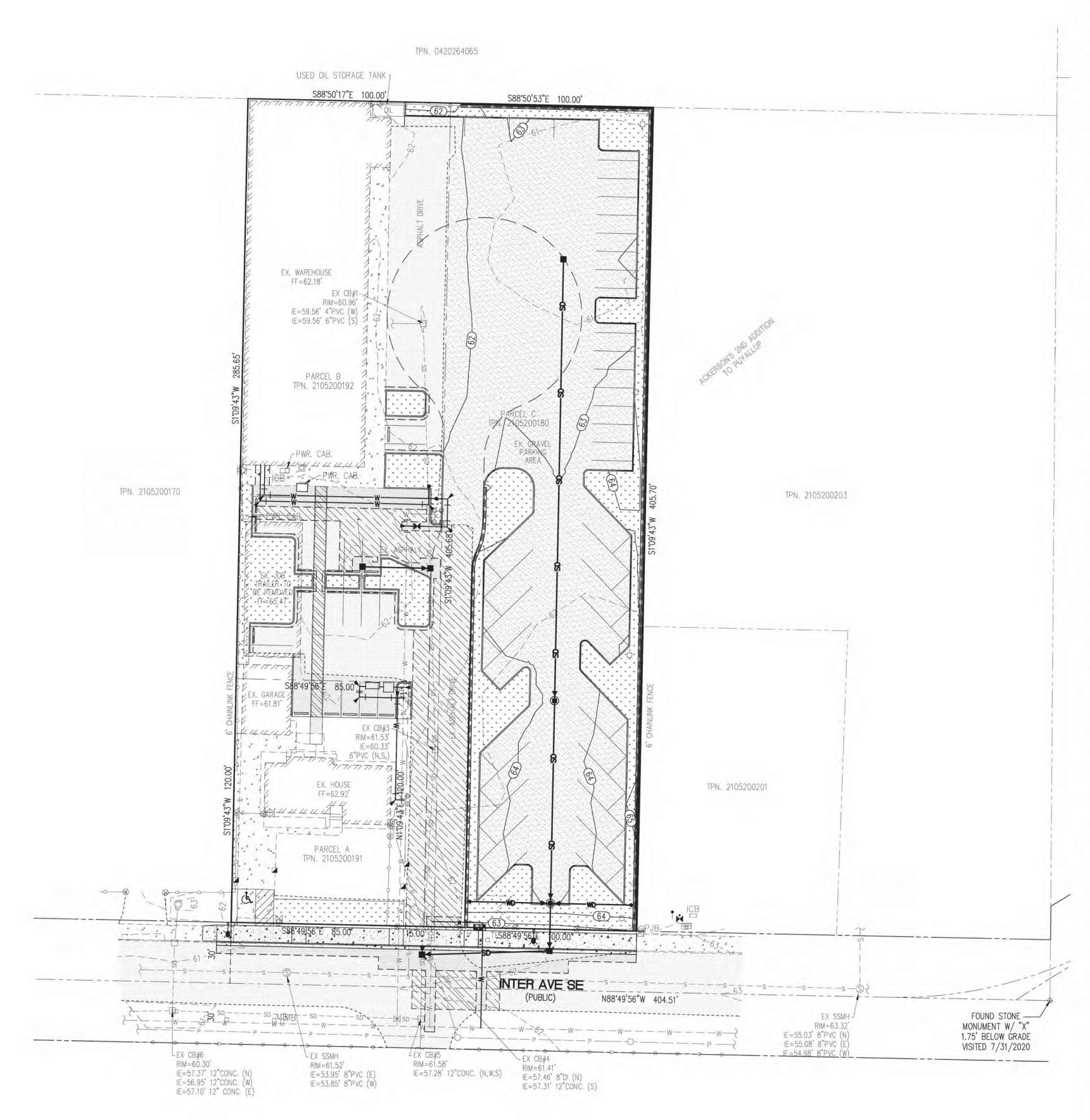
# **OLSON BROTHERS STORAGE**

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON





**COVER SHEET TESC PLAN & NOTES & DETAILS** PAVING & UTILITY PLAN INTER AVE SE PLAN & PROFILE **DIMENSIONING PLAN** NOTES AND DETAILS WATER NOTES AND DETAILS WATER NOTES AND DETAILS LANDSCAPE PLANS SURVEY TOPO MAP E-001-703 ELECTRICAL PLANS

#### **ADDRESS**

2511 INTER AVE. PUYALLUP, WA 98372

#### PARCEL NUMBERS

2105200180, 2105200191, 2105200192

#### OWNER/DEVELOPER

BPLC PROPERTIES LLC 2412 INTER AVE. PUYALLUP, WA 98372

#### ENGINEER

C.E.S NW INC. 429 29TH ST NE SUITE D PUYALLUP, WA 98372

#### SITE DATA

PARCEL 2105200180: AREA: 40,569 SF (0.93 AC)

PARCEL 2105200191: AREA: 10,200 SF (0.23 AC)

#### PARCEL 2105200192:

AREA: 30,366 SF (0.70 AC)

TOTAL SITE AREA: 81,135 SF (1.86 AC) ZONING: ML (LIMITED MANUFACTURING) SOIL TYPE: PUYALLUP SANDY LOAM

#### UTILITIES

CITY OF PUYALLUP WATER: CITY OF PUYALLUP SEWER: PUGET SOUND ENERGY POWER: GAS: PUGET SOUND ENERGY TELEPHONE: COMCAST/CENTURY LINK

SURVEY BY CES NW, INC. 429 - 29TH STREET NE, SUITE D PUYALLUP, WA 98372

#### **BASIS OF BEARING**

PHONE: 253-848-4282

NAD 83-2011 (EPOCH 2010.00), WASHINGTON STATE PLANE, SOUTH ZONE, (PER THE WASHINGTON STATE REFERENCE NETWORK). THE MONUMENTED CENTERLINE OF INTER AVENUE SOUTHEAST, BEARS N88'49'56"W.

#### LEGAL DESCRIPTION PARCEL A, TPN. 2105200191

THE WEST 85 FEET OF THE SOUTH 120 FEET OF THE WEST HALF OF TRACT 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE MAP THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

#### PARCEL B, TPN. 2105200192

THE WEST HALF OF BLOCK 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

EXCEPT THE SOUTH 120 FEET OF THE WEST 85 FEET THEREOF.

#### PARCEL C, TPN. 2105200180

THE EAST ONE-HALF OF BLOCK 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

ALL SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

#### FILL SPECIFICATION

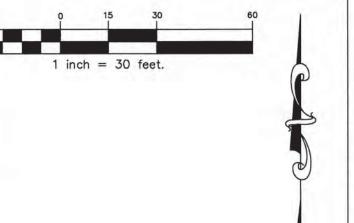
FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD. ONLY EARTH MATERIAL SHALL BE PLACED IN FILLS.

#### TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND CES NW INC. ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

#### EARTHWORK QUANTITIES

1,015 CY CUT 3,418 CY FILL 2,403 CY NET QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL VERIFY EARTHWORK QUANTITIES FOR BID PURPOSES.



NOTE: THIS APPROVAL IS VOID AFTER 80 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.

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

#### PROPERTY DEVELOPMENT STANDARDS

MIN. LOT AREA PER BUILDING SITE: 10,000 SF MIN. LOT WIDTH: MIN. LOT DEPTH: MIN. FRONT YARD SETBACK: MIN. REAR YARD SETBACK: MIN. INTERIOR SIDE YARD SETBACK: MIN. STREET SIDE YARD SETBACK: 10 MIN. STREET FRONTAGE: MAX. LOT COVERAGE: 65% MAX. BUILDING HEIGHT: 10% MIN. LANDSCAPED AREA:

#### PARCEL A PARKING REQUIREMENTS: EX HOUSE - 1 SPACE PER 300 SF OF GROSS FLOOR AREA 1,680/300 = 6 SPACES

PARCEL B & C PARKING REQUIREMENTS: WAREHOUSE - 1 SPACE PER 2,000 SF OF GROSS FLOOR AREA

OFFICE - 1 SPACE PER 300 SF OF GROSS FLOOR AREA 3,867/300 = 13 SPACES

TOTAL PARKING SPACES REQUIRED = 24

TOTAL PARKING SPACES PROVIDED = 32

PARKING BREAKDOWN: ADA STALL = 1STANDARD STALLS = 36 TRUCK STALLS = 17

8,860/2000 = 5 SPACES

ASPHALT/CONCRETE AREA: NEW CONCRETE SIDEWALK = 2,193 SF NEW ASPHALT PAVEMENT = 4,662 SF NEW PERMEABLE PAVEMENT = 28,625 SF TOTAL ASPHALT/CONCRETE = 35,480 SF

LANDSCAPE AREA: LANDSCAPE AREA INTERIOR = 6,750 SF LANDSCAPE AREA PERIMETER = 4,722 SF LANDSCAPE AREA PROVIDED = 11,472 SF

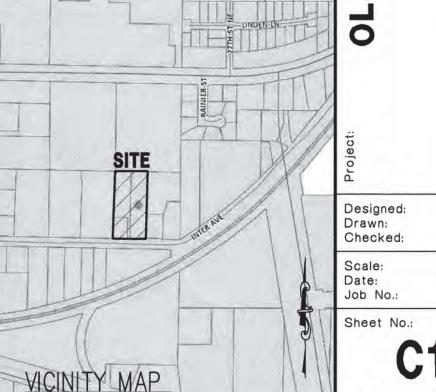
CLEARED AREA = 48,615 SF

#### LEGEND

EXISTING	DESCRIPTION	PROPOSED
$\oplus$	MONUMENT	•
	MONUMENT LINE -	
	PROPERTY LINE -	
	- RIGHT OF WAY LINE -	
	EASEMENT LINE -	
-0 0 0	CHAIN LINK FENCE -	0 0 0
	CURB & GUTTER =	
	- EDGE OF PAVEMENT -	
1 300-	CONTOURS	(400)
	STREET SIGN	•
	STORM DRAIN CATCH BASIN	<b>I</b>
(D)	STORM DRAIN MANHOLE	
0	STORM DRAIN CLEANOUT	•
SD	STORM DRAIN LINE -	SD
	WALL DRAIN LINE -	WD
(\$)	SANITARY SEWER MANHOLE	
0	SANITARY SEWER CLEANOU	T •
s	- SANITARY SEWER LINE -	s
	S SANITARY SEWER STUB -	SS
Q	FIRE HYDRANT	~
$\bowtie$	WATER VALVE	H
H	WATER METER	
	THRUST BLOCKING	-
— W —	WATER MAIN -	w
	LUMINAIRE	
-0-	POWER/UTILITY POLE	
	SAWCUT LINE	
	ASPHALT CONCRETE	
4 4 4 4	CEMENT CONCRETE	4.4.4.
	PERMEABLE ASPHALT	
	GRIND/OVERLAY	

LANDSCAPE AREAS

LANDSCAPE WALL



ROTHI COVER

7/20/22 20083

of 20 Sheets

THESE PLANS ARE PRELIMINARY UNLESS THE JURISDICTIONAL APPROVAL BOX HAS BEEN SIGNED. 2. CAD FILE WILL BE PROVIDED BY ENGINEER TO AID IN ESTABLISHING HORIZONTAL CONTROL.

3. SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

CALL 48 HOURS BEFORE YOU DIG **DIAL 811** 

\*FILTER FABRIC-

2"x2"x14 GA WELDED WIRE FABRIC OR EQUAL

BURY BOTTOM OF FILTER FABRIC

SILTATION FENCE

MATERIAL

BURY BOTTOM OF

TYPICAL CROSS SECTION

- 2"x4" DOUGLAS FIR AT 4' O.C.

WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION

PUYALLUP

DEVELOPMENT ENGINEERING and

PUBLIC WORKS DEPARTMENTS

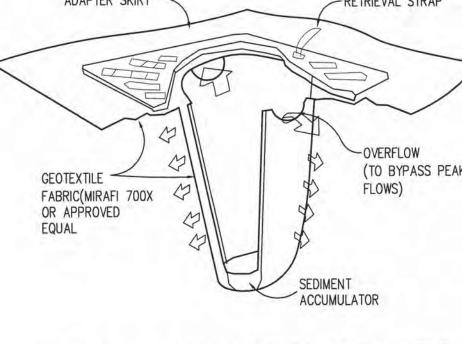
FACILITY OR THROUGH A SILT FENCE.

NOT EXCEPTABLE.

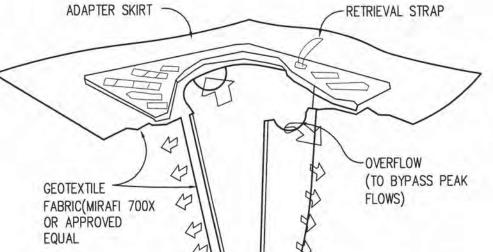
\*FILTER FABRIC TO BE

DETERMINED BY DESIGN

CLEARING LIMITS/SILT FENCE LOCATION



PROVIDE CB INSERT "STREAMGUARD FOR SEDIMENT" OR APPROVED EQUAL MANUFACTURER'S NAME: FOSS ENVIRONMENTAL ADDRESS: FOR INFORMATION: (800) 909-3677 TELEPHONE:



200 SW MICHIGAN STREET SEATTLE, WA 98106



# OLSON BROTHERS STORAGE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E WILLAMETTE MERIDIAN. PIERCE COUNTY. WASHINGTON

#### CONSTRUCTION SEQUENCE

1. THE CONTRACTOR IS TO REQUEST A PRE-CONSTRUCTION MEETING WITH THE CITY'S INSPECTOR.

CLEARLY STAKE, FLAG OR FENCE CLEARING LIMITS/WORK AREA. NO WORK SHALL BE PERFORMED OUTSIDE THESE LIMITS WITHOUT PRIOR APPROVAL FROM THE CITY OF PUYALLUP.

PRIOR TO STARTING SITE WORK, REQUEST AN INSPECTION FOR EROSION AND SEDIMENT, INSPECTION CODE #1010, BY CALLING THE INSPECTION REQUEST LINE AT 1-877-232-6456.

PROVIDE SILT FENCING AS SHOWN ON THE APPROVED PLANS

GRADE SITE AS SHOWN ON THE APPROVED PLANS. CONSTRUCT THE CONVEYANCE SYSTEM AND INSTALL INLET PROTECT ON THE NEW CATCH BASINS.

INSTALL FILTER FABRIC AND PERMEABLE BALLAST. CONSTRUCT ONSITE PLANTERS AND PAVE THE STORAGE AREA.

CONSTRUCT FRONTAGE IMPROVEMENTS AND AMEND THE LANDSCAPE AND LAWN AREAS WITH SOIL AMENDMENTS. AMEND SOILS PER CS 01.02.08A ON SHEET C2.

RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH CITY OF PUYALLUP AND DEPARTMENT OF ECOLOGY EROSION AND SEDIMENT CONTROL STANDARDS.

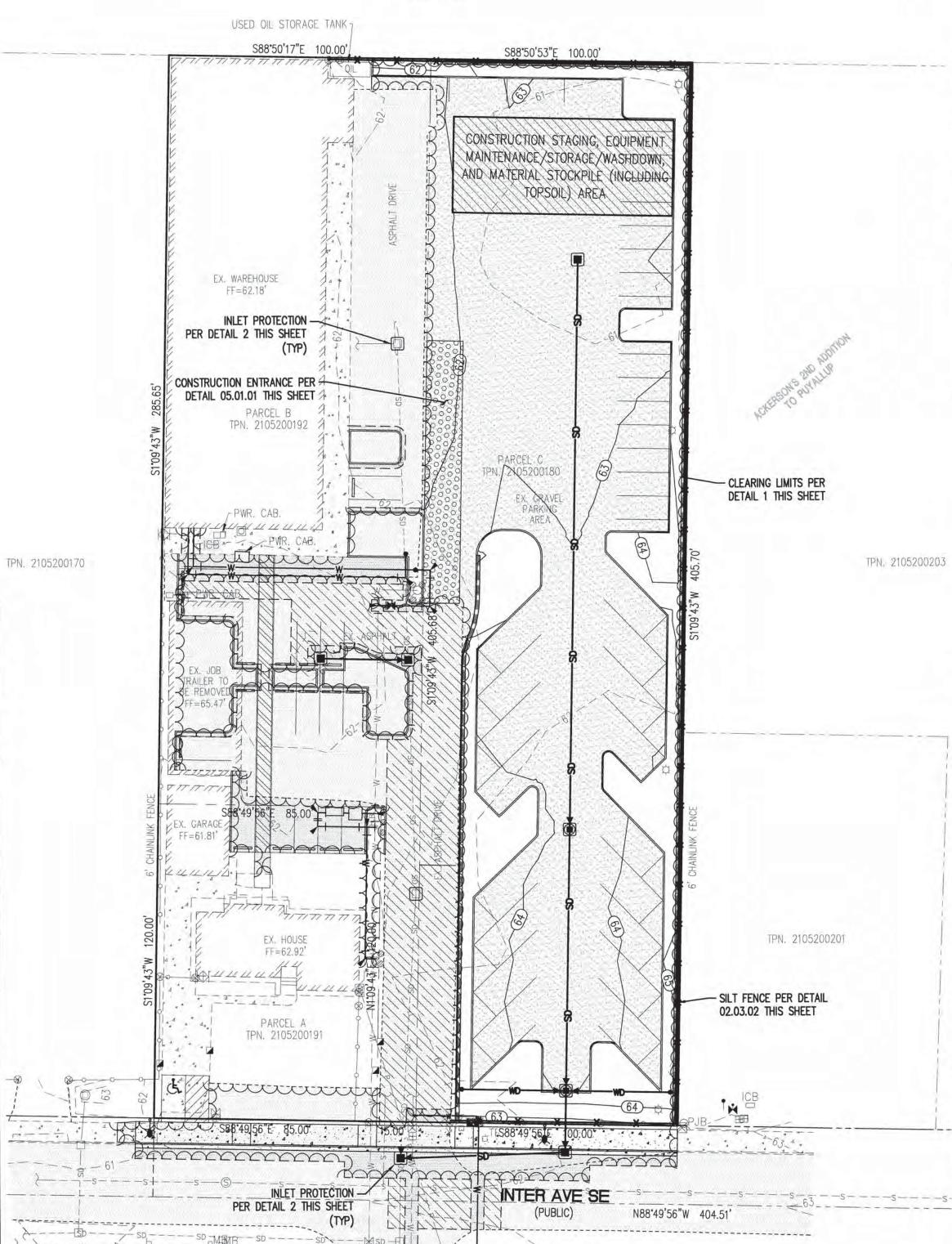
12. COVER ALL AREAS, INCLUDING STOCKPILES, THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, PLASTIC SHEETING OR EQUIVALENT.

13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.

15. CALL FOR FINAL INSPECTIONS. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

TPN. 0420264065



## GRADING, EROSION AND SEDIMENTATION CONTROL NOTES:

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

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 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 ON-SITE 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 JNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION 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

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.

TPN. 2105200203 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 INCLUSIVE. 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

> 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.

13. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

- 1. EROSION/SEDIMENTATION CONTROL MEASURES MUST BE FUNCTIONAL AND MAINTAINED DURING
- CONSTRUCTION. SOIL STOCK PILES TO BE COVERED WITHIN 24 HOURS.
- 3. MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURE.
- 4. AREAS TO BE DISTURBED ARE THE FOOTPRINT, PATIO, DRIVEWAY, & WALKWAY AREA W/ THE BALANCE OF THE LOT UNDISTURBED.
- 5. DRIVEWAY PAVING MATERIAL TO BE CONCRETE.

#### **MULCHING NOTES**

- 1. MULCH MATERIALS USED SHALL BE HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF 75-100 POUNDS PER 1,000 SQUARE FEET, OR 90-120 BALES PER ACRE TO A MIN. DEPTH OF 2 INCHES. 2. MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GRATER THAN 2:1.
- 3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED
- BECAUSE OF THE SEASON.
- 4. ALL AREAS NEEDED MULCH SHALL BE COVERED BY NOVEMBER 1.

#### TEMPORARY ESC MEASURES REQUIRED

- 2. VEGETATION AND STABILIZATION OF EXPOSED SURFACES
- STOCKPILE PROTECTION. 4. ADDITIONAL MEASURES MAY BE REQUIRED.

