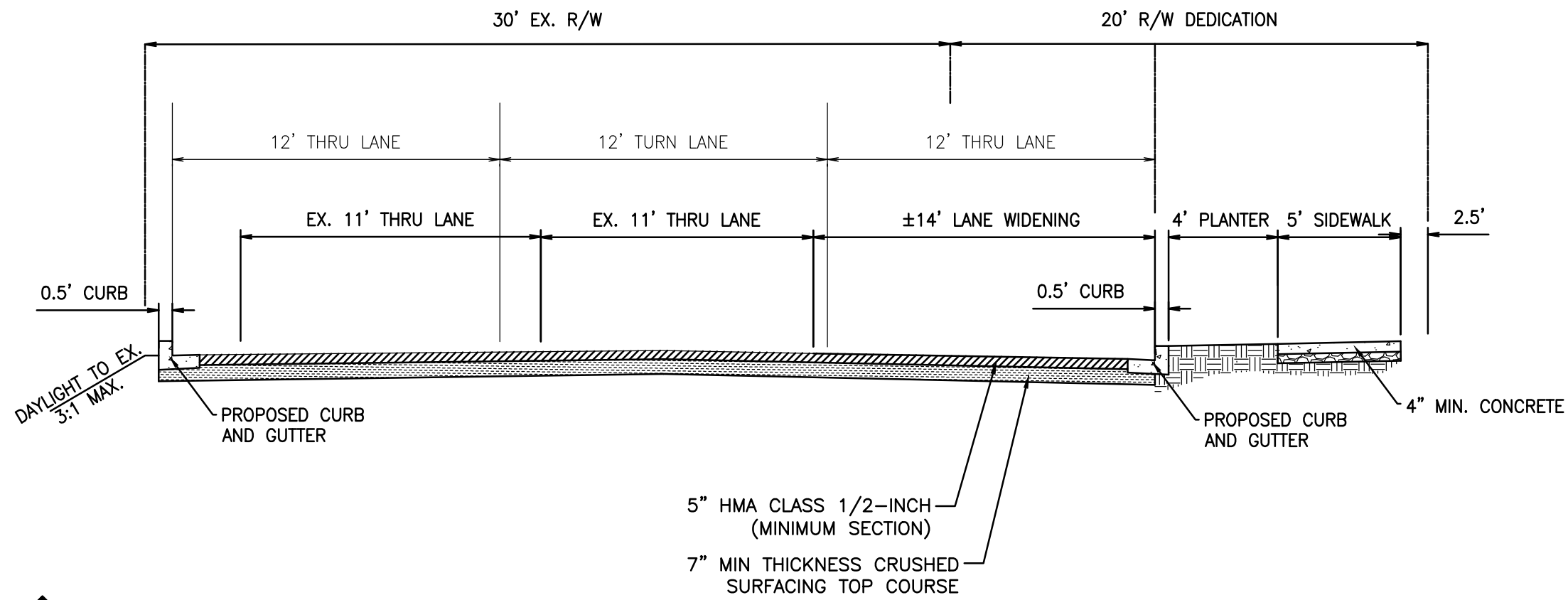
PRELIMINARY ROAD IMPROVEMENTS STA 70+00 TO 75+00

OF
FREEMAN LOGISTICS

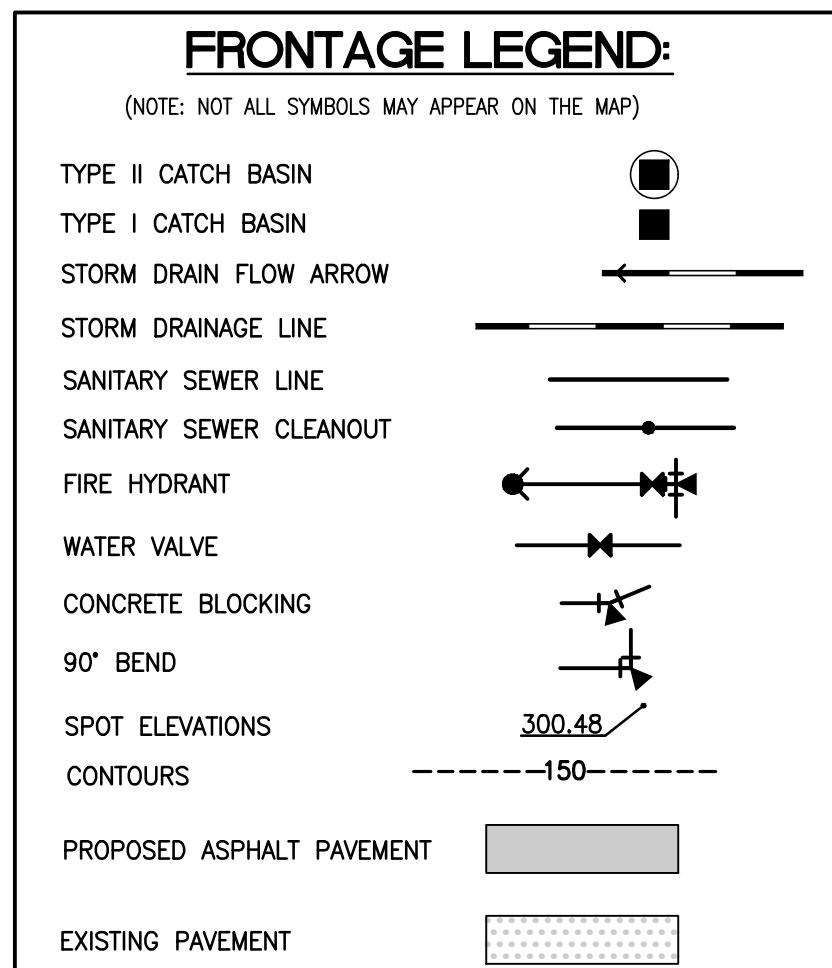
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



FREEMAN ROAD EAST @ STA: 70+00 TO 75+00
SCALE: HORIZ. 1"=20' VERT. 1"=5'



FREEMAN ROAD EAST SECTION D
NOT TO SCALE



| ENGINEER'S REVIEW | |
|---|------|
| <input type="checkbox"/> APPROVED | |
| <input type="checkbox"/> APPROVED AS CORRECTED | |
| <input type="checkbox"/> REVISE AND RESUBMIT | |
| <input type="checkbox"/> REJECTED | |
| <input type="checkbox"/> FOR INFORMATION ONLY | |
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| BY | DATE |

CALL BEFORE YOU DIG:
1-800-424-5555

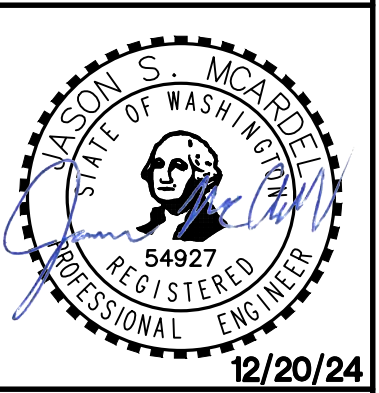
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| Revision | |
|----------|----------|
| No. | Date |
| 5 | 12/13/24 |

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| SEP | APR | CTD | JSM | JSM | DTC |
|-----|-----|-----|-----|-----|-----|

Title:
PRELIMINARY ROAD IMPROVEMENTS
STA 70+00 TO 75+00
FOR
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



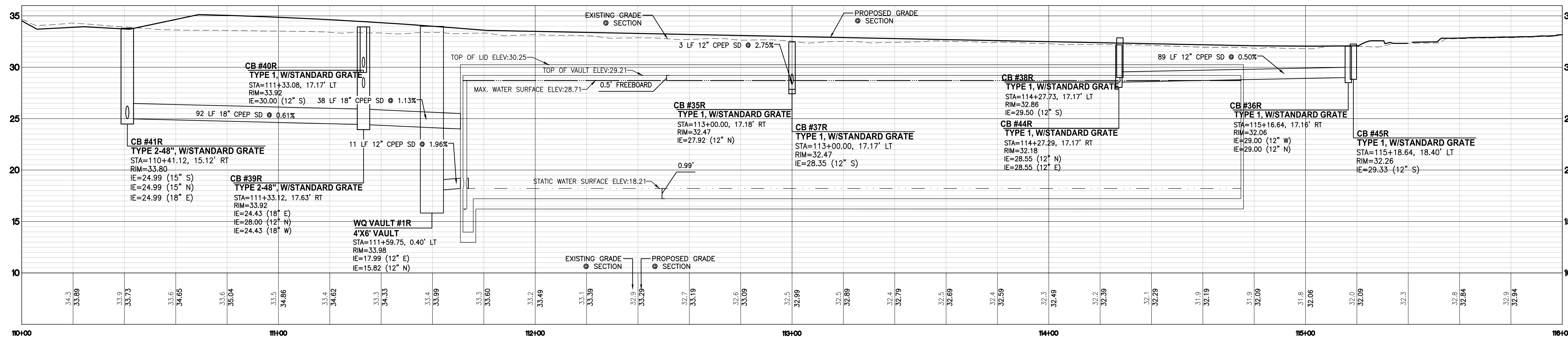
| | | |
|----------|------------|----------|
| Scale: | Horizontal | Vertical |
| | 1"=20' | 1"=5' |
| Designed | JSM | |
| Drawn | DTC | |
| Checked | JSM | |
| Approved | JSM | |
| Date | 12/20/24 | |

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number
21585

Sheet
C25 of 44

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



36' PUBLIC ROADWAY COMMERCIAL COLLECTOR CROSS SECTION

DETAILS:

- 1. MAXIMUM CENTERLINE AND FLOWLINE GRADES FOR ALL STREETS SHALL BE 0.5%.
- 2. MATCH EXISTING PAVEMENT THICKNESS IF GREATER THAN 4".

NOTES:

- ALL DEPTHS ARE MINIMUM COMPACTION DEPTHS.
- SUBGRADE PREPARATION SHALL MEET THE REQUIREMENTS OF WOOT STANDARD SPEC. 2-06.3(1). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, REQUIREMENTS AND CONTROL ALL WORK.
- IF THE CITY OF PUYALLUP HAS THE RIGHT TO REQUIRE COMPLIANCE TESTS AT THE CONTRACTOR'S EXPENSE.
- SUBGRADE MATERIAL SHALL BE GRAVEL BORROW MEETING THE REQUIREMENTS OF WOOT STANDARD SPEC. 9-03.1(4) OR CRUSHED BALLAST MEETING THE REQUIREMENTS OF WOOT STANDARD SPEC. 9-03.1(5). CRUSHED SURFACING SHALL MEET THE GRADATION REQUIREMENTS OF WOOT STANDARD SPEC. 9-03.6(3). THE SUBGRADE AND BASE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH WOOT STANDARD SPEC. 1-04.
- SOIL STABILIZATION FABRIC MAY BE REQUIRED BY THE DEVELOPMENT REVIEW ENGINEER TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE MATERIAL WHEN REQUIRED, THE CONTRACTOR SHALL PLACE GEOTEXTILE FABRIC OVER THE PREPARED SUBGRADE WITH A 2' FOOT MINIMUM OVERLAP.
- THE FABRIC SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
- ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH WOOT STANDARD SPEC. 3-04. DESIGN ENGINEER SHALL SUBMIT A STATE APPROVED HMA MIX FOR APPROVAL.
- TEMPERATURE SHALL NOT EXCEED 322°F AT THE TIME OF PLACEMENT.
- THE MAXIMUM COMPACTED THICKNESS OF ANY SINGLE LIFT SHALL MEET WOOT STANDARD SPEC. 5-04.3(9) TO A MINIMUM AVERAGE COMPACTED THICKNESS OF 0.11 IN/IN.
- THE DENSITY AS DETERMINED BY WOOT TEST METHOD 2-04.3(1) SHALL BE 98% MINIMUM.
- PERIODIC COMPLIANCE TESTS SHALL BE MADE BY A CERTIFIED TESTING AGENCY AT THE EXPENSE OF THE CONTRACTOR.

TABLE OF MATERIALS:

| TYPE OF STREET | * MAXIMUM CENTERLINE GRADE | MINIMUM ROW WIDTH | MINIMUM ROADWAY WIDTH | * MINIMUM PAVEMENT THICKNESS |
|-----------------------|----------------------------|-------------------|-----------------------|------------------------------|
| COMMERCIAL COLLECTORS | 1/8" | 60' | 36' | 4" |

UTILITY CONFLICT NOTE:
CAUTION:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE # 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION IF CONDITIONS SHOULD OCCUR. THE CONTRACTOR SHALL CONSULT BARGAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____


NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

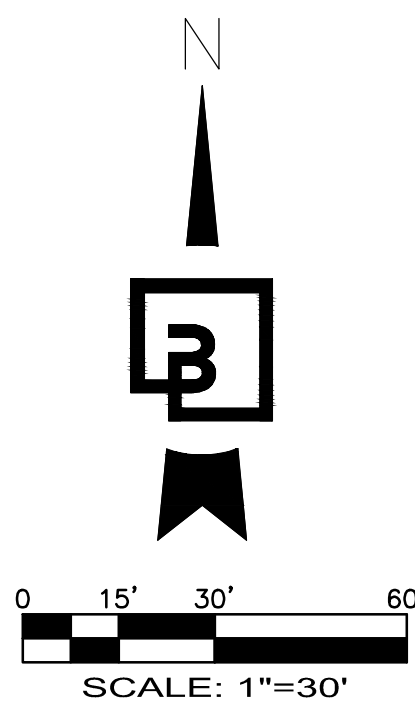


| | | |
|----------|----------|---|
| Designed | _____JSM | Scale: Horizontal 1"=20' Vertical 1"=5' |
| Drawn | _____DTC | |
| Checked | _____JSM | |
| Approved | _____JSM | |

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585
Sheet
C27 of 44

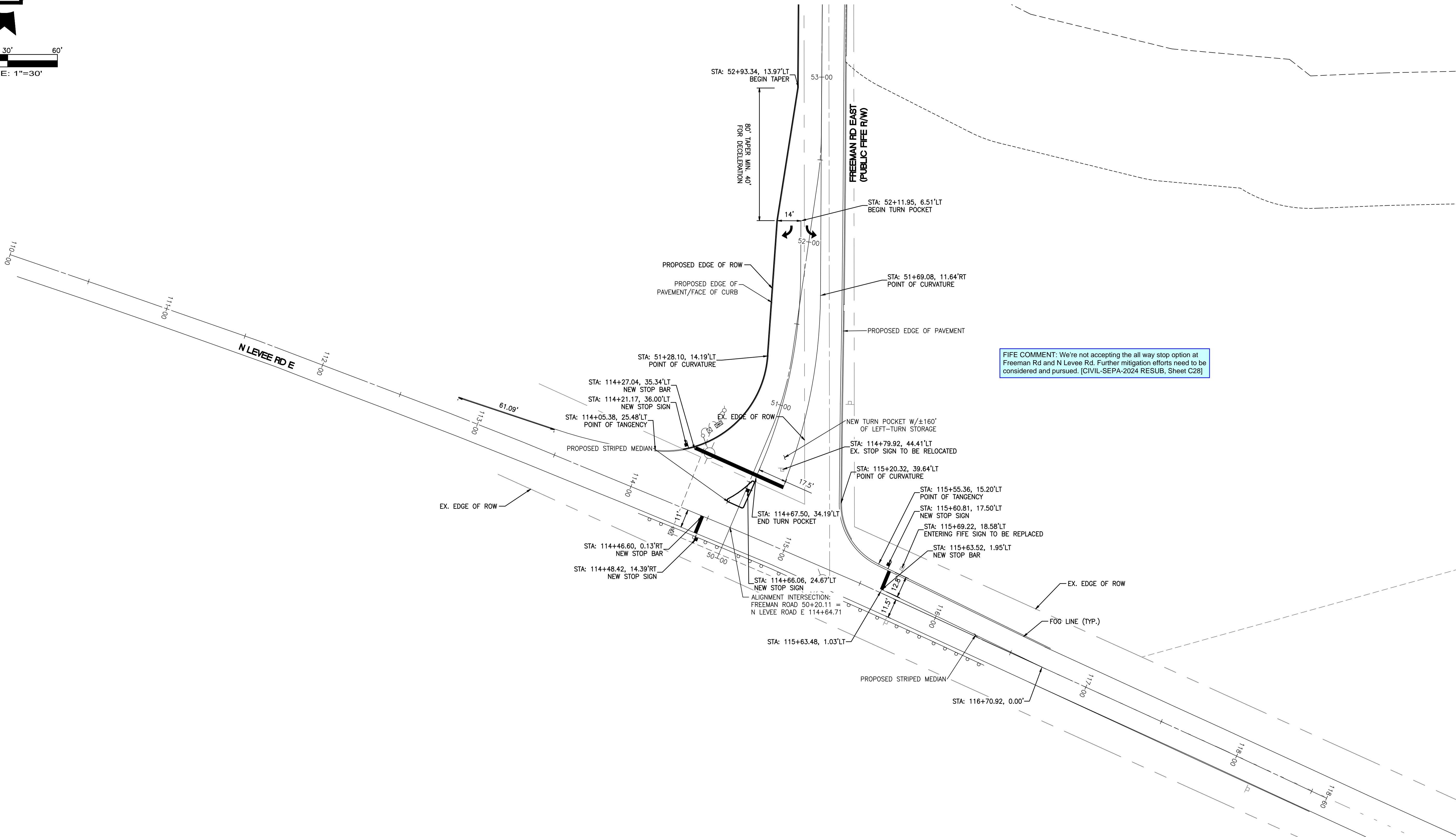


PRELIMINARY CHANNELIZATION AND SIGNAGE PLAN

OF

FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



CALL BEFORE YOU DIG:
1-800-424-5555

UTILITY CONFLICT NOTE:

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ENGINEER'S REVIEW
☐ APPROVED
☐ APPROVED AS CORRECTED
☐ REVISE AND RESUBMIT
☐ REJECTED
☐ FOR INFORMATION ONLY



THE CITY'S REVIEW IS NOT A CONFIRMATION OF ANY DIMENSION OR QUANTITIES SHOWN IN THE PLANS AND WILL NOT RELIEVE THE DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR PLANS ERRORS. NO CHANGES SHALL BE MADE TO THE PLANS EXCEPT WITH THE CONSENT OF THE CITY ENGINEER. IF CONSTRUCTION HAS NOT COMMENCED WITHIN A REASONABLE PERIOD OF THE APPROVAL DATE, PLANS WILL REQUIRE RE-APPROVAL BY THE CITY.

BY _____ DATE _____

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Revision
5 12/13/24 DTC JSM JSM Appr.
No. Date By Cdd.

SEPA RESUBMITTAL

**PRELIMINARY CHANNELIZATION AND
SIGNAGE PLAN
FOR
FREEMAN LOGISTICS**

**For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034**

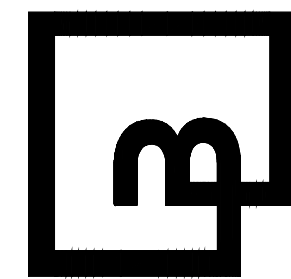


12/20/24

Scale:
Horizontal 1"=30'
Vertical N/A

Designed JSM
Drawn DTC
Checked JSM
Approved JSM
Date 12/20/24

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

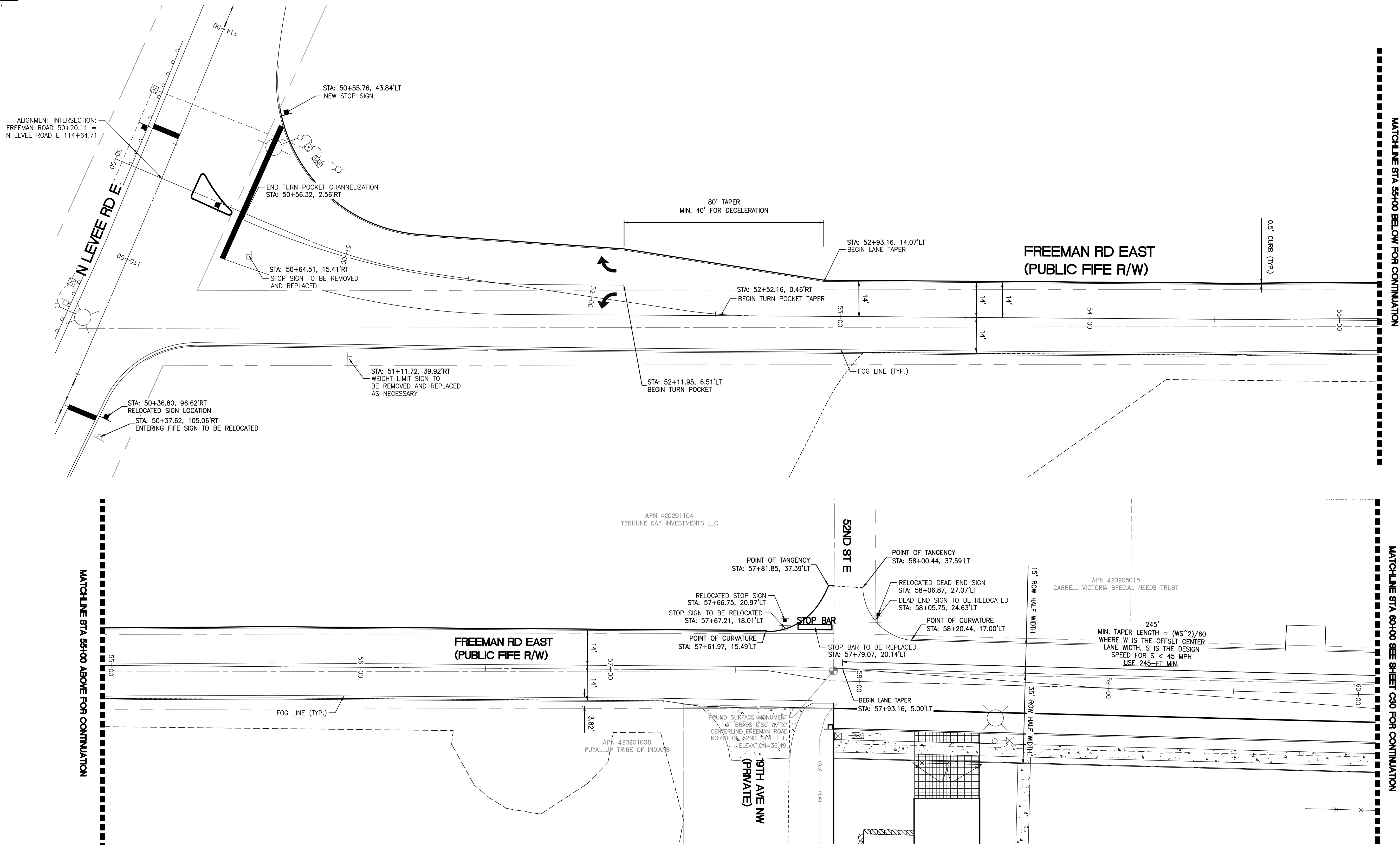
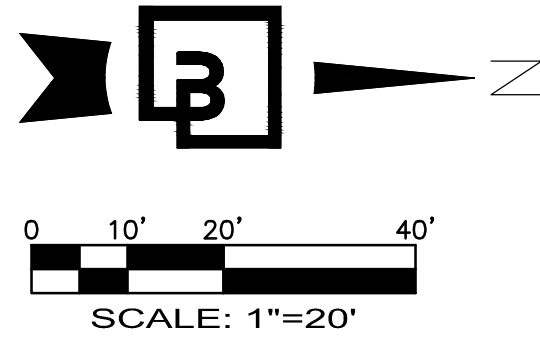


Job Number
21585

Sheet
C28 of **44**

PRELIMINARY CHANNELIZATION AND SIGNAGE PLAN STA 50+00 TO 60+00

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



CALL BEFORE YOU DIG:
1-800-424-5555

UTILITY CONFLICT NOTE:

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☐ REVISE AND RESUBMIT
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BY: DATE:

Revision
5 12/13/24 DTC JSM JSM SEPA RESUBMITTAL

Title:
PRELIMINARY CHANNELIZATION AND
SIGNAGE PLAN STA 50+00 TO 60+00
FOR
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

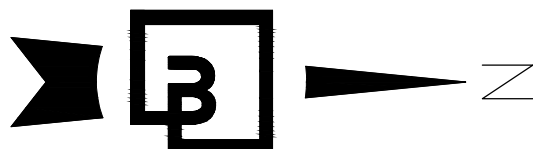


Scale:
Horizontal 1"=20'
Vertical N/A
Designed JSM
Drawn DTC
Checked JSM
Approved JSM
Date 12/20/24

Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

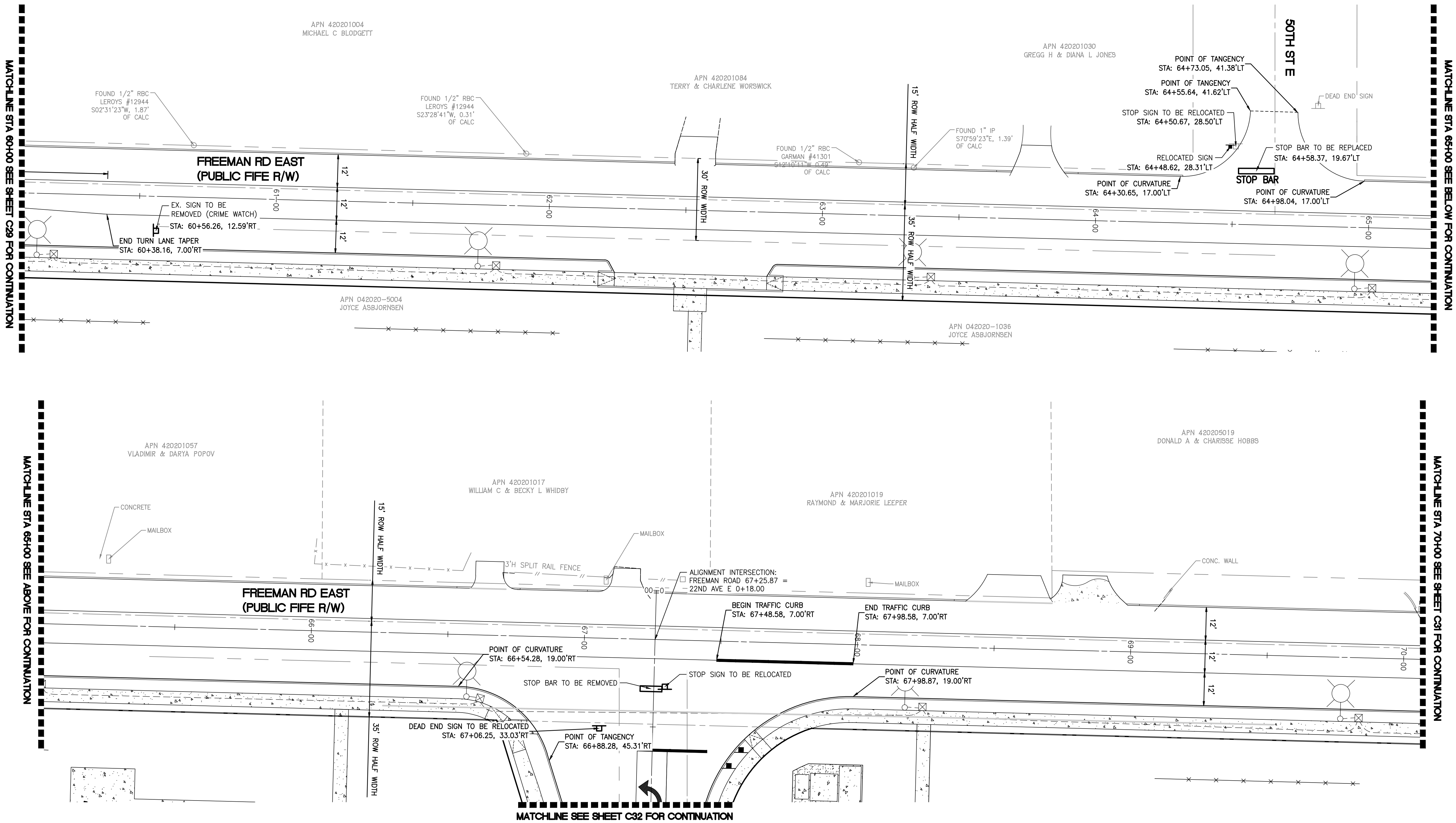
Job Number
21585
Sheet
C29 of 44

PRELIMINARY CHANNELIZATION AND SIGNAGE PLAN STA 60+00 TO 70+00



SCALE: 1"=20'

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



CALL BEFORE YOU DIG:
1-800-424-5555

UTILITY CONFLICT NOTE:

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☐ APPROVED AS CORRECTED
☐ REVISE AND RESUBMIT
☐ REJECTED
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BY _____ DATE _____

| Revision | | | | |
|----------|----------|-----|-------|------------------|
| No. | Date | By | Appr. | SEP/ RESUBMITTAL |
| 5 | 12/13/24 | DTC | JSM | JSM |

Title:
PRELIMINARY CHANNELIZATION AND
SIGNAGE PLAN STA 60+00 TO 70+00
FOR
FREEMAN LOGISTICS

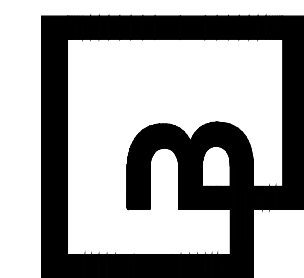
For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



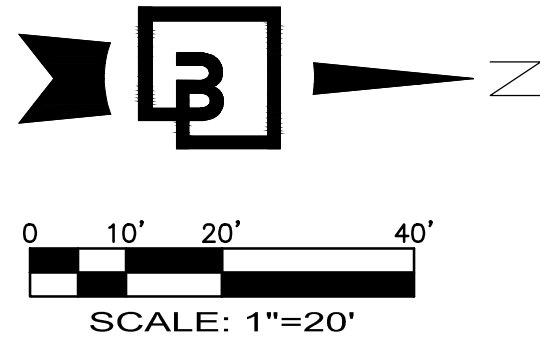
12/20/24

| Scale: | | Horizontal | | Vertical | |
|----------|-----|------------|-----|----------|----------|
| Designed | JSM | Drawn | DTC | Checked | JSM |
| Approved | JSM | Approved | JSM | Date | 12/20/24 |