## SEED MIXTURE FOR EROSION CONTROL

NAME:	% BY WEIGHT:	% PURITY:	% GERMINATIO
REDTOP	10 PERCENT	92 PERCENT	90 PERCENT
(AGROSTIS ALBA) ANNUAL RYE	40 PERCENT	98 PERCENT	90 PERCENT
(LOLIUM MULTIFLORUM) CHEWING FESCUE	40 PERCENT	97 PERCENT	80 PERCENT
	NUTATA — JAMESTOWN, 10 PERCENT	BANNER, SHADOW, 96 PERCENT	or KORBET) 90 PERCENT



APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.

THE CITY WILL NOT BE RESPONSIBLE

FOR ERRORS AND/OR OMISSIONS ON

DETERMINED BY THE DEVELOPMENT

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

ENGINEERING MANAGER.

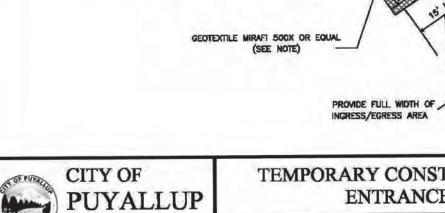
CITY OF PUYALLUP

0 2

Drawn:

Checked: Scale: 7/20/22 Date: 20083 Job No.:

Sheet No.



PUBLIC WORKS DEPARTMENTS

TEMPORARY CONSTRUCTION **ENTRANCE** 

CITY OF PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND

), THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM

EDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND

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.

, ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED

SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING

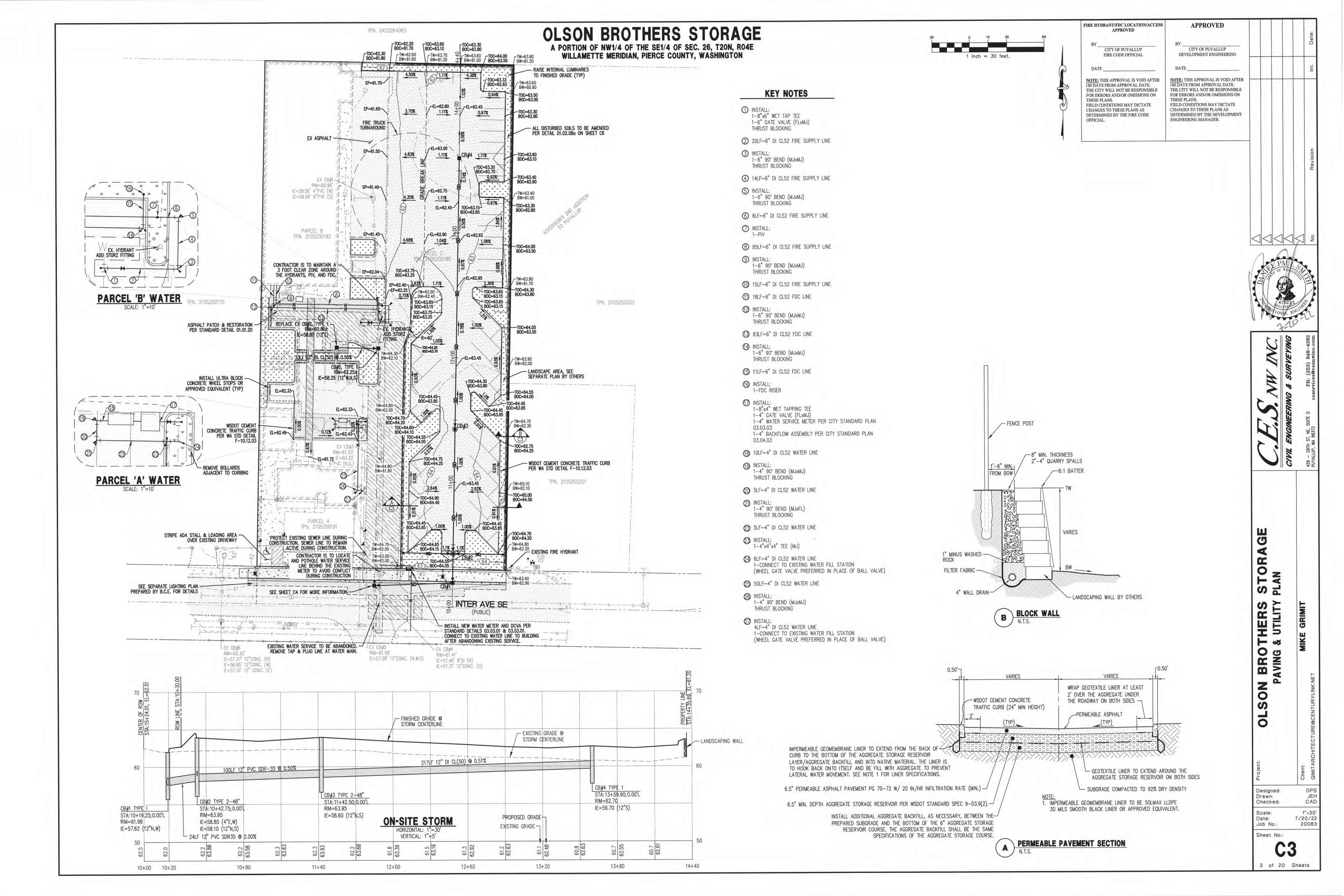
APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. 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 INCLUSVE, SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY TH

6. 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.

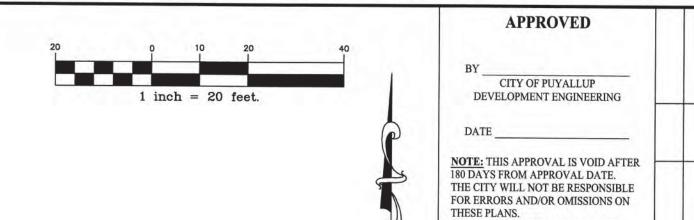
7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

SEDIMENTATION CONTROL NOTES



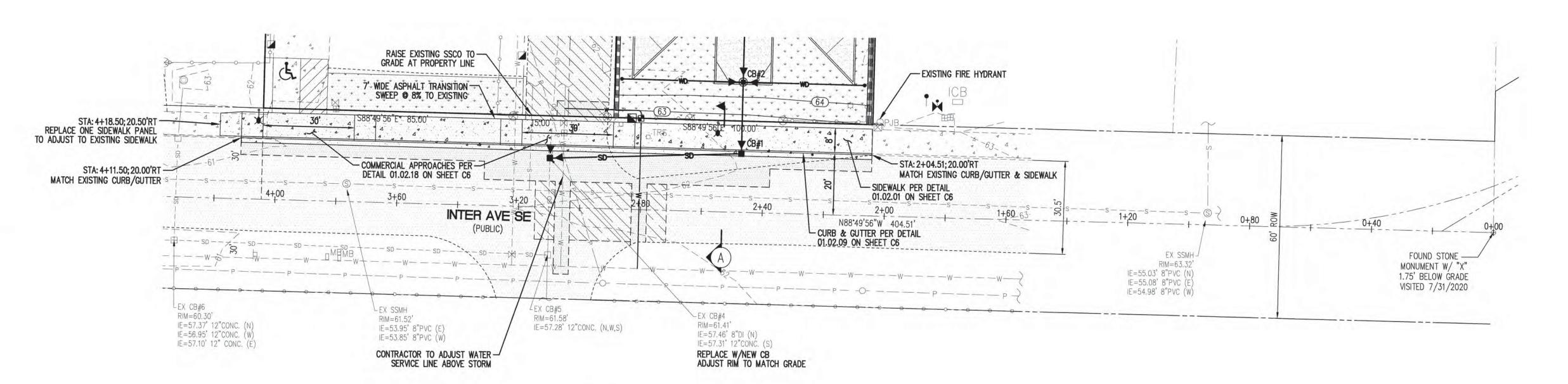
# OLSON BROTHERS STORAGE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

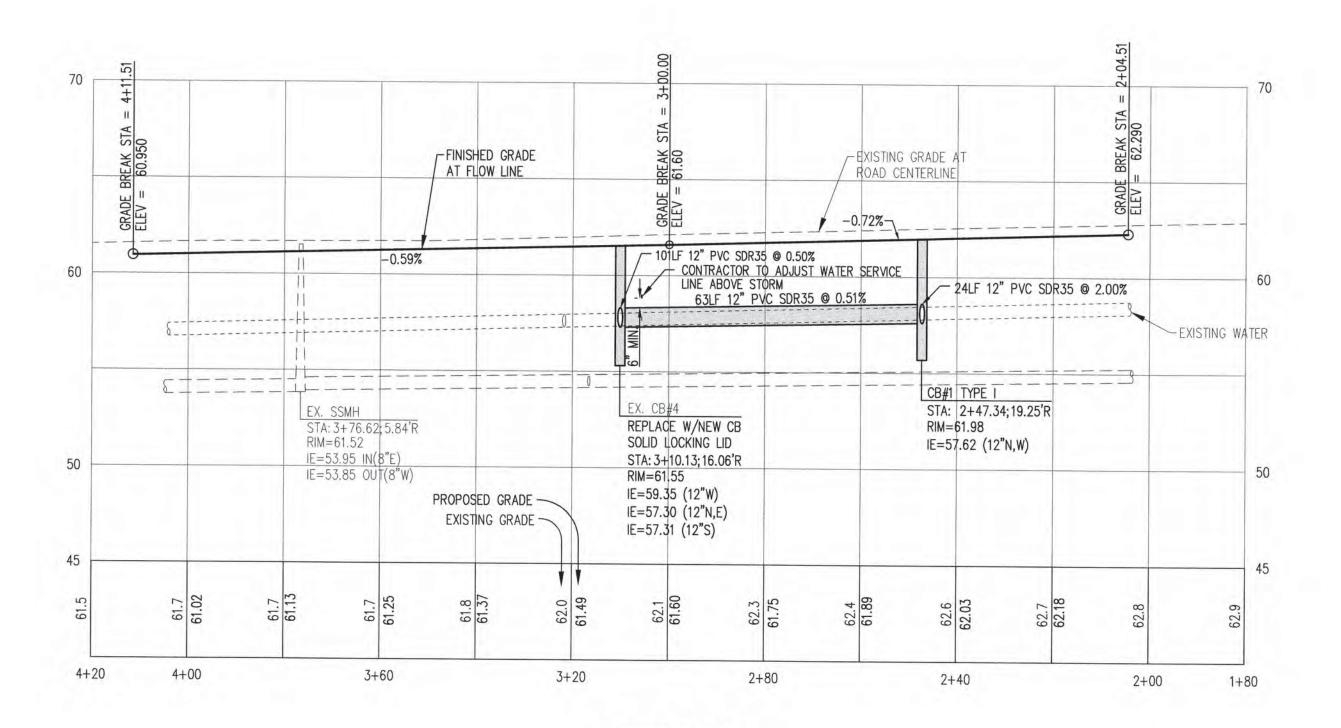


FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT

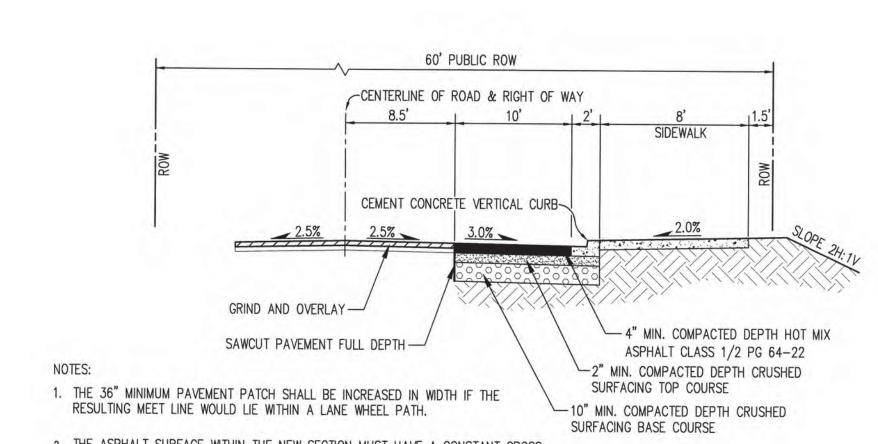
ENGINEERING MANAGER.



HORIZONTAL: 1"-20"



HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



2. THE ASPHALT SURFACE WITHIN THE NEW SECTION MUST HAVE A CONSTANT CROSS SLOPE FROM CURB TO CENTERLINE WITHIN THE RANGE OF 2.0 TO 5 .0%. IF CROSS SLOPE CANNOT BE ACHIEVED WITHIN THIS RANGE, CONTRACTOR SHALL OVERLAY OR REBUILD FROM CENTERLINE TO NEW GUTTER.

- 3. NEW ASPHALT DEPTH SHALL MATCH EXISTING CONDITION OR DEPTH SPECIFIED IN APPROPRIATE CITY CROSS SECTION DETAIL, WHICHEVER IS GREATEST.
- 4. IF THE BASE IS INADEQUATE OR THE PAVEMENT CONDITION IS SUBSTANDARD, THEN THE ROAD SECTION MUST BE REBUILT TO CENTERLINE.
- 5. ASPHALT SHALL BE HMA CL 1/2", PG64-22

A INTER AVE SE N.T.S.

ON BROTHERS STORAGE
INTER AVE SE PLAN & PROFILE

Client:

Designed:
Drawn:
Checked:

6

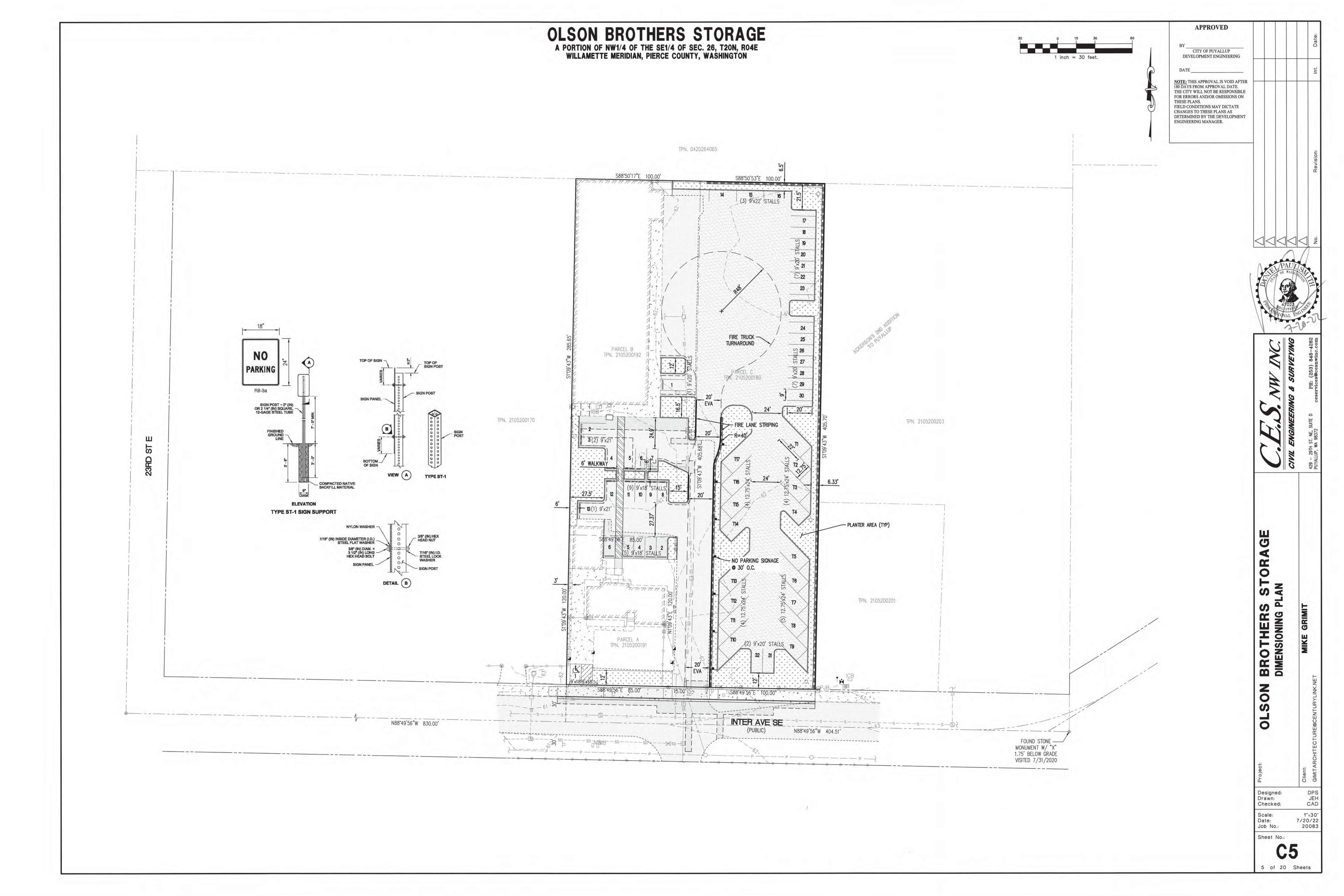
 Checked:
 CAD

 Scale:
 1"=20'

 Date:
 7/20/22

 Job No.:
 20083

C4
4 of 20 Sheets



APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Pac Bolish Bakotich, Pasco Jim 11 2014 1:25 PM CEMENT CONCRETE TRAFFIC CURB Washington State Department of Transportation STORMWATER NOTES 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.

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.

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.

17 1/2"

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

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

ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

CEMENT AND CONCRETE BARRIER CURB AND GUTTER

8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE

MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02,01,06 AND

10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.

11. CATCH BASINS TYPE I 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.

THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS. 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-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).

> 14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.

a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING

SERVICES STAFF PRIOR TO INSTALLATION.

9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL 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.

> 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

c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE

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 F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO 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 TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN

SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.

18. 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.

CITY OF PUYALLUP DEVELOPMENT ENGINEERING NOTE: THIS APPROVAL IS VOID AFTER 80 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.

APPROVED

GENERAL NOTES

(SEE NOTE 6, OPTION B

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

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

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

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.

11. CATCH BASINS TYPE I 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-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).

14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE 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 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

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 F2736 AND AASHTO M330, TYPE S,

OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO 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 TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY O PUYALLUP SANITARY SEWER SYSTEM STANDARDS.

18. 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.

#### ROADWAY NOTES:

REMOVED.

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.

AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THI 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

. 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 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.

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. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION

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

REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10. 11. THE SURROUNDING GROUND (5 FEET BEYOND 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.

CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12, IF ASPHALT IS DAMAGED DURING

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

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

SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

(5

0

Œ

0

Œ

0

2

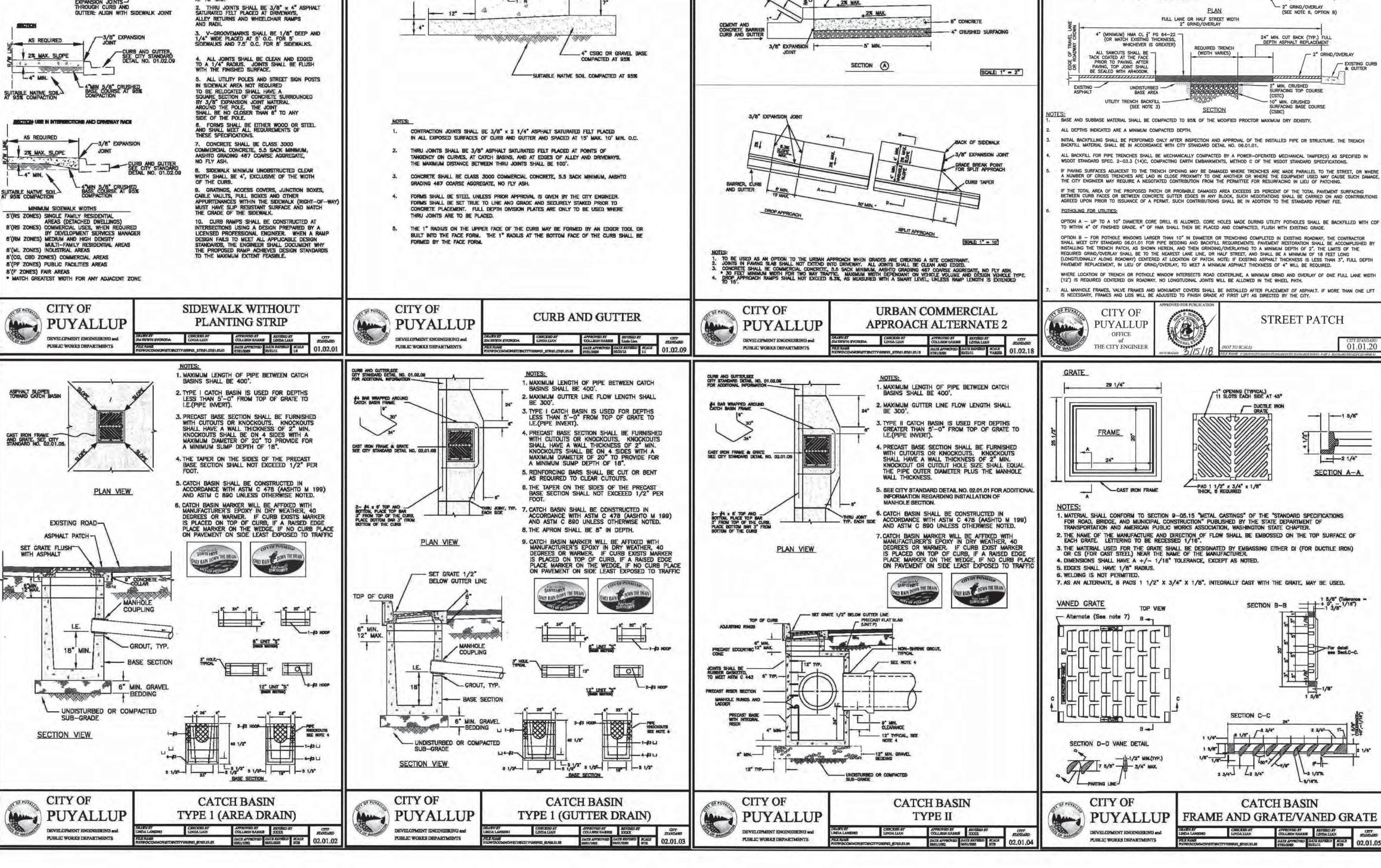
SS 

JEH CAD

Checked: Scale: Date: 7/20/22 Job No.: 20083 Sheet No.:

6 of 20 Sheets

Designed:



## WATER SYSTEM NOTES:

- 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, 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, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
- 9. 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 TCW 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 STANDARD SPECIFICATION 7-09.3(23). 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.
- 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 TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- 21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- 22. WHEN HYDRAULIC FIRE 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 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.
- 24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.
- 25. WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)

(NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)

- REPAIR WITHOUT DEPRESSURIZATION SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).
- REPAIR/CUT-IN WITH DEPRESSURIZATION TRENCH SHALL BE OVER EXCAVATED AND DEWATÉRED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR, IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER

NOTES FOR: DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) INSTALLATION CITY STANDARD 03.10.01-1

DDCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.

. THE FDC SHALL BE LOCATED WITHIN 15 FEET OF A FIRE HYDRANT, BUT NOT LESS THAN 10 FEET.

APPROVED EQUAL ON THE VAULT WALL AT THE CONDUIT PENETRATION.

. WATER METER SHALL BE A SENSUS SRII TRPL READING IN 1 CUBIC FEET.

THE DDCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING, IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PLYALLUP, WA 98374.

DDCVA IS ALLOWED TO BE LOCATED WITHIN A BUILDING AS APPROVED BY THE FIRE CODE OFFICIAL. WHEN THE DDCVA IS LOCATED WITHIN A

BUILDING, THE FIRE DEPARTMENT CONNECTION (FDC) BALL DRIP SHALL DRAIN TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.

IN A VAULT INSTALLATION, IF VAULT CANNOT BE DRAINED TO DAYLIGHT, A 1/4 HP SUMP PUMP SHALL BE INSTALLED IN THE SUMP PIT OF THE VAULT. IT SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE, AND INSPECTED BY A STATE ELECTRICAL INSPECTOR. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON—SITE STORM DRAINAGE STRUCTURE.

IN A VAULT INSTALLATION, RUN LOW VOLTAGE WIRE INSIDE VAULT AND TO PIV THROUGH SEAL—TIGHT FLEX CONDUIT. CONDUIT SHALL B. SECURELY FASTENED PERPENDICULAR OR HORIZONTALLY TO THE WALLS OF THE VAULT.

THE FDC AND PIV SHALL BE A MINIMUM OF 50 FEET FROM A BUILDING, UNLESS APPROVED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL, BUT NEVER LESS THAN 5 FEET FROM BUILDING.

DDCVA OUTSIDE STEM AND YOKE (OS&Y) GATE VALVES, AND THE POST INDICATOR VALVE (PIV), SHALL HAVE SUPERVISED TAMPER SWITCHES.

26. NEW WATER MAIN INSTALLATION:

a. EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIXTY-FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.

#### 65% CALCUIM HYPOCHLORITE ADDITION PER PIPE SECTION

PIPE VOLUM		5-GRAM	HYPOCHLORIT	E GRANULES	MAXIMUM
PIPE DIAMETER (INCHES)	PER 18 FEET (GAL)	TABLETS PER PIPE SECTION	OUNCES PER 500 FEET	TEASPOONS PER 18 FEET	FILL RATE (GPM)
1	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
D D	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	27	600

- b. NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW MATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED, IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L. UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
- PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
- AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24)A WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ON- SITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PRÉVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
- SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.
- ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

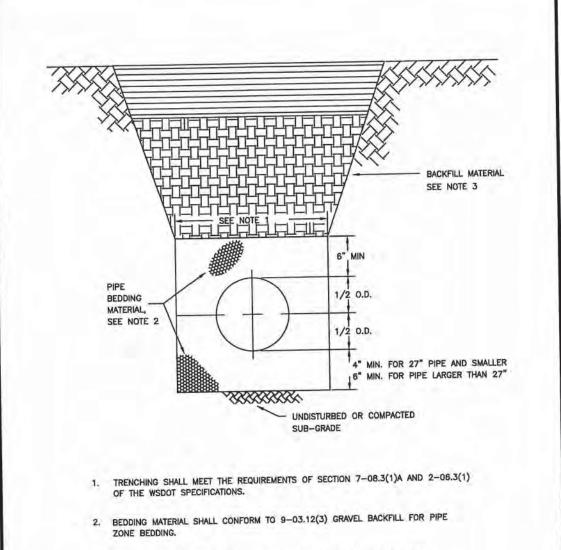
WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03-1, A SEWER MAY BE LAID CLOSER THAN 10-FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED:

- 1. SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
- - THE WATER LINE SHALL BE PLACED ON A BENCH OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL
  - THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

  - CONDITION A GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)
  - ONE FULL SEGMENT (NOT LESS THAN 18-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIP LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION. STANDARD GRAVITY-SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE-QUARTER-INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL VOIDS PRESSURE-GROUTED WITH SAND-CEMENT GROUT OR BENTONITE.

  - EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR OD/T. FOR 8-INCH SCH. 80 PVC PIPE (T=0.5 INCHES), THE DR IS 8.625/0.5=17.25

  - 1. A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.
  - THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
  - 4. THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(2) ABOVE.



FIRE HYDRANT/FDC LOCATION/ACCESS

APPROVED

CITY OF PUYALLUP

FIRE CODE OFFICIAL

NOTE: THIS APPROVAL IS VOID AFTER

THE CITY WILL NOT BE RESPONSIBLE

FOR ERRORS AND/OR OMISSIONS ON

180 DAYS FROM APPROVAL DATE.

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DETERMINED BY THE FIRE CODE

THESE PLANS.

OFFICIAL

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER

THE CITY WILL NOT BE RESPONSIBLE

FOR ERRORS AND/OR OMISSIONS ON

DETERMINED BY THE DEVELOPMENT

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

ENGINEERING MANAGER.

180 DAYS FROM APPROVAL DATE.

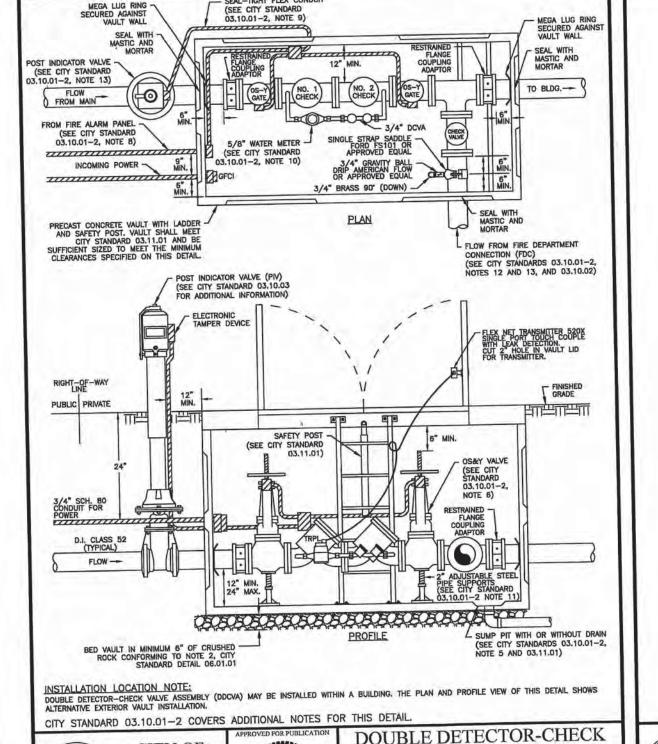
THESE PLANS.

3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.



OFFICE

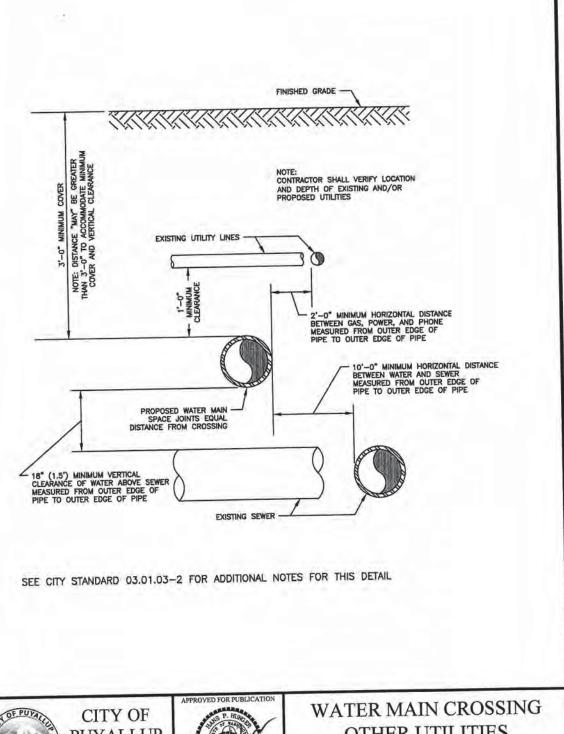
PIPE TRENCHING BEDDING AND BACKFILL

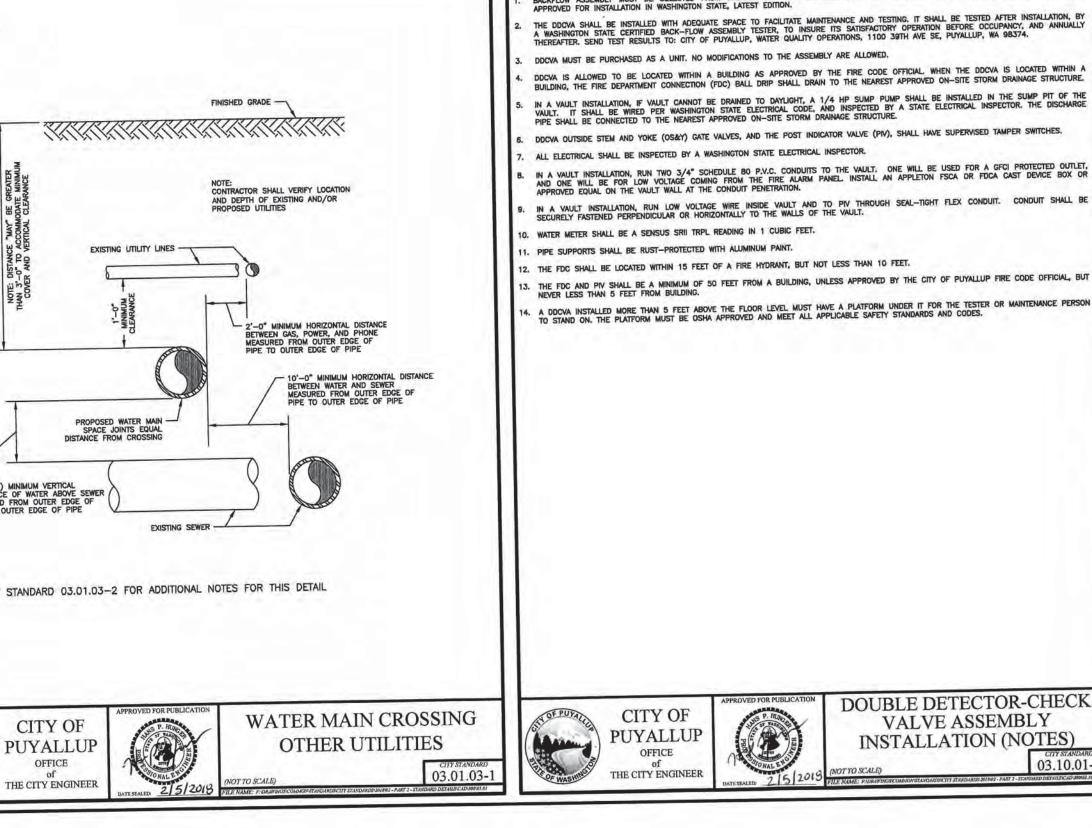


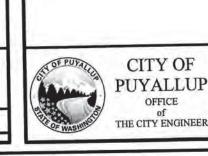
OFFICE

VALVE ASSEMBLY

03.10.01-







DOUBLE DETECTOR-CHECK VALVE ASSEMBLY

INSTALLATION (NOTES)

PUYALLUP OFFICE

WATER MAIN CROSSING OTHER UTILITIES (NOTES) THE CITY ENGINEE

CAD Checked: Scale 7/20/22 20083 Job No.: Sheet No.:

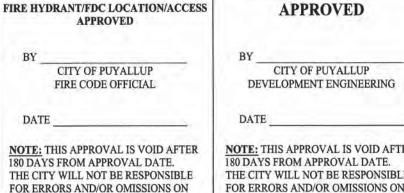
**-** 0

 $\mathbf{\omega}$ 

Drawn:

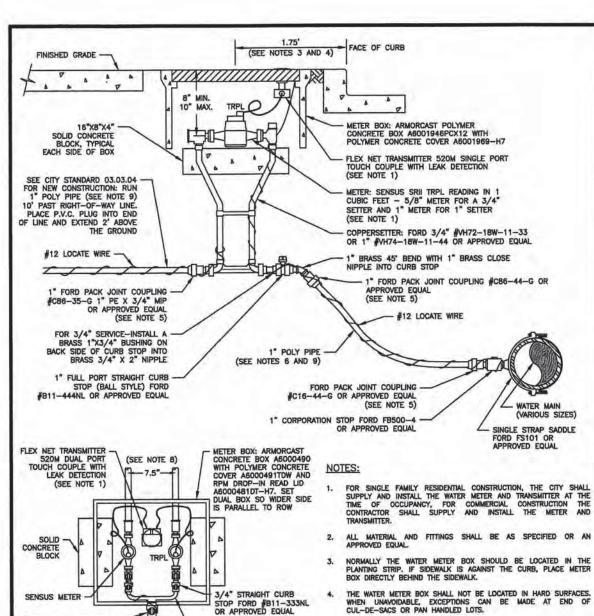
# OLSON BROTHERS STORAGE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE

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.



S. ALL COUPLINGS SHALL USE PIPE INSERT STIFFENERS.

8. DUAL SERVICE SHALL BE CENTERED ON PROPERTY LINE.

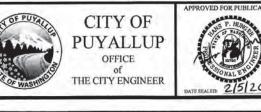
ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZ MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM

WATER SERVICE CONNECTION

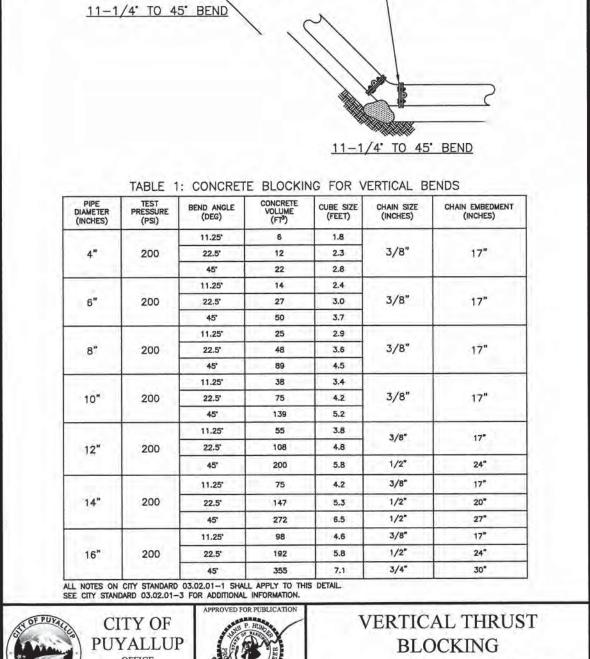
DEAD END 45' BEND (COLUMN A) DIRECTION CHANGE, TEE USED AS ELBOW CONNECTION, TEE (COLUMN B) THRU LINE CONNECTION THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS: THE WATER SERVICE LINE SHALL BE BEDDED IN WASHED SAND WITH 36" OF COVER BELOW FINISHED GRADE WITHIN THE RIGHT-OF-WAY, THE WATER SERVICE LINE SHALL BE ONE CONTINUOUS PIECE WITH NO SPLICES.

NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE. FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3 (COLUMNS B TO E) CONNECTION, TEE WYE (COLUMN C) DIRECTION CHANGE, CROSS USED AS ELBOW

- E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE
- DMDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
- BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.



HORIZONTAL THRUST **BLOCKING** 



RESTRAINED JOINTS SHALL BE INSTALLED WITH ALL VERTICAL THRUST BLOCKING.

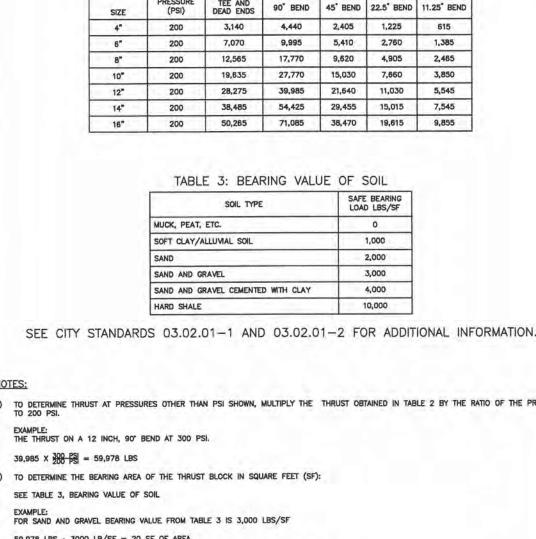


TABLE 2: THRUST AT FITTINGS AT 200 PSI

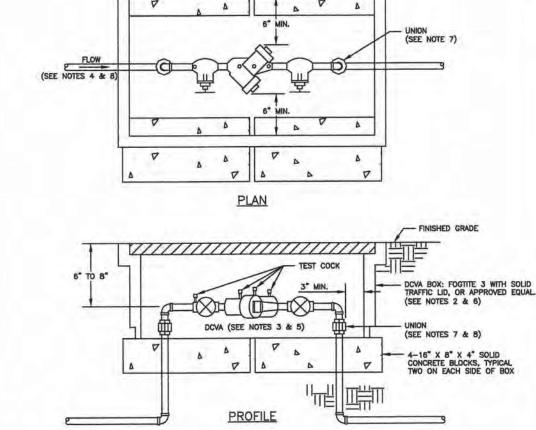
TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.

FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF

59,978 LBS + 3000 LB/SF = 20 SF OF AREA 3) CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE

AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS. ) NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICA



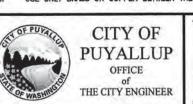


BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION. THE DCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.

DCVA MUST BE PURCHASED AS A UNIT, NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.