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

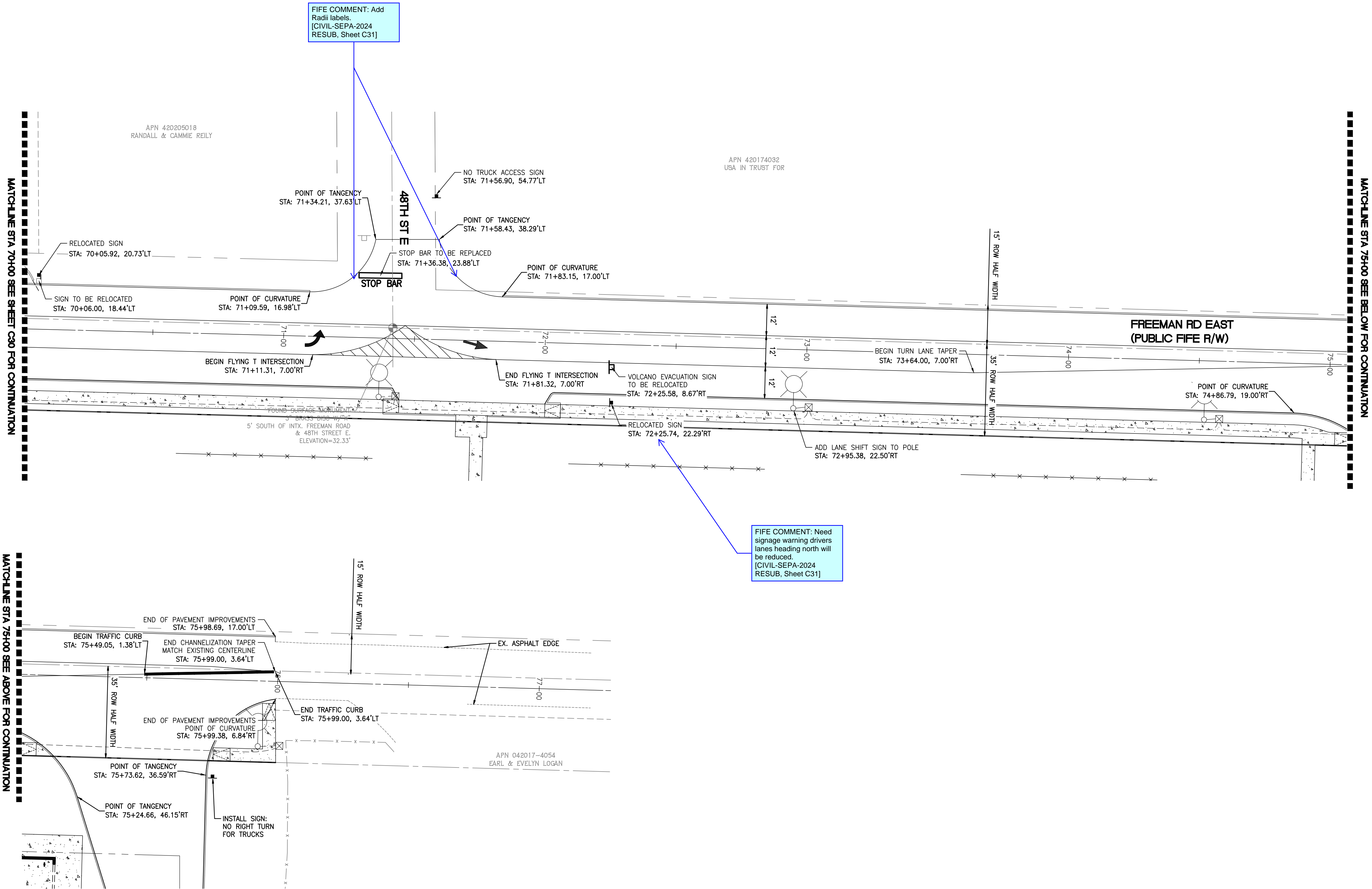


Job Number
21585
Sheet
C30 of **44**



PRELIMINARY CHANNELIZATION AND SIGNAGE PLAN STA 70+00 TO 77+20

OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



CALL BEFORE YOU DIG:
1-800-424-5555

UTILITY CONFLICT NOTE:

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ENGINEER'S REVIEW
☐ APPROVED
☐ APPROVED AS CORRECTED
☐ REVISE AND RESUBMIT
☐ REJECTED
☐ FOR INFORMATION ONLY



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BY: DATE:

Revision
5 12/13/24 DTC JSM JSM Appr.
SEPA RESUBMITTAL

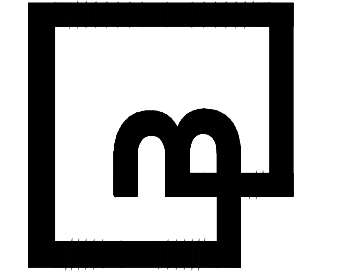
Title:
PRELIMINARY CHANNELIZATION AND
SIGNAGE PLAN STA 70+00 TO 77+20
FOR
FREEMAN LOGISTICS

For:
VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:
Horizontal 1"=20'
Vertical N/A
Designed JSM
Drawn DTC
Checked JSM
Approved JSM
Date 12/20/24

Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

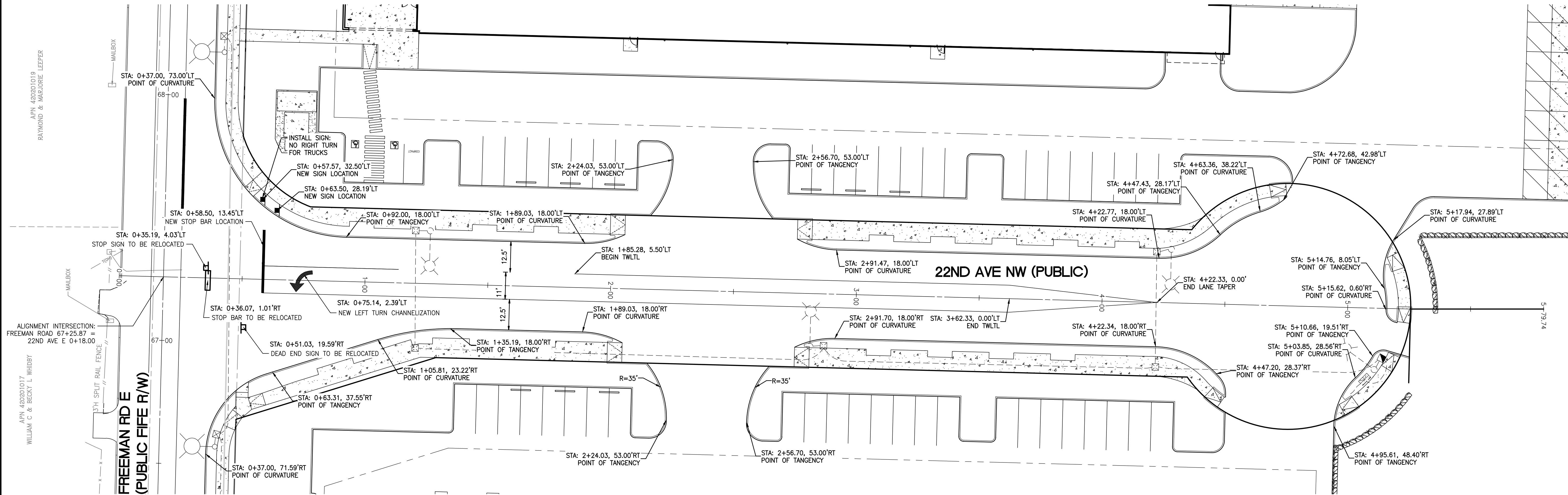
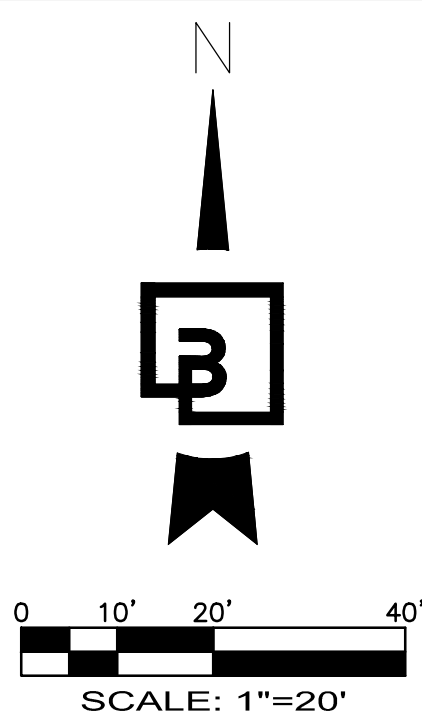


Job Number
21585
Sheet
C31 of 44

PRELIMINARY CHANNELIZATION AND SIGNAGE PLAN 22ND AVE NW

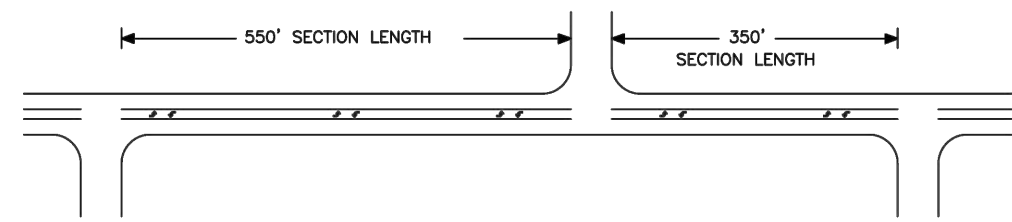
OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

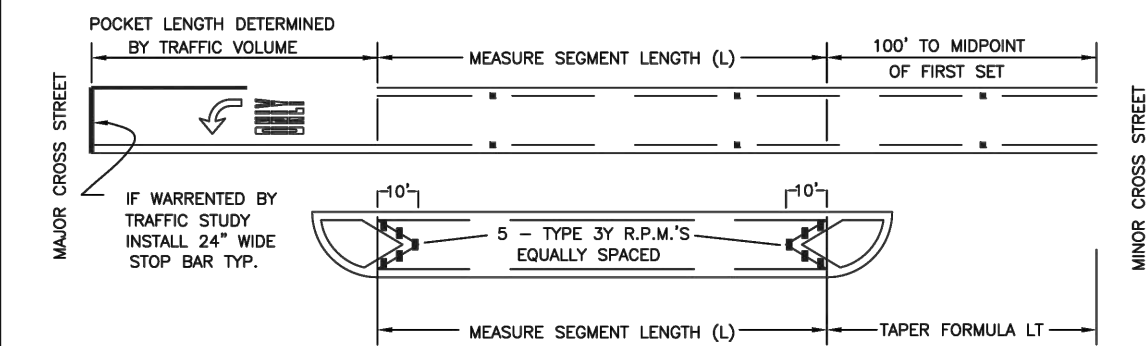


| LENGTH | NUMBER OF ARROW SETS | LOCATION OF ARROW SET(S) |
|---------------|-------------------------|--|
| 0' - 100' | 0 | |
| 101' - 300' | 1 | |
| 301' - 500' | 2 | |
| 501' - 850' | 3 | |
| 851' - 1200' | 4 | |
| 1201' - 1750' | 5 | * SPACE BALANCE OF SETS EVENLY OVER REMAINDER OF SEGMENT. |
| OVER 1750' | $\frac{L-100}{300}$ | ROUND TO NEAREST WHOLE NUMBER |

EXAMPLE:

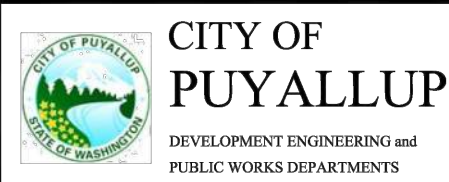
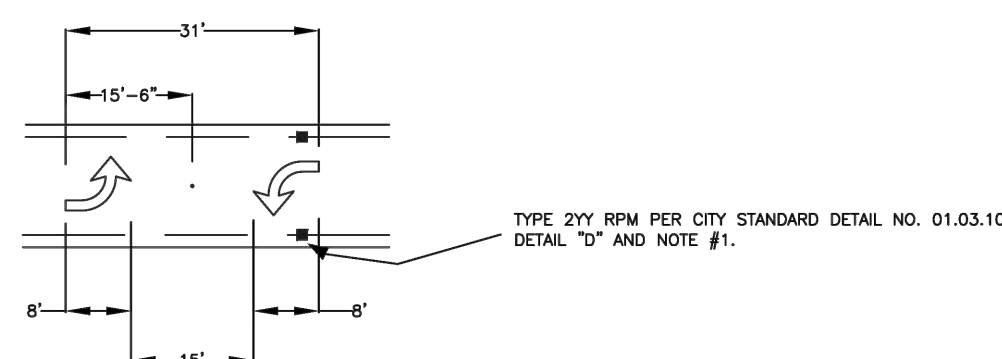


- NOTES:
1. STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.
 2. SECTION LENGTHS ARE DETERMINED BY INTERSECTION PLACEMENTS, WHICH ARE VARIABLE.



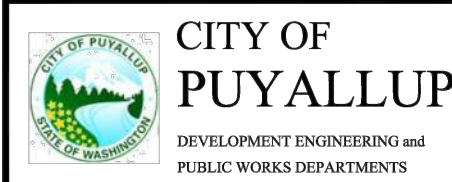
LT=WS (45 MPH OR MORE)
LT=WS²/60 (0 TO 45 MPH)
WHERE: S=POSTED SPEED MPH
LT=LENGTH OF TAPER IN FEET
W=OFFSET IN FEET

SCALE: 1:40



TWO-WAY LEFT TURN
CHANNELIZATION (CONT.)

| | | | |
|---------------------------|--------------------------|---------------------------|------------------|
| DESIGNED BY BARGHAUSEN | CHECKED BY BARGHAUSEN | APPROVED BY BARGHAUSEN | DATE 01.03.08 |
|---------------------------|--------------------------|---------------------------|------------------|



TWO-WAY LEFT TURN
CHANNELIZATION

| | | | |
|---------------------------|--------------------------|---------------------------|------------------|
| DESIGNED BY BARGHAUSEN | CHECKED BY BARGHAUSEN | APPROVED BY BARGHAUSEN | DATE 01.03.07 |
|---------------------------|--------------------------|---------------------------|------------------|

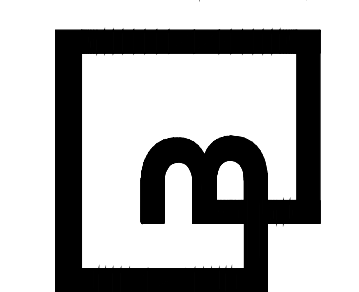
PRELIMINARY CHANNELIZATION AND
SIGNAGE PLAN 22ND AVE NW
FOR
FREEMAN LOGISTICS

VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



| | | |
|----------|----------------------|-----------------|
| Scale: | Horizontal 1"=20' | Vertical N/A |
| Designed | JSM | |
| Drawn | DTC | |
| Checked | JSM | |
| Approved | JSM | |
| Date | 12/20/24 | |

Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585
Sheet
C32 of 44

CALL BEFORE YOU DIG:
1-800-424-5555

APPROVED

BY _____
CITY OF PUYYALLUP
DEVELOPMENT ENGINEERING
DATE _____

UTILITY CONFLICT NOTE:

CAUTION:
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PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS") WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE SUPERVISION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

ROADWAY NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT DEVELOPER'S EXPENSE.
8. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. LAND BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.
9. CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.
10. SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.
11. THE SURROUNDING GROUND (5 FEET ABOVE THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.
12. SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.
14. NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURE OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP, PRIOR TO ANY WORK COMMENCING. THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL. MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02 AND 06.01.03. THE COVER SHALL BE MARKED WITH "STORM OR DRAIN" IN 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.
11. CATCH BASINS TYPE 1 SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-2 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). FLANGED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-2A (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE OR DUCTILE IRON PIPE.
 - A. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - B. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - C. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE PIPE, UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - D. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - E. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2366 AND ASHOTO M330. TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND ASHOTO M330. TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3- FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE VIDEO INSPECTED BY THE CITY OF PUYALLUP COLLECTIONS DIVISION PRIOR TO FINAL ACCEPTANCE BY THE CITY.
18. AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL STORM PIPE SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-04.3(4)D OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
19. ALL STORM DRAIN MAINS SHALL BE MANDEILLED.
20. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

WATER SYSTEM NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP, PRIOR TO ANY WORK COMMENCING. THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR.

WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.

10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.

11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6 INCH TAP ON 8 INCH PIPE. THE CITY OR FMWC, VW OR TOW WHEN SERVED BY THAT PURVEYOR SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.

12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH CITY STANDARDS. PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.

13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.

14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.

15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.

16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.

17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.

18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.

19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.

20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TOW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01 AND 03.04.02-1, 03.04.02-2 AND 03.04.03.

21. ANY LEAD JOINT FITTING DISCOVERED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.

22. WHEN HYDRAULIC FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.

23. WHEN FILLING A NEW WATER MAIN FOR PURITY WITH HIGHLY CONCENTRATED CHLORINE WATER, THAT "SUPER CHLORINATED WATER" CANNOT SIT INSIDE THE NEW WATER MAIN FOR GREATER THAN 5 DAYS.

24. WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.

SANITARY SEWER NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL 811 AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.

8. MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.

9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).

10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034; SDR30.5 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18"- TO 27-INCH; DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER UNLESS OTHERWISE NOTED, 12-INCH THROUGH 30"-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2736. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE TRIPLE WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417, TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.

11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NOS. 06.01.02 AND 6.1. COVERS SHALL BE MARKED "SEWER" WITH 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.

12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHANNLED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.04.

13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.

14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
15. ALL PUBLIC SANITARY SEWER MAINS SHALL BE VIDEO INSPECTED PRIOR TO ACCEPTANCE BY THE CITY OF PUTAYALLUP WATER COLLECTION DIVISION.
16. AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL SANITARY PIPES SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-17 OF THE "STANDARD SPECIFICATIONS". PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.
17. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
18. ALL SANITARY SEWER MAINS SHALL BE MANDRELLED.

1. ALL WORK IN CITY RIGHT-OF-WAY WHICH REQUIRES A PERMIT FROM THE CITY OF PUYALLUP, PRIOR TO WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE EXISTING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
8. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
9. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SITUATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
10. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL. ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
11. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR. IN QUESTION, GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER OTHERWISE, SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
12. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

EXPPOSED AREAS AND SOIL STOCKPILES MUST BE STABILIZED ACCORDING TO THE FOLLOWING SCHEDULE:

1. FROM APRIL 1 TO OCTOBER 31 ALL DISTURBED AREAS AT FINAL GRADE AND ALL EXPOSED AREAS THAT ARE SCHEDULED TO REMAIN UNWORKED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITHIN 10 DAYS.
2. FROM NOVEMBER 1 TO MARCH 31 ALL EXPOSED SOILS AT FINAL GRADE SHALL BE STABILIZED IMMEDIATELY USING PERMANENT OR TEMPORARY MEASURES. EXPOSED SOILS WITH AN AREA GREATER THAN 5,000 SQUARE FEET THAT ARE SCHEDULED TO REMAIN UNWORKED FOR MORE THAN 24 HOURS AND EXPOSED AREAS OF LESS THAN 5,000 SQUARE FEET THAT WILL REMAIN UNWORKED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED IMMEDIATELY.

ALL DISTURBED AREAS WHICH ARE NOT PLANNED TO BE CONSTRUCTED ON WITHIN 90 DAYS FROM TIME OF CLEARING AND GRADING SHALL BE REVEGETATED WITH THE NATIVE VEGETATION.

APPROVED

BY _____

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

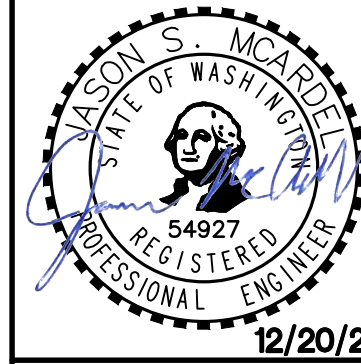
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Revision

Title:

For: VECTOR DEVELOPMENT COMPANY



12/20/24

Scale:

JSM

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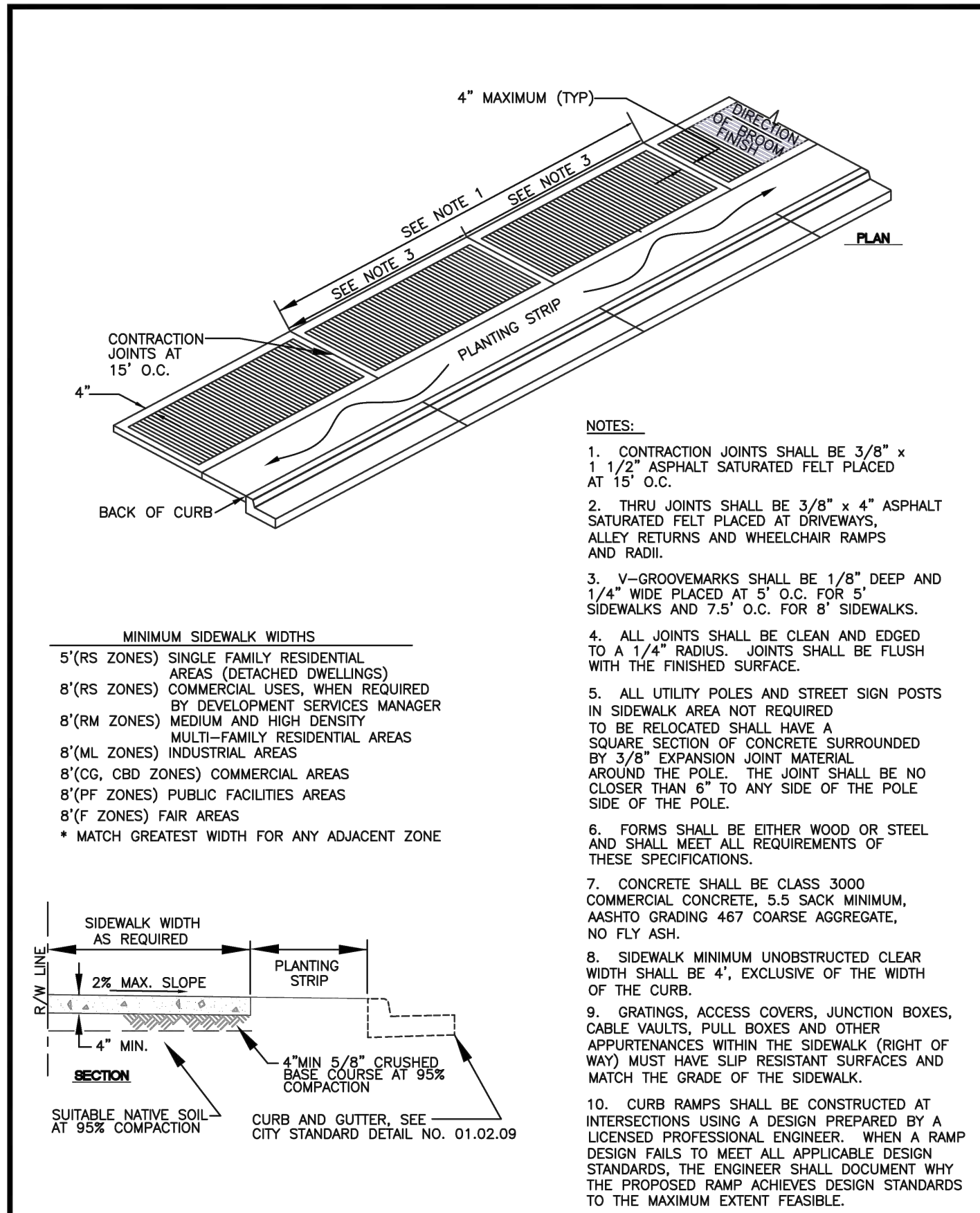
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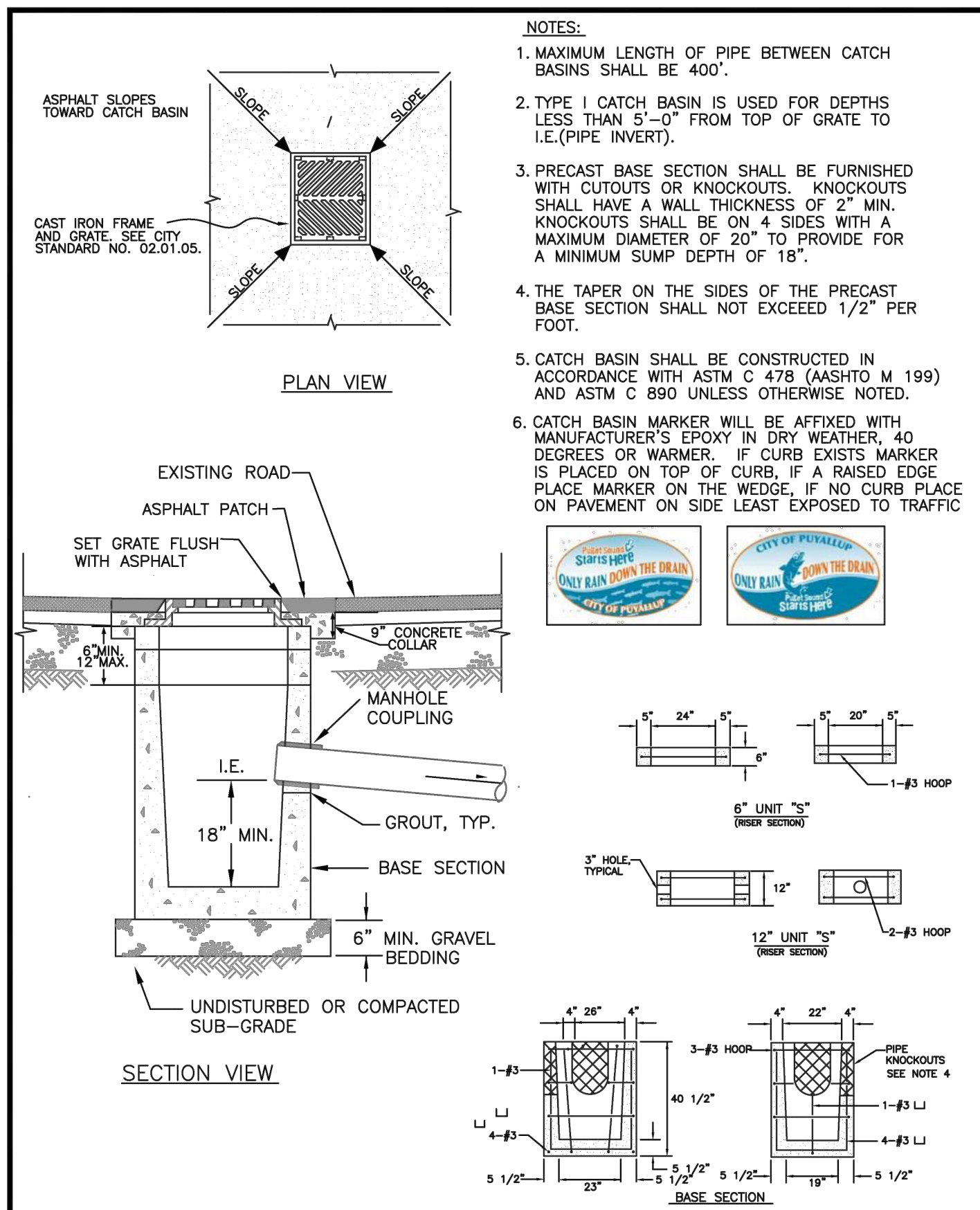
KIRKLAND, WA 98034

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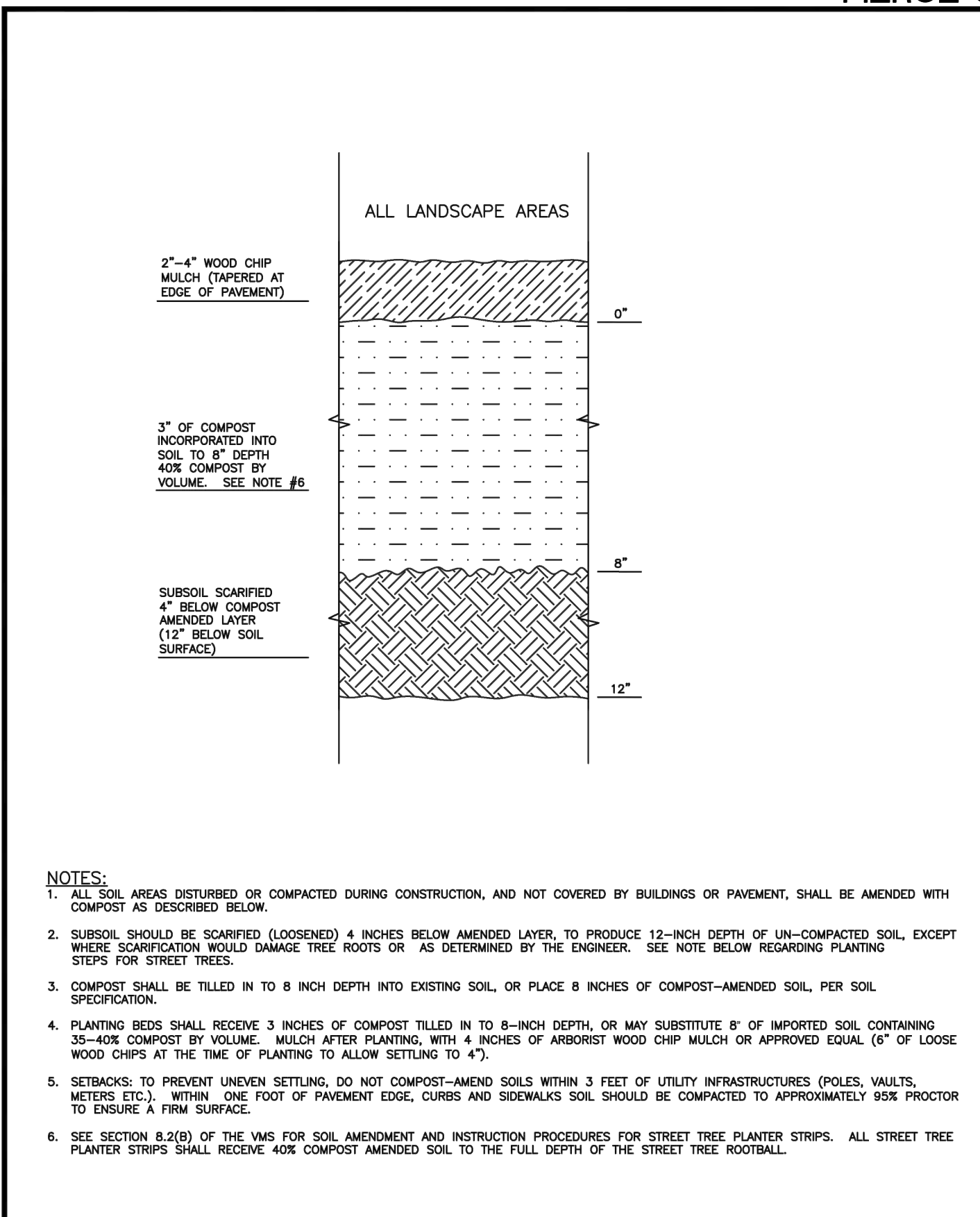
PRELIMINARY CONSTRUCTION DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



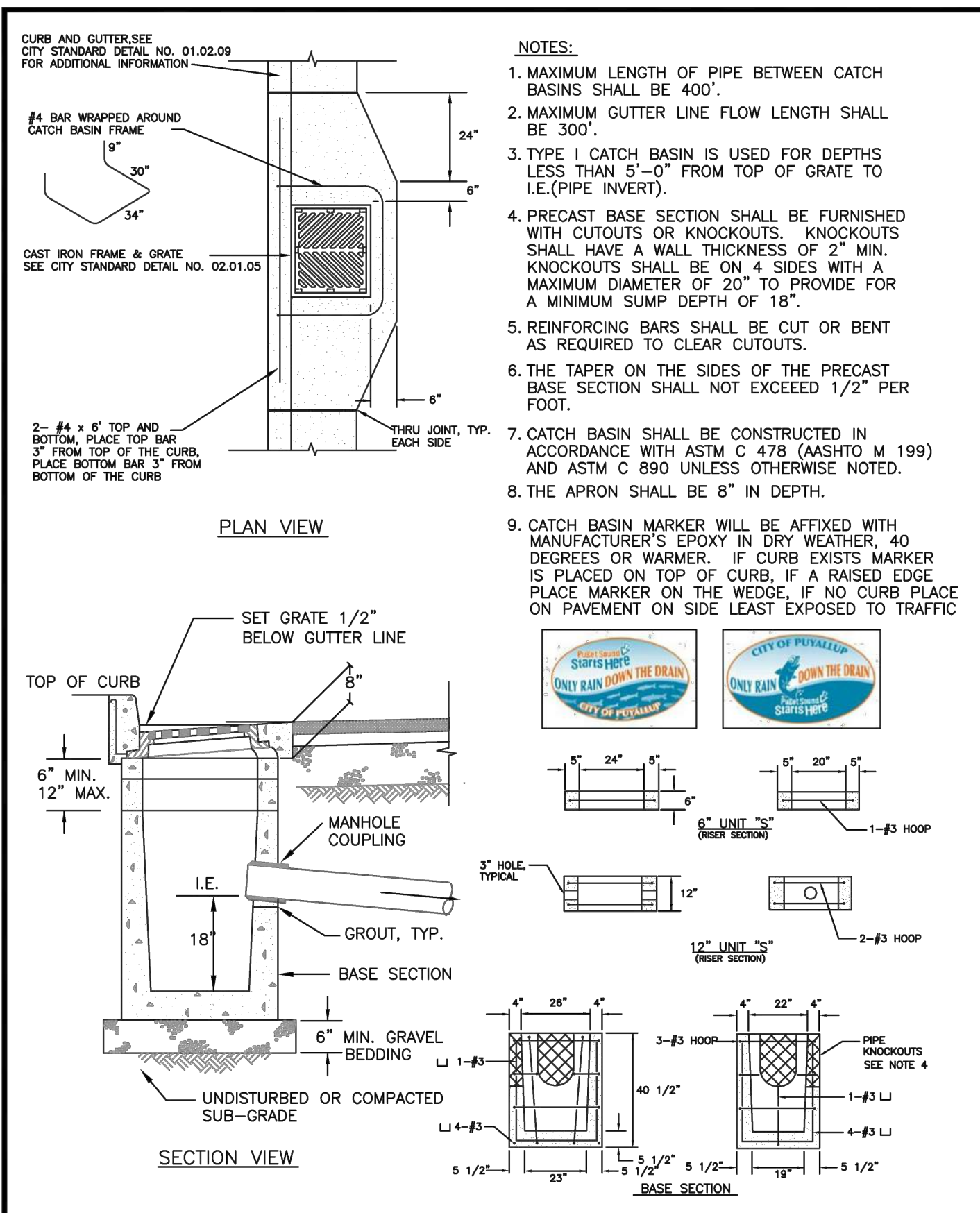
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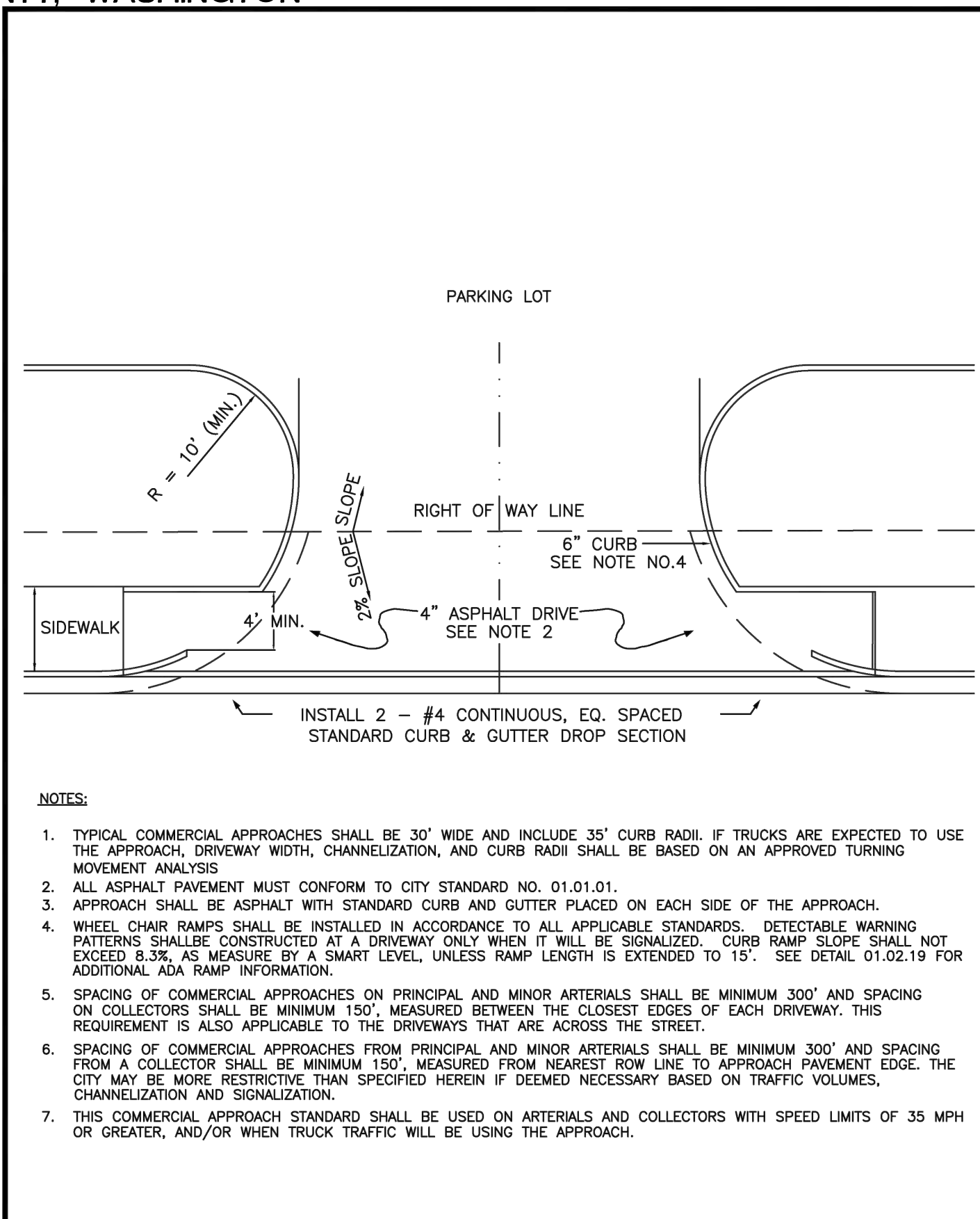
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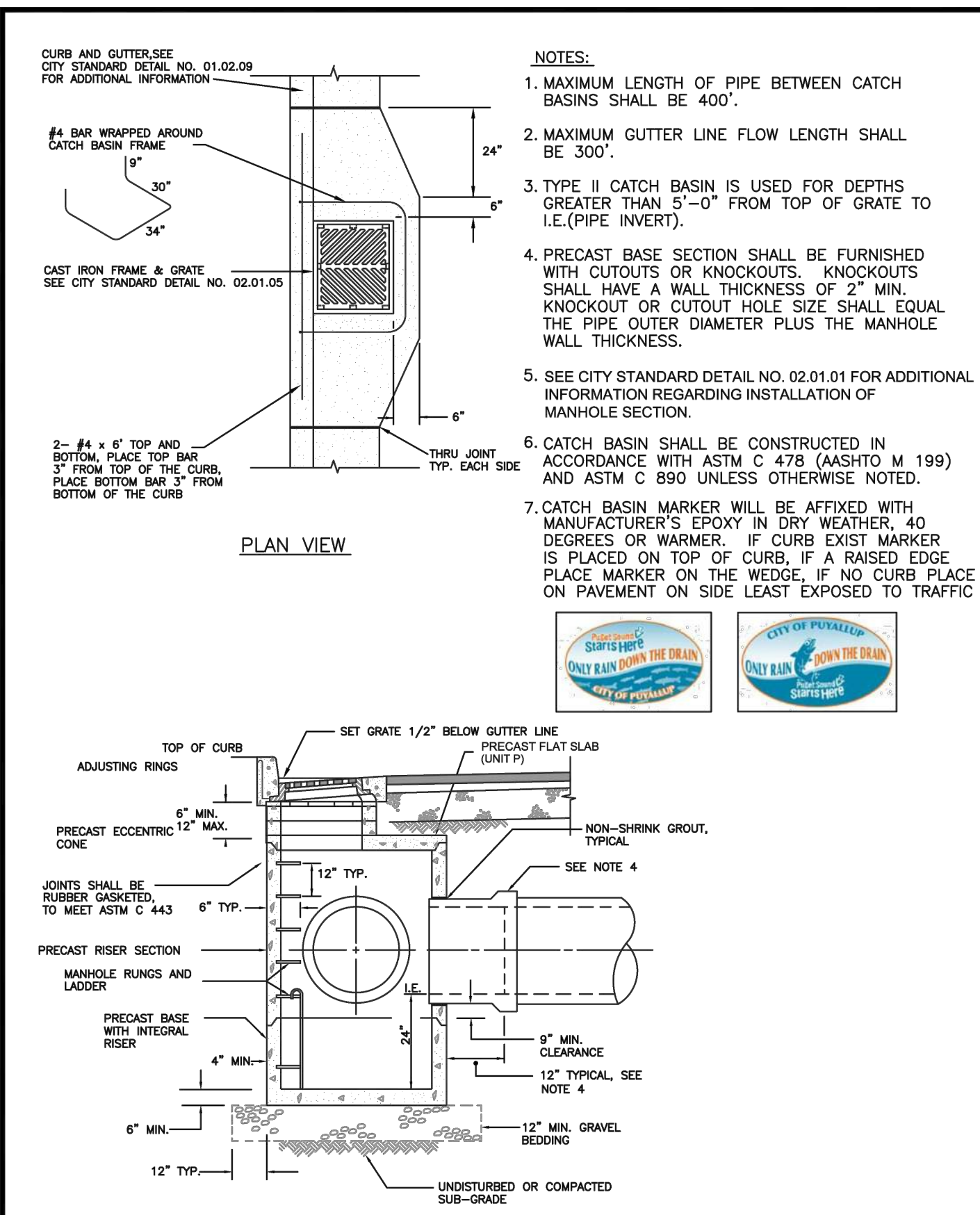
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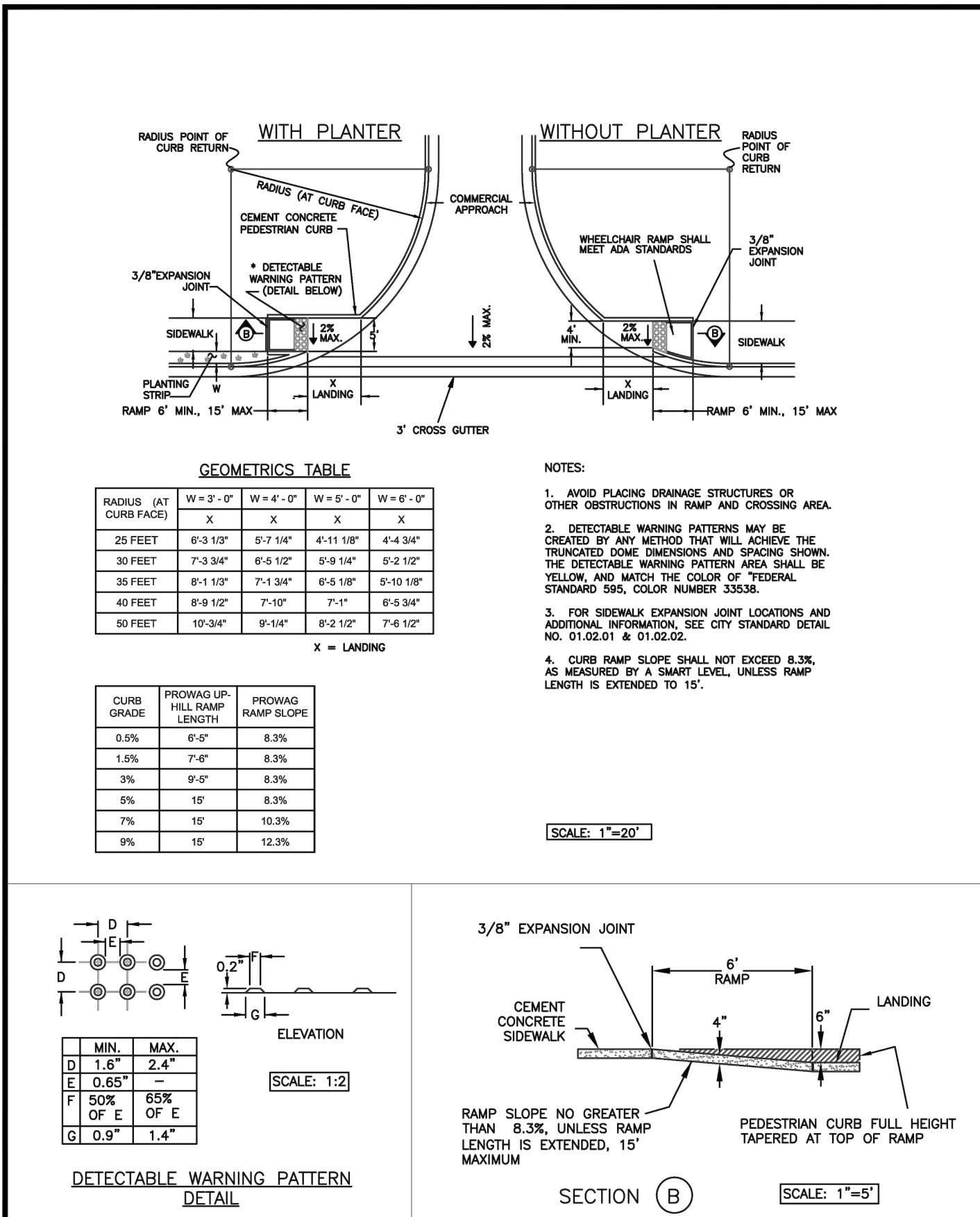
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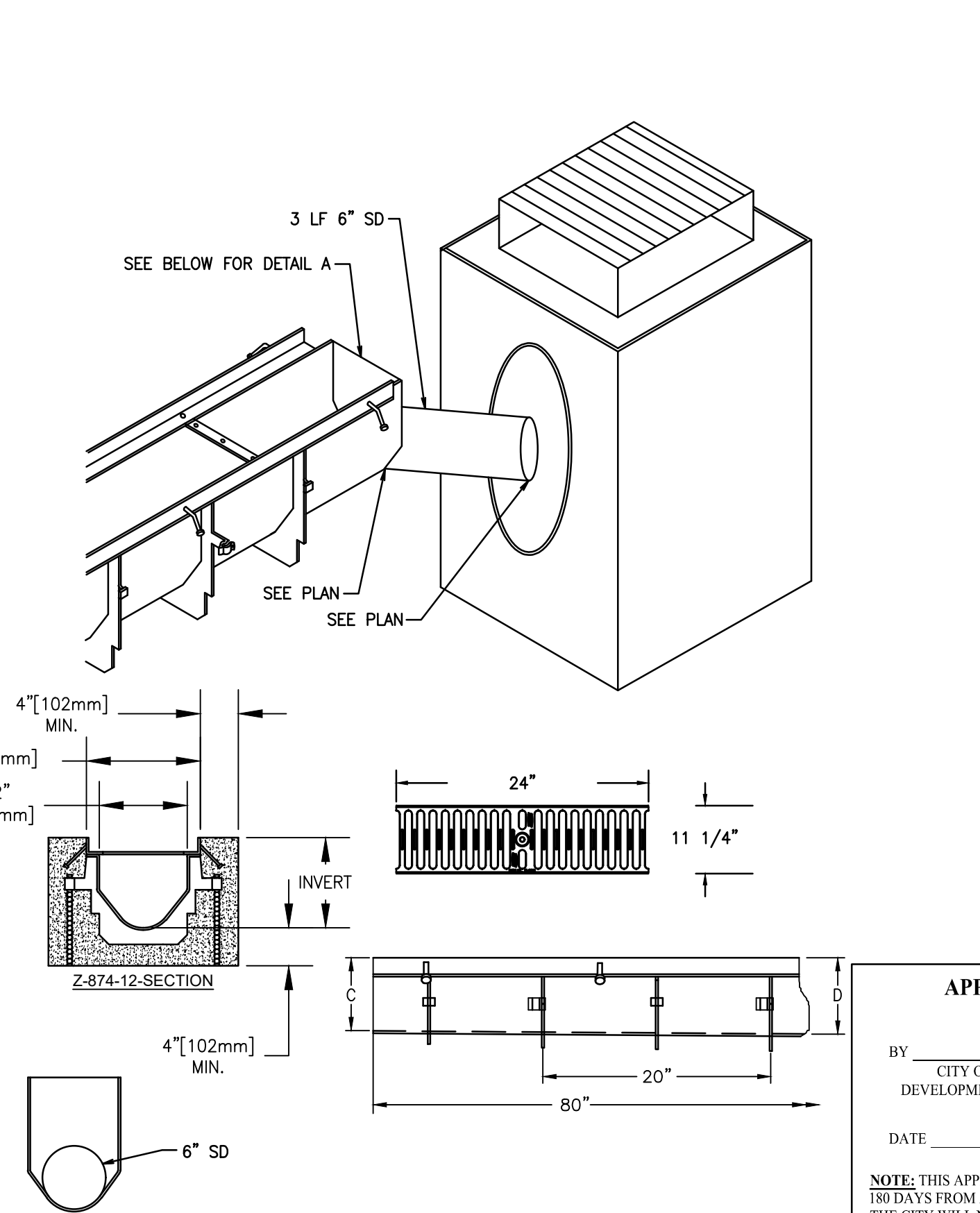
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| | CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS | DESIGNED BY LINDA LIAN | CHECKED BY LINDA LIAN | APPROVED BY COLLEEN HARRIS | REVISED BY LINDA LIAN | CITY STANDARD | 02.01.04 |
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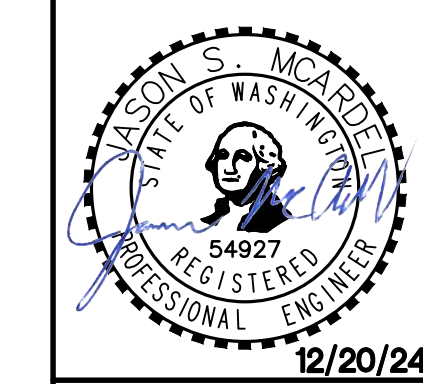
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| | CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS | DESIGNED BY LINDA LIAN | CHECKED BY LINDA LIAN | APPROVED BY COLLEEN HARRIS | REVISED BY LINDA LIAN | CITY STANDARD | 02.01.04 |
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PRELIMINARY CONSTRUCTION DETAILS
FOR
FREEMAN LOGISTICS

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

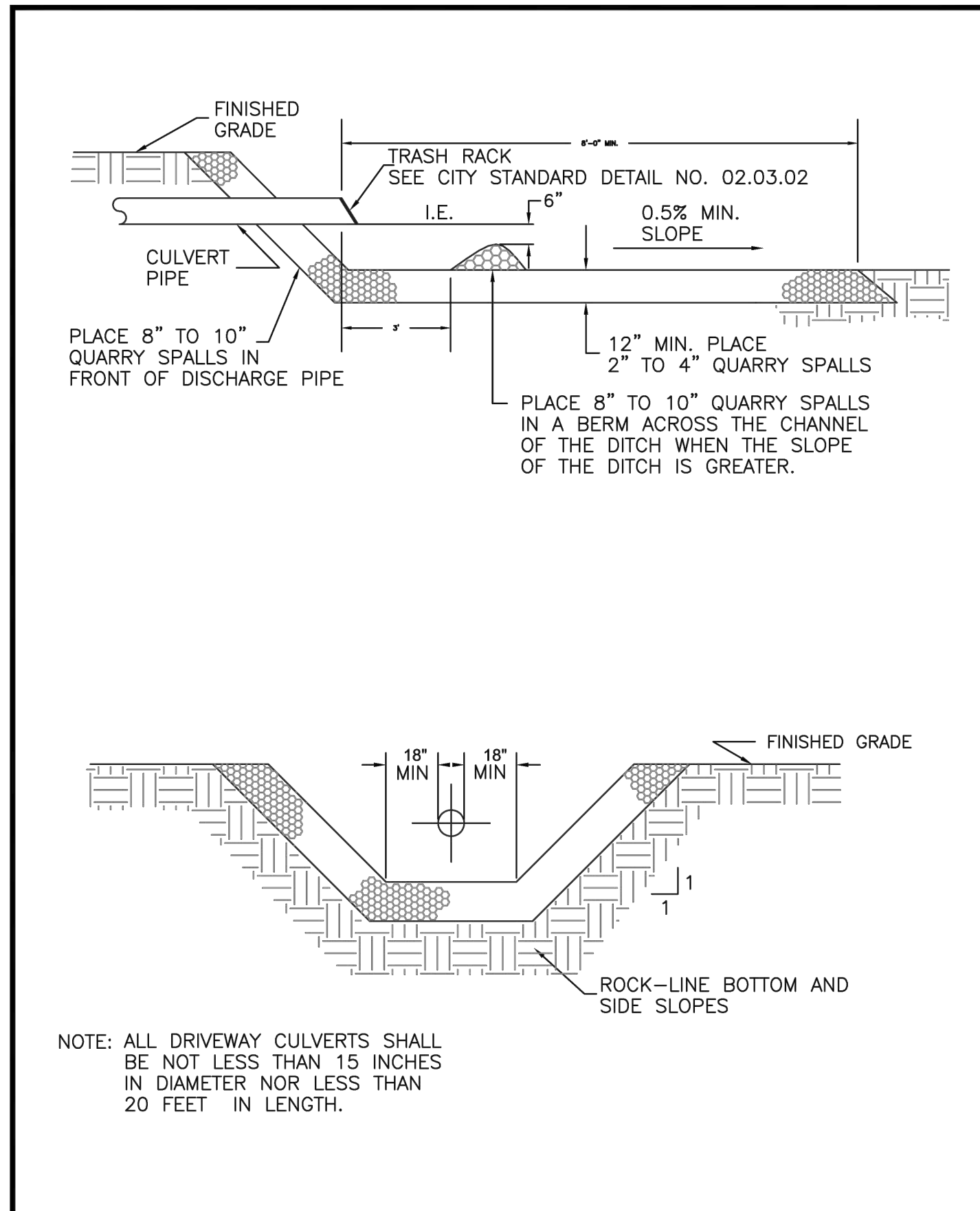


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| Designed | JSM | Drawn | JSM | Checked | JSM | Approved | JSM | Date | 12/20/24 |
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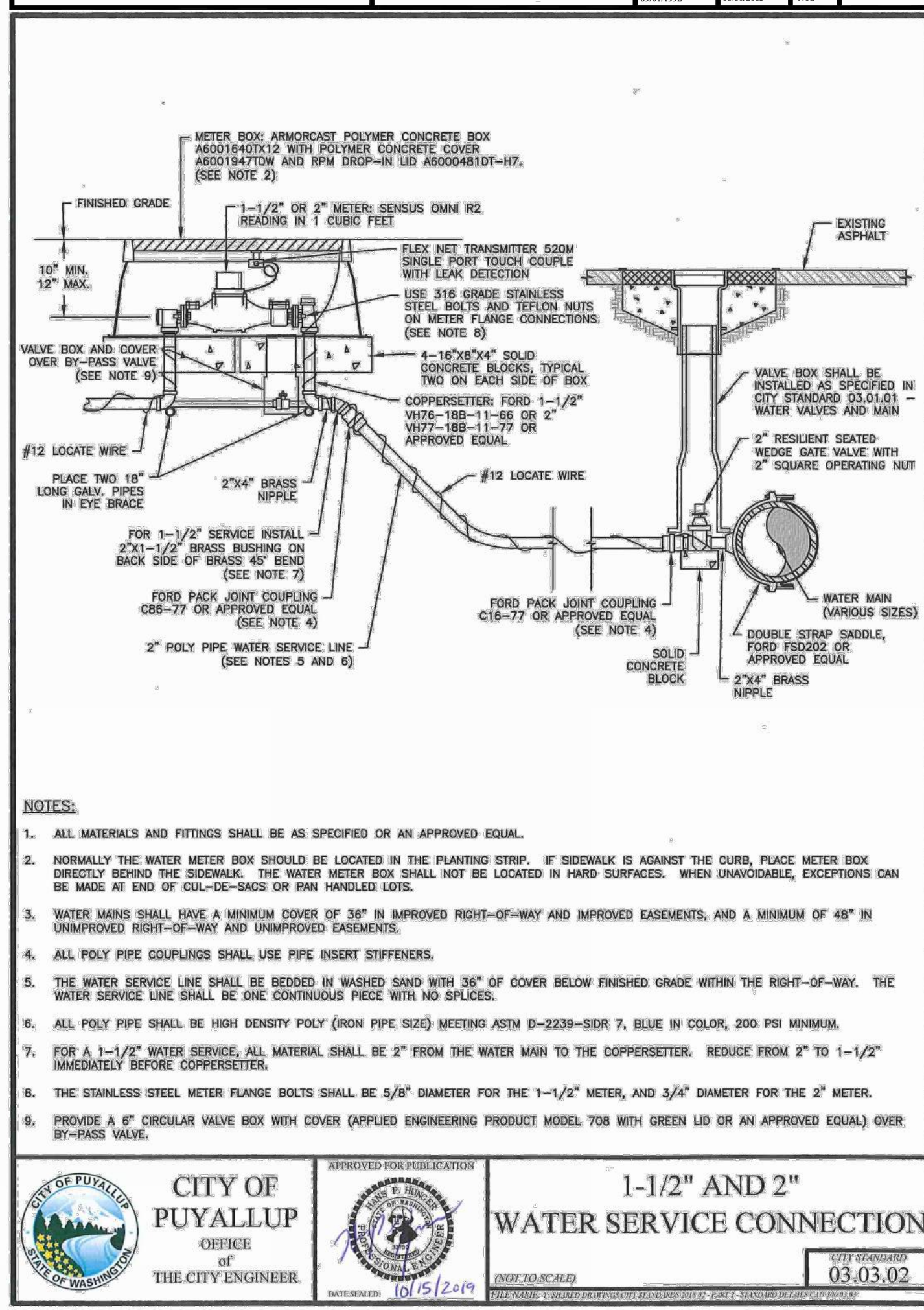
Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

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| Job Number | 21585 | Sheet | C34 of 44 |
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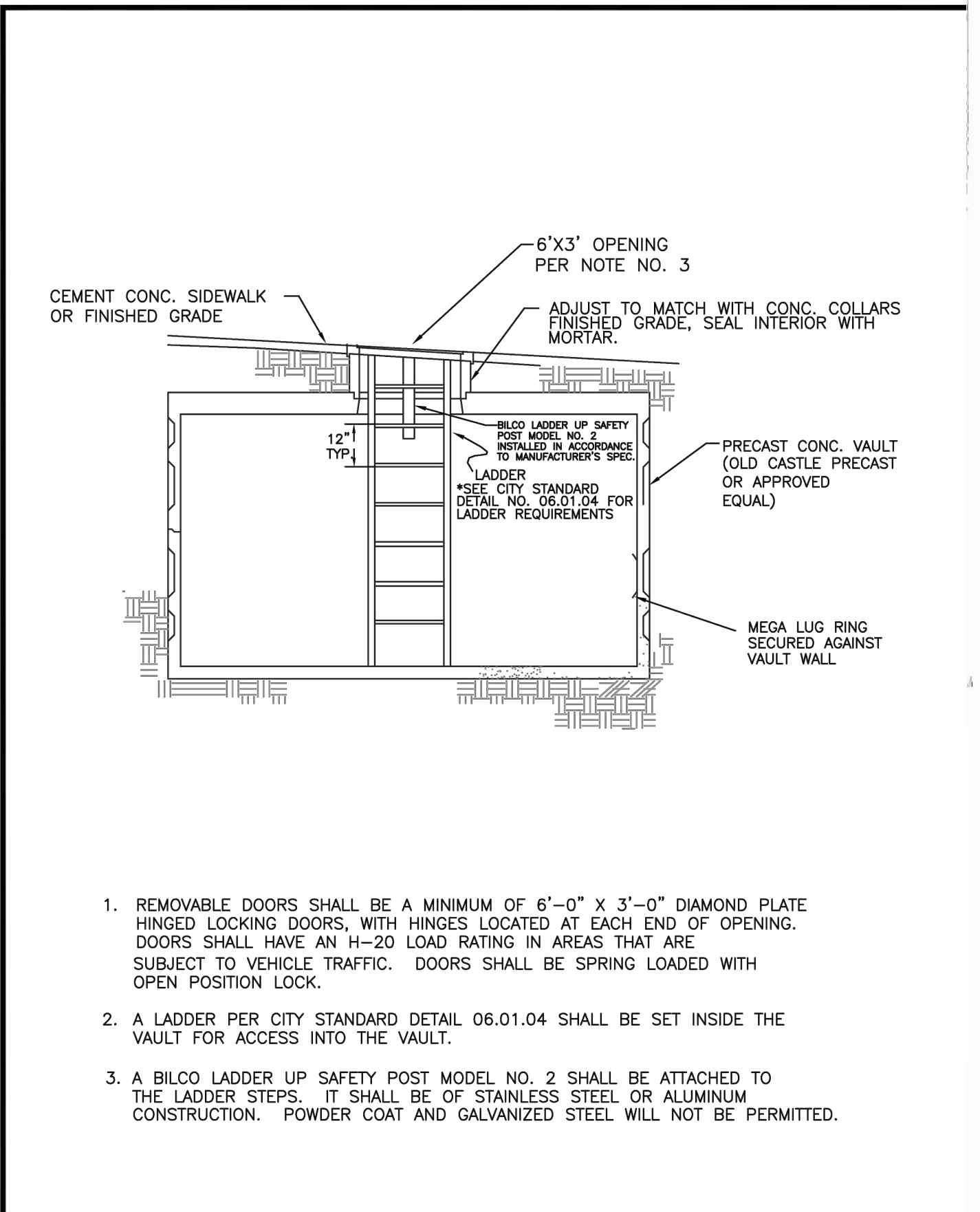
PRELIMINARY CONSTRUCTION DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