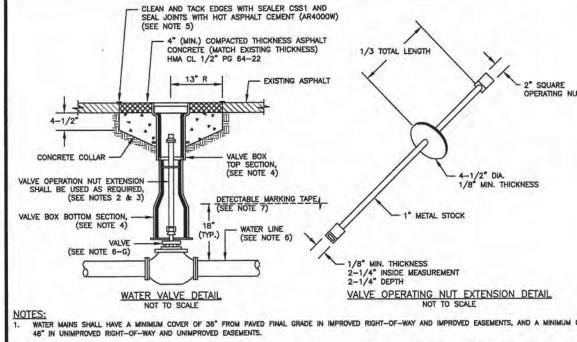
METER BOX SHALL BE LARGE ENOUGH TO ALLOW THE MINIMUM SETBACKS ILLUSTRATED ABOVE. METER BOX LID SHALL BE A TRAFFIC LID WITH A H-20 LOADING.

USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE UNION ON THE CUSTOMER'S SIDE OF THE DCVA.



OFFICE

2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION 03.04.01



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

- VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT
- VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATILE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER, VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH VALVE BOX COVER MODEL 6800 OR APPROVED EQUAL. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING: A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH, PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
- BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL COMFORMING TO ASTM A 193, GRADE BBM FOR BOLTS, AND ASTM A 194, GRADE BM FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 185, TYPE NS. D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H
- E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED, WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
- 1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT. COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED FOILIA 2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.

9-10.101		
OF PUTATION	CITY OF PUYALLUP OFFICE of THE CITY ENGINEER	AP
		DA

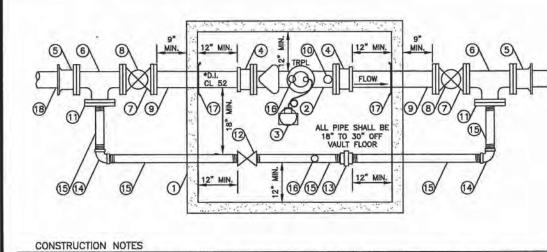
1" P.E. PIPE ---

DUAL SERVICE CONNECTION

OFFICE



WATER VALVES



PRECAST CONCRETE VAULT WITH STANDARD SUMP PIT THAT DRAINS TO DAYLIGHT, IF POSSIBLE, VAULT SHALL BE SUFFICIENTLY SIZED TO MAINTAIN MINIMUM CLEARANCES SPECIFIED ON THIS DETAIL. VAULT SHALL MEET CITY STANDARD 03.11.01. PROVIDE A CUT 2" HOLE IN LID FOR METER TRANSMITTER.

\* SENSUS FLANGED C2 OMNI METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET. USE 3/4" DIAMETER 316 GRADE STAINLESS STEEL BOLTS AND TEFLON NUTS ON METER FLANGE CONNECTIONS.

3 FLEX NET TRANSMITTER 520M SINGLE PORT COUPLE WITH LEAK DETECTION, MOUNTED ON METER VAULT LID.

5 \* FLANGE x MECHANICAL JOINT ADAPTOR. \* RESILIENT SEATED WEDGE GATE VALVE (FLGxFLG) WITH 2" SQUARE OPERATING NUT.

INSTALL TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS SPECIFIED IN CITY STANDARD 03.01.01.

REMOVE METER TEST PLUG AND INSTALL 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777W OR APPROVED EQUAL, 2-1/2" MALE (NST) x 2" MALE IPS THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (NST) BRASS NOZZLE CAP. 1) \* BLIND FLANGE WITH 2" THREADED OUTLET.

2" LOCKING BALL VALVE FORD B11-777W OR APPROVED EQUAL.

15) 2" THREADED GALVANIZED PIPE - CUT TO LENGTH AS REQUIRED.

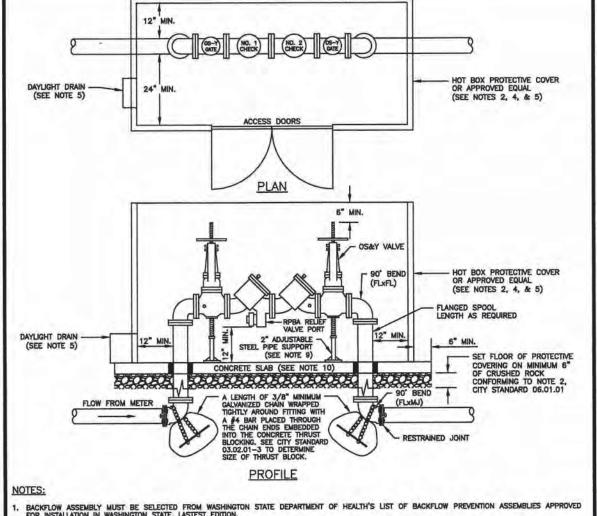
(16) 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

AN ADDITIONAL \* GATE VALVE IS REQUIRED AT THE WATER MAIN BRANCH CONNECTION. NOTE: \* = 3" ,4" ,OR 6" DEPENDING ON SERVICE LINE SIZE,

1. ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).

3"-4"-6" WATER SERVICE OFFICE



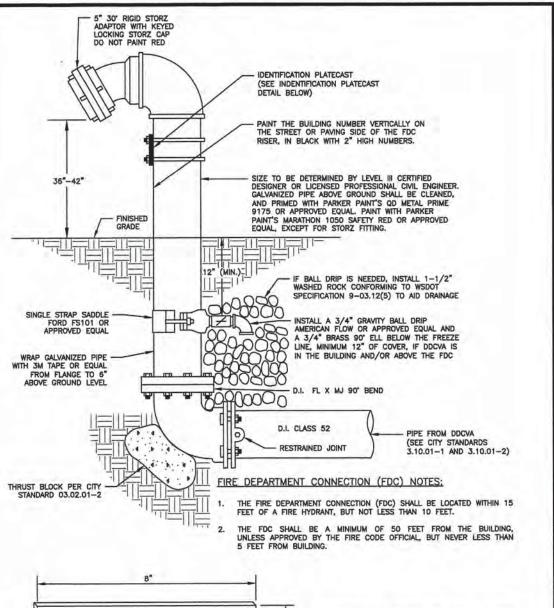
BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LASTEST EDITION.

3. THE RPBA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.

. ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR.

9. PIPE SUPPORTS SHALL BE RUST-PROTECTED WITH ALUMINUM PAINT. 10. POUR A 4 INCH CONCRETE SLAB FOR RPBA PROTECTIVE COVER, PROVIDE A 2 INCH ANNULAR SPACE BETWEEN THE PIPE AND FLOOR, EXTEND THE CONCRETE SLAB 6 INCHES BEYOND THE PROTECTIVE COVERING TO PROVIDE ADEQUATE ANCHORING.

> 3" AND ABOVE REDUCED SSEMBLY INSTALLATION OFFICE





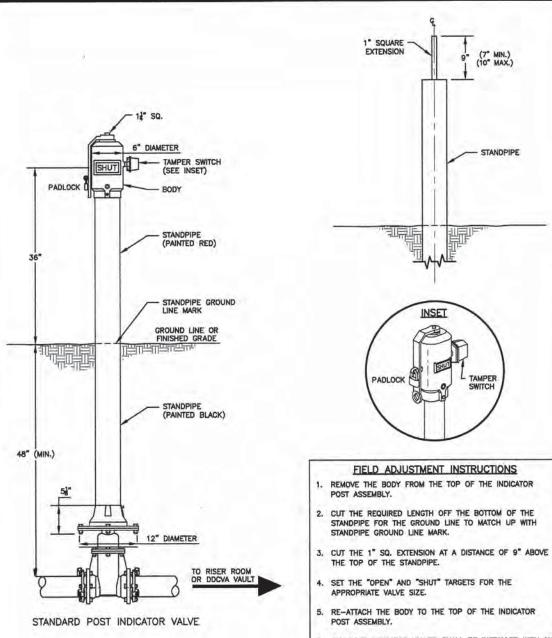
IDENTIFICATION PLATECAST DETAIL NOTES:

1. IDENTIFICATION PLATECAST WILL BE BRASS 2. IDENTIFICATION PLATECAST WILL BE 1/4" THICK 4. USE TWO (2) ZINC U-BOLTS TO AFFIX TO PIPE

IDENTIFICATION PLATECAST DETAIL

03.04.03

FIRE DEPARTMENT **PUYALLUP** CONNECTION (FDC) OFFICE



6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.

. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-ft FROM BUILDING.

POST INDICATOR VALVE

Drawn: Checked: 7/20/22 Job No.: 20083

0 %

Œ

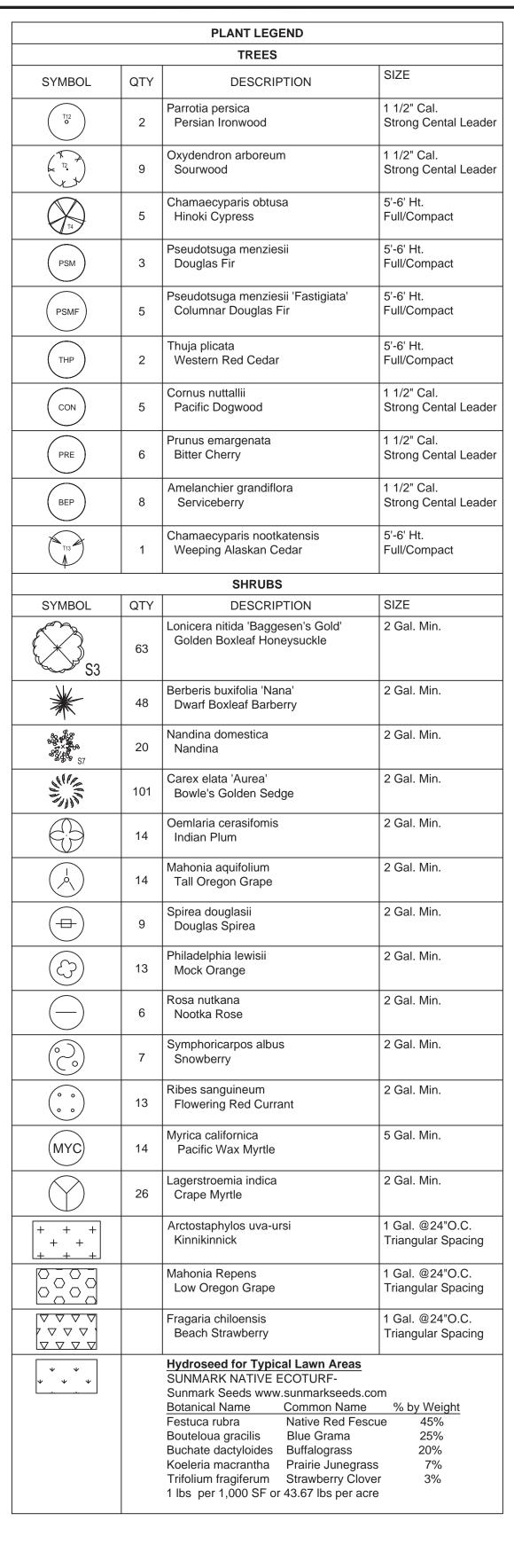
OTHE

BR

0

Sheet No.:

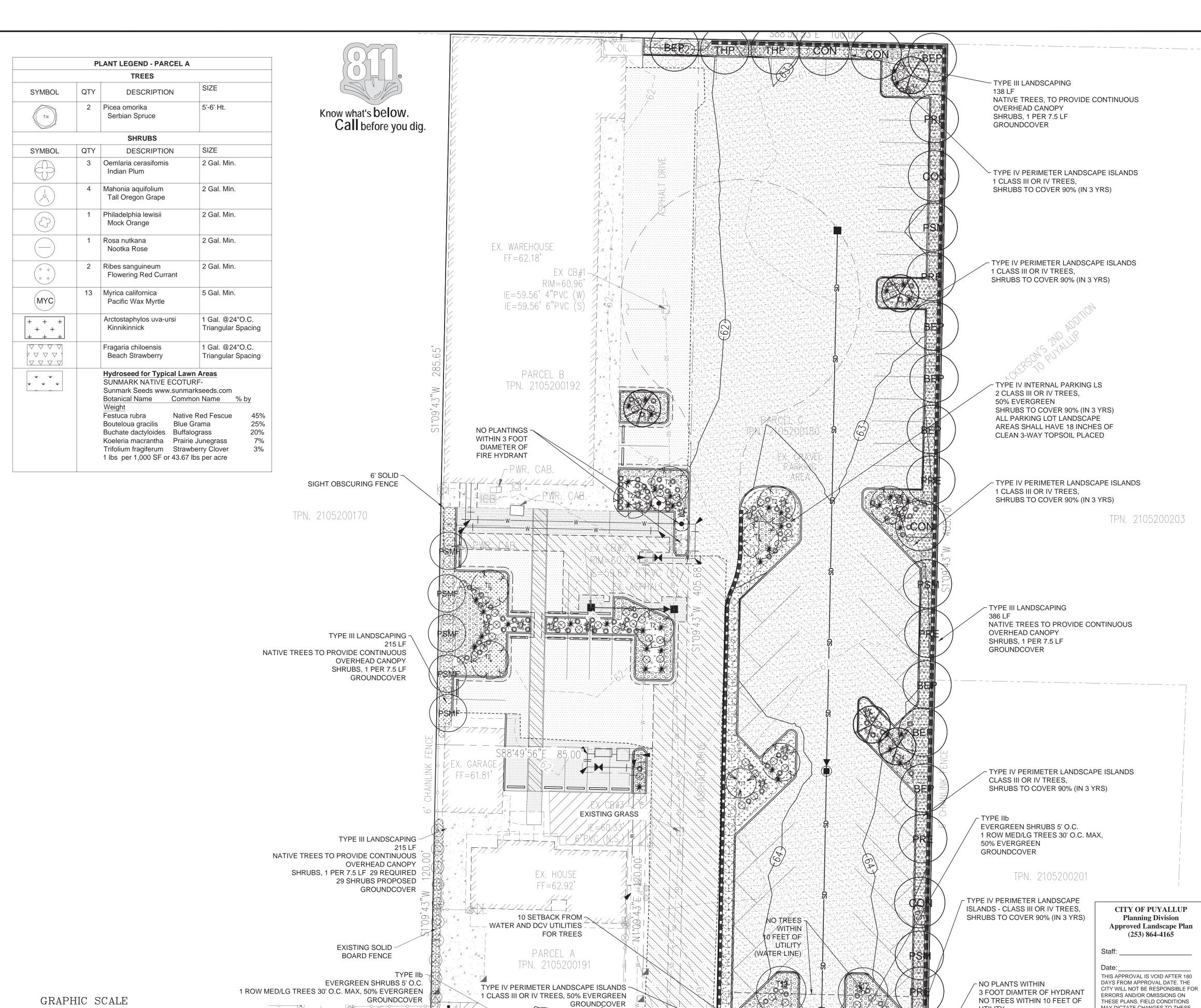
of 20 Sheets



LANDSCAPE PLAN

( IN FEET )

1 inch = 20 ft.



10 SETBACK FROM -

FOR TREES

WATER AND DCV UTILITIES >



PRO 2515 /2!5  $\alpha$ 

**REVISIONS:** 

EV B: REVISED PER NEW SITE LAYOUT EV C: LS, PERMIT 1 & 2 EV E: REVISED PER NEW SITE PLAN LAYOUT EV F: REVISED PER NEW STRM LAYOUT EV G: REVISED PER AGENCY COMMENTS REGARDIN EGETATION PLACEMENT AROUND UTILITIES EV H: ADDED LOT 1 BACK INTO PLAN

DRAWING ISSUED FOR: **AGENCY** REVIEW **DATE:** JULY 1, 2022



PROJECT NO.: FILE NAME: (-REFS: DRAWN BY: CHECKED BY:

PLOT SCALE: DRAWING SCALES: 2057

2057LSH

CIVIL

KLO

KLO

1:1

1:20

DRAWING CONTENTS LANDSCAPE PLANTING PLAN

DRAWING NO.:

MAY DICTATE CHANGES TO THESE

PLANNING MANAGER, DESIGNEE, OR

PLANS AS DETERMINED BY THE

NOTE: If street trees are required, Call Planning

Division for final inspection: (253) 864-4165 (Optior 3) Root Barriers are required around street trees in

accordance with city standard detail. Top soil shall be verification required. Failure to install top soil and root

barriers in accordance with city standards may result

PROJECT PLANNER.

in rejection of installation.

UTILITY

1 **OF** 2

#### GENERAL LANDSCAPE NOTES

- 1. Contractor is responsible for obtaining all necessary permits from the appropriate agency prior to commencing work. Contractor shall contact Line Locators (811) a min. of 48 hours prior to any digging or trenching. If there are any discrepancies with existing lines and landscaping, it is the contractor's responsibility to contact the landscape architect and request a site visit to address the conflicts. Contractor shall comply and conform to any and all local and state codes for work, schedules and any other project related requirements.
- 2. Contractor shall coordinate directly with the landscape architect for all landscape related issues, concerns, inspections and approvals. Contractor shall provide the landscape architect with a written request for a site visit to address any related items.
- 3. Scope of work shall include any and all specified and unspecified but related incidental work to achieve the design indicated on the landscape plans. All labor, materials, subcontractors, equipment, and related incidental items shall be supplied and installed to achieve a complete project, unless directed otherwise by the general contractor or landscape architect.
- 4. Contractor to verify all sub grades are set below required amendments to insure the finished grade will match what is intended by civil or drainage design. All sub grades and finished or final grades shall be graded to drain to the designed drainage system with positive drainage away from all

#### 5. Grade Preparation BASED ON VEGETATIVE MANGAGEMENT STANDARDS REQUIREMENTS:

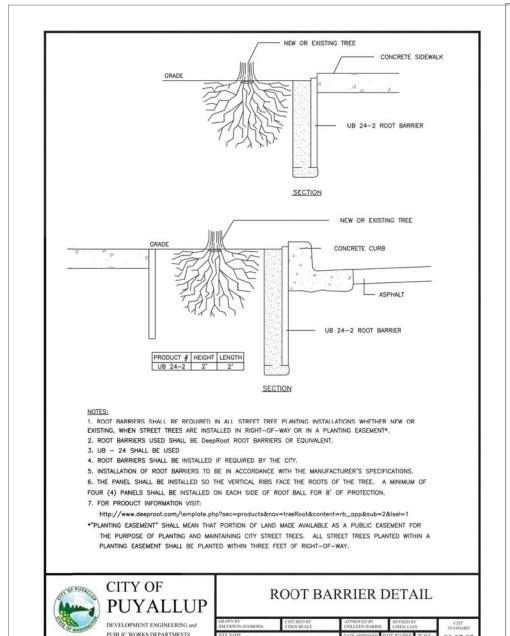
a. Slopes used for grass plantings or turf shall be less than 3:1 or 33 percent. Otherwise plantings should not require mechanized mowing equipment.