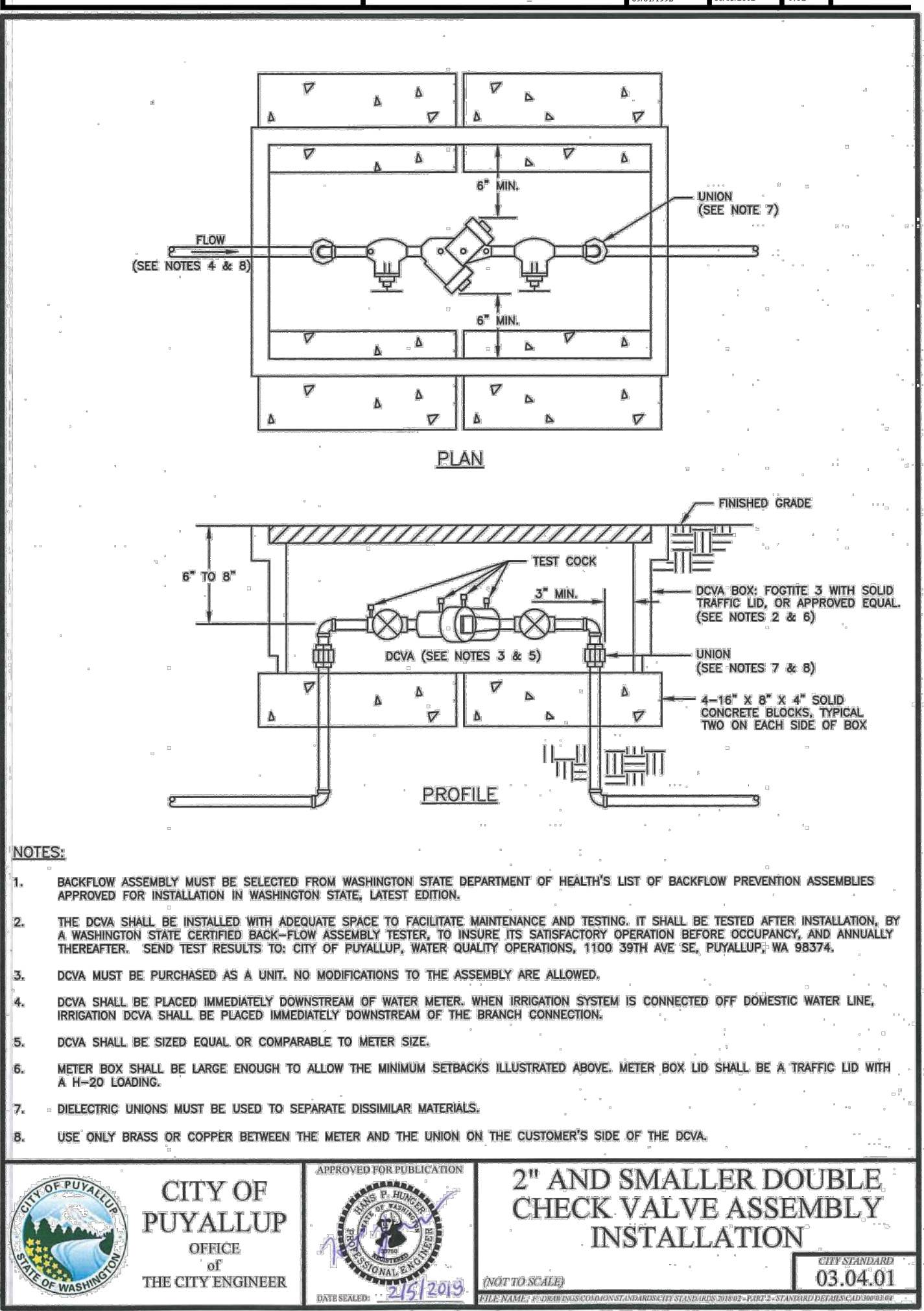
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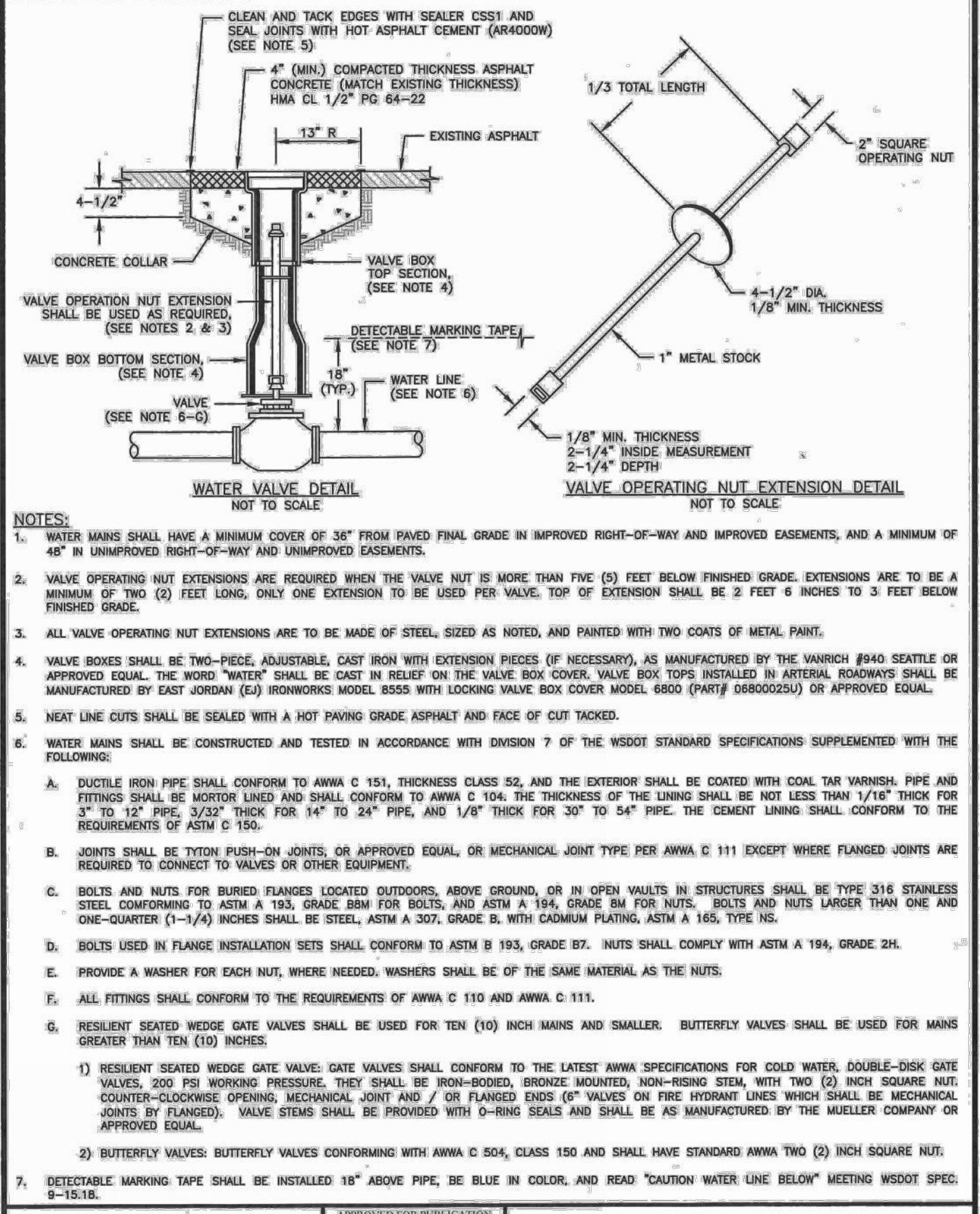
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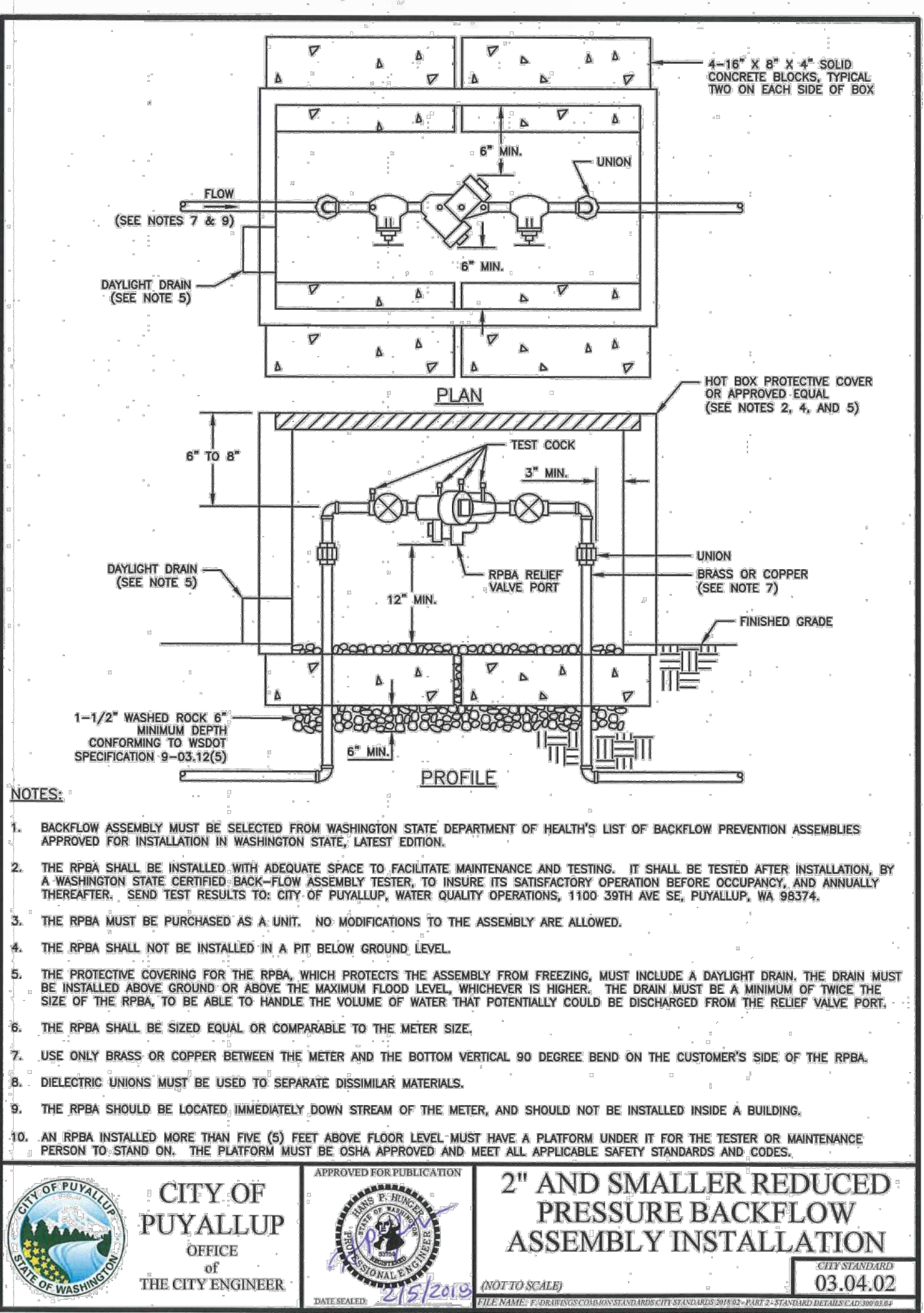
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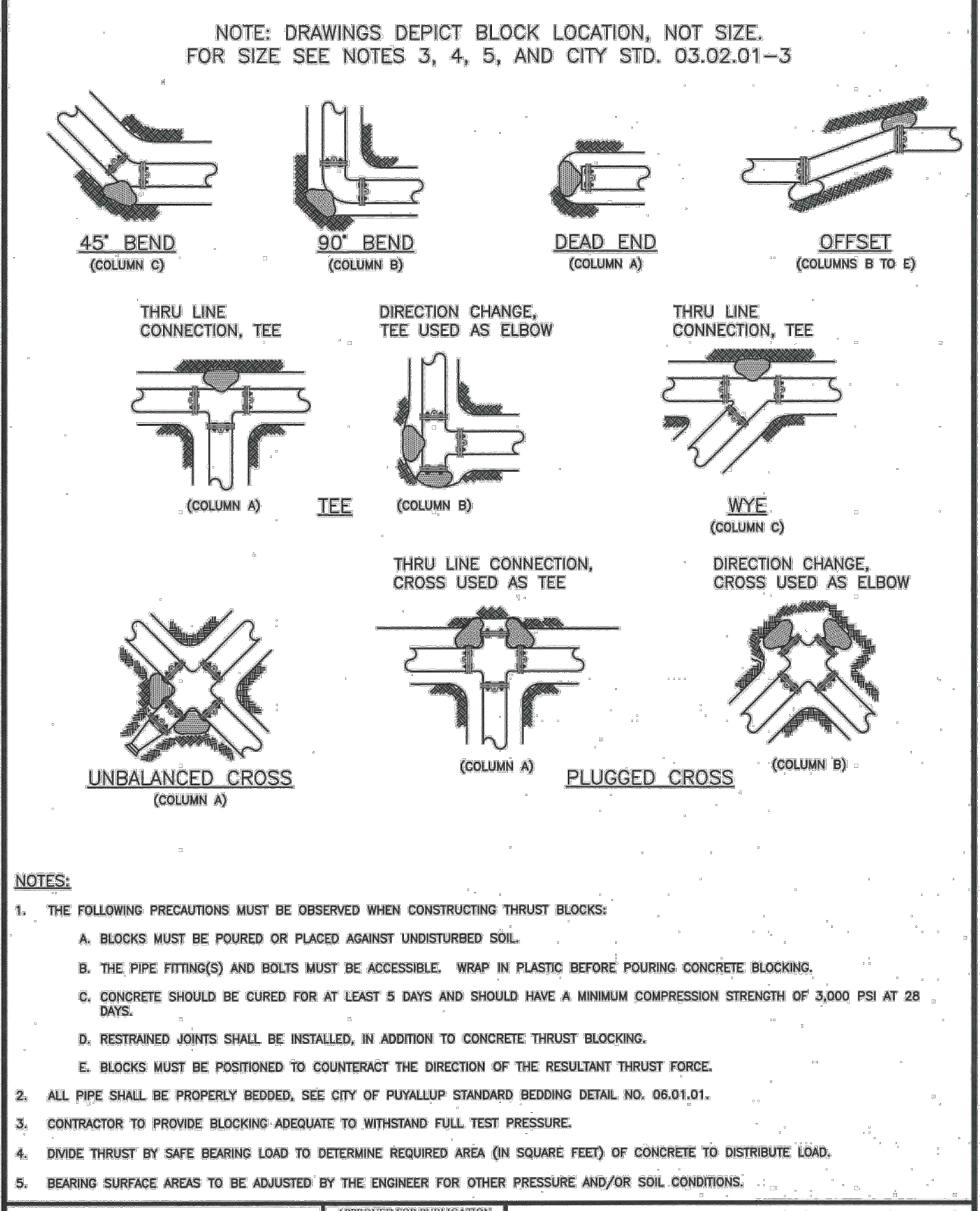
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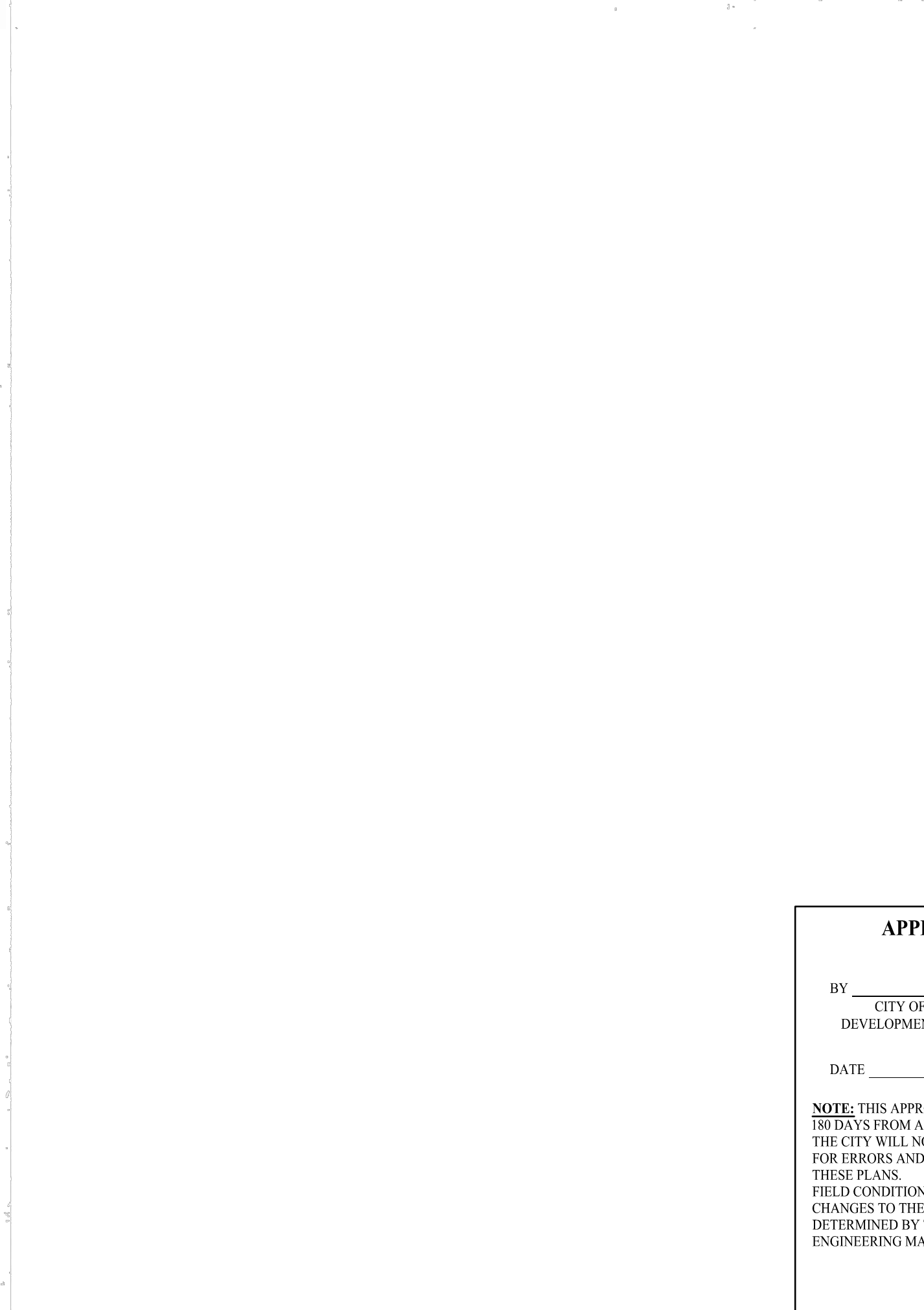
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| | CITY OF PUYALLUP | | 2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION | | |
| | DESIGNED BY | CHECKED BY | APPROVED BY | REVIEWED BY | |
| | UNION LANSING | COLLEEN LANSING | COLLEEN LANSING | COLLEEN LANSING | |
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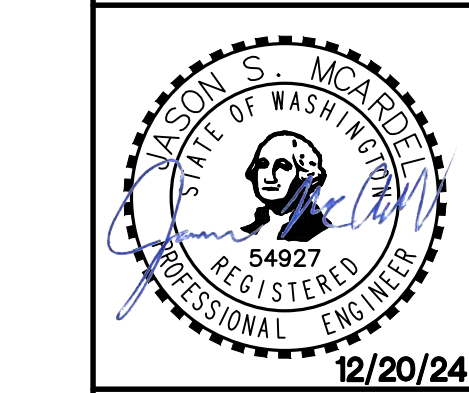
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| | UNION LANSING | COLLEEN LANSING | COLLEEN LANSING | COLLEEN LANSING | |
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| | CITY OF PUYALLUP | | HORIZONTAL THRUST BLOCKING | | |
| | DESIGNED BY | CHECKED BY | APPROVED BY | REVIEWED BY | |
| | UNION LANSING | COLLEEN LANSING | COLLEEN LANSING | COLLEEN LANSING | |
| | DATE: 02/02/24 | DATE: 02/02/24 | DATE: 02/02/24 | DATE: 02/02/24 | |

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| Revision | | SEPA RESUBMITAL | JSM | Appr. | Date |
| 5 | 12/13/24 | | | | |

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| Title: | | PRELIMINARY CONSTRUCTION DETAILS FOR FREEMAN LOGISTICS |
| For: | | VECTOR DEVELOPMENT COMPANY 11411 NE 124TH STREET SUITE 190 KIRKLAND, WA 98034 |

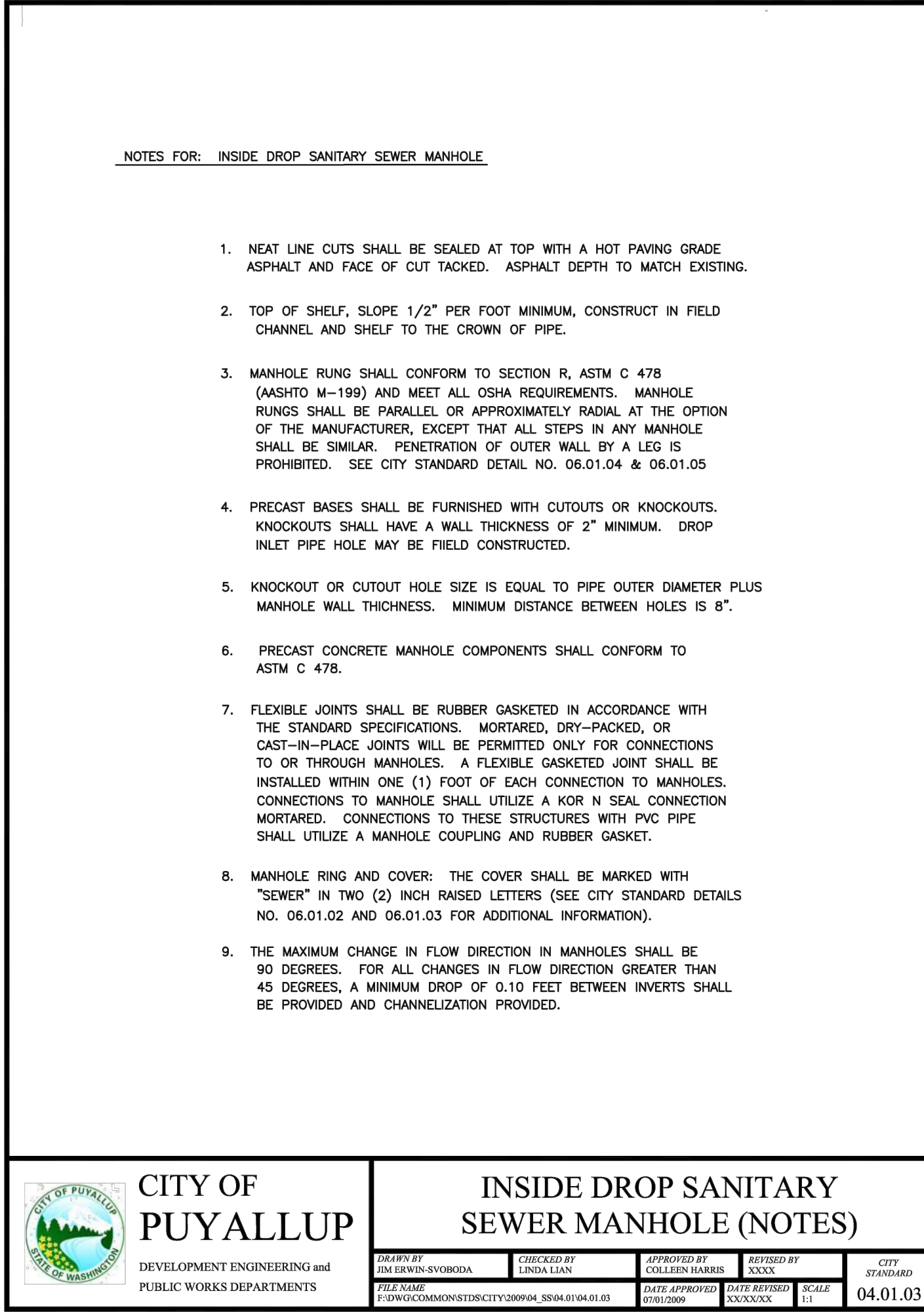
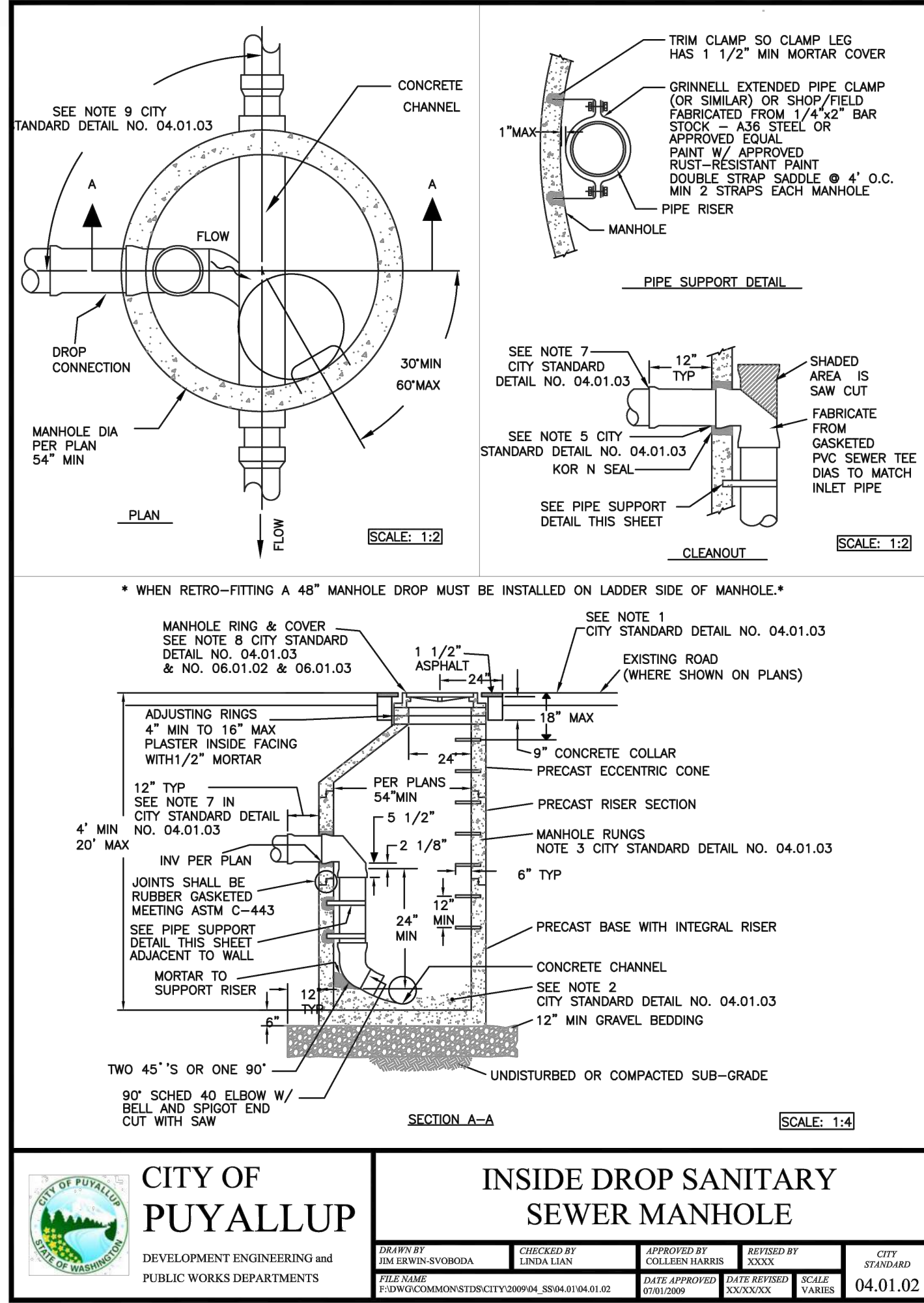
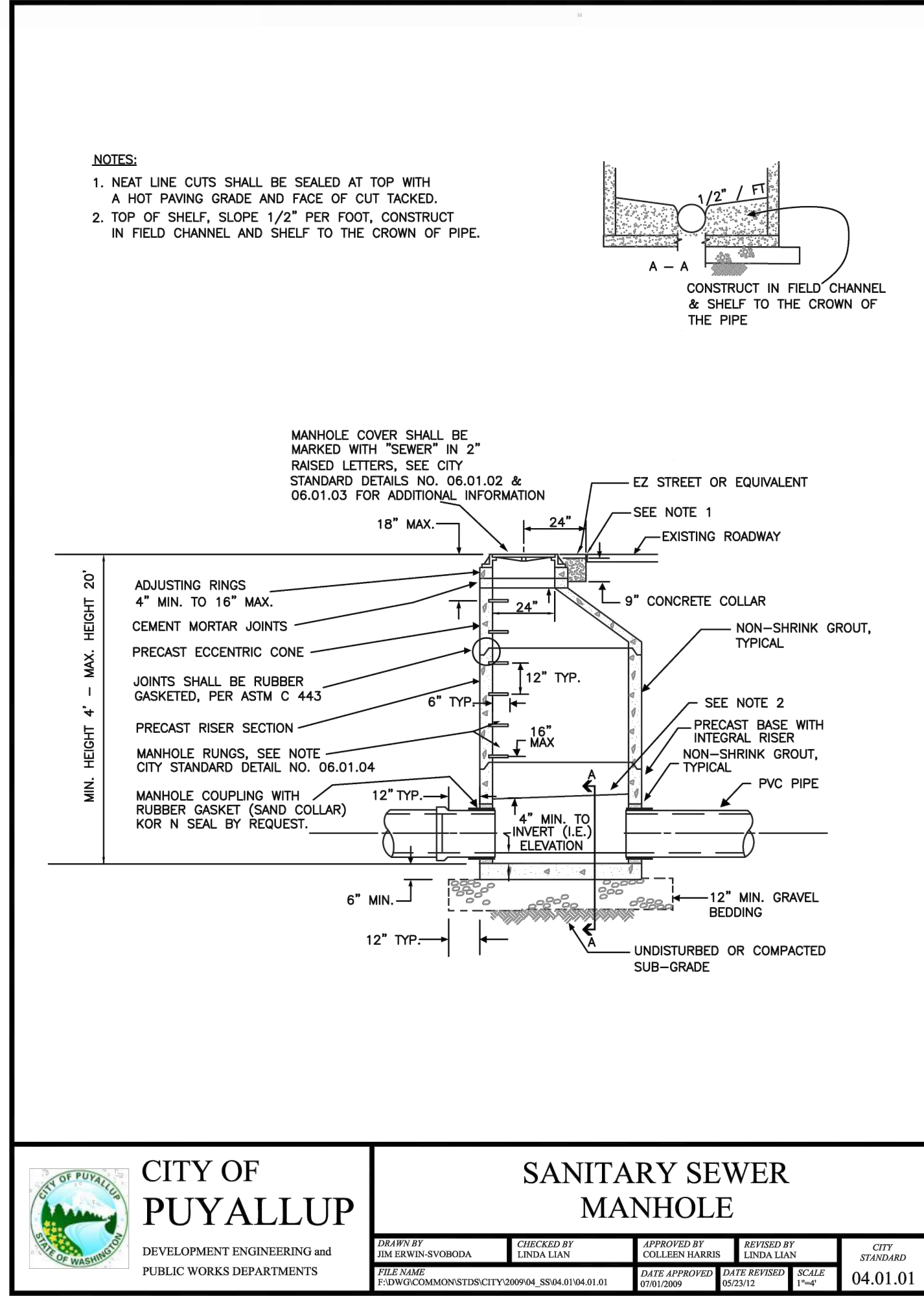
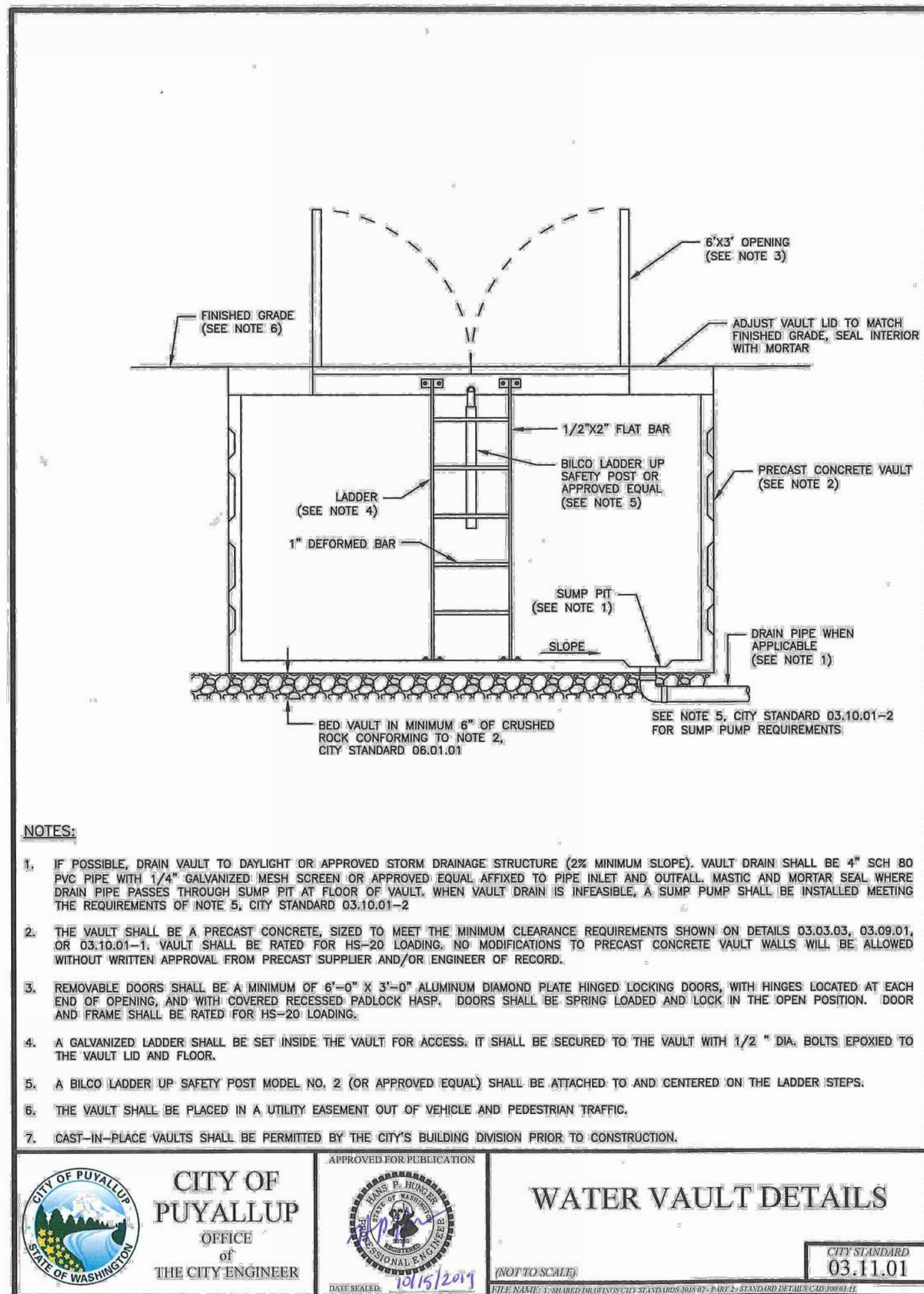
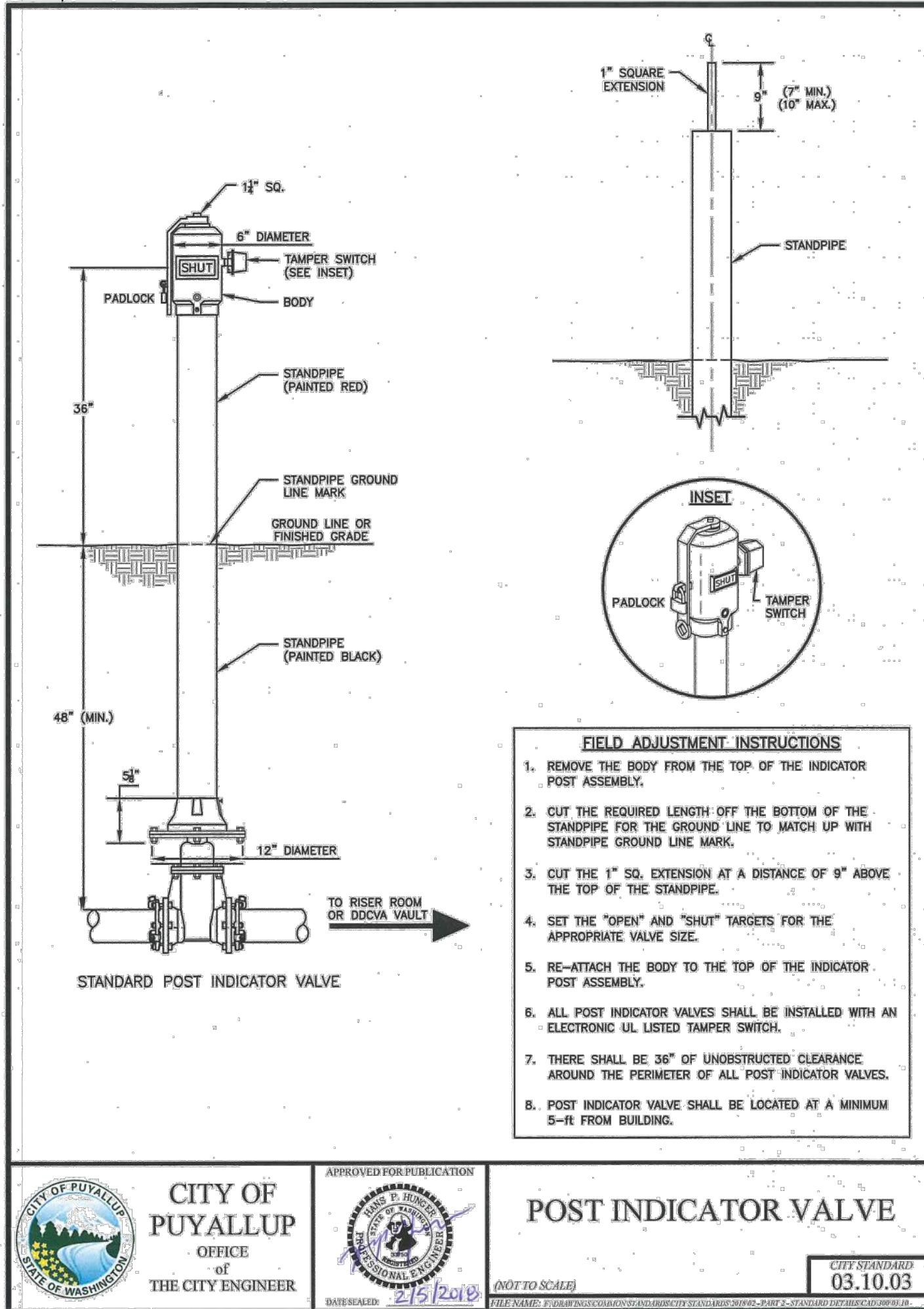
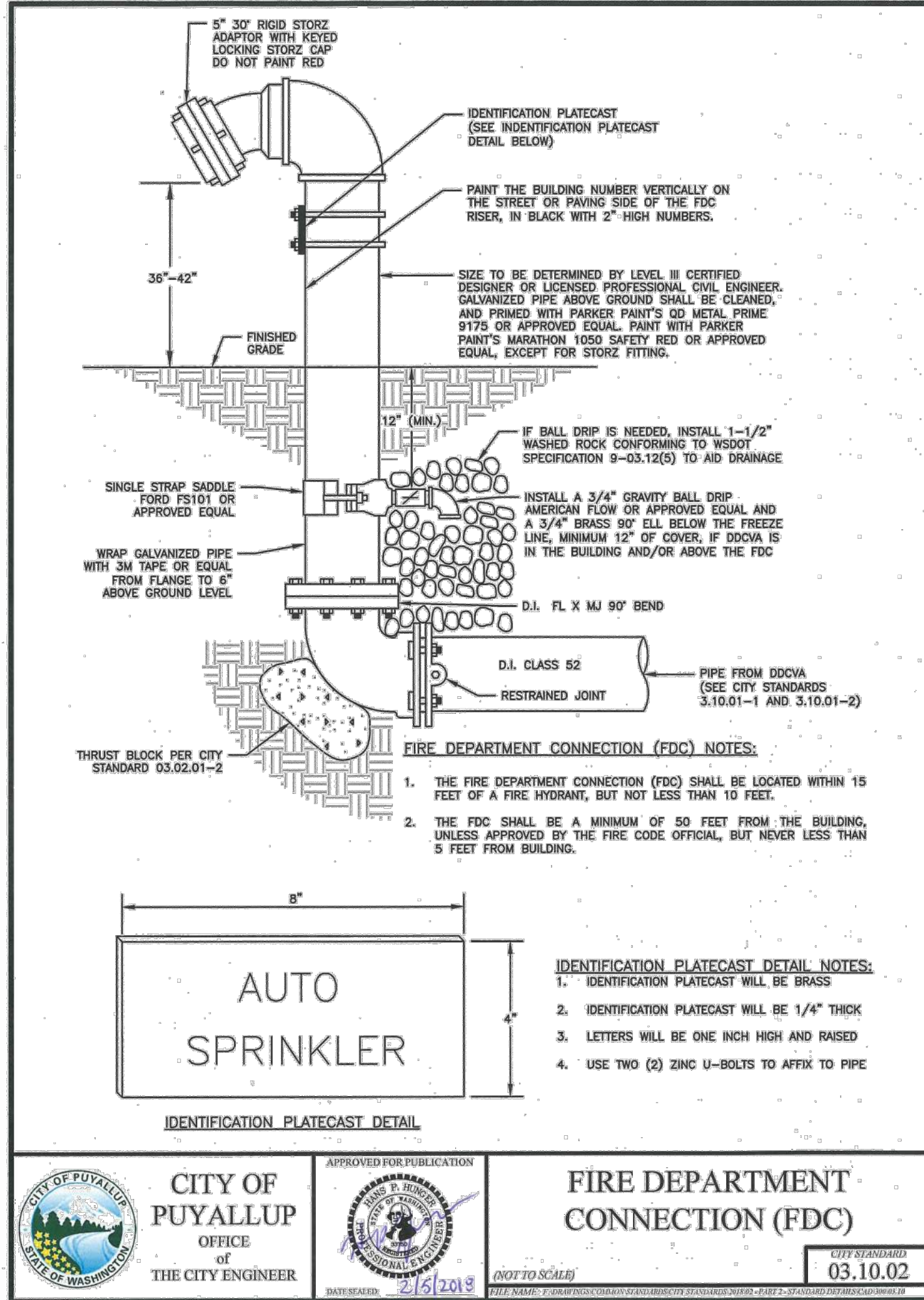
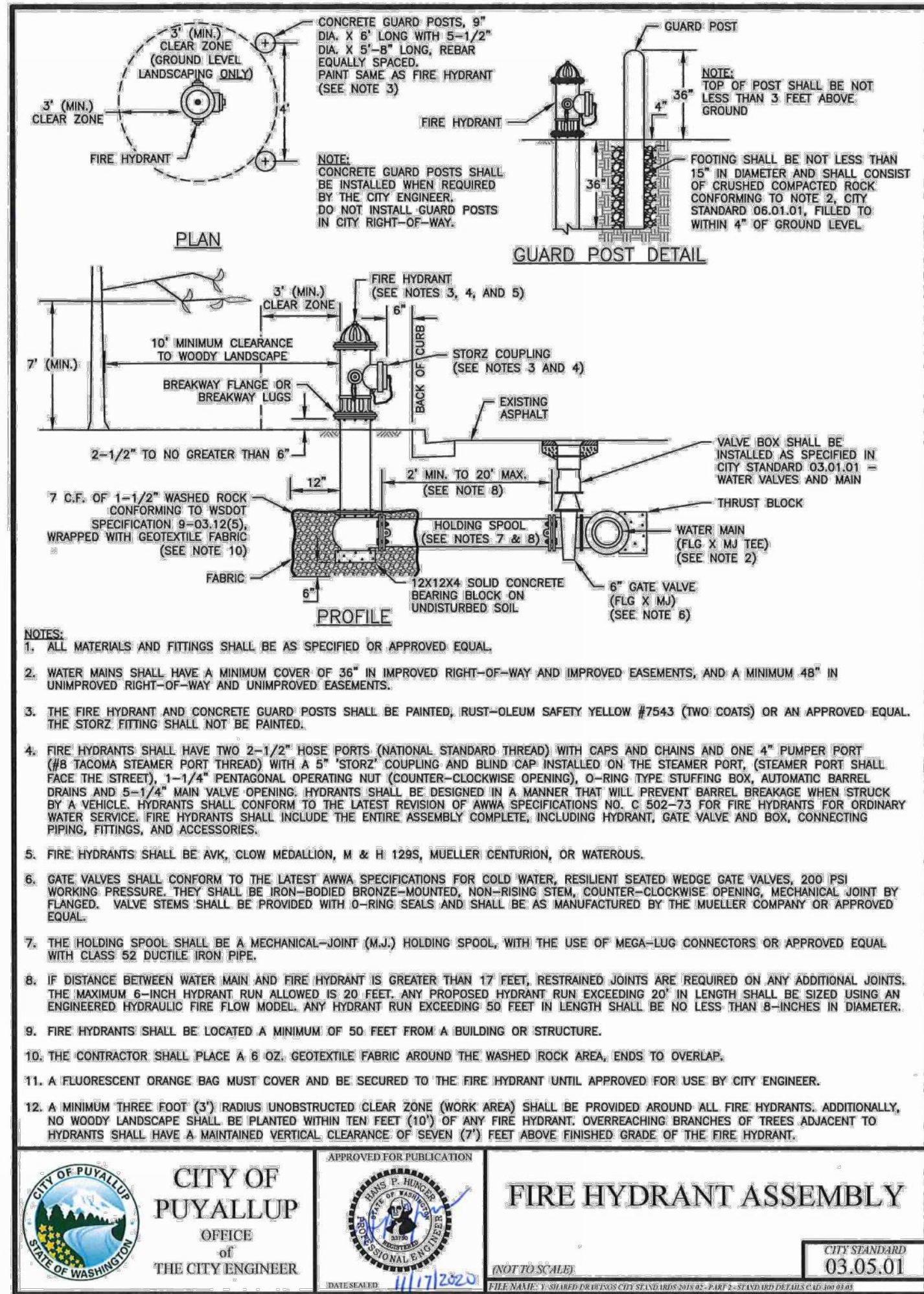


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| Date | | 12/20/24 | | | |

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| | Barghausen Consulting Engineers, LLC. | | 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com | |
| | Job Number | | 21585 | |
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| | Date | | 12/20/24 | |

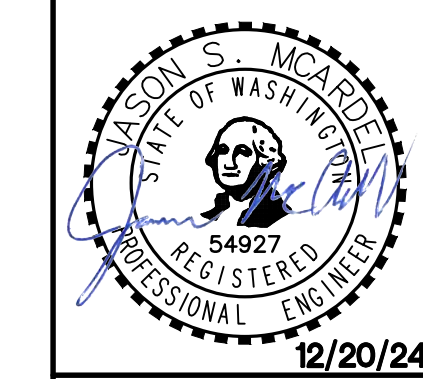
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| By | | CITY OF PUYALLUP DEVELOPMENT ENGINEERING | |

PRELIMINARY CONSTRUCTION DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



PRELIMINARY CONSTRUCTION DETAILS
FOR
FREEMAN LOGISTICS

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale: Horizontal N/A, Vertical N/A

Designed: JSM, Drawn: JSM, Checked: JSM, Approved: JSM, Date: 12/20/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number: 21585
Sheet: C36 of 44

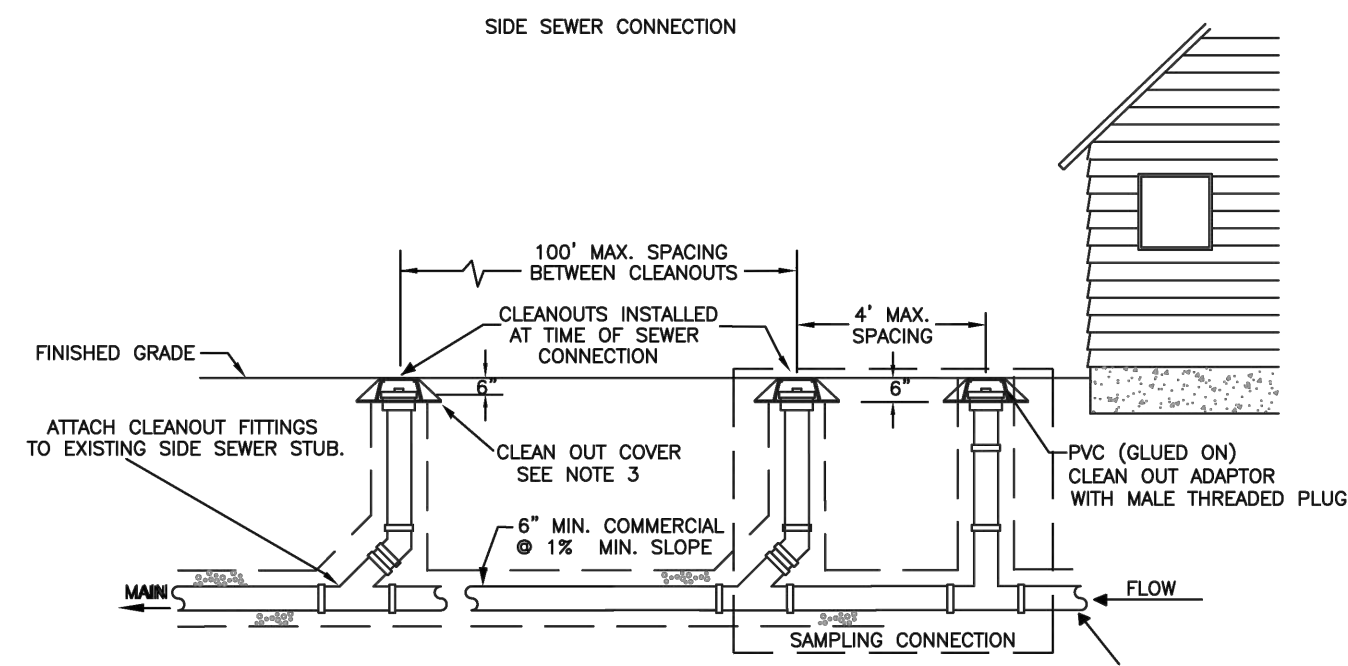
APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE:

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS IN THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

PRELIMINARY CONSTRUCTION DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



NOTES:

- SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
- A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
- CLEAN OUT AND SAMPLING CONNECTION COVERS:
A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 04.03.05 FRAME AND COVER SECTION.
- EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER, HUB x FEMALE, FIPT, PVC SI AND ONE CLEANOUT PLUG, MOPT WITH RAISED NUT, PVC SDR35.

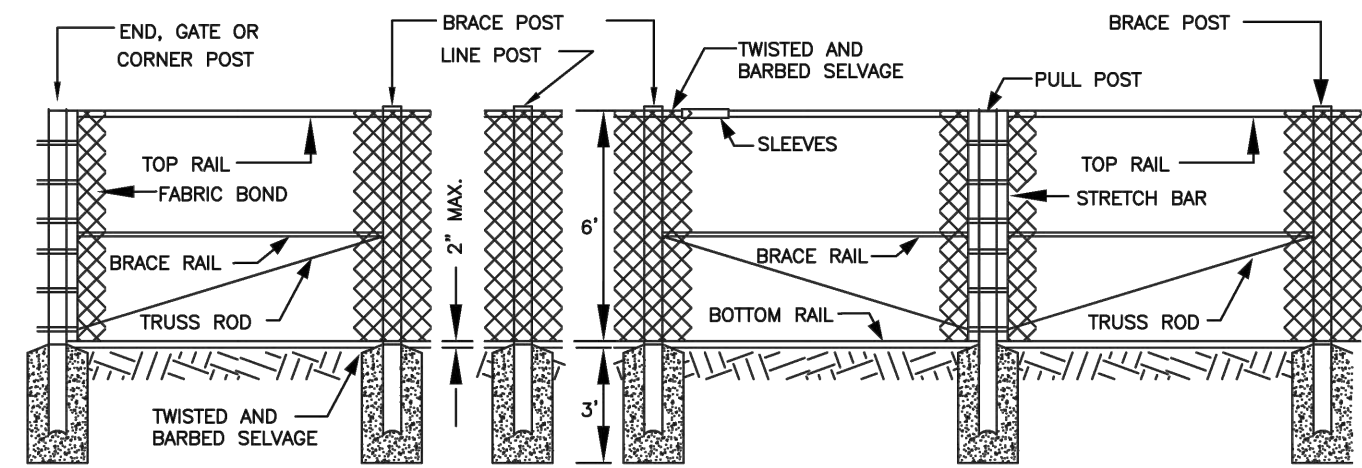


CITY OF
PUYALLUP

DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

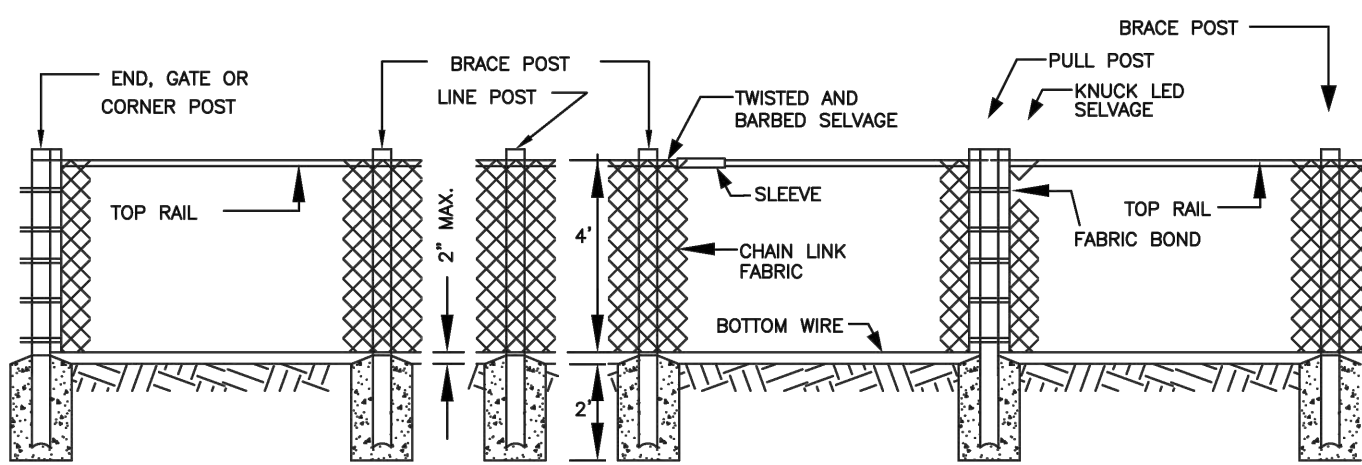
COMMERCIAL SIDE SEWER CONNECTION
WITH SAMPLING CONNECTION

DESIGNED BY: JIM EDWARDS-SYNDRODA
CHECKED BY: LINDA LIAN
APPROVED BY: COLLEEN HARRIS
DATE: 04.03.04
CITY STANDARD: 04.03.04



CHAIN LINK FENCE TYPE 1

SCALE: 1:5



CHAIN LINK FENCE TYPE 6

NOTES:

- ALL CHAIN LINK FENCE SHALL BE TYPE 6 FORTY-EIGHT (48") AS PER WSDOT STANDARD PLAN L-2, BOTTOM AND TOP, BRACE POST AND CHAIN LINK. BOTTOM AND TOP SHALL HAVE A BLACK VINYL COATING. SPECIFICATIONS - NOTE 3.
- CHAIN LINK GATE SHALL BE AS SHOWN IN WSDOT STANDARD PLAN L-3. PER SECTION 9-16.1(1) AND AS AMENDED BY NOTE #3.
- SECTION 9-16.1(1) SHALL BE SUPPLEMENTED WITH THE FOLLOWING: IN ADDITION TO MEETING THE COATING AND MATERIAL REQUIREMENTS OF SECTION 9-16 OF THE STANDARD SPECIFICATIONS, ALL FENCE AND GATE PARTS OF FENCE NOTED AS VINYL COATED SHALL HAVE A BLACK VINYL CLAD COATING AND ALL PARTS MATCH IN COLOR. COATING OF FABRIC SHALL BE EXTRUDED/BONDED OF 0.015 INCH THICKNESS. COATING FOR POSTS AND RAILS SHALL BE 3 MIL POWDER COAT. ALL BOLTS, NUTS, AND WIRE TIES SHALL BE POWDER COATED TO MATCH THE COLOR OF THE FENCE FABRIC.
- FENCE PLACEMENT AND LOCATION REQUIRES CITY ENGINEER APPROVAL. PLACEMENT IS INTENDED FOR AREAS THAT HAVE VERTICAL DROPS GREATER THAN THREE FEET AND TO DIVIDE PUBLIC AND PRIVATE PROPERTY AT RIGHT OF WAY LINE.