#### Soil Preparation.

- a. Excavate soil Excavate existing soil to a depth of 24" (or equal to the root ball depth, whichever is greater) and width of 8' (or three times (3X) wider than the root ball or root mass, whichever is greater). Stockpile excavated soil on a tarp away from the street and storm water catch
- b. Prepare the planting strip -After excavating all materials from the planter strip, scarify and rip the sub-base (by mechanical means or hand tools) to a depth of 6" with multiple passes, 90 degrees to each Prior to planting the tree, re-compact the tree base where the street tree will be planted to avoid setting of the root ball. At this stage, if the tree is to be planted when the planter strip is backfilled with amended top soil, the contractor/installer should measure the depth of the root bal I to determine when to place the tree in the pit during the backfilling process. If the root ball or root mass (in the case of bare root trees) is less than 24", the street tree shall be planted in a manner in which the root flare is level with or at least 1" above grade at the time of finished planting. This may require the root ball be placed on a compacted sub-base of the compost amended top soil as backfilling is occurring,
- c. Install root barrier panels at this stage the contractor/installer shall place 24" deep root barrier panels (UB-24) along the edge of the sidewalk and curb line for a total of eight feet (8') of lineal protection along either side of the planting area. The panels shall be installed perpendicular to the edge of paved surface in accordance with the manufacturer's standards for a 'linear' application; the root barrier panels shall not be installed in the planting pit as a 'surround' application, unless specified on the final landscape plans. The top of the root barrier panel shall be installed such that 1/2" of the root barrier is above the finished grade.
- d. Compost amended top soils required The top soil shall be amended on site during installation with compost to achieve a 40 percent by volume top soil mix in the right-of-way planter strip. Imported top soil may be used by the contractor/installer if data 'cut sheets' are available from the supplier certifying compost amendment equaling 40 percent by volume using one of the approved compost sources below. Compost shall only be sourced from:
- Cascade Compost (also known as PREP/LRI) (available through Pierce County Recycling, Composting & Disposal, 10308 Sales Road Tacoma, Washington 98499, or retail/wholesale landscape material suppliers) Tagro Compost Mix - available through City of Tacoma, 2201 Portland Avenue, Gate 6, Tacoma, WA, 98421, or retail/wholesale
- landscape material suppliers)
- Cedar Grove Compost (available through Cedar Grove Compost, 17825 Cedar Grove Road S.E., Maple Valley, 98038, or retail/wholesale landscape material suppliers)
- e. Install and amend top soils To avoid stratified layers, first place seven inches (7") of approved top soil in the prepared/scarified planting strip area and mechanically till in five inches (5") of approved compost; follow this procedure twice to achieve the total 24" top soil depth. Finished grade of top soil should be 1/2" below the edge of sidewalk to allow the root barrier panel to be properly installed above finished grade.
- f. Install tree stakes and finish mulch Placement of four inches (4") of wood chip mulch, water basin rings, tree staking and temporary irrigation bags (where required) shall follow city standard #01.02.07.\
- 2. Mulching of Newly Planted or Replanted Areas.
- In a planter strip which already exists and a new street tree shall be installed, the following procedures shall be followed to achieve a top soil mix with 40 percent compost by volume
- a. Mulches must be applied to the following depths: a minimum 4 (four) inches over bare soil, and two inches where plant materials will b. Mulches must include organic materials, organic compost mulch material or wood chips over a properly cleaned, amended and graded
- c. Nonporous materials, such as plastic sheeting, shall not be used in any area of the landscape because of down-slope erosion and
- potential soil contamination from herbicide washing. d. Mulch should be applied regularly to and maintained in all planting areas to assist soils in retaining moisture, reducing weed growth,
- and minimizing erosion.
- 7. Contractor shall field layout all plant material and contact the landscape architect for a site visit to approve the layout. Any field modifications shall be done by the landscape architect prior to planting.
- Contractor shall immediately notify the landscape architect of any poor drainage condition in landscape areas. No standing water shall be permitted in any landscape areas - either on the surface or below the topsoil. The landscape architect shall coordinate the drainage solution with the general contractor and civil engineer. Once the concerns have been remedied planting shall commence.
- 9. All groundcover to be planted in a triangular spacing formation, equal in all directions to the centers of the groundcovers in distances indicated in the legend. Contractor shall verify all quantities of groundcovers by area calculations and spacing requirements.
- 10. Landscaping is to be per plan. Plant substitutions due to availability or otherwise will be allowed only with landscape architect, owner and agency approval. Any substitutions will be with material of similar size, growth characteristics, and quality.
- 11. All trees must be staked as necessary so as to maintain material in a healthy, vigorous growing condition.
- 12. Landscaping shall be installed in a professional workmanlike manner that is consistent and accepted throughout the industry. All landscape and irrigation work shall be performed by experienced persons familiar with scope of project.
- 13. All landscape material and labor is to be guaranteed for a period of one full year from the time of completion.
- 14. When planting 'Balled and Burlapped' product, remove all burlap, string & wire from any B&B plant material, cut and remove jute strings. Gently place in tact Rootbal into planting pit. If rootball breaks or is not solid - the plant is unacceptable and shall be replaced.
- 15. Street trees shall have caliper size of at least 1" measure per American Association of Nurserymen Standards for Deciduous Trees Plant sizes: 5' Minimum height for Evergreen trees; 2 Gal. Min. for shrubs.
- 16. Street trees shall be high branching with canopy that starts at least 6' above finish grade.
- 17. All plant I.D. tags are to remain on the plant material until final inspection has been completed. Once approved all plant I.D. tags shall be removed and discarded appropriately.
- 18. Trees shall be cared for in accordance with the American National Standards Institute (ANSI) standard practices for trees, shrubs and other
- woody plant maintenance (ANSI 300) in order to allow them to reach there mature height and form. 19. Pruning of street trees shall be performed per the ANSI 300 standards so as to maintain the natural form of the tree, encourage vigorous growth to a mature spread and height, and avoid weakening the tree to create a hazard. Street trees shall not be topped pollarded, or otherwise
- 20. Plant material selected is drought tolerant or native species. The project proponent shall be responsible for maintaining and watering all plant material throughout the first growing season and in times of drought. A Permanent Irrigation system will be designed upon approval of preliminary landscape plan.

pruned in a manner contrary to these goals, unless there is no practicable alternative that would preserve essential utility services.

- 21. All landscaping strips and islands internal to the site as paved areas/parking lots shall be designed and installed using a minimum of 1.5 (18) Subsoils below the topsoil layer shall be scarified at least 6 inches with some incorporation of the upper material to avoid stratified layers.
- 22. A minimum of eight (8) inches of top soil, containing ten percent dry weight in planting beds, and 5% organic mater content in turf areas, and a pH from 6.0 to 8.0 or matching the pH of the original undisturbed soil. The topsoil layer shall have a minimum depth of eight (8) inches except where tree roots limit the depth of incorporation of amendments needed to meet the criteria. Subsoils below the topsoil layer should be scarified at least six (6) inches with some incorporation of the upper material to avoid the stratified layers, where feasible. Installation of the eight (8) inches of top soil, as described above, shall generally be achieved by placing five (5) (sub-base scarified four (4) inches) with a three (3) inch layer of compost tilled into the entire depth.



FROM 8.0 OF VEGETATIVE MANAGEMENT STANDARDS (CITY OF PUYALLUP)

on-site storage and work areas shall be maintained in a safe and hazard free condition.

when applicable. Staking shall only be used where demonstrated to be necessary. Newly

planted trees installed in very loose soil or extremely windy locations shall be staked for one

full growing season to minimize tree movement. The tree shall be secured to the stakes with a

loose attachment that will allow the tree to grow without injury. The stake will placed in such a

manner that there will be no limb or bark damage. The stake shall not penetrate the root ball

and be place on the lee side of the prevailing winds. All stakes and attachment material will be

removed by the contractor or property owner at the completion of the first full growing season.

C.In parking areas, trees and shrubs shall be planted at least two and one-half feet from the

Ground cover vegetation should be installed on a regular spaced grid pattern including the

Naturally occurring (undisturbed) soil and vegetation provide important stormwate rfunctions

decomposition. These functions are largely lost when development strips away native soil and

including: water infiltration; nutrient, sediment, and pollutant adsorption; sediment and

vegetation and replaces it with minimal topsoil and sod. Not only are these important

household/industrial chemicals, the concentration of pet wastes, and pollutants that

stormwater functions lost, but such landscapes themselves become pollution-generating

pervious surfaces due to increased use of pesticides, fertilizers and other landscaping and

accompany roadside litter. Establishing soil quality and depth regains greater stormwater

result from development and habitation, and minimizes the need for some landscaping

All soils in all landscape installations shall conform to the following soil depth and quality

eight inches (811) except where tree roots limit the depth of incorporation of

achieved by placing five inches (5") of imported sandy-loam top soil into

relation to soil depth, soil amendments and installation of new street trees.

established or reconstructed due to a street construction project, the

standard above to achieve a top soil mix with 40 percent compost by

A. A minimum of eight (8) inches of top soil, containing ten percent dry weight in planting

beds, and 5% organic matter content in turf areas, and a pH from 6.0 to 8.0 or matching

the pH of the original undisturbed soil. The topsoil layer shall have a minimum depth of

amendments needed to meet the criteria. Subsoils below the topsoil layer should be

Installation of the eight inches (8") of top soil, as described above, shall generally be

planned landscape areas (sub-base scarified four inches (4")) with a three inch (311)

The following notes shall be shown on the face of the preliminary and final landscape

•For new construction: In areas where a new planter strip and street tree shall be

planter strip area shall be excavated to a depth of 24" and backfilled following the

Review the city standard planting detail -All contractors/installers are required to

result in rejection of the work by the inspector and/or Planning Department.

shall be inspected after planting by the Planning Department.

following city standard #01.02.07 (street tree planting) and #01.02.03 (root barrier

installation). The contractor/installer shall review the planting standard detail prior to

installation to understand the city's requirements. Failure to follow the standard may

• Schedule a field pre-construction meeting-The contractor/installer shall contact the site

tree(s) for a field pre-construction meeting on-site to review the approved plan set and

city standard details. If street trees are to be installed over a longer timeline (such as a

contractor/installer.shall hold one consolidated pre-con to review plans. All street trees

inspector and Planning Department 48 hours in advance of the installation of street

residential plat where trees may be installed over a multi-month period oftime), the

• Excavate all construction materials -Excavate all construction materials, remnant soil,

gravel, pit run, construction debris, etc. from the planter strip area to a depth of 24"

Prepare the planting strip-After excavating all materials from the planter strip, scarify

hand tools) to a depth of 6"with multiple passes, 90 degrees to each other. Prior to

prior to planting. Discard this material as the placement of new compost amended top

and rip the sub-base with the teeth of a backhoe bucket (or other mechanical means or

planting the tree, re-compact the tree base where the street tree will be planted to avoid

B. For street trees in the right of way planter strip, the following standards shall apply in

scarified at least 6 inches with some incorporation of the upper material to avoid

requirements. Please refer to appendix 20.9 for further installation guidance:

functions in the post development landscape, provides increased treatment of pollutants and

pollutant biofiltration; water interflow storage and transmission; and pollutant

inside edge of the curb or wheel stop, where vehicles may overhang planted areas.

8.2 Soil Quantity and Quality Standards

chemicals, thus reducing pollution through prevention.

stratified layers, where feasible.

plan sheets:

The contractor or installer shall:

soil is required.

setting of the root ball.

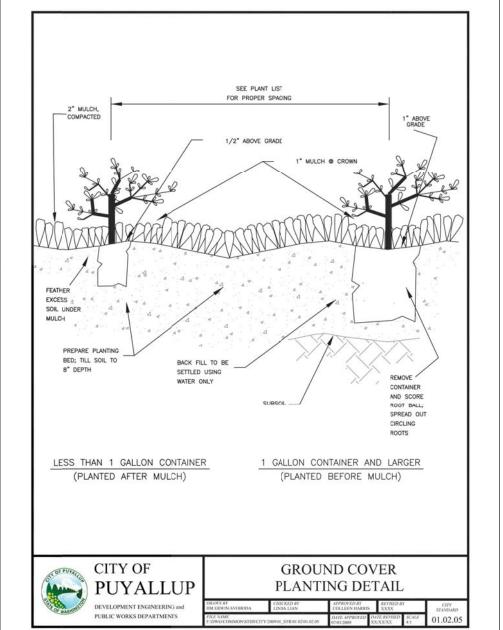
layer of compost tilled into the entire depth.

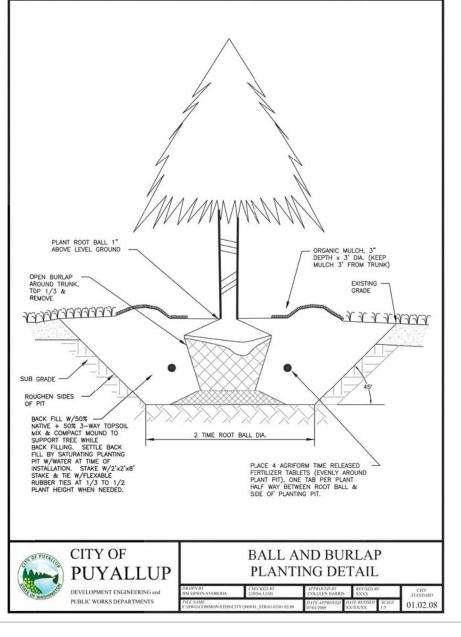
Purpose and Definition

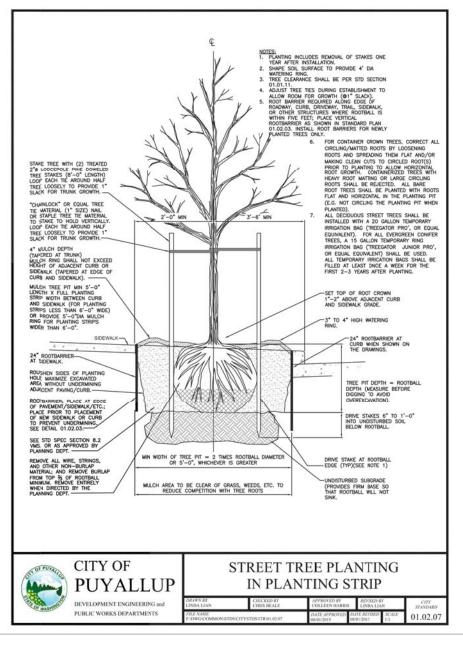
rights-of-ways shall. be cleared of all mud and debris at the completion of every work day. All

A.All work shall be performed and completed in a professional manner. All public

B.All final landscape plans shall indicate the method of planting and tree staking







At this stage, if the tree is to be planted when the planter strip is backfilled with amended top soil, the contractor/installer should measure the depth of the root ball to determine when to place the tree in the pit during the backfilling process. If the root ball or root mass (in the case of bare root trees) is less than 24", the street tree shall be planted in a manner in which the root flare is level with or at least 1" above grade at the time of finished planting. This may require the root ball be placed on a compacted sub-base of the compost amended top soil as backfilling is occurring, • Install root barrier panels-At this stage the contractor/installer shall place 24" deep root barrier panels (UB-24) along the edge of the sidewalk and curb line for a total of eight feet (8') of lineal protection along either side of the planting area. The panels shall be installed perpendicular to the edge of paved surface in accordance with the manufacturer's standards for a 'linear' application; the root barrier panels shall not be installed in the planting pit as a 'surround' application, unless specified on the final

landscape plans. The top of the root barrier panel shall be installed such that 1/2" of the root barrier is above the finished grade. Compost amended top soils required -Top soil source shall be reviewed and approved during the pre-construction meeting; all top soil shall be a top quality sandy-loam mix, or equivalent as approved by the Planning Department. The top soil shall be amended on site during installation with compost to achieve a 40 percent by volume top soil mix in the right-of-way planter strip. Imported top soil may be used by the contractor if data 'cut sheets' are available from the supplier certifying compost amendment equaling 40 percent by volume using one of the approved compost sources below. Compost shall only be sourced from:

• Cascade Compost (also known as PREP/LRI) (available through Pierce County Recycling, Composting & Disposal, 10308 Sales Road, Tacoma, Washington 98499, or retail/wholesale landscape material suppliers}

• TAGRO Compost Mix {available through City of Tacoma, 2201 • Portland Avenue, Gate 6, Tacoma, WA, 98421, or retail/wholesale landscape material

• Cedar Grove Compost (available through Cedar Grove Compost, 17825 Cedar Grove Road S.E., Maple Valley, 98038, or retail/wholesale landscape material suppliers) • Install and amend top soils - To avoid stratified layers, first place seven inches (7") of approved top soil in the prepared/scarified planting strip area and mechanically till in five inches (5") of approved compost; follow this procedure twice to achieve the total 24" top soil depth. Finished grade of top soil should b.e 1/2" below the edge of sidewalk to allow the root barrier panel to be properly installed above finished grade.

Install tree stakes and finish mulch - Placement of four inches (4") of wood chip mulch, water basin rings, tree staking and temporary irrigation bags (where required) shall follow city standard #01.02.07.

 For street trees to be planted in existing right-of-way planter strips: In a planter strip which already exists and a new street tree shall be installed, the following procedures shall be followed to achieve a top soil mix with 40 percent compost by volume: Excavate soil -Excavate existing soil to a depth of 24" (or equal to the root ball depth, whichever is greater) and width of 8' (or three times (3X) wider than the root ball or root mass, whichever is greater). Stockpile excavated soil on a tarp away from the street and storm water catch basins.

 Prepare the planting strip -After excavating all materials from the planter strip, scarify and rip the sub-base (by mechanical means or hand tools) to a depth of 6" with multiple passes, 90 degrees to each other. Prior to planting the tree, re-compact the tree base where the street tree will be planted to avoid setting of the root ball.

At this stage, if the tree is to be planted when the planter strip is backfilled with amended top soil, the contractor/installer should measure the depth of the root bal I to determine when to place the tree in the pit during the backfilling process. .1f the root ball or root mass (in the case of bare root trees) is less than 24", the street tree shall be planted in a manner in which the root flare is level with or at least 1" above grade at the time of finished planting. This may require the root ball be placed on a compacted sub-base of the compost amended top soil as backfilling is occurring,

• Install root barrier panels -At this stage the contractor/installer shall place 24" deep root barrier panels (UB-24) along the edge of the sidewalk and curb line for a total of eight feet (8') of lineal protection along either side of the planting area. The panels shall be installed perpendicular to the edge of paved surface in accordance with the manufacturer's standards for a 'linear' application; the root barrier panels shall not be installed in the planting pit as a 'surround' application, unless specified on the final landscape plans. The top of the root barrier panel shall be installed such that 1/2" of the root barrier is above the finished grade.

 Compost amended top soils required -The top soil shall be amended on site during installation with compost to achieve a 40 percent by volume top soil mix in the right-of-way planter strip. Imported top soil may be used by the contractor/installer if data 'cut sheets' are available from the supplier certifying compost amendment equaling 40 percent by volume using one of the approved compost sources below. Compost shall only be sourced from:

• Cascade Compost (also known as PREP/LRI) (available through Pierce County Recycling, Composting & Disposal, 10308 Sales Road, Tacoma, Washington 98499, or retail/wholesale landscape material suppliers)

- TAGRO Compost Mix (available through City of Tacoma, 2201 • Portland Avenue, Gate 6, Tacoma, WA, 98421, orretail/wholesale landscape material
- Cedar Grove Compost (available through Cedar Grove Compost, 17825 Cedar Grove Road S.E., Maple Valley, 98038, or retail/wholesale landscape material suppliers)

Install and amend top soils -To avoid stratified layers, first place seven inches (7") of approved top soil in the prepared/scarified planting strip area and mechanically till in five inches (5") of approved compost; follow this procedure twice to achieve the total 24" top soil

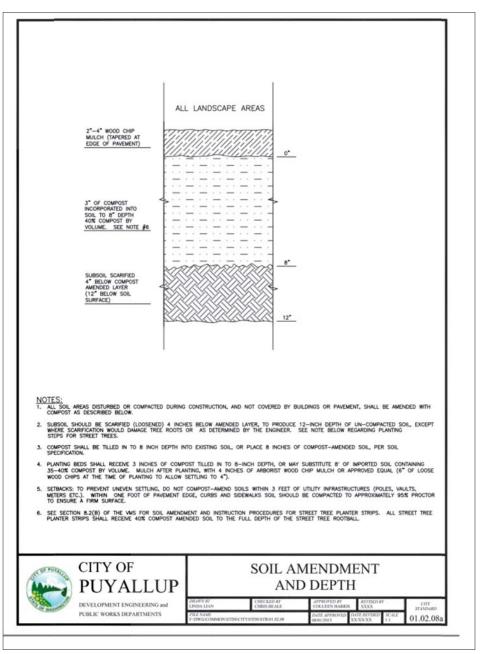
Finished grade of top soil should be 1/2" below the edge of sidewalk to allow the root barrier panel to be properly installed above finished grade.

Install tree stakes and finish mulch -Placement of four inches (4") of wood chip mulch, water basin rings, tree staking and temporary irrigation bags (where required) shall follow city standard #01.02.07.

B.The project landscape architect shall utilize one of the design methods outlined in appendix 20.9 in incorporating this standard. The landscape architect shall estimate total top soil and compost import volumes and specify the top soil and compost source during the final landscape plan review. A top soil delivery ticket(s), invoice(s) or other physical proof that the correct quantity and quality of top soil was delivered shall be provided at the time of final inspection.

#### 8.3 Mulching

In an effort to minimize water use, reduce costs and use of che micals for maintenance, all planting areas shall be mulched with a uniform four (4) inch layer of organic compost mulch material or wood chips over a properly cleaned, amended and graded subsurface. Four inches of mulch in planting areas shall be maintained through the life of the project. Herbicides shall not be used in the mulch ring area for street trees; see city standard #01.02.07 for street tree mulch application and dimensions.





Know what's below. Call before you dig.

> CITY OF PUYALLUP **Planning Division** Approved Landscape Plan (253) 864-4165

Date: 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 PLANNING MANAGER, DESIGNEE, OR PROJECT PLANNER. NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3) Root Barriers are required around street trees in accordance with city standard detail. Top soil shall b verification required. Failure to install top soil and roo barriers in accordance with city standards may result in rejection of installation.



Landscape Architecture 253.460.6067

PRO 2515 ALLUP,  $\overline{\phantom{a}}$  $\overline{\phantom{a}}$ 5  $\alpha$ 

**REVISIONS:** 

EV B: REVISED PER NEW SITE LAYOUT EV C: LS, PERMIT 1 & 2

EV F. REVISED PER NEW SITE PLAN LAYOUT EV F: REVISED PER NEW STRM LAYOUT EV G: REVISED PER AGENCY COMMENTS REGARDI EGETATION PLACEMENT AROUND UTILITIES EV H: ADDED LOT 1 BACK INTO PLAN

DRAWING ISSUED FOR: **AGENCY** REVIEW

**DATE:** JULY 1, 2022

2057 PROJECT NO.: 2057LSH FILE NAME: -REFS: DRAWN BY: CHECKED BY:

KLC

KLC

NO SCALE

LOT SCALE: DRAWING SCALES:

DRAWING CONTENTS

LANDSCAPE NOTES

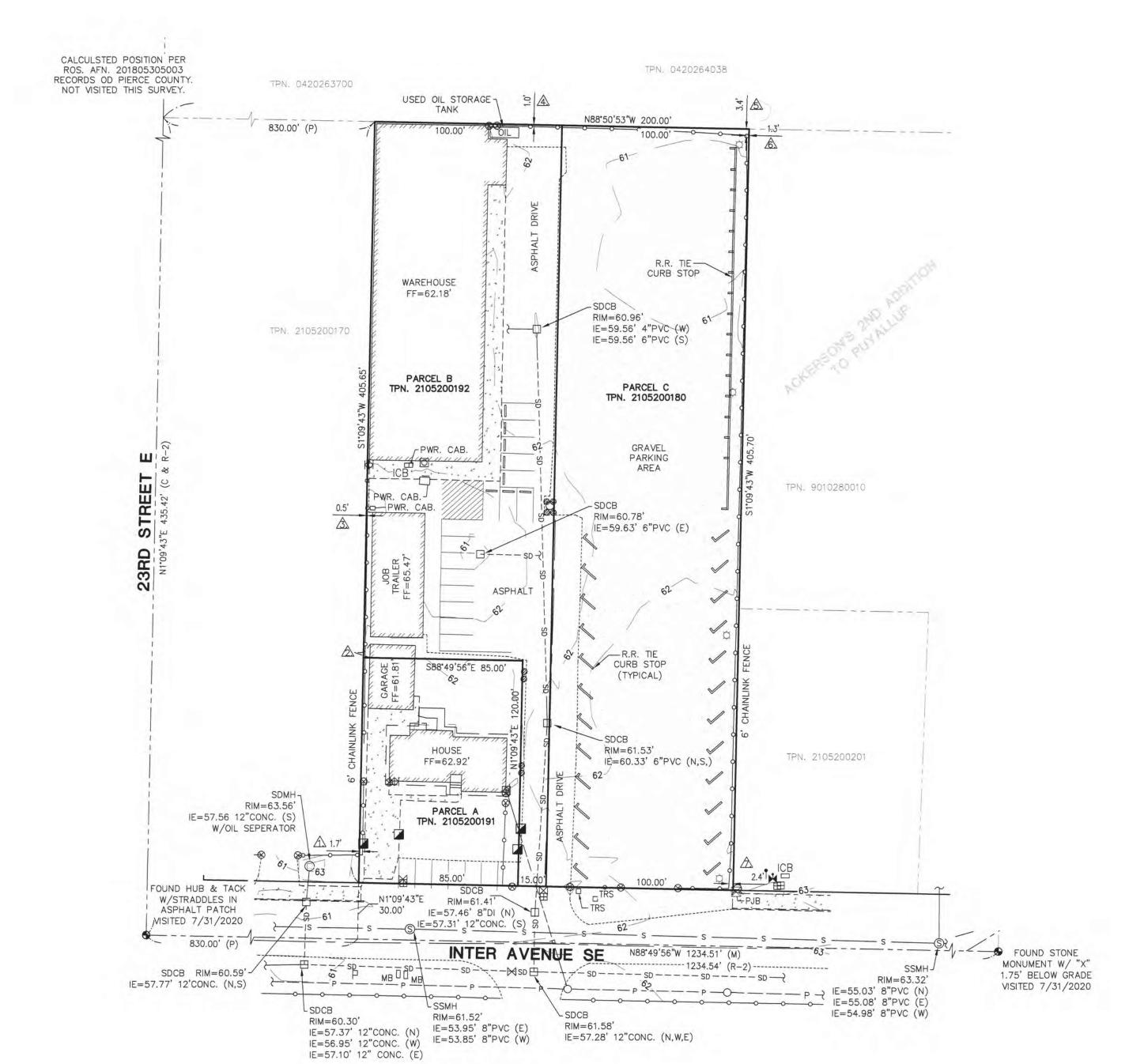
RAWING NO.:

OF

& DETAILS

# OLSEN BROTHERS STORAGE

A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER SECTION 26, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M. PIERCE COUNTY, WASHINGTON SURVEY TOPOGRAPHY MAP



#### LEGAL DESCRIPTION

THE WEST 85 FEET OF THE SOUTH 120 FEET OF THE WEST HALF OF TRACT 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE MAP THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

PARCEL B, TPN. 2105200192

EXCEPT THE SOUTH 120 FEET OF THE WEST 85 FEET THEREOF. PARCEL C, TPN. 2105200180

THE EAST ONE-HALF OF BLOCK 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

ALL SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

#### SURVEY NOTES

BASIS OF BEARINGS NAD 83-2011 (EPOCH 2010.00), WASHINGTON STATE PLANE, SOUTH ZONE, (PER THE WASHINGTON STATE REFERENCE NETWORK). THE MONUMENTED CENTERLINE OF INTER AVENUE SOUTHEAST, BEARS N88°49'56"W.

METHODS & EQUIPMENT
THIS SURVEY COMPLIES WITH ALL STANDARDS AND GUIDELINES OF THE "SURVEY RECORDING ACT", CHAPTER 58.09 RCW AND 332.130 WAC

EQUIPMENT USED: CARLSON GEOMAX ZOOM 90 TOTAL STATION AND CARLSON BRX6+ GPS. ALL INSTRUMENTS UTILIZED DURING THE COURSE OF THIS SURVEY ARE MAINTAINED IN CONFORMANCE WITH MANUFACTURERS SPECIFICATIONS.

RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY.

GARAGE IS 7.2' NORTH OF PROPERTY LINE.

A CHAINLINK FENCE IS 0.5' EAST OF PROPERTY LINE.

A CHAINLINK FENCE IS 1.0' SOUTH OF PROPERTY LINE.

CHAINLINK FENCE IS 1.3' WEST OF PROPERTY LINE.

A CHAINLINK FENCE IS 2.4' WEST OF PROPERTY LINE.

## PARCEL A, TPN. 2105200191

THE WEST HALF OF BLOCK 10 OF ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY, WASHINGTON.

METHOD: FIELD TRAVERSE AND GPS OBSERVATIONS IN

#### REFERENCES

R-1 PLAT OF ACKERSON'S ADDITION TO PUYALLUP

R-2 RECORD OF SURVEY, AFN. 201805305003.

R-3 CONDOMINIUM SURVEY, AFN. 201704055001.

R-4 SHORT PLAT, AFN. 8411190212.

#### **ENCROACHMENT NOTES**

CHAINLINK FENCE IS 1.7' EAST OF PROPERTY LINE.

CHAINLINK FENCE IS 3.4' SOUTH OF PROPERTY LINE.

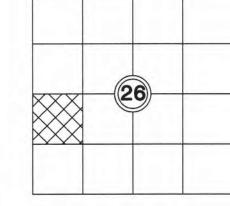
LAND SURVEYOR'S CERTIFICATE THIS MAP CORRECTLY REPRESENTS A TOPOGRAPHIC SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION IN JULY,

CHARLES E. PODZALINE PLS CERTIFICATE NO. 50986 PARCEL NO. 2105200191 2505 INTER AVE. PUYALLUP, WA. 98372

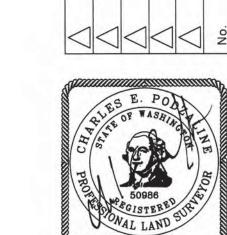
PARCEL NO. 2105200192 ADDRESS: 2511 INTER AVE. PUYALLUP, WA. 98372 PARCEL NO. 2105200180

2515 INTER AVE.

PUYALLUP, WA. 98372



INDEX: NW 1/4 OF THE SW 1/4, SEC. 26, T2ÓN, R4E., W.M.



SCALE: 1"= 40'

LEGEND

PLAT DIMENSION

FOUND MON AS NOTED

MEASURED DIMENSION RECORD DIMENSION

CALCULATED DIMENSION

STORM DRAIN MANHOLE

IRRIGATION CONTROL VALVE

FIRE DEPARTMENT CONNECTION

POST INDICATOR VALVE

POWER JUNCTION BOX

SANITARY SEWER MANHOLE

STORM CATCH BASIN

WATER METER

WATER VALVE

FIRE HYDRANT

POWER CABINET

POWER METER

UTILITY POLE

LIGHT POLE

GAS METER

BOLLARD

MAILBOX

CONCRETE HATCHING

GRAVEL HATCHING

GATE POST GATE SENSOR

SIGN

TELEPHONE RISER

-0-

S SANITARY SEWER LINE

-----SD-----SD-- STORM DRAIN LINE

REBAR & CAP SET "LS 38985"

TOR

THER BRO

Drawn: SDO

0

Checked: 1"=40" Scale: 2/17/2022 Date: 20083 Job No.:

Sheet No.:

R-1 PLAT OF ACKERSON'S ADDITION TO PUYALLUP RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY.

R-2 RECORD OF SURVEY, AFN. 201805305003. R-3 CONDOMINIUM SURVEY, AFN. 201704055001. R-4 SHORT PLAT, AFN. 8411190212.

REFERENCES

/MBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING		FIRE ALARM
		FACP	FIRE ALARM / EMERGENCY COMMUNICATION SYSTEM CONTROL PANEL
•	SURFACE OR PENDANT MOUNT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)	FAPS	FIRE ALARM SYSTEM POWER SUPPLY FOR NOTIFICATION DEVICES
<u> </u>	WALL MOUNT LIGHT FIXTURE	AES	AES WIRELESS TRANSCEIVER
0	SURFACE OR RECESSED LIGHT FIXTURE	BAT	BATTERY CABINET
<b>─</b> •I	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)	FS	SPRINKLER SYSTEM FLOW SWITCH
<b>-</b>		TS	SPRINKLER SYSTEM TAMPER SWITCH
	EGRESS FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.	M	FIRE ALARM / EMERGENCY COMMUNICATION SYSTEM MONITOR MODULE
<b>∂</b>	EVIT LIGHT FIVTHDE (DDOVIDE DIDECTION ADDOVIC AS INDICATED) DDOVIDE HINSWITCHED HOT LEG	②	FIRE ALARM SMOKE DETECTOR
sy <b>⊗</b>	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.		
≫ ≟	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.  EMERGENCY BATTERY PACK WITH TWIN HEAD FLOOD PROVIDE UNSWITCHED HOT LEG.		SWITCHES
⊐ Šr	COMBINATION EXIT/TWIN HEAD FLOOD (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.	\$	SINGLE POLE SWITCH
<b>&gt;</b> →	STREET LIGHT POLE FIXTURE	<b>\$</b> D	DIMMING SWITCH - SINGLE POLE
	STREET LIGHT FOLL TIXTORE	<b>\$</b> os	COMBINATION SWITCH / OCCUPANCY SENSOR
	RECEPTACLES	<b>\$</b> 3	THREE WAY SWITCH
<b>b</b>	DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)	<b>a\$\$</b> <sub>b</sub>	MULTI-GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)
<b>b</b> <sub>G</sub>	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)	<b>©</b>	PHOTOCELL CONTROL
Ьс	DUPLEX RECEPTACLE (C INDICATES ABOVE COUNTER)	<u>OS</u>	CEILING MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL) - HB INDICATES HIGH BAY SENSOR
<b>+</b>	FOURPLEX RECEPTACLE	[03]	
	EQUIPMENT, WIRING AND RACEWAYS		MISCELLANEOUS
_	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)	1	CONSTRUCTION NOTES
_	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS	1	DEMOLITION NOTES
	RACEWAY CONCEALED IN WALL OR CEILING	\$ 5	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB, P = PRIMARY , S = SECONDARY	\$ ESSJ &	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE	1 L	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REWIOVED
_	GROUNDING CONDUCTOR	$A \times A$	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, X INDICATES SHEET DRAWN ON
	GROUNDING SYSTEM PER CODE	AH1	
	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)	1 ATT	MECHANICAL EQUIPMENT CONNECTION
	EXHAUST FAN		
5	MOTOR CONNECTION		
<b>\$</b> <sub>M</sub>	MANUAL STARTER		
<u></u>	DISCONNECT SWITCH		
<u></u>	FUSED DISCONNECT SWITCH		
	EXISTING PANELBOARD TO BE RETAINED		
Н	HAND HOLE PER CITY OF PUYALLUP STANDARDS		
<b>&gt;</b>	UTILITY POLE		

#### GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. SEE DRAWINGS FOR EMERGENCY LIGHTING FIXTURES.

2. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT, OCCUPANCY SENSORS AND TIME CLOCK CONTROLS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TESTING OF THE CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS TO MAKE SURE THEY ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED IN THE PRESENCE OF THE ENGINEER. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

#### LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL#	LAMPS	V	W	MOUNTING & REMARKS
EX1	EXIT SIGN	LITHONIA LHQM-LED-R-HO-ELA-T-Q-L0309-SD	LED	120	3	WALL MOUNT. PROVIDE WITH INTEGRAL BATTERY PACK.
PL1	STREET LIGHT POLE FIXTURE	GE EVOLVE ERS2-0-HX-EX-5-40 ARM: 12' ARM	LED	120- 277		30' POLE WITH COBRA HEAD STYLE FIXTURE. SEE STREET LIGHT POLE DETAILS AND ADDITIONAL INFORMATION ON SHEET E- 701 AND E-702.
WL1	WEDGE WALL 2' LED LIGHT FIXTURE	AXIS/PRIME PWWLED-500-80-35-S-2-UNV	3500K	120	10	WALL MOUNT CENTERED ABOVE MIRROR LOCATION.

	ELECTRICAL ABBREVIATIONS
AWG	AMERICAN WIRE GUAGE
С	MOUNT ABOVE COUNTER
C.	CONDUIT
СО	CONDUIT ONLY
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
FA	FIRE ALARM
FLA	FULL LOAD AMPERE(S)
G	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
LED	LIGHT-EMITTING DIODE(S)
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
RECPT	RECEPTACLE
SL	SURFACE MOUNTED LED LIGHT FIXTURE
UG	UNDER GROUND
V	VOLT(S)
VA	VOLT-AMPERE(S)
W	WEATHERPROOF
XFMR	TRANSFORMER

יאר TECT ORTHEAST

E-001

GRIMIT ARCHITECTURE
MICHAEL P. GRIMIT, ARCHITECT
516 WANA WANA PLACE NORTHEAST
TACOMA, WA. 98422-1732

OLSON BROTHERS PRO-VAC, LLC BUILDING REMODEL 2505, 2511, 2515 INTER AVENUE PUYALLUP, WA. 98373

ELECTRICAL LEGEND AND LIGHTING FIXTURE SCHEDULE

OCTOBER 30, 2020

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER
I YEAR 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 ENGINEERING

CITY OF PUYALLUP ENGINEERING SERVICES

SERVICE MANAGER



- REMOVE ALL CABLES, CONDUCTORS, SURFACE RACEWAYS AND APPURTENANCES WHICH SERVE EXISTING EQUIPMENT TO BE DEMOLISHED.
- CONTRACTOR TO REMOVE AND DELIVER TO OWNER ALL DEVICES THAT ARE IDENTIFIED BY THE OWNER TO BE RETAINED. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ASSURE THAT ALL ITEMS TO BE RETAINED ARE IDENTIFIED PRIOR TO THE START OF DEMOLITION. ALL ITEMS NOT SO IDENTIFIED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, PATCHING & FINISH WORK
- ANY INTERRUPTED CIRCUIT TO REMAIN SHALL BE MADE CONTINUOUS.

#### GENERAL CONSTRUCTION NOTES

- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS, AND SHALL NOT RELY SOLELY ON REVIEW OF THE DOCUMENTS IN DETERMINING THE EXTENT OF WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND UTILITY FEES.
- PROVIDE CONDUIT SUPPORTS AS REQUIRED.
- FLEX CONNECTIONS SHALL BE MADE WITH STEEL, LIQUID TIGHT CONDUIT.
- PROVIDE A GROUND WIRE FOR ALL CIRCUITS.
- SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
- PROVIDE MANUFACTURER APPROVED BACK BOXES IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. ALL CABLE/CONDUIT ROUTING SHALL USE THE EXISTING PATHS AS THE MAIN ROUTING PATH AS MUCH AS POSSIBLE BEFORE CROSSING INTO OTHER AREAS TO GET TO DEVICE LOCATIONS. LINE OF SIGHT ROUTING OF THE CABLE/CONDUITS WILL NOT BE ACCEPTABLE
- ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURE.
- PROVIDE SURFACE-MOUNTED DEVICES AND THEIR ASSOCIATED SURFACE-MOUNT BACK BOXES AND SURFACE-MOUNTED METAL RACEWAY (WIREMOLD OR EQUAL) IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE ON THE INTERIOR AND CONDUIT ON THE EXTERIOR. PAINT EACH BACKBOX, RACEWAY, AND CONDUIT TO MATCH THE ADJACENT SURFACE.
- WHERE OPEN CABLING IS PERMITTED BY CODE, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATE FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTRUSION ALARM IN ANOTHER J-HOOK, AND SO ON). CATEGORY RATED TELECOMMUNICATIONS CABLING FOR DATA, VOICE, IP INTERCOM/CLOCK SPEAKER, CCTV AND ACCESS CONTROL MAY SHARE THE SAME J-HOOK AND PATHWAYS. IF EXISTING J-HOOK/CABLE TRAY IS ALREADY FULL, THEN NEW J-HOOK/CABLE TRAY SYSTEM SHALL BE PROVIDED FOR WIRING THIS PROJECT.
- 11. ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE
- FIRE ALARM DEVICES ARE SHOWN FOR GENERAL COMPLIANCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO DESIGN AND PROVIDE A COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH CITY OF PUYALLUP REQUIREMENTS

#### DIVISION 26 - ELECTRICAL SPECIFICATIONS

#### SECTION 26 00 00 - ELECTRICAL GENERAL CONDITIONS

- THE ELECTRICAL CONTRACTOR SHALL CONFORM TO THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, AND RELATED WORK IN OTHER DIVISIONS FOR ALL WORK IN DIVISION 26, 27 AND 28.
- THE WORK SHALL COMPLY WITH THE LATEST EDITION OF THE APPLICABLE STANDARDS AND CODES OF THE FOLLOWING: ASTM, NBFU, NEC, WAC, NESC, NEMA, NFPA, U.L., IPCEA, CBM, ETL.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS
- REQUIRED BY LAWS, ORDINANCES AND RULES GOVERNING WORK. THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS
- THE CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY OF WORKMANSHIP FOR A 12 MONTH • THE CONTRACTOR SHALL PROVIDE CLOSEOUT DOCUMENTS AS REQUIRED BY THE
- WASHINGTON STATE ENERGY CODE • SHOP DRAWINGS AND OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED IN

## SECTION <u>26 05 19 - WIRES AND CABLES</u>

ALL WIRING SHALL BE COPPER THW OR THHN.

ACCORDANCE WITH DIVISION 1 SPECIFICATIONS.

- MC CABLE MAY BE USED FOR BRANCH CIRCUITS UP TO 30 AMPS.
- CONDUCTORS SHALL BE TESTED WITH A "MEGGER" TYPE TESTER. FEEDERS SHALL BE CHECKED TO ENSURE PHASE ROTATIONS FOR MOTORS AND EQUIPMENT.

#### SECTION 26 05 26 - GROUNDING

- A GROUNDING SYSTEM SHALL BE PROVIDED FOR NEUTRAL GROUND AND EQUIPMENT GROUND AS REQUIRED BY CODE.
- PROVIDE GROUND WIRE IN ALL CONDUITS.
- METAL INTERNAL PIPING SHALL BE GROUNDED.