SCALE: 1:4

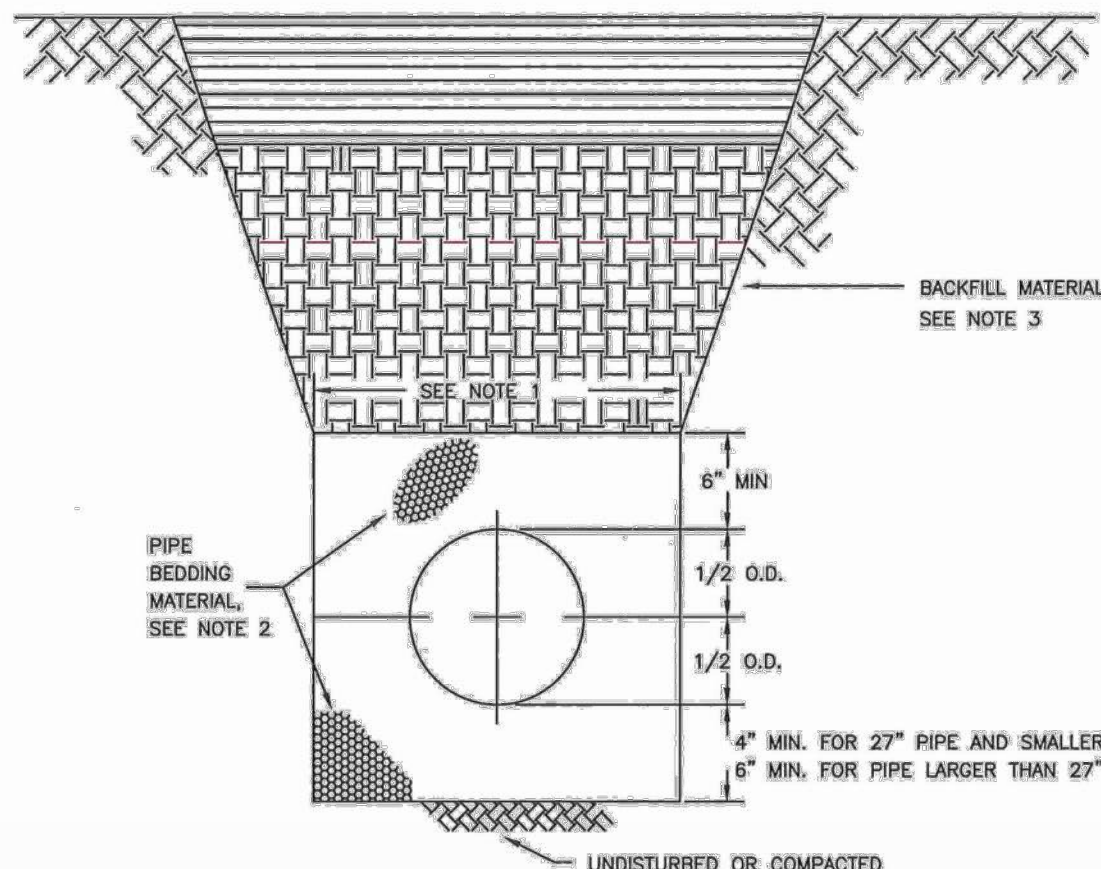


CITY OF
PUYALLUP

DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

CHAIN LINK FENCE
TYPE 1 AND TYPE 6

DESIGNED BY: JIM EDWARDS-SYNDRODA
CHECKED BY: LINDA LIAN
APPROVED BY: COLLEEN HARRIS
DATE: 06.01.08
CITY STANDARD: 06.01.08



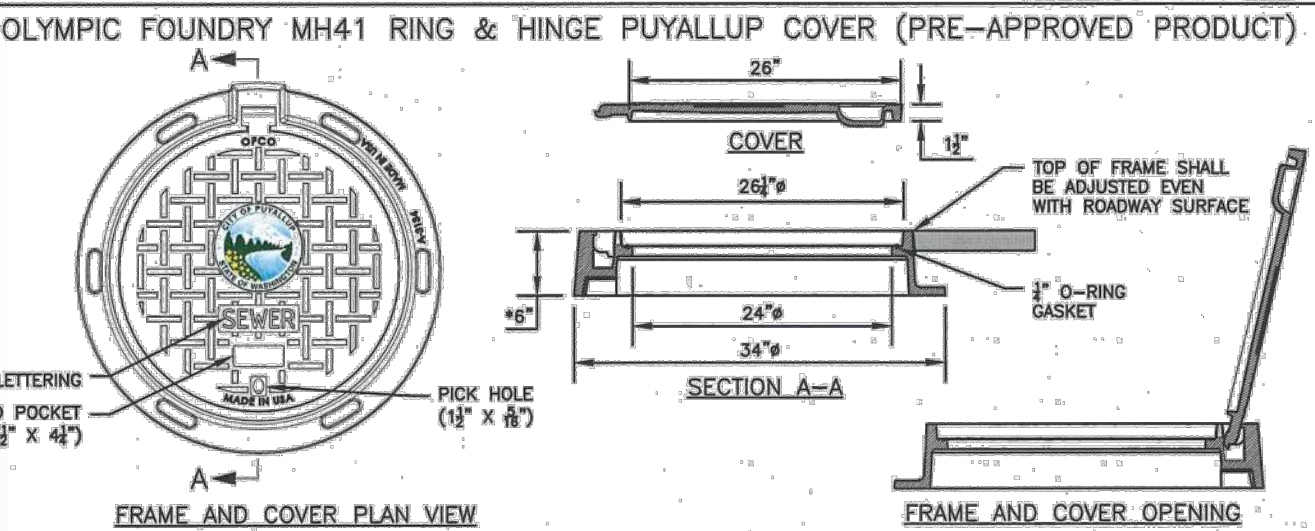
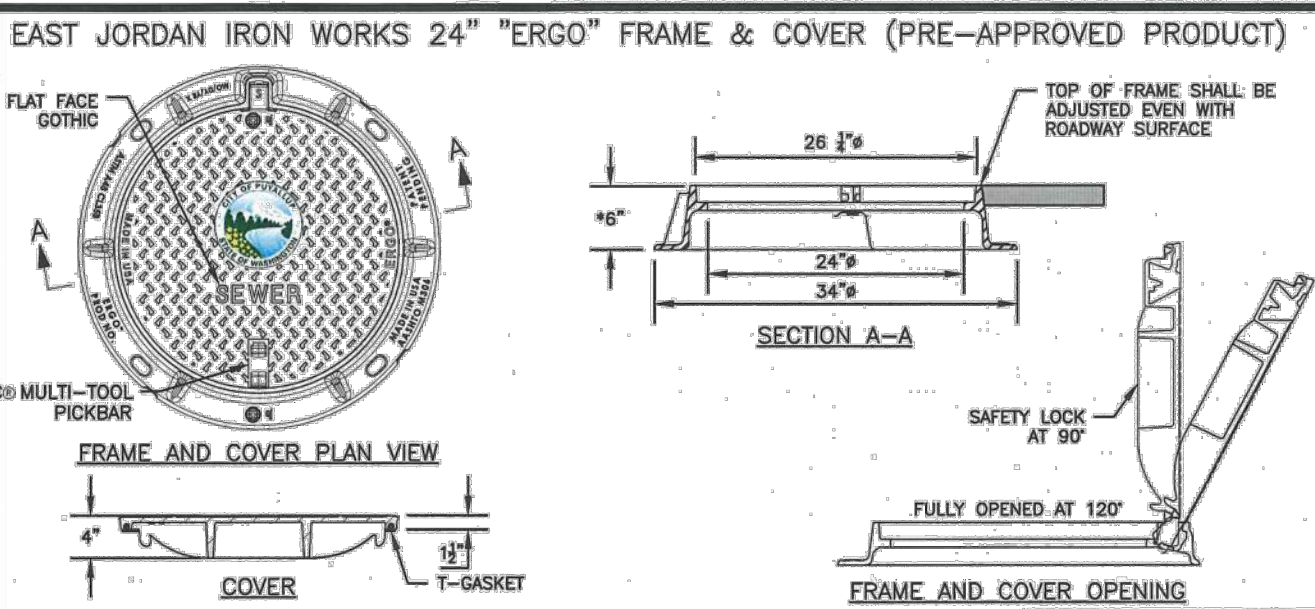
- TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
- BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.



CITY OF
PUYALLUP
OFFICE
OF
THE CITY ENGINEER

PIPE TRENCHING
BEDDING AND BACKFILL

DESIGNED BY: JIM EDWARDS-SYNDRODA
CHECKED BY: LINDA LIAN
APPROVED BY: COLLEEN HARRIS
DATE: 06.01.01
CITY STANDARD: 06.01.01



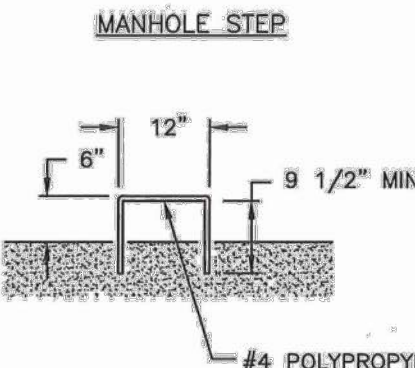
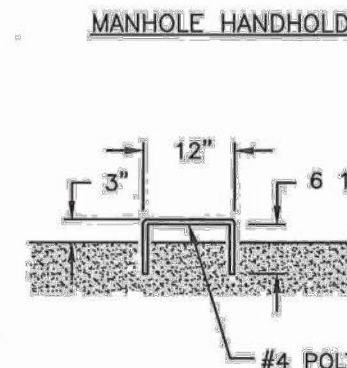
- NOTES:
- EAST JORDAN IRON WORKS 24" "ERGO" AND OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER ARE PRE-APPROVED PRODUCTS AND SHALL BE USED FOR PUBLICLY-OWNED INFRASTRUCTURE. ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
 - MANHOLE FRAME AND COVERS SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.) WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITHIN A PEDESTRIAN PATHWAY, THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
 - NON-ROCKING FIT FOR MANHOLE COVERS.
 - CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE.
 - CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
 - CASTINGS SHALL BE UNCOATED.
 - FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
 - INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.
 - THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
 - REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH-ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
 - MANHOLE RING AND COVER SHALL BE FREE OF POROSITY, SHRINK CAVITIES, COLD SHUTS OR CRACKS OR ANY SURFACE DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
 - FRAME HEIGHT MAY BE 4" FOR OVERLAYS AND PAVEMENT REHABILITATION PROJECTS, WITH WRITTEN APPROVAL BY THE CITY ENGINEER.



CITY OF
PUYALLUP
OFFICE
OF
THE CITY ENGINEER

MANHOLE FRAME
AND COVER

DESIGNED BY: JIM EDWARDS-SYNDRODA
CHECKED BY: LINDA LIAN
APPROVED BY: COLLEEN HARRIS
DATE: 06.01.02
CITY STANDARD: 06.01.02



NOTES:

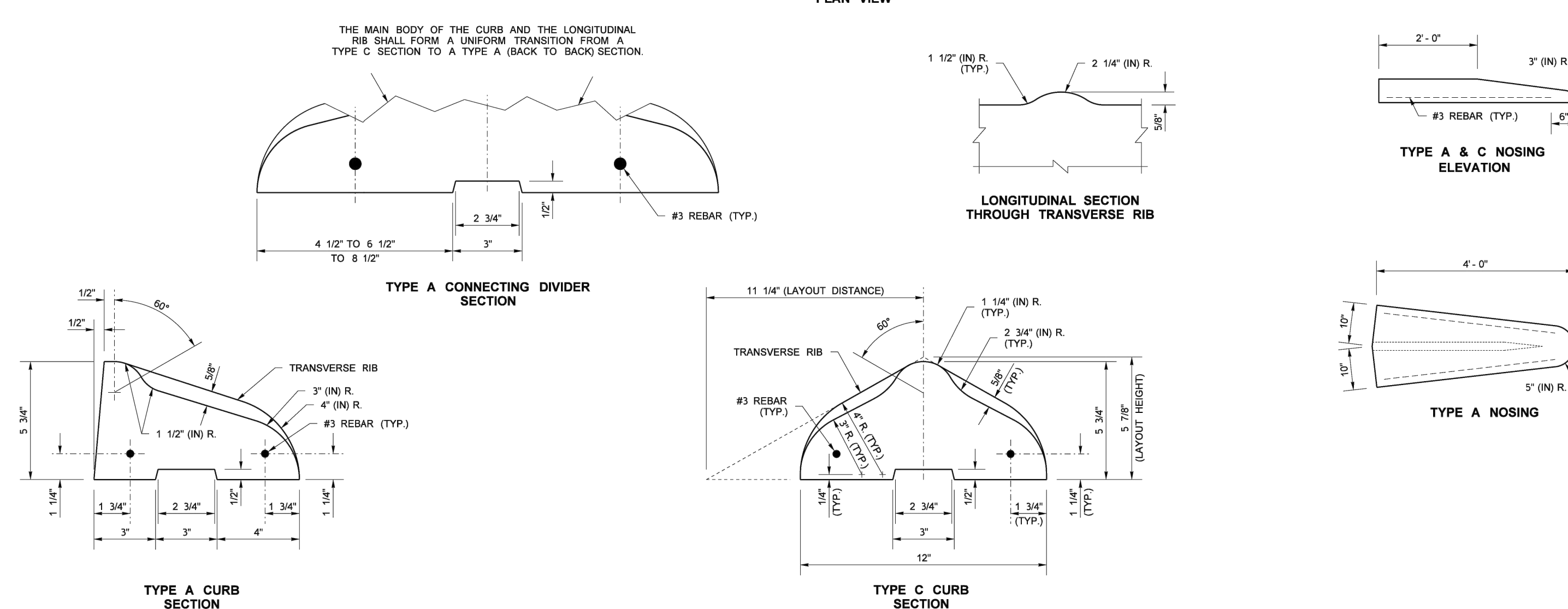
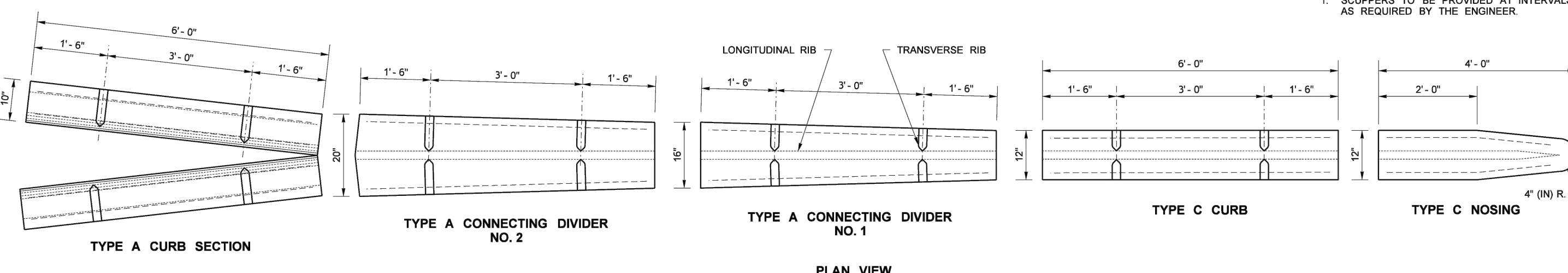
- MANHOLE STEPS AND HANDHOLDS SHALL BE POLYPROPYLENE COATED GRADE 60 REBAR CONFORMING TO ASTM C-478, D-4101, A-615 AND AASHTO M-199.
- PREFABRICATED LADDERS SHALL BE MADE OF REBAR AND ENCASED IN POLYPROPYLENE AFTER FABRICATION.
- STEPS MAY BE INSTALLED:
CAST IN PLACE, OR
DRIVEN INTO PREFORMED HOLES WITH THE CONCRETE CURED TO 3,000 PSI MINIMUM, OR
BY DRILLING TWO ONE INCH DIAMETER HOLES, 3-3/4" DEEP, 13" O.C. APPLY NON-SHRINK GROUT AROUND BARBED ENDS AND DRIVE TO FULL INSERTION.
- PENETRATION OF THE OUTER WALL OF A STRUCTURE WITH A LEG OF A STEP OR LADDER SHALL NOT OCCUR. STEPS AND LADDER RUNGS SHALL BE SPACED AT 12 INCHES AND SHALL BE VERTICALLY ALIGNED.
- STEPS, HANDHOLDS, LADDER RUNGS AND FASTENINGS SHALL BE DESIGNED FOR A MINIMUM LIVE LOAD OF 300 LBS AND A PULL OUT FORCE OF 1,000 LBS.
- STEPS, HANDHOLDS, AND LADDER PARTS SHALL BE FREE OF SPLINTERS, SHARP EDGES, BURRS OR PROJECTIONS WHICH MAY CAUSE HAZARDS.
- REQUESTS TO USE STEPS, HANDHOLDS AND LADDERS MADE FROM NON-CORROSIVE MATERIALS SUCH AS STAINLESS STEEL AND PLASTIC MAY BE ACCEPTED AFTER REVIEW AND APPROVAL BY THE CITY. GALVANIZED STEEL WILL NOT BE PERMITTED IN SANITARY SEWER AND STORM SEWER MANHOLES AND STRUCTURES.



CITY OF
PUYALLUP
OFFICE
OF
THE CITY ENGINEER

MANHOLE STEP
AND HANDHOLD

DESIGNED BY: JIM EDWARDS-SYNDRODA
CHECKED BY: LINDA LIAN
APPROVED BY: COLLEEN HARRIS
DATE: 06.01.03
CITY STANDARD: 06.01.03



FILE NAME: S:\Design R P\B\B4-Standards\2-Plan Sheet Library\01-Published PSL\GD\Curbs, Sidewalks, and Driveways Geometric Design\GD-1\Precast Traffic\Curbs\GD-1.dgn
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DATE: 10/6/2014
PLOTTER: PLOT01
ENTERED BY: JED
CHECKED BY: JED
PROJ. ENGR: JED
REGIONAL ADM: JED



Washington State
Department of Transportation

PRECAST TRAFFIC CURB

Plot 1
PLAN REF NO:
GD-1
SHEET
1
OF
1
SHEETS

Revision
5 12/13/24 DTC JSM SEPA RESUBMITAL
No. Date By Ckd. Appr.

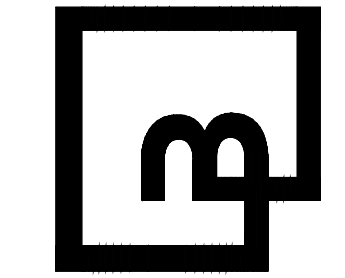
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For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:
Horizontal N/A
Vertical N/A
Designed JSM
Drawn DTC
Checked JSM
Approved JSM
Date 12/20/24

Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

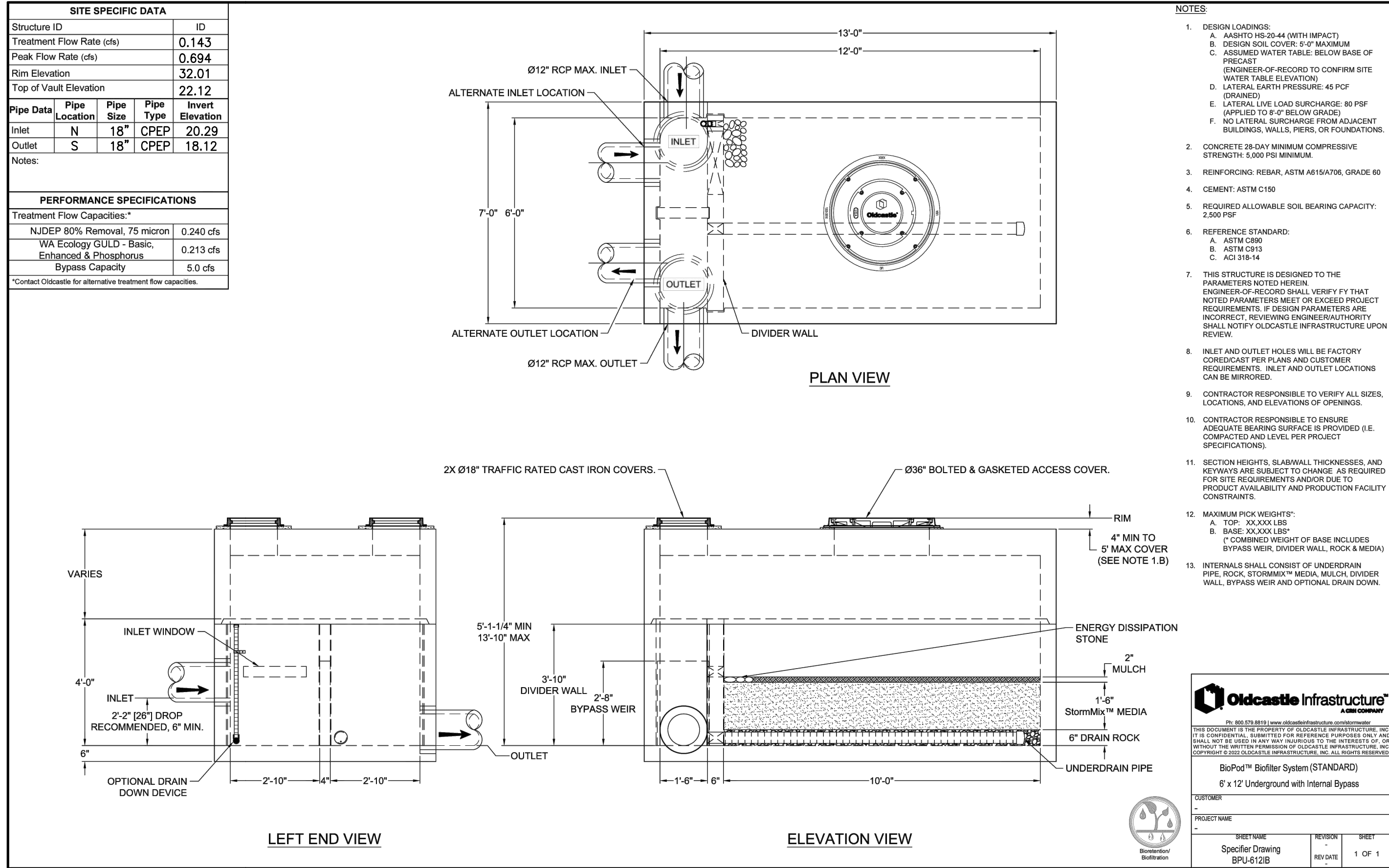


Job Number
21585
Sheet
C37 of 44

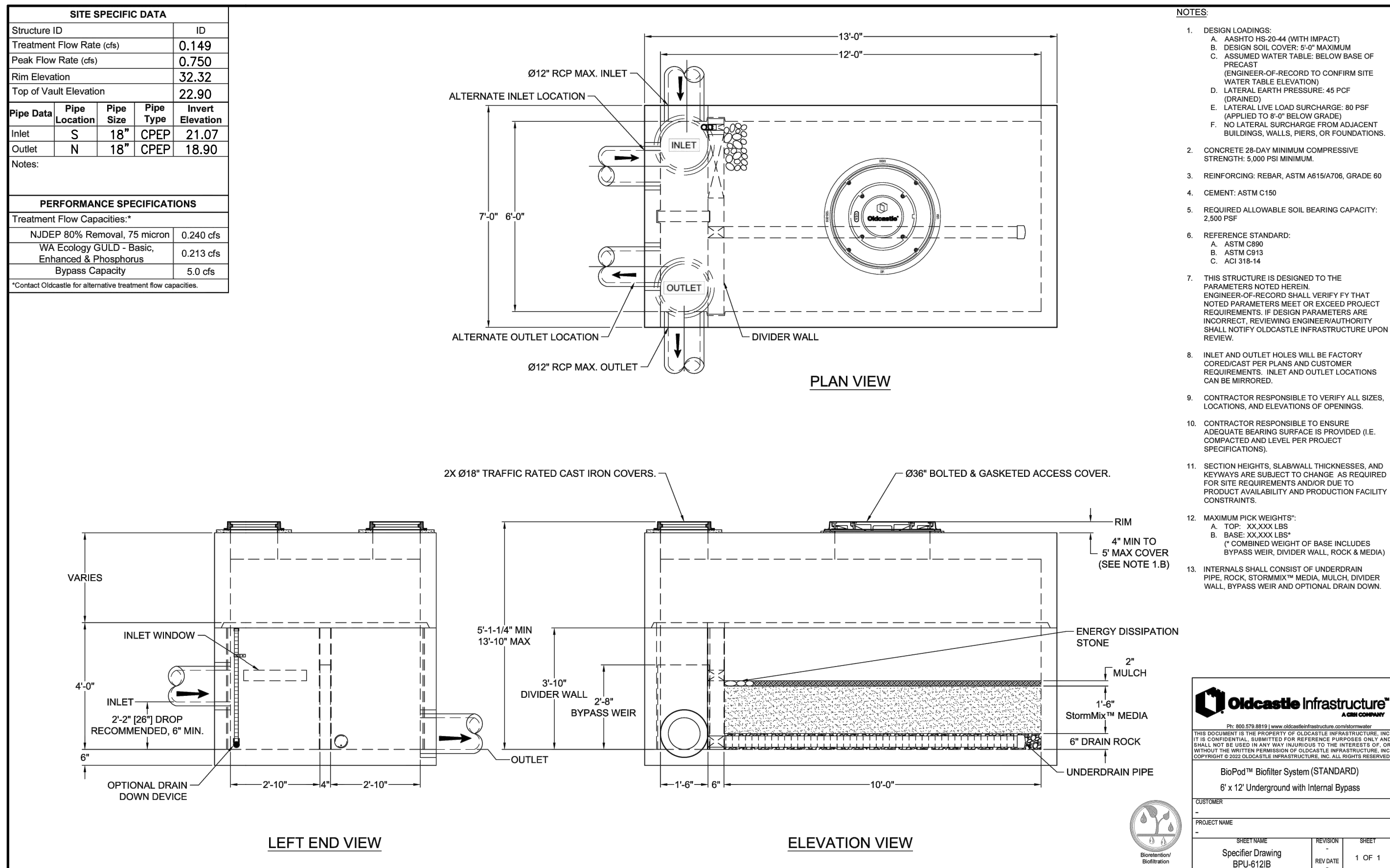
APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

PRELIMINARY CONSTRUCTION DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON

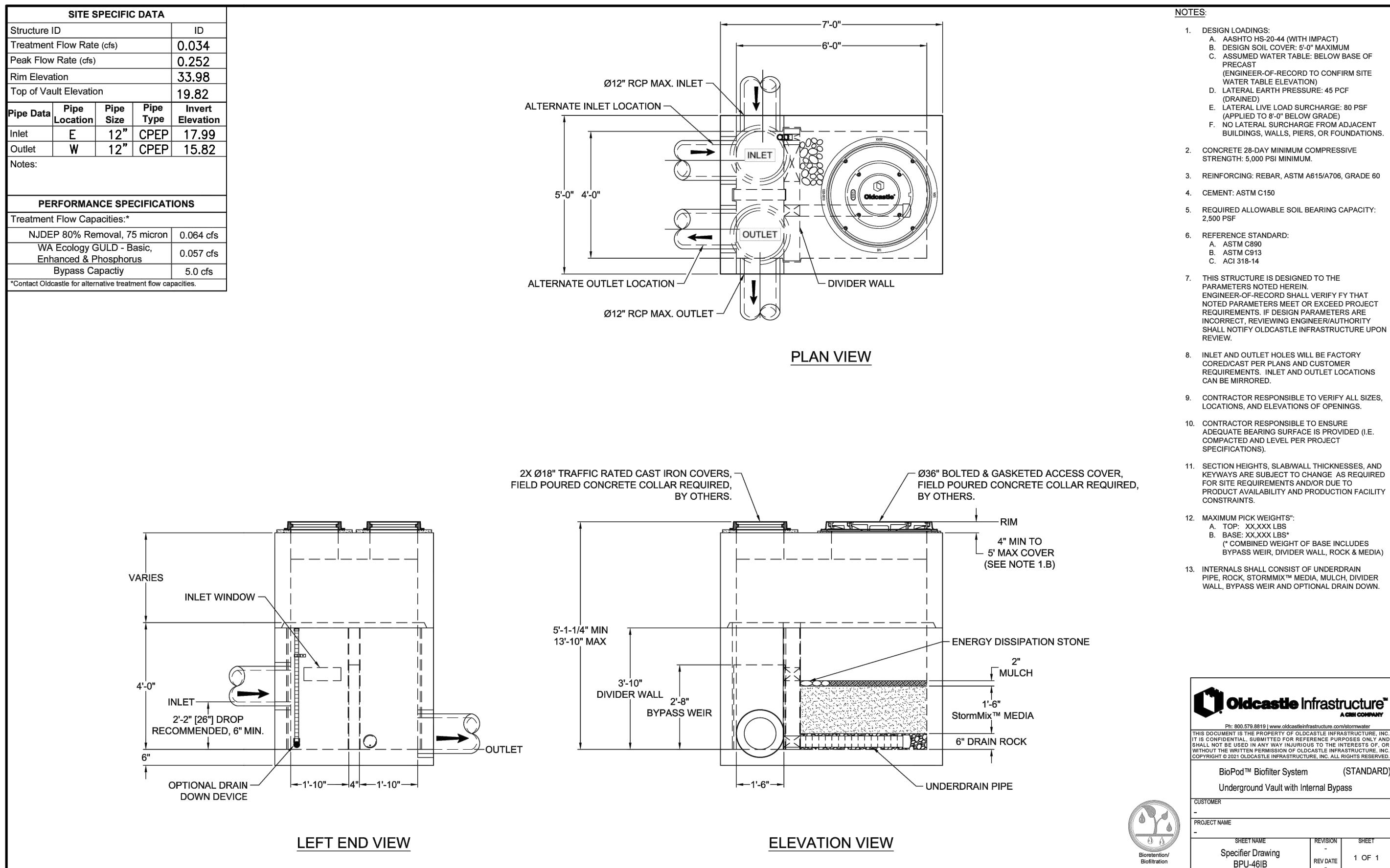
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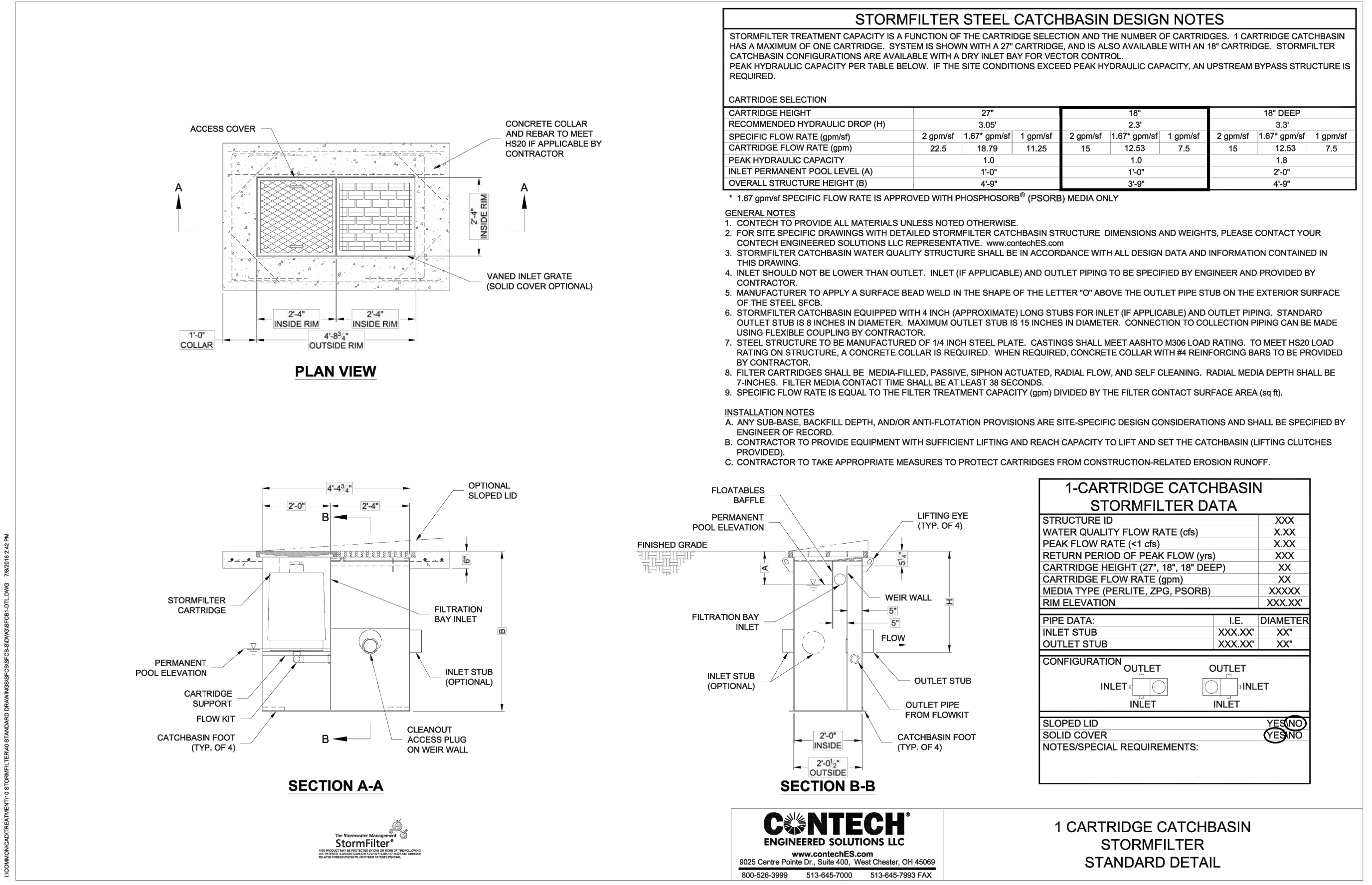
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WQ VAULT #1R