#### SECTION 26 05 32 - OUTLETS AND PULL BOXES

- OUTLET AND PULL BOXES SHALL BE PRESSED STEEL, ZINC COATED, 4" SIZE MINIMUM.
- ALL WORK IN THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT
- DEVICE MOUNTING HEIGHTS SHALL BE AS FOLLOWS: SWITCHES 4 FEET; RECEPTACLES 18 INCHES; OTHER DEVICES AS NOTED ON PLANS OR IN OTHER SECTIONS OF THE SPECIFICATIONS.

#### SECTION 26 05 33 - RACEWAY

- ALL RACEWAYS SHALL BE GRS, IMC, OR EMT UNLESS NOTED OTHERWISE.
- PVC CONDUIT MAY BE USED FOR UNDERGROUND RACEWAYS.
- FLEXIBLE CONDUITS SHALL BE PERMITTED IN 6 FOOT LENGTHS TO MOTORS AND LAY-IN LIGHT FIXTURES. UTILIZE LIQUID TIGHT FLEXIBLE METAL CONDUIT IN UP TO 6 FOOT LENGTHS FOR EXTERIOR MOTOR CONNECTIONS.

#### SECTION 26 27 26 - SWITCHES AND RECEPTACLES

- SWITCHES SHALL BE SPECIFICATION GRADE, QUIET TYPE, WHITE COLOR WITH IMPACT RESISTANT WHITE NYLON PLATES.
- STANDARD AND GFCI RECEPTACLES SHALL BE HEAVY DUTY TYPE NEMA 5-20R CONFIGURATION, WHITE COLOR WITH IMPACT RESISTANT WHITE NYLON PLATES.

- LUMINAIRE TYPE SHALL BE LED WITH A MINIMUM L70 RATING OF 50,000 HOURS. • MINIMUM CRI SHALL BE 80.
- DRIVERS SHALL BE RATED FOR 50,000 HOURS AND SELECTED TO MATCH CONTROLS AND BE DIMMING OR STATIC AS REQUIRED.

#### FIRE ALARM SYSTEM GENERAL NOTES

- PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN AND PROGRAMMING FOR THE INSTALLATION OF A COMPLETE, ADDRESSABLE LOW VOLTAGE 24 VOLT D.C., FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72), THE LAWS AND REGULATIONS OF WASHINGTON STATE, THE CITY OF PUYALLUP MUNICIPAL CODE.
- THIS BUILDING IS WITHIN THE CITY OF PUYALLUP CITY LIMITS. PER THE CITY OF PUYALLUP MUNICIPAL CODE THE FIRE ALARM SYSTEM SHALL BE TOTAL COVERAGE SMOKE DETECTION IN ALL SPACES PER NFPA #72.
- THE NICET DESIGNER SHALL BE RESPONSIBLE FOR DESIGN, LAYOUT, AND COORDINATION OF SMOKE DETECTION COVERAGE IN ALL CONCEALED SPACES PER NFPA #72
- THE CITY OF PUYALLUP REQUIRES THAT THE FIRE ALARM SYSTEM CONTRACTOR SHOW SECTION VIEWS OF ALL INTERSTITIAL SPACES. ABOVE CEILING GRID, ABOVE CEILING HARD LIDS, BEAM POCKETS ABOVE AND BELOW CEILINGS, CLOUDS, AND ROOF SLOPE FOR ATTIC DETECTION.
- TOTAL COVERAGE IS DEFINED IN SECTION 17.5.3.1 OF NFPA #72 1.4.
- 17.5.3.1 TOTAL (COMPLETE) COVERAGE. WHERE REQUIRED BY LAWS, CODES, OR 1.4.1. STANDARDS, AND UNLESS OTHERWISE MODIFIED BY 17.5.3.1.1 THROUGH 17.5.3.1.5, TOTAL COVERAGE SHALL INCLUDE ALL ROOMS, HALLS, STORAGE AREAS, BASEMENTS ATTICS, LOFTS, SPACES ABOVE SUSPENDED CEILINGS, AND OTHER SUBDIVISIONS AND ACCESSIBLE SPACES, AS WELL AS THE INSIDE OF ALL CLOSETS, ELEVATOR SHAFTS, ENCLOSED STAIRWAYS, DUMBWAITER SHAFTS, AND CHUTES.
- 1.5. CITY OF PUYALLUP MUNICIPAL CODE 17.16.070 INSTALLATION REQUIREMENTS.
  - THE FIRE ALARM SYSTEM SHALL BE DESIGNED TO "TOTAL COVERAGE" PER NFPA 72 UNLESS A LESSER COVERAGE IS APPROVED BY THE FIRE CODE OFFICIAL. (ORD. 2801 § 6, 2004).

#### SHOP DRAWINGS

1.5.1.

- PREPARE DETAILED WORKING DRAWINGS FOR THE SYSTEM LAYOUT IN ACCORDANCE WITH 1.6.1. N.F.P.A. #72 AND THE FOLLOWING:
- SHOP DRAWING REQUIREMENTS: THE INSTALLING VENDOR'S/CONTRACTOR'S COMPLETE AND FULL-SIZE SET OF SHOP DRAWINGS SHALL BE ISSUED IN THE FOLLOWING FORMAT:
  - a. THEY SHALL BE CLEAR AND LEGIBLE.
  - b. THE SAME SHEET SIZE AS THE CONTRACT DRAWINGS (I.E. 30" X 42").
  - c. A MINIMUM OF 1/8" TEXT HEIGHT SHALL BE USED FOR ALL TEXT, SYMBOL TEXT, AND SUBSCRIPT TEXT.
  - d. SCALE OF DRAWINGS
    - ANY SITE PLAN DRAWINGS SHALL BE THE SAME SCALE AS ISSUED IN THE CONTRACT
  - ii. FLOOR PLAN DRAWINGS SHALL BE 1/8"=1'-0", UNLESS DIRECTED TO DO OTHERWISE.
  - e. THE ELECTRICAL LEGEND, WIRE LEGEND, LOAD AND BATTERY CALCULATIONS, RISER DIAGRAM, SEQUENCE OF OPERATION INFO. WIRING DETAILS, AND MOUNTING DETAILS SHALL PRECEDE THE SITE PLANS AND FLOOR PLANS.
  - f. ALL SHEETS, INCLUDING THE COVER, SHALL INCLUDE A TITLE BLOCK ALONG THE EDGE OF EACH OF THE DRAWINGS THAT, WHEN THE DRAWINGS ARE ROLLED UP, THE FOLLOWING INFORMATION SHALL BE VISIBLE:
  - a. THE SYSTEM-SPECIFIC SHEET NUMBER
  - h. PROJECT NAME, SPECIFICATION SECTION NUMBER AND SECTION TITLE NAME
  - i. FLOOR NAME, AREA, AND/OR SECTION OF THE BUILDING (USE THE NAME OF THE AREA AND/OR FLOOR DESCRIPTION THAT IS ON THE CONTRACT DRAWINGS.)
  - ARCHITECTURAL INFORMATION ON THE CONTRACT DRAWINGS SHALL BE INCLUDED ON THE INSTALLING VENDOR'S/CONTRACTOR'S SHOP DRAWINGS, INCLUDING, BUT NOT LIMITED TO: MATCH LINES, GRID LINES, GRID BUBBLES, KEY PLAN, AND ENLARGED FLOOR PLANS.
- COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.
- CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR CONCRETE SLABS, AND / OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
- WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT HAS BEEN INSTALLED.
- PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE GENERAL ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
- THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.
- ALL MANUAL PULL STATIONS SHALL BE DUAL ACTION, KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.
- EACH NEW WATER FLOW SWITCH, PRESSURE SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.
- ALL DEVICES AND DETECTOR BASES SHALL BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ZONE AND DEVICE NUMBER IN CIRCUIT IN A READILY VISIBLE LOCATION DIRECTLY ON THE DEVICE.

#### FIRE ALARM SYSTEM CABLING AND CONDUIT REQUIREMENTS

- 1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.
- 2. ALL "CLASS B" WIRING CIRCUITS SHALL BE PROVIDED WITH AN "END-OF-LINE" RESISTOR INSTALLED AT THE END OF EACH CIRCUIT.
- THE USE OF T-TAPPING IS NOT ALLOWED ON I.D.C. (INITIATING DEVICE CIRCUIT) CIRCUITS. T-TAPPING IS NOT ALLOWED ON ANY CIRCUIT REQUIRING AN END OF LINE RESISTOR.
- 4. ALL WIRE TERMINATIONS SHALL BE BY USE OF WIRE NUTS OR SCREW TYPE TERMINATION BLOCKS.
- 5. THE USE OF CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. SHALL NOT BE ALLOWED IN J-BOXES, TERMINAL CABINETS, OR ENCLOSURES.
- 6. ALL WIRES OUTSIDE OF J-BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPLICES.
- 7. CONDUITS SHALL BE CONCEALED IN CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER
- ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.
- 9. FIRE ALARM CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ALLOWED TO BE INSTALLED AS OPEN CABLING. PROVIDE "D" RING HANGER FOR ALL OPEN CABLING AT A MAXIMUM SPACING OF 5'-0" ON CENTER.
- 10. CABLING THAT IS INSTALLED IN WALLS, CABLING THAT IS INSTALLED BELOW 8'-0" IN ELEVATION THAT IS SUBJECT TO DAMAGE, AND CABLING THAT IS INSTALLED ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
- 11. CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OR BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH #12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT. PROVIDE QUANTITIES AS REQUIRED.
- 12. ALL EXPOSED SURFACE MOUNTED RACEWAYS IN FINISHED SPACES BELOW 8'-0" IN ELEVATION SHALL BE A MINIMUM OF SERIES 700 METAL WIREMOLD OR EQUAL. THE INSTALLATION OF EXPOSED ELECTRICAL METALLIC TUBING (EMT) IN FINISHED SPACES BELOW 8'-0" IN ELEVATION WILL NOT BE ALLOWED.
- 13. CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70). PROVIDE SIZES AND QUANTITIES AS REQUIRED.
- 14. WHERE EXPOSED TO VIEW IN FINISHED SPACES, PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.
- 15. ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED AND ANNOTATED "FIRE ALARM POWER LIMITED" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FONT SIZE ¼" TALL X ¼" WIDE.

#### FIRE ALARM SYSTEM AUDIBILITY REQUIREMENTS

- 1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM AUDIBILITY TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING. DOCUMENTATION OF DECIBEL (dB) VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE ARCHITECT / ENGINEER PRIOR TO ACCEPTANCE TESTING.
- A. DECIBEL READINGS SHALL BE TAKEN AT A POINT 10'-0" FROM THE APPLIANCE AT AN ELEVATION OF 5'-0" ABOVE FINISHED FLOOR.
- B. THE SOUND LEVEL SHALL BE A MINIMUM OF 15 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
- C. THE SOUND LEVEL SHALL BE A MAXIMUM OF 30 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
- D. THE SOUND LEVEL SHALL BE A MINIMUM OF 5 DECIBELS (dBs) ABOVE THE MAXIMUM SOUND LEVEL HAVING A MINIMUM DURATION OF 60 SECONDS.
- E. IN SPACES THAT DO NOT MEET THE MINIMUM AUDIBLE (dB) VALUES, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES UNTIL THE MINIMUM DECIBEL (dB) VALUES ARE OBTAINED.

#### FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS

- 1. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION.
- 2. ALL BATTERIES SHALL PROVIDE AT LEAST 25% SPARE CAPACITY.
- 3. PROVIDE POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ALL POWER CONNECTIONS THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL COSTS ASSOCIATED WITH ALL NON-COORDINATED POWER CONNECTIONS.
- 4. PROVIDE 25% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES.
- PROVIDE MULTIPLE INITIATING DEVICE CIRCUITS SO THAT FAILURE OF ONE CIRCUIT DOES NOT CAUSE THE FACILITY TO LOSE OVER 50% OF ITS DETECTION CAPABILITY PER FLOOR.
- 6. EACH CIRCUIT SHALL HAVE A MAXIMUM OF 20 DEVICES PER ZONE.
- 7. PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS.

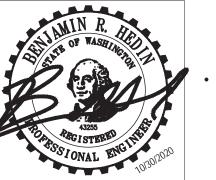


Y MICH 516 TAC

Z <del>ار</del> س RS F DEL INTI 9837 田 〇 区 REMC 1, 251 2, WA **盟の** 1 3 SOI IILD 05, OL BU 250 PU

ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

OCTOBER 30, 2020



ELECTRICAL SITE PLAN

APPROVED

CITY OF PUYALLUP ENGINEERING SERVICES

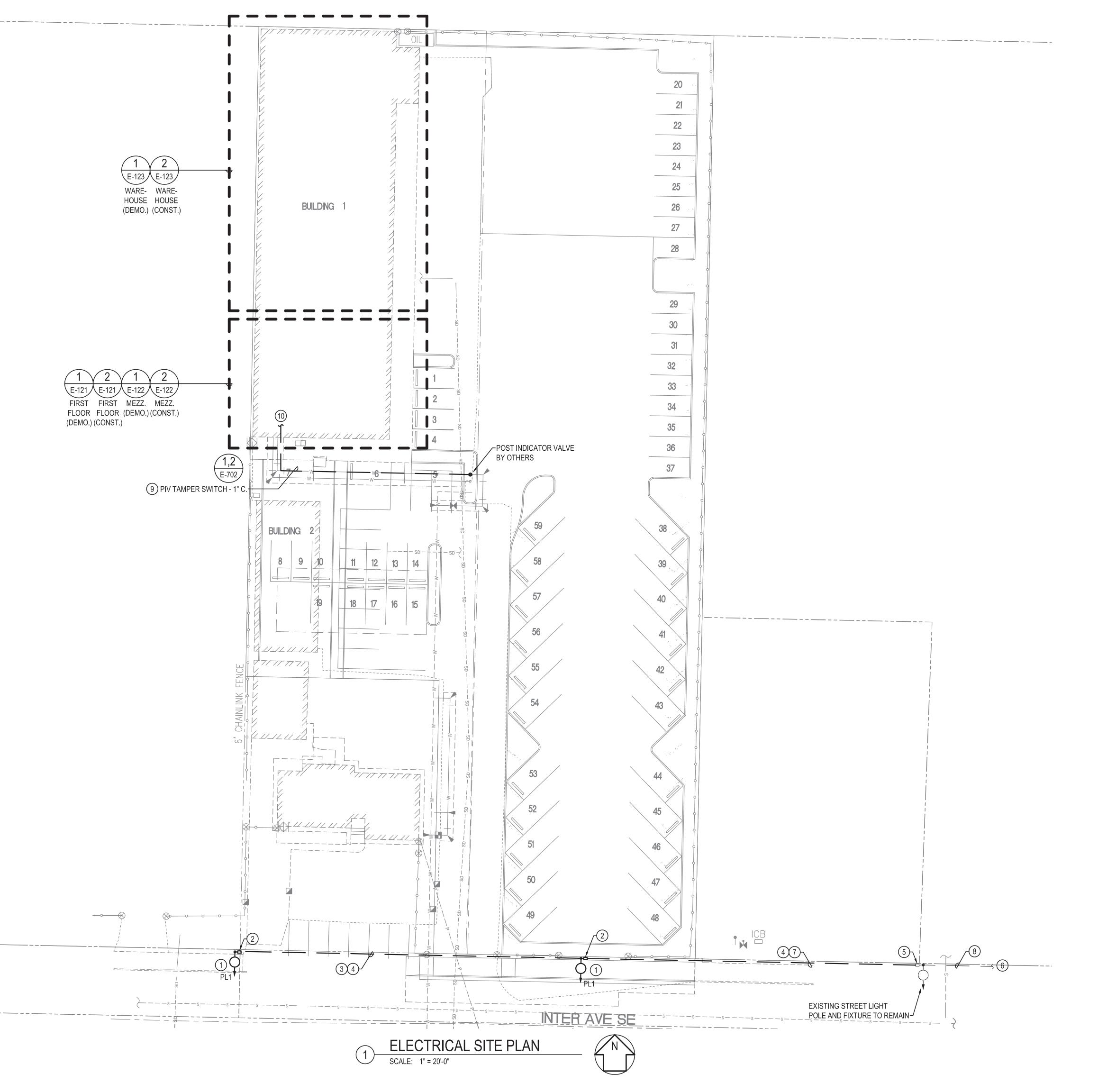
NOTE: THIS APPROVAL IS VOID AFTER I YEAR FROM APPROVAL DATE. THE

CITY WILL NOT BE RESPONSIBLE FOR

SERVICE MANAGER

ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING OCTOBER 30, 2020





#### **GENERAL NOTES**

- . SEE GENERAL NOTES ON SHEET E-002 AND STREET LIGHT POLE DETAILS ON SHEET E-701 AND E-702 FOR ADDITIONAL INFORMATION.
- FOR STANDARDIZATION, STREET LIGHTING DESIGN AND INSTALLATION SHALL BE BASED ON CITY OF PUYALLUP STREET LIGHTING STANDARDS.
- STREET LIGHTING FIXTURES AND JUNCTION BOX LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK.
- 4. ALL SITE WORK SHALL BE COORDINATED WITH PUGET SOUND ENERGY (PSE) PRIOR TO ROUGH-IN ANY WORK.
- COORDINATE ALL TRENCHING WITH CIVIL CONTRACTOR, PSE, TELECOMMUNICATIONS, CATV, GAS LINES, AND ALL OTHER UTILITIES.
- ALL STREET LIGHTING CONDUIT SHALL BE SCHEDULE 80 PVC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NECESSARY EQUIPMENT AND DEVICES FOR A COMPLETE AND OPERATIONAL LIGHTING SYSTEM.

#### **CONSTRUCTION NOTES**

- ELECTRICAL CONTRACTOR SHALL MAINTAIN 150FT SPACING REQUIREMENT
  BETWEEN STREET LIGHTING POLES PER CITY OF PUYALLUP STANDARDS. FIELD
  VERIFY AND COORDINATE LIGHT POLE LOCATION WITH PSE AND CITY OF PUYALLUP
  PRIOR TO ROUGH-IN.
- 2 PROVIDE TYPE 1 JUNCTION BOX WITH SLIP RESISTANT COATING AND 6" X 6" CONCRETE COLLAR PER CITY OF PUYALLUP STANDARDS.
- PROVIDE (1) 2" PVC SCHEDULE 80 CONDUIT (2) #8 CU. & (1) #10 CU. GND. AND (1) 2" PVC SCHEDULE 80 CONDUIT SPARE WITH PULLSTRING.
- ROADWAY AS REQUIRED BY THE CITY OF PUYALLUP.