CB W/STORMFILTER



PRELIMINARY CONSTRUCTION DETAILS
FOR
FREEMAN LOGISTICS

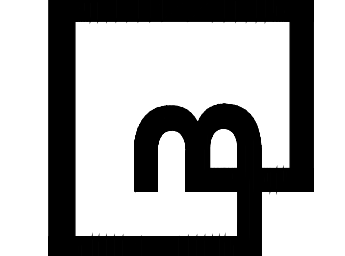
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11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale: Horizontal N/A Vertical N/A

Designed: JSM
Drawn: JSM
Checked: JSM
Approved: JSM
Date: 12/20/24

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Kent, WA 98032
425.251.6222 barghausen.com



Job Number: 21585
Sheet: C38 of 44

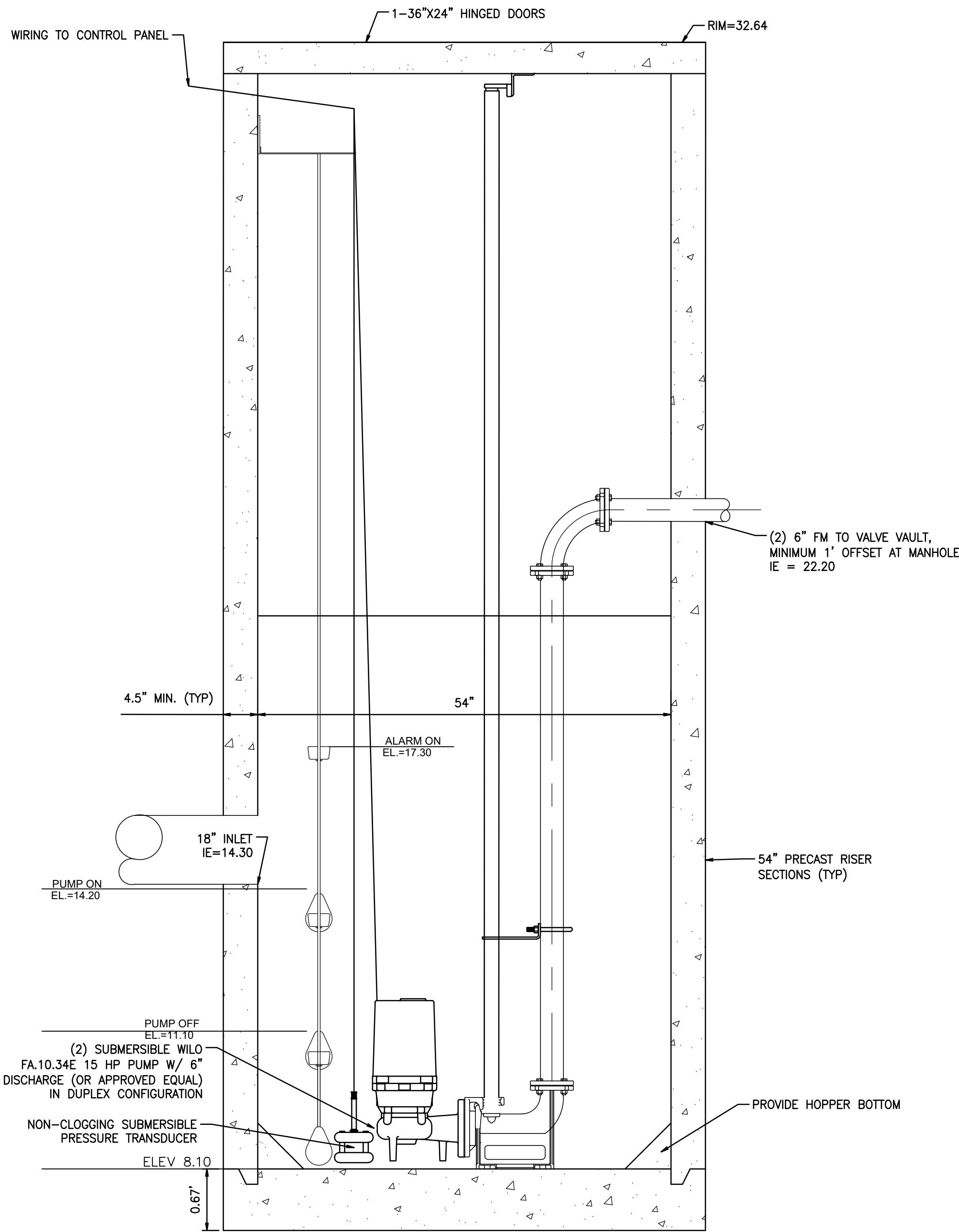
APPROVED

BY: _____ CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

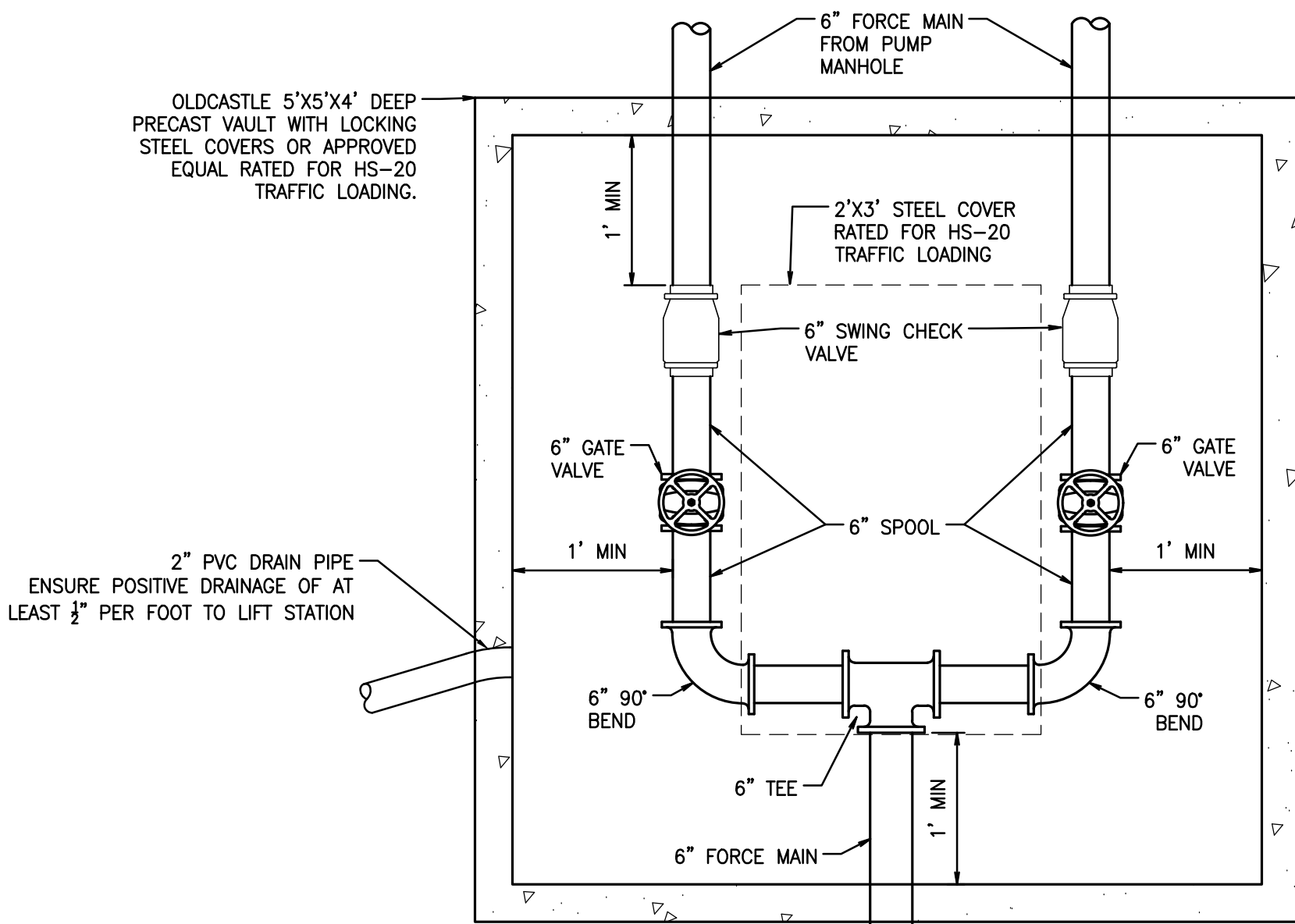
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PRELIMINARY STORM PUMP DETAILS
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



STORM PUMP MANHOLE DETAIL

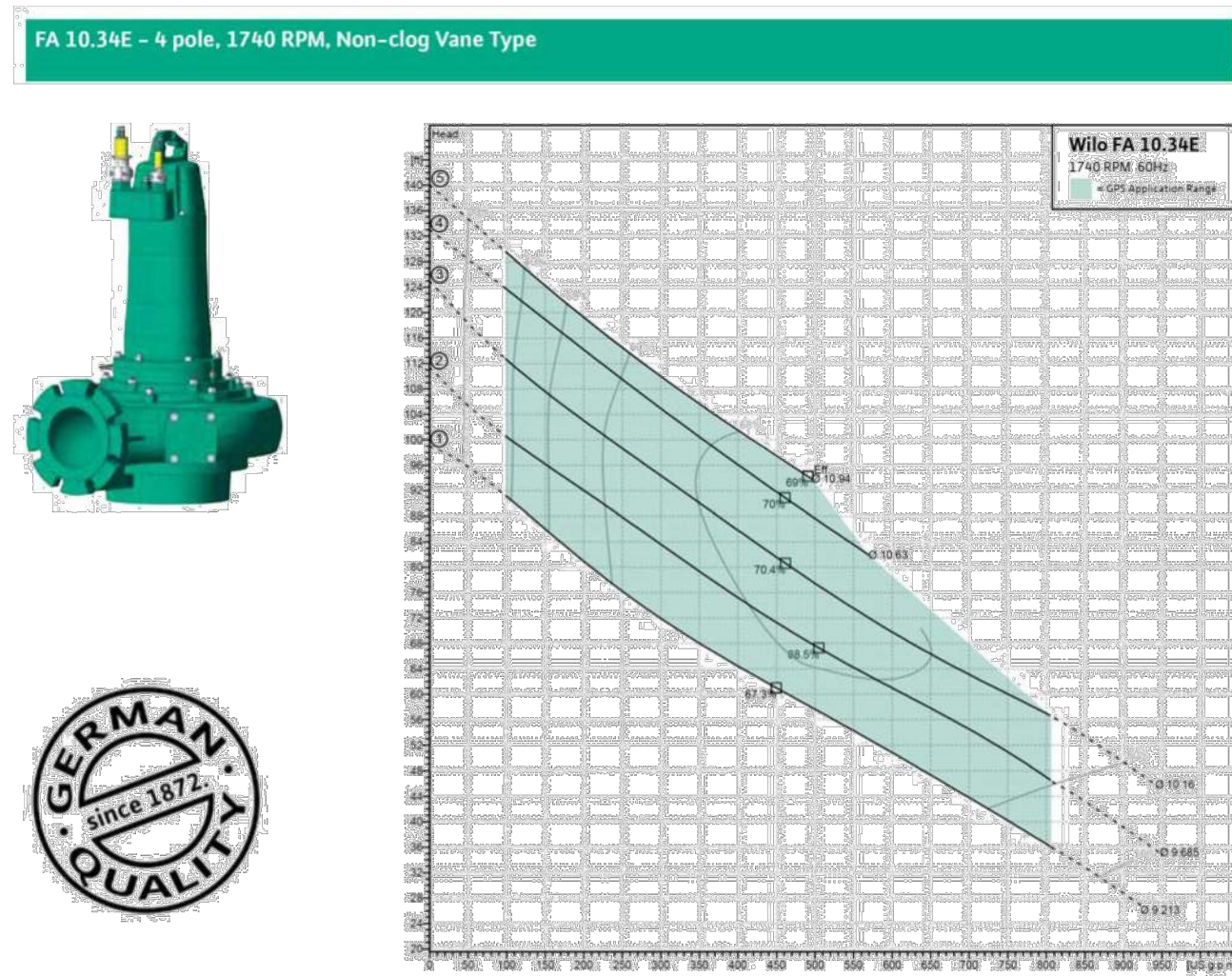
SCALE: HOR. 1"=2' VER. 1"=1'



STORM VALVE VAULT DETAIL

SCALE: NTS

Wilo Quick Ship
Equipment Submittal

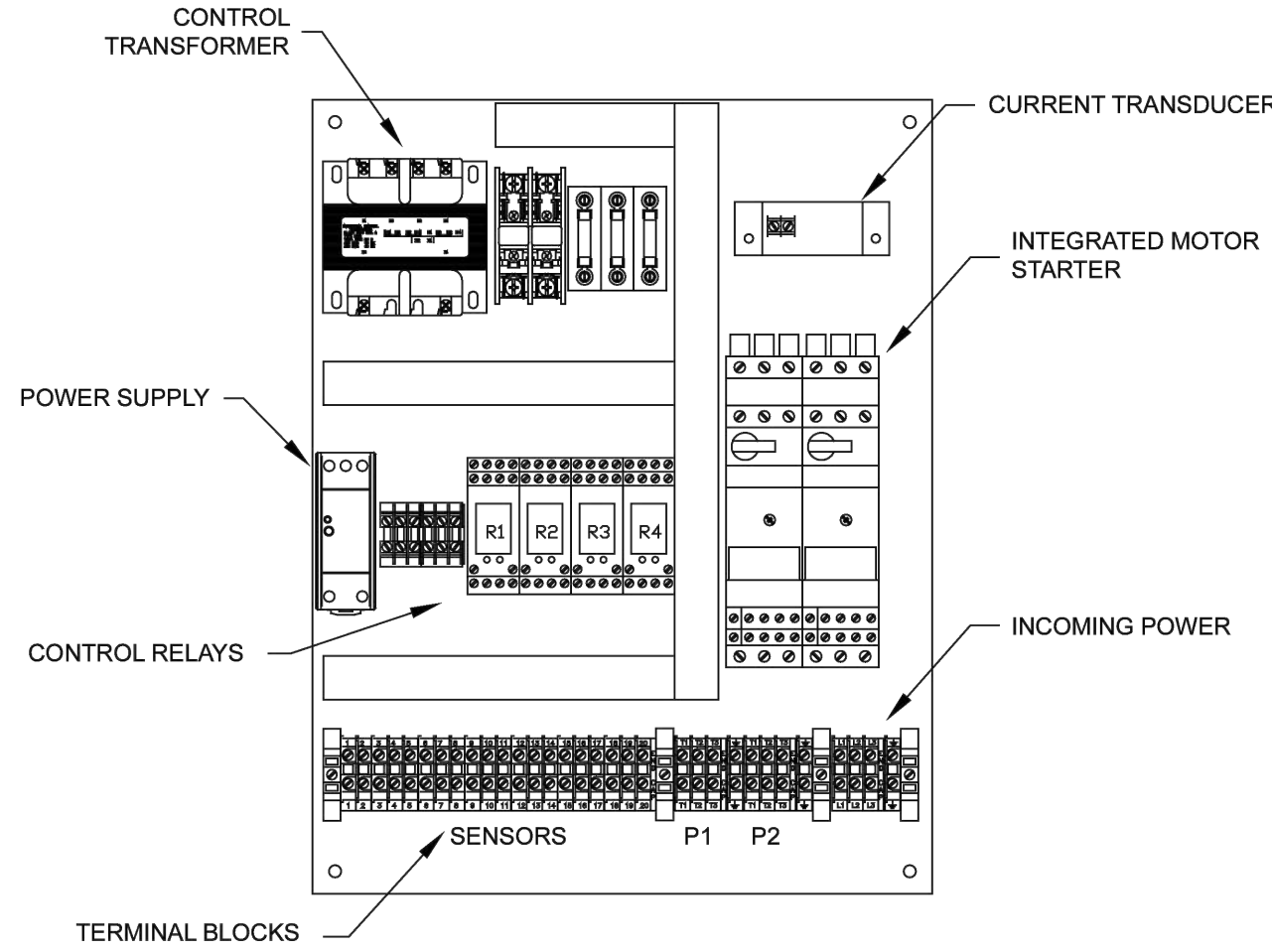
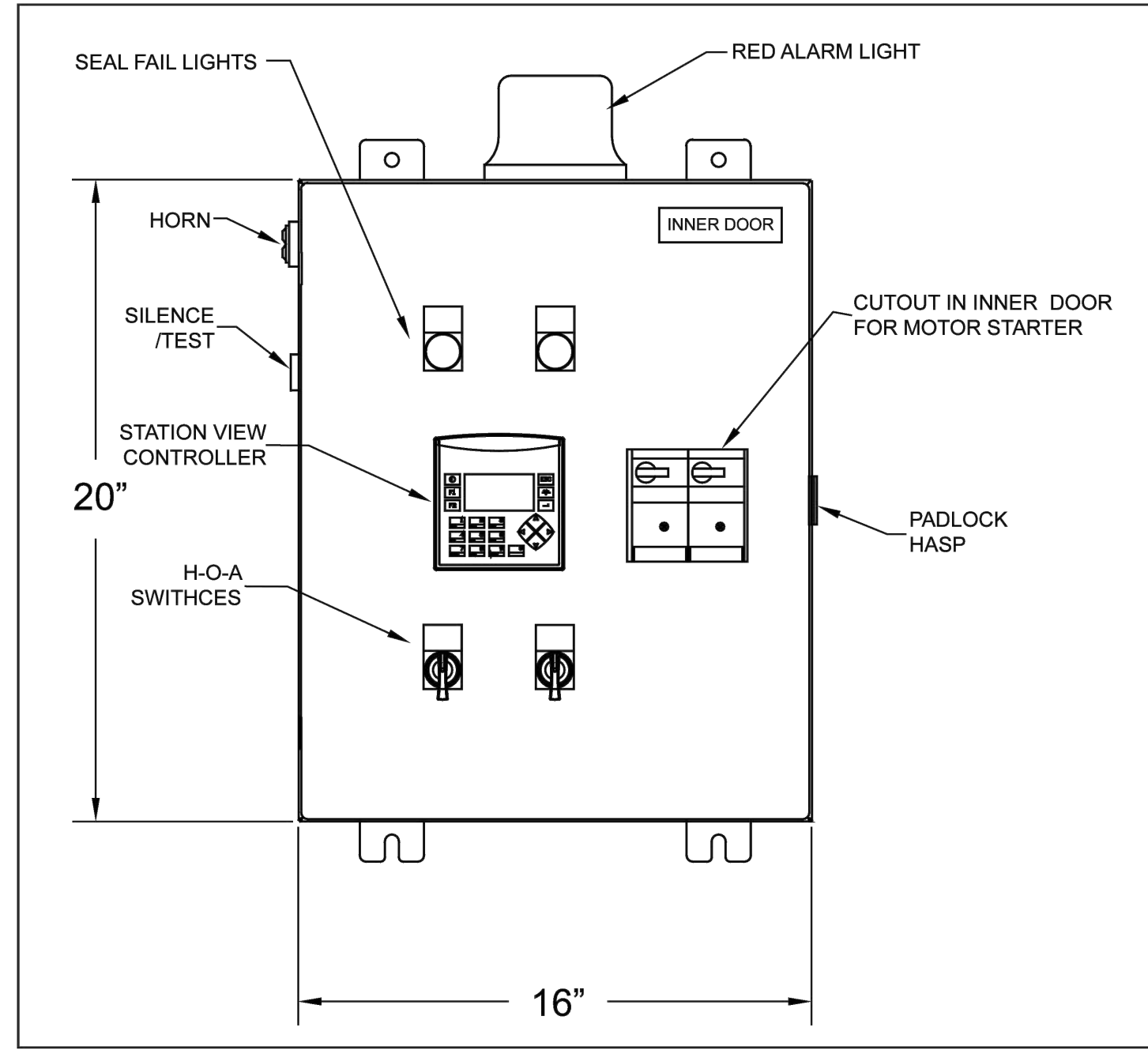


| Installation Type | Impeller Number | Impeller Diameter | Motor HP |
|-------------------|-----------------|-------------------|----------|
| Wet Pit | 2 | 8.235 | 3/4 |
| Dry Pit | 2 | 8.235 | 3/4 |
| Voltage | 2 | 8.685 | 3/4 |
| Section Size | 3 | 10.10 | 3/4 |
| Discharge Size | 3 | 10.10 | 3/4 |

| Materials of Construction | |
|---------------------------|------------------------------|
| Volute | ASTM A815 Class 35 Cast Iron |
| Impeller | ASTM A815 Class 35 Cast Iron |
| Volute Wear Ring | AISI 304 Stainless Steel |
| Impeller Wear Ring | AISI 304 Stainless Steel |

WILCO USA LLC
816 General Parkway
Thomasville, GA 31792
T + 888-945-6872
F + 888-945-6873
www.wilo-usa.com

STORM PUMP CURVE



EXAMPLE THREE PHASE DUPLEX
LIFT STATION CONTROL PANEL

SCALE: NTS

NOTES:

- EMERGENCY BACKUP GENERATOR TO BE PROVIDED BY CONTRACTOR. SIZING TO BE DETERMINED BASED ON FINAL PUMP SELECTION. GENERATOR TO BE SIZED TO ACCOMMODATE BOTH PUMPS OPERATING. CONTROL PANEL TO BE EQUIPPED WITH AUTOMATIC TRANSFER SWITCH. SEE SITE PLAN FOR SUGGESTED GENERATOR LOCATION.
- CONTROL PANEL TO BE EQUIPPED WITH VARIABLE FREQUENCY DRIVES (VFD) FOR BOTH PUMPS.

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER
180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE
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FIELD CONDITIONS MAY DICTATE
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ENGINEERING MANAGER.

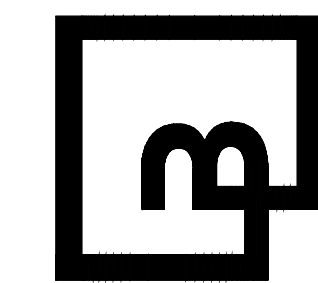
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



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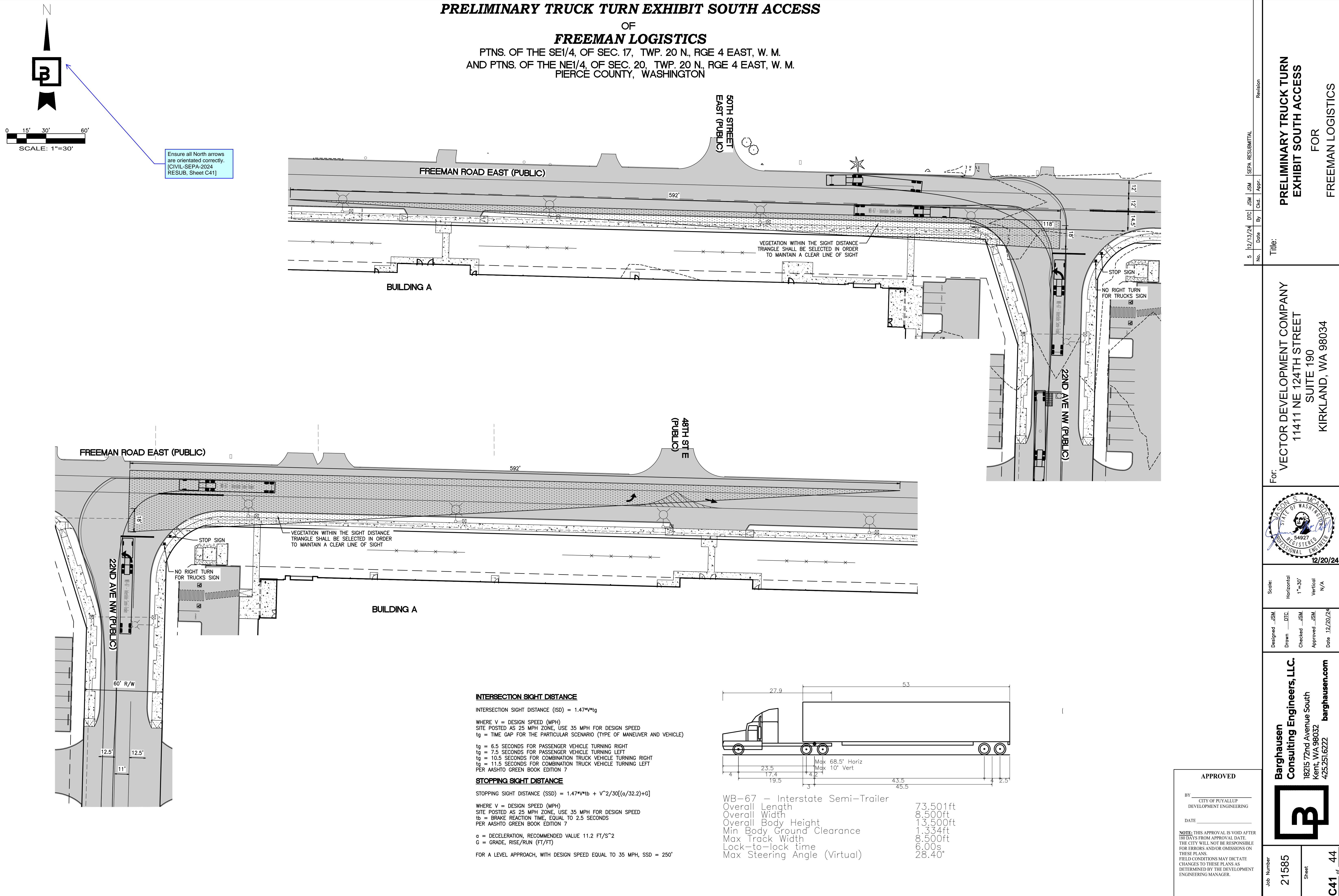
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Drawn _____
Checked _____
Approved _____
Date 12/20/24

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18215 72nd Avenue South
Kent, WA 98032
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barghausen.com



Job Number 21585
Sheet C39 of 44

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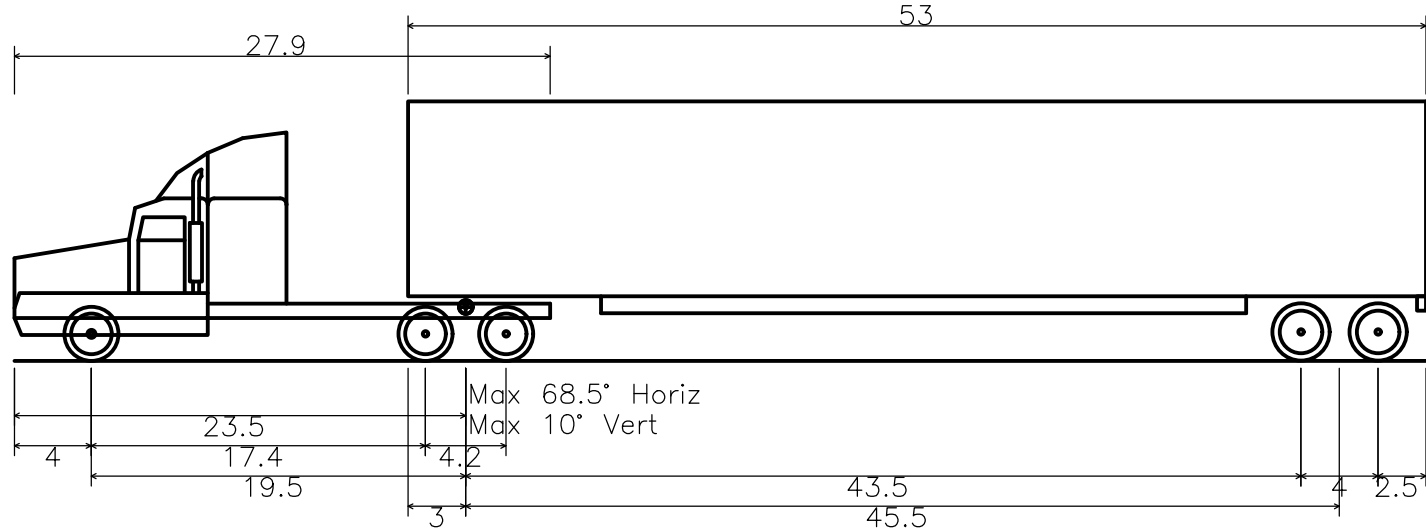
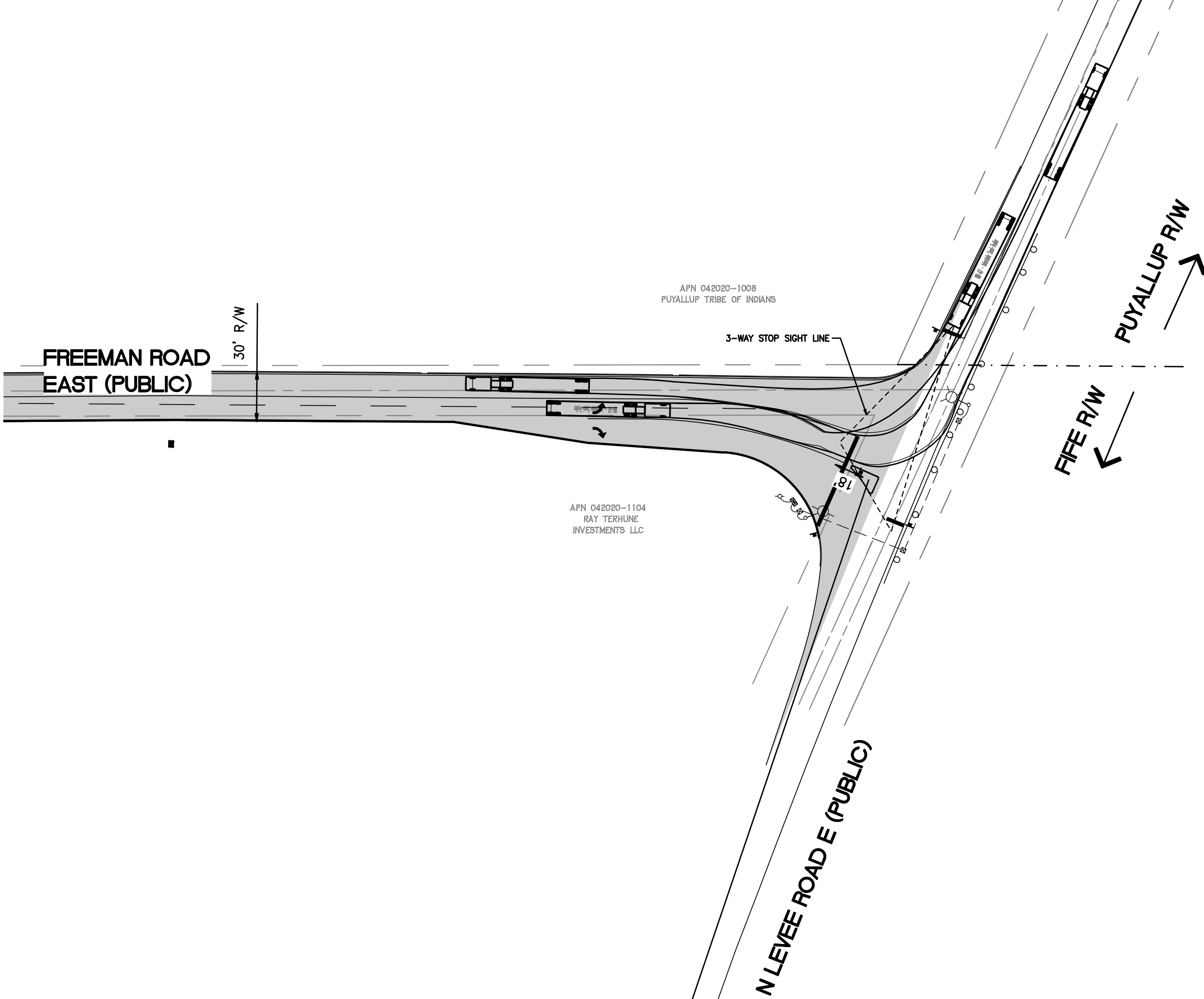
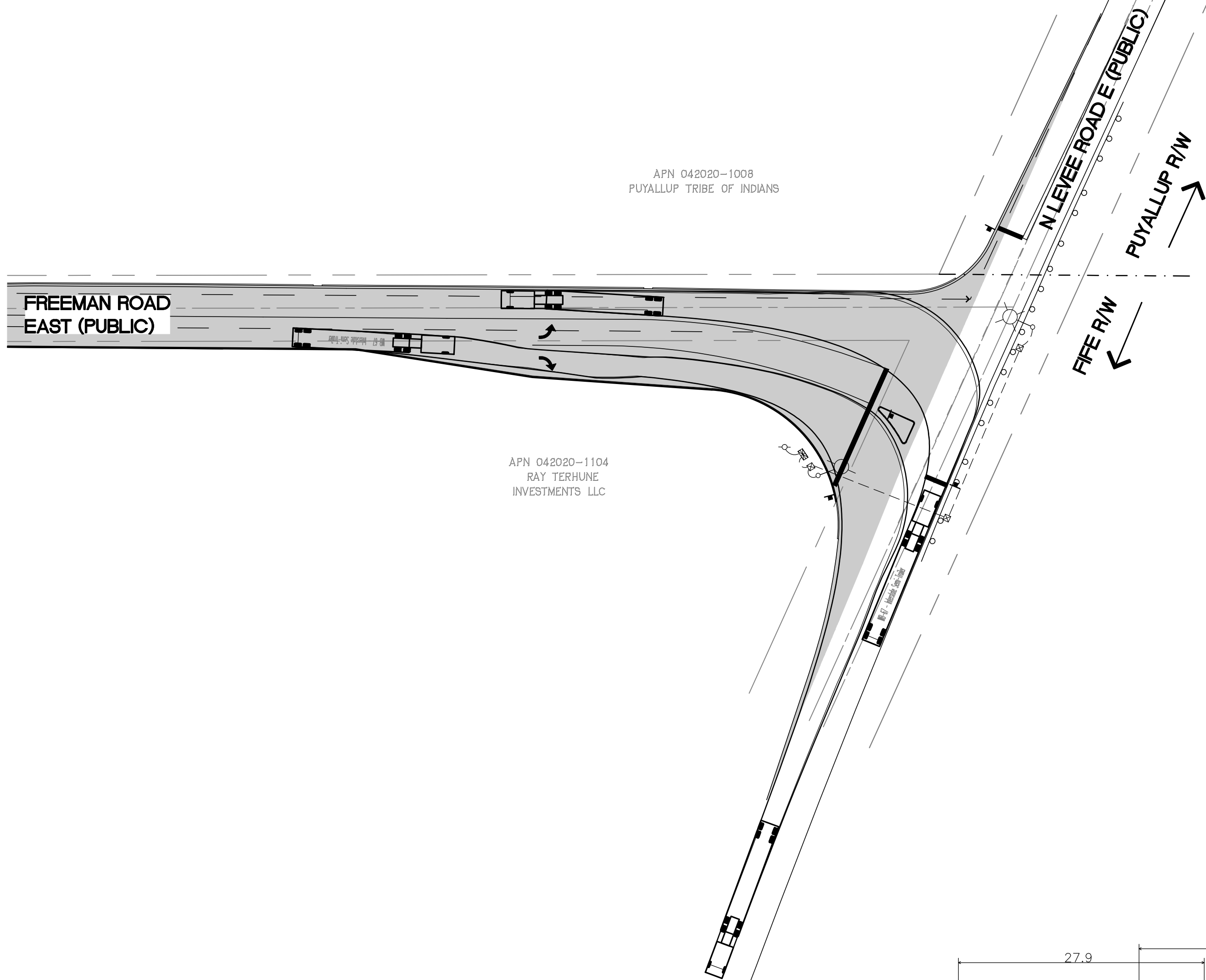
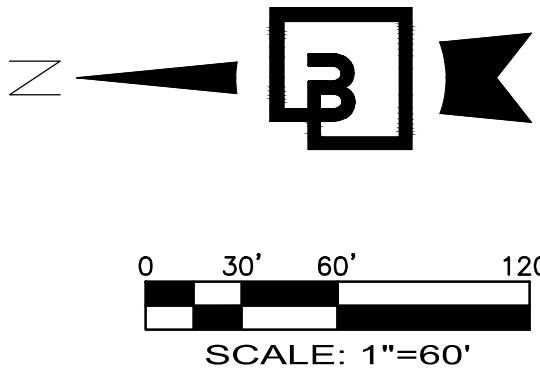
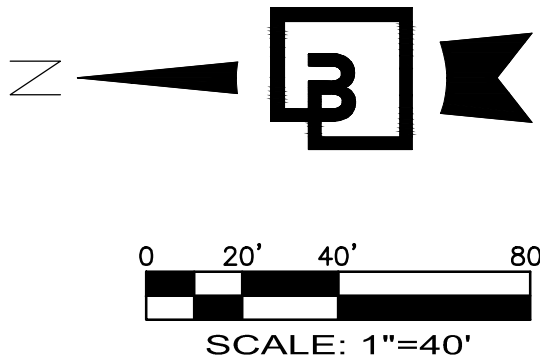


PRELIMINARY TRUCK TURN EXHIBIT FREEMAN & LEVEE

OF

FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



WB-67 - Interstate Semi-Trailer
Overall Length 73.501ft
Overall Width 8.500ft
Overall Body Height 13.500ft
Min Body Ground Clearance 1.334ft
Max Track Width 8.500ft
Lock-to-lock time 6.00s
Max Steering Angle (Virtual) 28.40°

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Revision

| | | | | | | |
|-----|----------|-----|------|-------|-----|------------------|
| 5 | 12/13/24 | DTC | JSM | JSM | JSM | SEPA RESUBMITTAL |
| No. | Date | By | Chd. | Appr. | | |

Title:

PRELIMINARY TRUCK TURN
EXHIBIT FREEMAN & LEVEE
FOR
FREEMAN LOGISTICS

For:

VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:

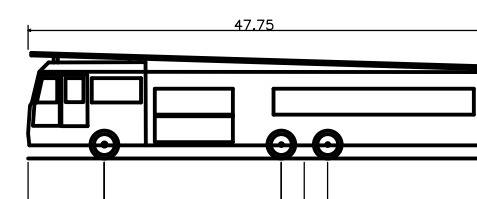
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Designed _____ JSM
Drawn _____ DTC
Checked _____ JSM
Approved _____ JSM
Date 12/20/24

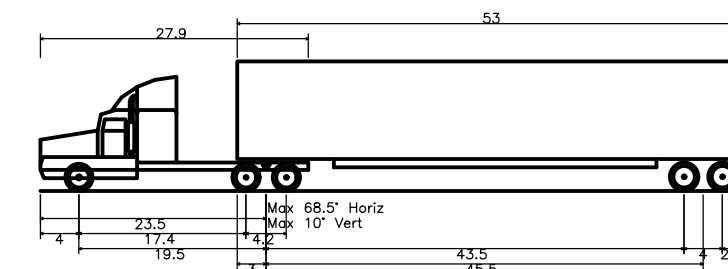
Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

Job Number 21585
Sheet C42 of 44

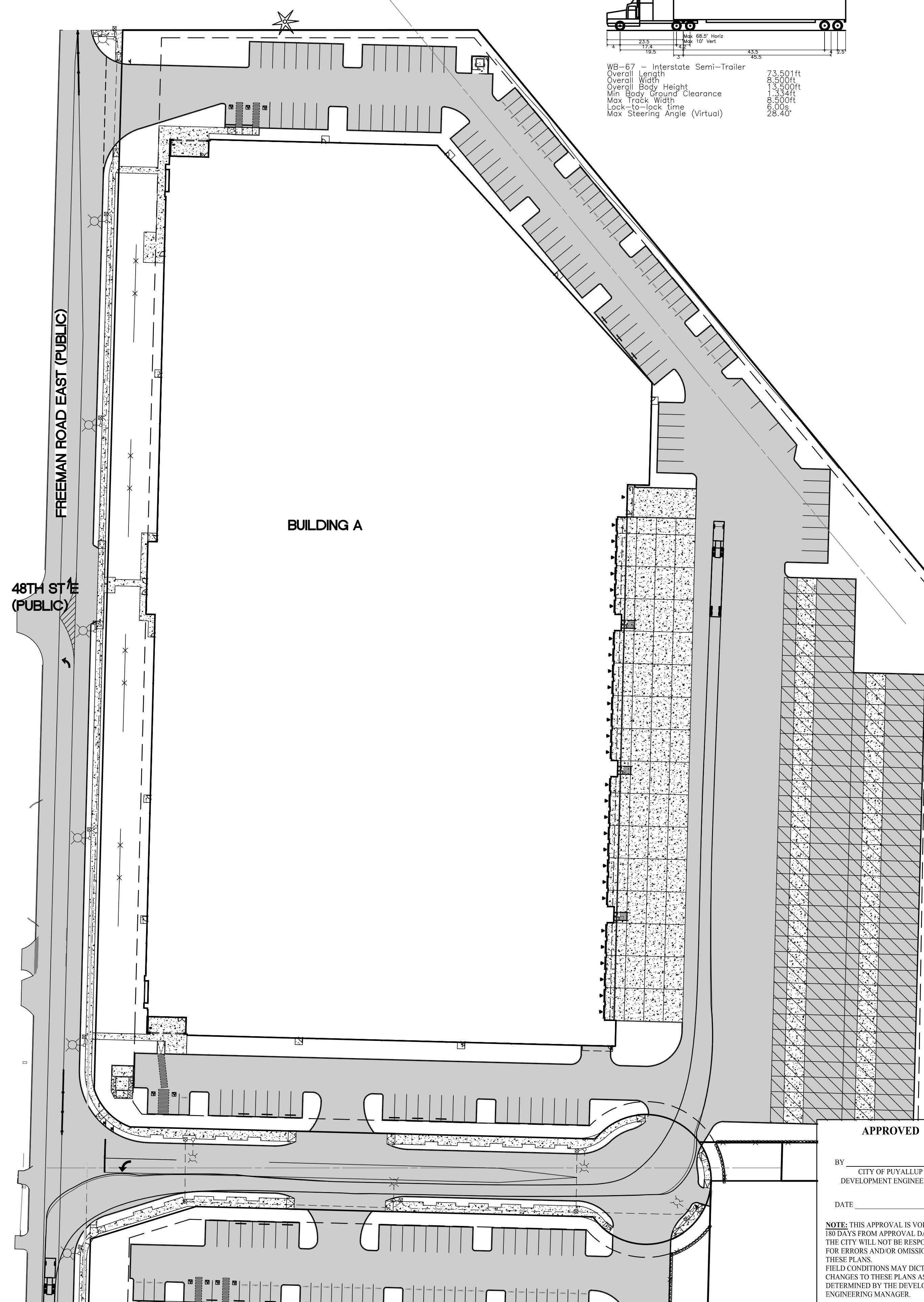
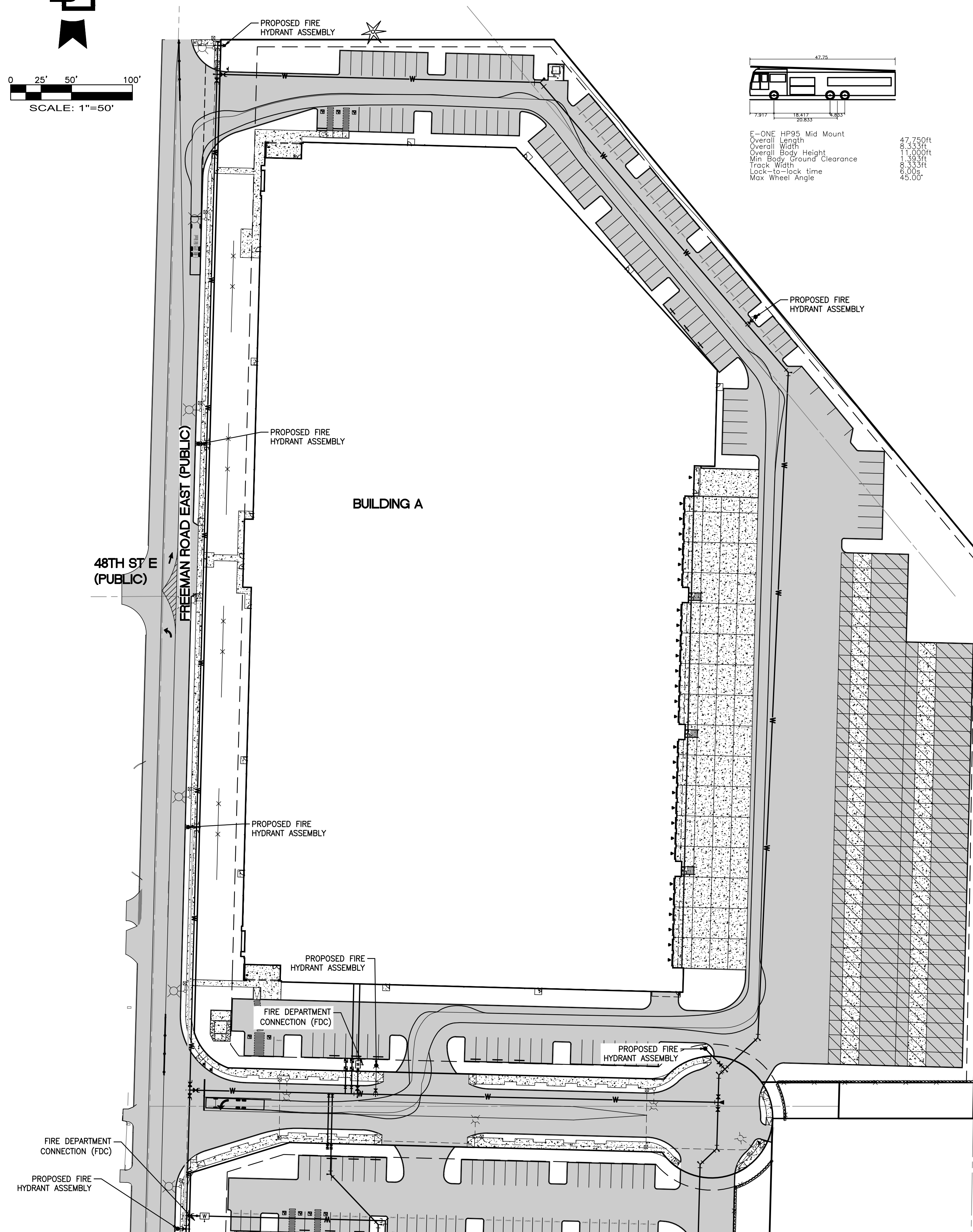
OF
FREEMAN LOGISTICS
PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



| | |
|---------------------------|----------|
| E-ONE HP95 Mid Mount | |
| Overall Length | 47.750ft |
| Overall Width | 8.333ft |
| Overall Body Height | 11.000ft |
| Min Body Ground Clearance | 1.393ft |
| Track Width | 8.333ft |
| Lock-to-lock time | 6.00s |
| Max Wheel Angle | 45.00° |



| | |
|---------------------------------|----------|
| WB-67 - Interstate Semi-Trailer | |
| Overall Length | 73.501ft |
| Overall Width | 8.500ft |
| Overall Body Height | 13.500ft |
| Min Body Ground Clearance | 1.334ft |
| Max Track Width | 8.500ft |
| Lock-to-lock time | 6.00s |
| Max Steering Angle (Virtual) | 28.40° |



APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

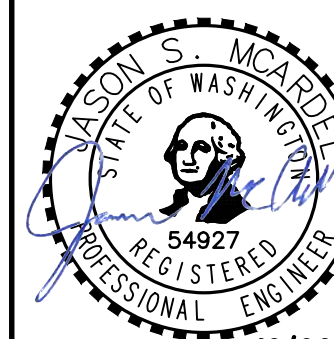
DATE _____

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| | | | | | | | |
|----|----------|----|-----|-----|-----|------------------|----------|
| No | Date | By | DTC | JSM | JSM | SEPA RESUBMITTAL | Revision |
| 5 | 12/13/24 | | | | | | |

Title:

For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034

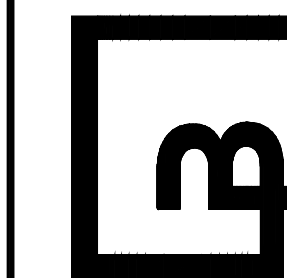


12/20/24

Scale:
Horizontal
1"=50'
Vertical

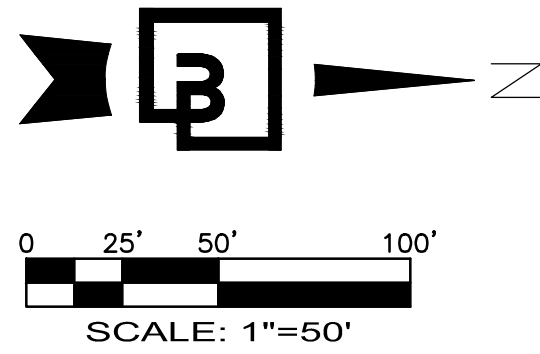
Designed JSM
Drawn DTC
Checked JSM
Approved JSM

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585

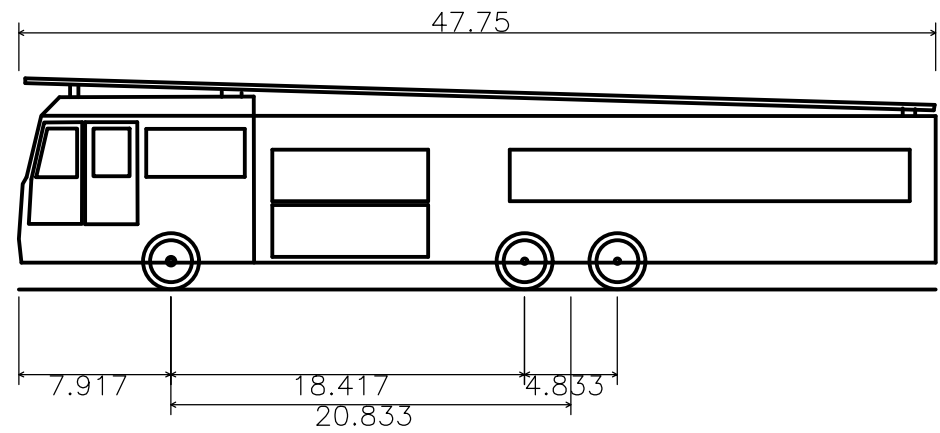
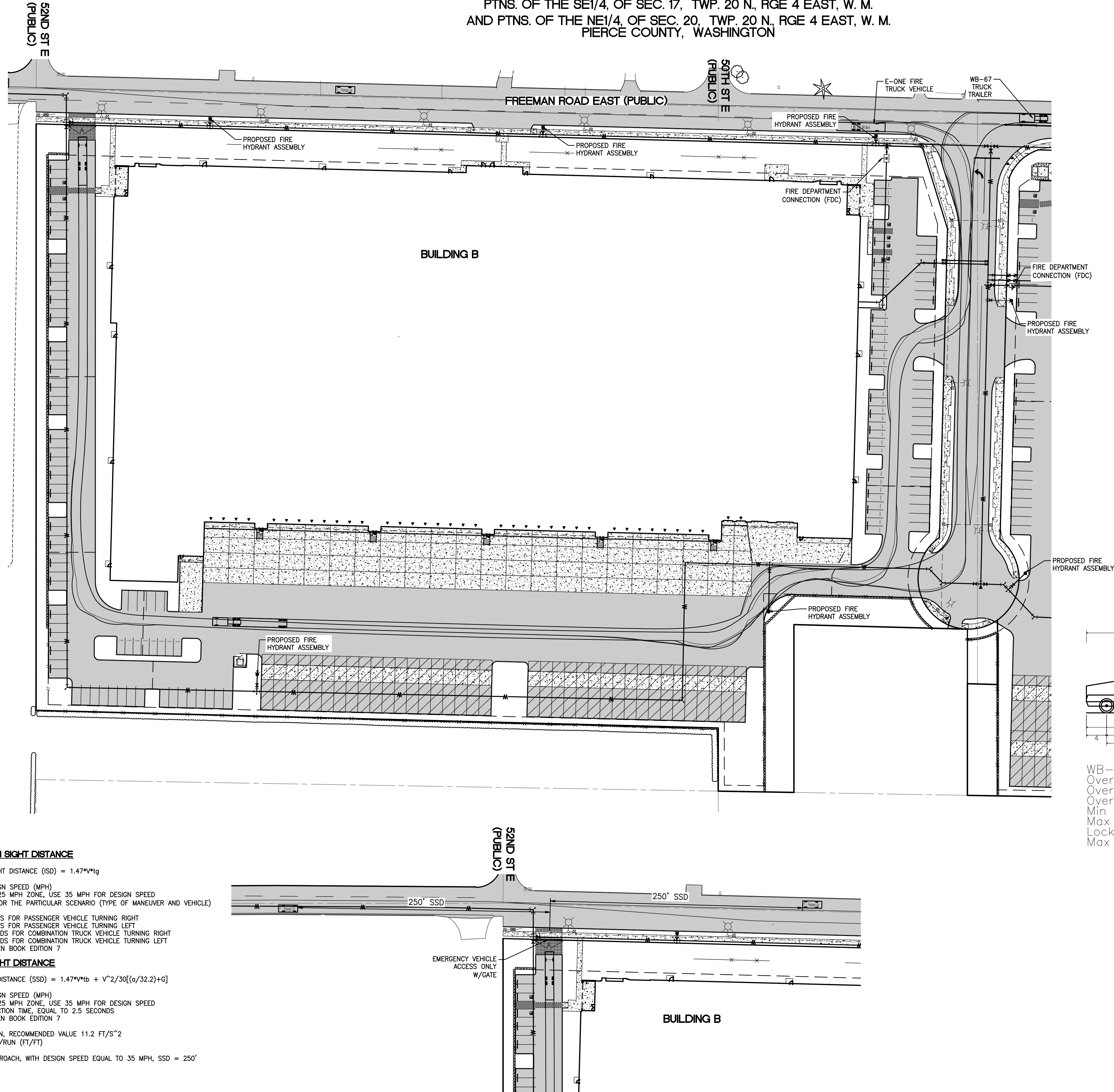
Sheet 43 of 44



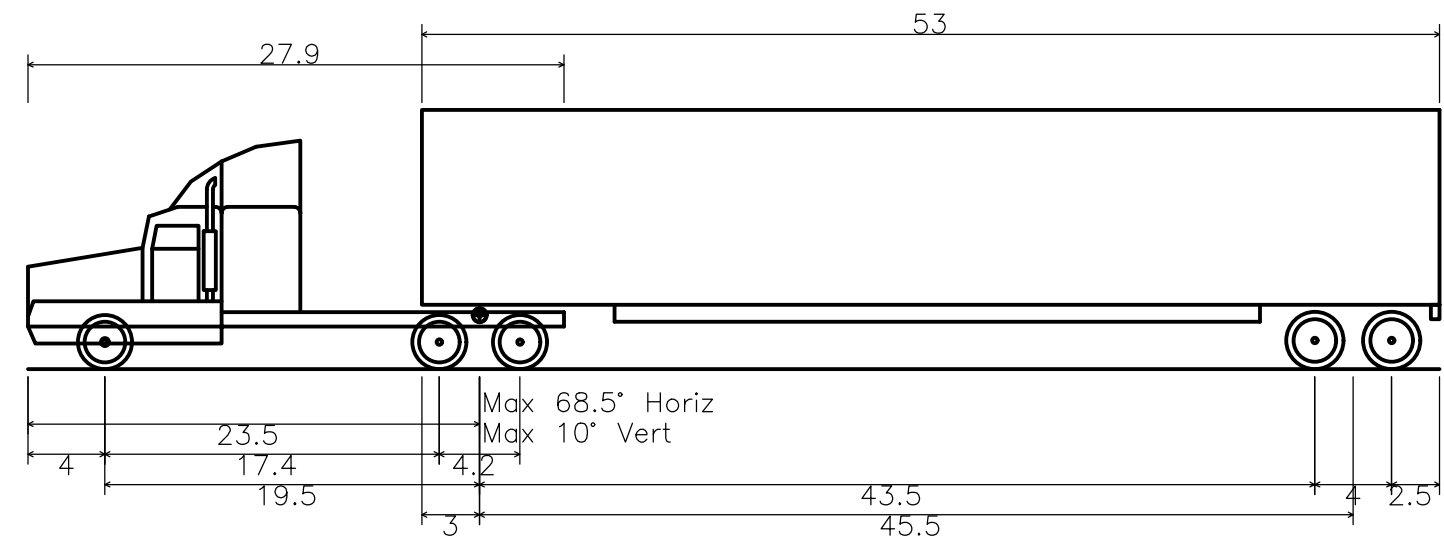
PRELIMINARY SITE CIRCULATION EXHIBIT - SOUTH

OF
FREEMAN LOGISTICS

PTNS. OF THE SE1/4, OF SEC. 17, TWP. 20 N., RGE 4 EAST, W. M.
AND PTNS. OF THE NE1/4, OF SEC. 20, TWP. 20 N., RGE 4 EAST, W. M.
PIERCE COUNTY, WASHINGTON



E-ONE HP95 Mid Mount
Overall Length 47.750ft
Overall Width 8.333ft
Overall Body Height 11.000ft
Min Body Ground Clearance 1.393ft
Track Width 8.333ft
Lock-to-lock time 6.00s
Max Wheel Angle 45.00°



WB-67 - Interstate Semi-Trailer
Overall Length 73.501ft
Overall Width 8.500ft
Overall Body Height 13.500ft
Min Body Ground Clearance 1.334ft
Max Track Width 8.500ft
Lock-to-lock time 6.00s
Max Steering Angle (Virtual) 28.40°

INTERSECTION SIGHT DISTANCE

$ISD = 1.47 \sqrt{V} \cdot t_g$

WHERE V = DESIGN SPEED (MPH)
SITE POSTED AS 25 MPH ZONE, USE 35 MPH FOR DESIGN SPEED
t_g = TIME GAP FOR THE PARTICULAR SCENARIO (TYPE OF MANEUVER AND VEHICLE)

t_g = 6.5 SECONDS FOR PASSENGER VEHICLE TURNING RIGHT
t_g = 7.5 SECONDS FOR PASSENGER VEHICLE TURNING LEFT
t_g = 10.5 SECONDS FOR COMBINATION TRUCK VEHICLE TURNING RIGHT
t_g = 11.5 SECONDS FOR COMBINATION TRUCK VEHICLE TURNING LEFT
PER AASHTO GREEN BOOK EDITION 7

STOPPING SIGHT DISTANCE

$SSD = 1.47 \sqrt{V} \cdot t_b + \frac{V^2}{30(a + G)}$

WHERE V = DESIGN SPEED (MPH)
SITE POSTED AS 25 MPH ZONE, USE 35 MPH FOR DESIGN SPEED
t_b = BRAKE REACTION TIME, EQUAL TO 2.5 SECONDS
PER AASHTO GREEN BOOK EDITION 7

a = DECELERATION, RECOMMENDED VALUE 11.2 FT/S²
G = GRADE, RISE/RUN (FT/FT)

FOR A LEVEL APPROACH, WITH DESIGN SPEED EQUAL TO 35 MPH, SSD = 250'

PRELIMINARY SITE
CIRCULATION EXHIBIT - SOUTH
FOR
FREEMAN LOGISTICS

Title:

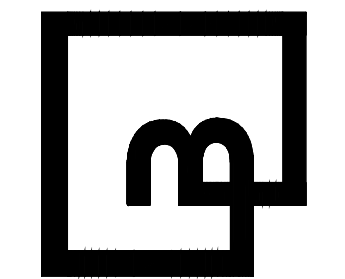
For: VECTOR DEVELOPMENT COMPANY
11411 NE 124TH STREET
SUITE 190
KIRKLAND, WA 98034



Scale:
Horizontal 1"=50'
Vertical N/A

Designed JSM
Drawn JSM
Checked JSM
Approved JSM
Date 12/20/24

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18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
21585
Sheet
C44 of 44

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE _____
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.