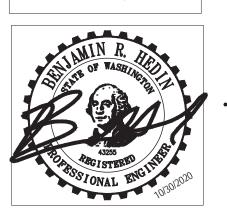
  (5) INTERCEPT STREET LIGHTING CIRCUIT AT EXISTING HANDHOLE AND EXTEND

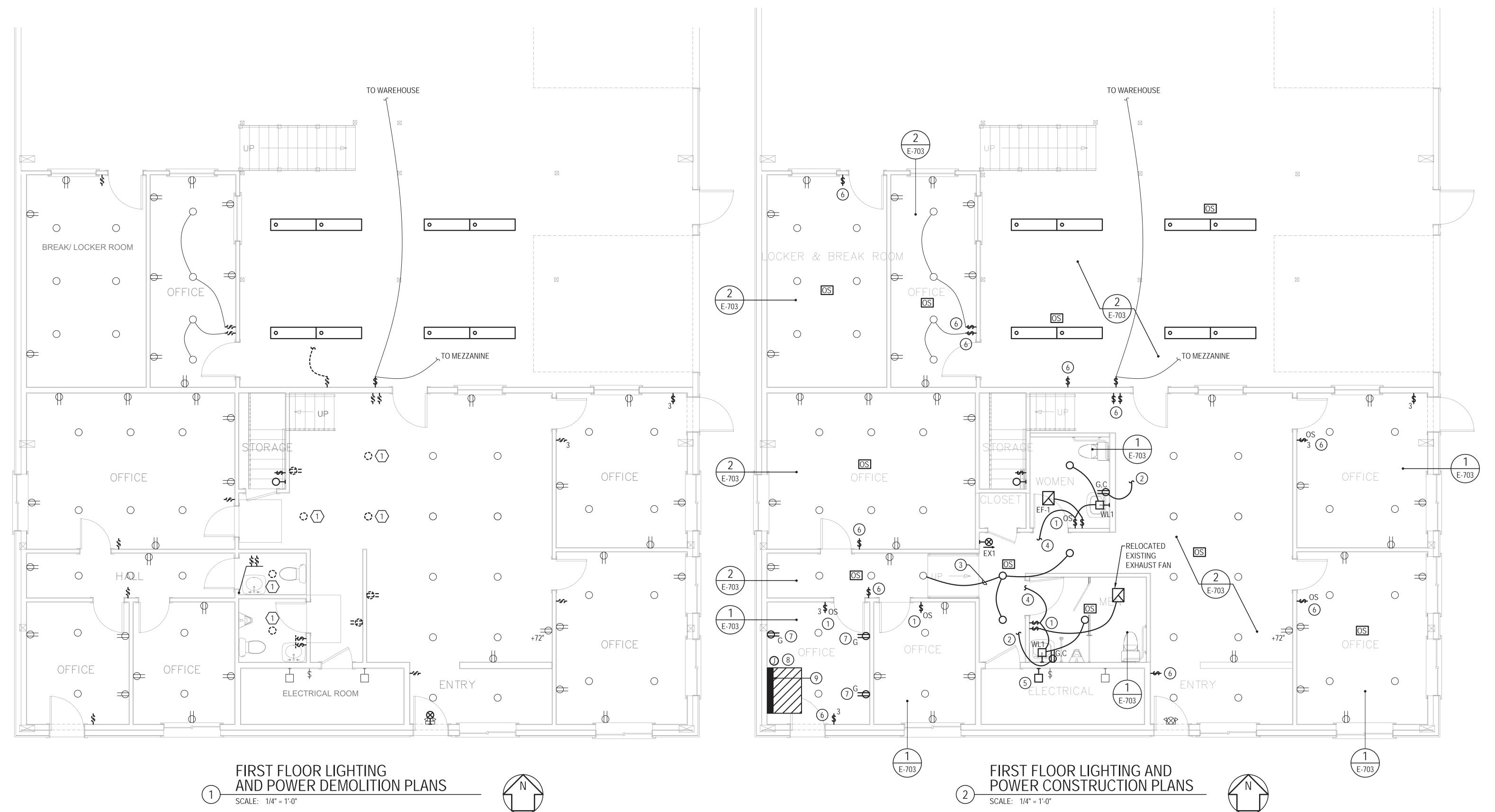
PROVIDE SAW CUTTING, AS NECESSARY, AND REPAIR TRENCH AND EXISTING

- APPROXIMATELY 150FT TO NEW STREET LIGHT.
- 6 EXISTING CONNECTION TO TESCO SERVICE CABINET LOCATED APPROXIMATELY 600FT EAST OF SITE AT 2526 INTER AVENUE.
- 7 PROVIDE (2) 2" PVC SCHEDULE 80 CONDUIT (2) #8 CU. & (1) #10 CU. GND. AND (1) 2" PVC SCHEDULE 80 CONDUIT SPARE WITH PULLSTRING.
- 8 EXISTING TO REMAIN (1) 2" PVC SCHEDULE 80 CONDUIT (2) #8 CU. & (1) #10 CU. GND. AND (1) 2" PVC SCHEDULE 80 CONDUIT SPARE WITH PULLSTRING.
- 9 PROVIDE 1" CONDUIT WITH NYLON PULL STRING FOR CONNECTION OF TAMPER SWITCH AT POST INDICATOR VALVE TO FIRE ALARM CONTROL PANEL. COORDINATE INSTALLATION WITH NEW WATER LINES. PROVIDE CUTTING AND PATCHING AS REQUIRED.
- (10) SEE E-121 FOR CONTINUATION.



OCTOBER 30, 2020





#### **DEMOLITION NOTES**

SALVAGE AND PROTECT EXISTING LIGHT FIXTURE FOR RELOCATION ON FIRST FLOOR CONSTRUCTION PLANS ON THIS SHEET.

#### GENERAL NOTES

- 1. SEE GENERAL NOTES ON SHEET E-002 FOR ADDITIONAL INFORMATION AND SPECIFICATIONS.
- 2. REFER TO E-002 FOR FIRE ALARM SYSTEM DESIGN NOTES.

- PROVIDE CONNECTIONS TO EXISTING LIGHTING CIRCUIT.
   EXTEND NEAREST UNSWITCHED HOT LEG TO NEW SWITCH LOCATION.
  - The state of the s

INTERCEPT, SPLICE, AND EXTEND CONDUIT AND WIRE FROM NEAREST

PROVIDE NEW SWITCH LOCATION AND RECONFIGURE WIRING, AS NECESSARY, TO TIE NEW WIRELESS SWITCH INTO NEW OCCUPANCY SENSOR FOR LOCAL CONTROL

6 NEW SWITCH IN EXISTING LOCATION.

CONSTRUCTION NOTES

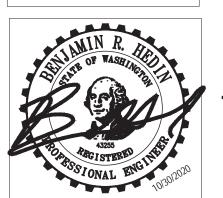
UNSWITCHED RECEPTACLE CIRCUIT.

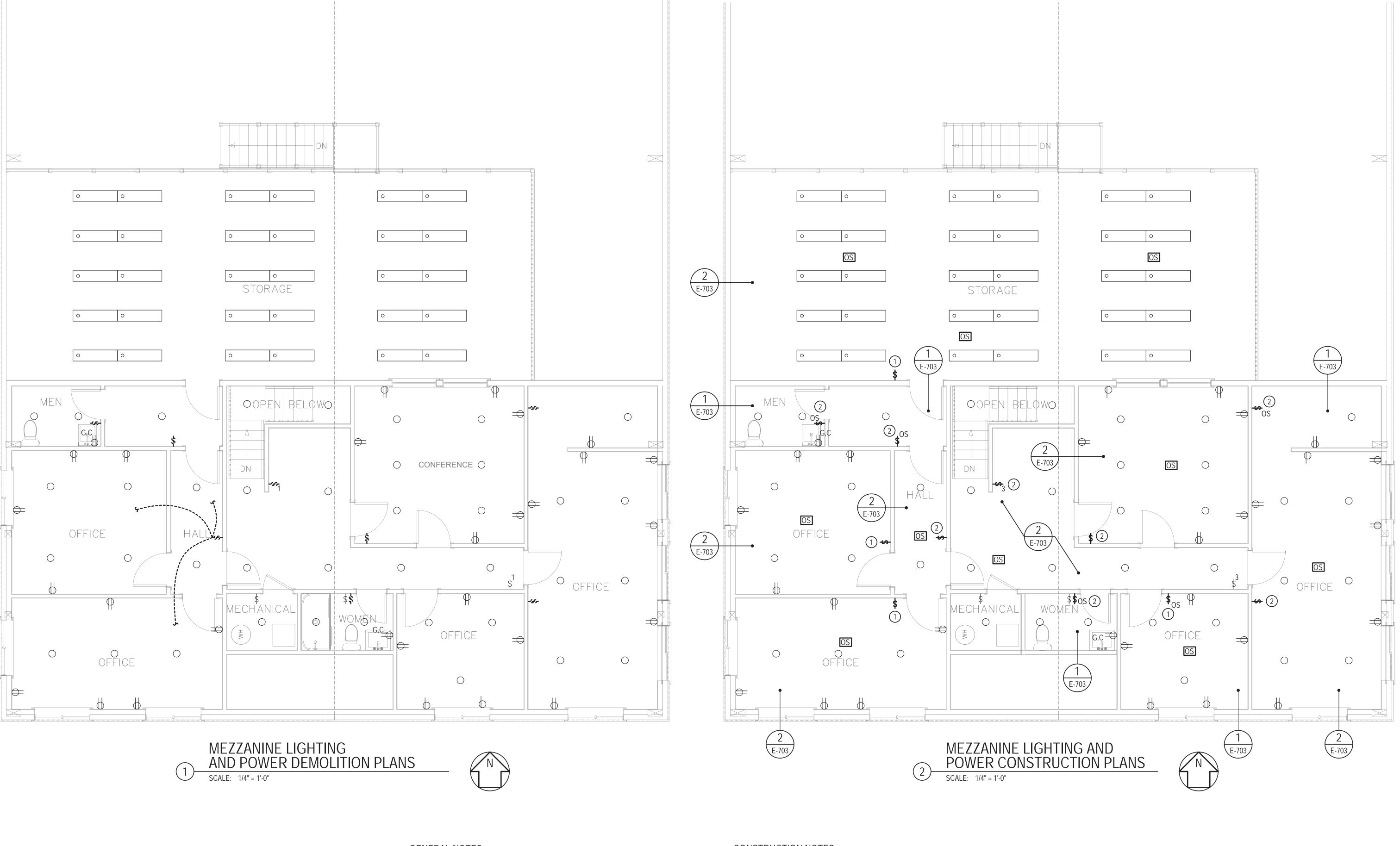
OF OFFICE LIGHTING.

- 7) PROVIDE NEW GFCI RECEPTACLE IN EXISTING LOCATION.
- PROVIDE 1P/20A CIRCUIT FOR 120V POWER TO FIRE ALARM CONTROL PANEL. PROVIDE NEW BREAKER, AS NECESSARY, MATCHING PANEL AIC RATING.
- 9 RESERVE 48" WIDE SPACE, FLOOR TO CEILING, WITH 36" OF CLEARANCE FOR FIRE ALARM PANEL.

MEZZANINE LIGHTING AND POWER PLANS

OCTOBER 30, 2020





**GENERAL NOTES** 

1. SEE GENERAL NOTES ON SHEET E-002.

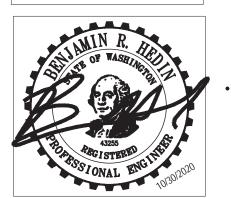
CONSTRUCTION NOTES

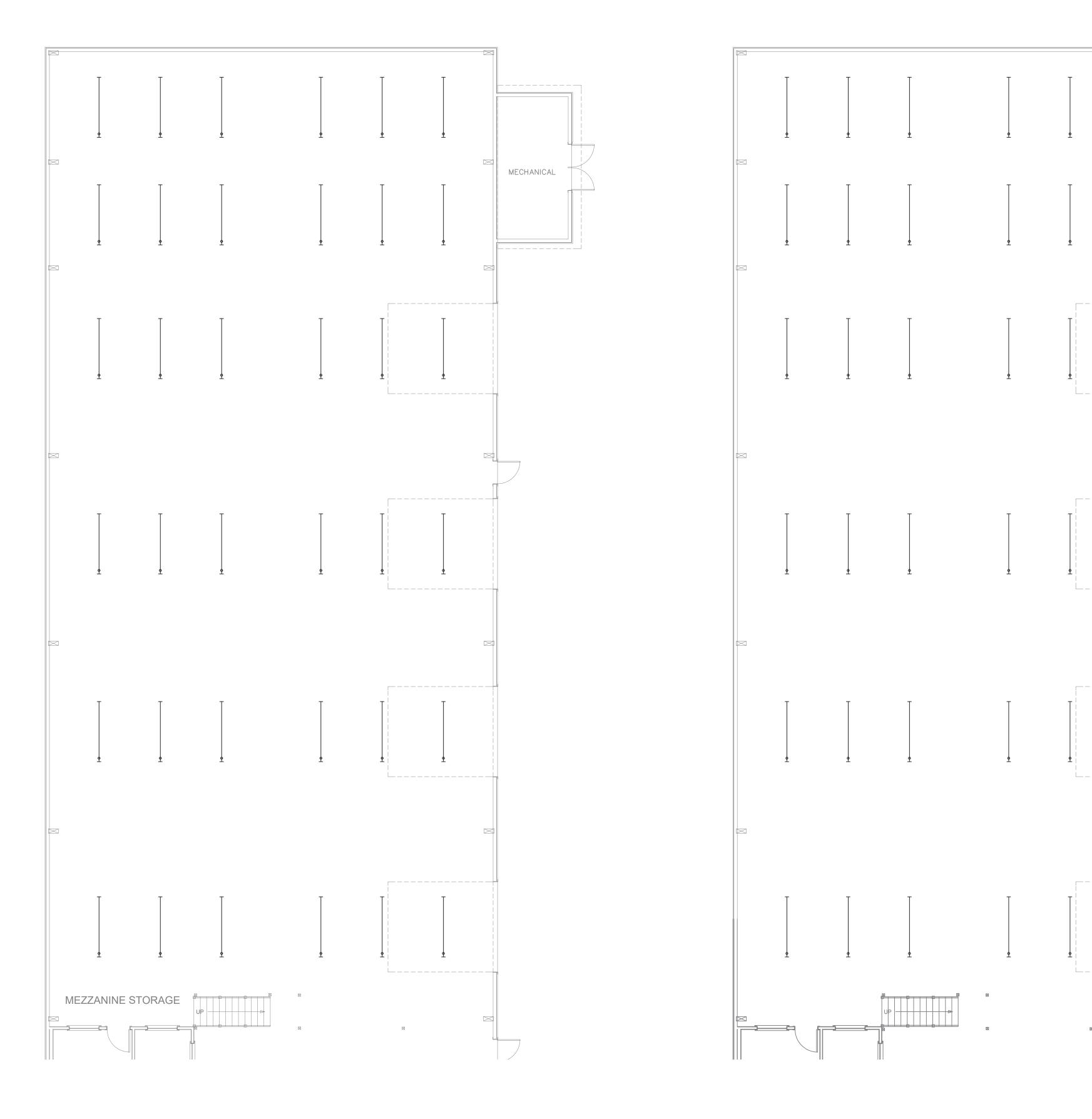
1 PROVIDE NEW SWITCH LOCATION AND RECONFIGURE WIRING, AS NECESSARY, TO TIE NEW WIRELESS SWITCH INTO NEW OCCUPANCY SENSOR FOR LOCAL CONTROL OF OFFICE/STORAGE LIGHTING.

(2) NEW SWITCH IN EXISTING LOCATION.

WAREHOUSE LIGHTING AND POWER PLANS

OCTOBER 30, 2020





WAREHOUSE LIGHTING AND POWER CONSTRUCTION PLANS

SCALE: 1/8" = 1'-0"

WAREHOUSE LIGHTING AND POWER DEMOLITION PLANS SCALE: 1/8" = 1'-0"

GENERAL NOTES SEE GENERAL NOTES ON SHEET E-002.

MECHANICAL

2. ALL EXISTING LIGHTING AND SWITCHING TO REMAIN.

**ELECTRICAL DETAILS** 



#### STREET LIGHTING SPECIFICATIONS

1. 30-FOOT STEEL STREETLIGHT STANDARD

DIMENSIONS

STREETLIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 30'0" PLUS OR MINUS 6" WITH A TYPICAL 12 FOOT MAST ARM WITH A THREE FOOT OVERHANG.

BASE PLATE SHALL HAVE SLOTTED HOLES TO ACCOMMODATE 1-INCH ANCHOR BOLTS, AND 11 1/2" BOLT CIRCLE WITH MINIMUM CLEARANCE OF 1" BETWEEN BOLT AND POLE.

HANDHOLE CENTER SHALL BE LOCATED APPROXIMATELY 12 INCHES FROM THE BASE PLATE, ROTATED 270 DEGREES FROM MAST ARM SO AS THE HANDHOLE IS LOCATED ON THE SIDE OPPOSING ONCOMING TRAFFIC.

STRENGTH

POLES SHALL MEET ALL STRENGTH REQUIREMENTS OF AASHTO FOR 90 MPH ISOTACH WHEN USED WITH A LUMINAIRE WEIGHING 48 POUNDS WITH A E.P.A. OF 1.1 SQUARE FEET. ALL ATTACHING BOLTS AND SCREWS THAT ARE NOT GALVANIZED SHALL BE STAINLESS STEEL.

c. FINISH

THE POLES AND ALL HARDWARE SAHALL BE HOT DIPPED GALVANIZED, MINIMUM 3 MIL THICKNESS.

- d. MAST ARM ATTACHMENT SHALL BE SECURED BY 3 BOLTS.
- e. EACH POLE SHALL HAVE HANDHOLE (WITH COVER), GROUND LUG AND REMOVABLE POLE CAP.
- f. EACH CITY POLE SHALL HAVE A BLACK 4" TO 6" LETTER C STENCILED ON ROADWAY SIDE OF POLE 16" ABOVE GRADE.

#### ANCHORAGE

- a. POLES SHALL BE ANCHORED WITH 4 BOLTS, 1"X36"X4" #8UNC WITH HOT DIPPED GALVANIZING AFTER THREADS ARE CUT. GALVANIZED AREA SHALL EXTEND FROM THREADED END FOR A MINIMUM OF 12 INCHES. BOLTS SHALL BE PROVIDED WITH 2 GALVANIZED NUTS AND FLAT WASHERS FOR LEVELING. SHIMS WILL NOT BE USED.
- b. A NON-SHRINKING GROUT SHALL BE INSTALLED WITH ONE 1/2" DRAIN HOLE UNDER THE BASE PLATE AFTER THE ENGINEER HAS APPROVED THE POLE INSTALLATION.

#### CONDUIT

ALL CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES DEEP. ALL ROADWAY CROSSINGS SHALL BE RIGID METALLIC OR SCHEDULE 80 PVC. CONDUIT SHALL CONFORM TO SECTION 9-29 OF WSDOT STANDARD SPECIFICATIONS. SCHEDULE 80 PVC MAY BE USED IN LOCATIONS OTHER THAN ROADWAY CROSSINGS.



STREET LIGHT **SPECIFICATIONS** 

DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

PUBLIC WORKS DEPARTMENTS

01.05.06

#### (STR LIGHT SPECS CONTINUED)

JUNCTION BOXES (WHEN REQUIRED)

JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS. THEY WILL CONFORM TO WSDOT STANDARD PLAN J-40:10-02, TYPE 1. THEY SHALL BE LEVEL WITH THE SIDEWALK GRADE AND FIRMLY BEDDED TO PREVENT FUTURE SETTLING. JUNCTION BOXES ARE PREFERRED NOT TO BE INSTALLED IN THE SIDEWALK. THE COVER SHALL BE GALVANIZED AND GROUNDED. THE LETTERS "LT" SHALL BE ETCHED ON THE COVER. (SEE CITY STANDARD DETAIL NO. 01.06.01). IF THE JUNCTION BOX IS NOT IN THE SIDEWALK THEN IT SHALL HAVE A CONCRETE COLLAR. IF THE JUNCTION BOX IS IN THE SIDEWALK THEN IT SHALL HAVE A NON-SLIP SURFACE TREATMENT. SEE CITY STANDARD DETAIL NO. 01.06.01.

#### CONDUCTORS, WIRES, ETC.

WIRE CONDUCTORS FOR UNDERGROUND FEEDER RUNS AND FOR CIRCUITRY FROM THE IN-LINE FUSE IN THE POLES TO THE JUNCTION BOX SHALL BE 600 VOLT, SINGLE CONDUCTOR STRANDED COPPER AND INSULATED WITH USE GRADE POLYVINYL CHLORIDE COMPOUND (XLP) OR APPROVED EQUAL IN ACCORDANCE WITH THE INSULATED POWER CABLE ENGINEER'S ASSOCIATION SPECIFICATIONS. AN AWG NO. 8 GREEN INSULATED STRANDED COPPER WIRE WILL BE RUN TO THE SERVICE GROUND LUG ON EACH POLE. FEEDERS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. WIRES INSIDE THE POLE BETWEEN BALLAST AND IN-LINE FUSES SHALL BE ROME 2C AWG 10 STRANDED POLE AND BRACKET WIRE OR APPROVED EQUAL. SPLICES WILL BE ALLOWED IN JUNCTION BOXES AND POLE BASES ONLY. NO MORE THAN 2 CONDUITS WILL BE ALLOWED INSIDE THE STREET POLE.

LUMINARE FUSING AND ELECTRICAL CONNECTIONS AT LIGHT STANDARD BASES SHALL CONFORM TO SECTION 9-29.7 OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS AND AS SHOWN ON THE UNIFORM LUMINARE WIRING DETAIL IN THE APPENDIX. IN-LINE FUSE HOLDERS SHALL BE SEC MODEL 1791-SF WITH FNM-5 FUSES OR APPROVED EQUAL. (REFER TO CITY STANDARD DETAIL NO. 01.06.01)

LUMINAIRES AND LAMPS

RESIDENTIAL STREETS AND NEIGHBORHOOD COLLECTORS: LEOTEK LED GC1-40E-MV-NW-2-530 (67 WATT LED)

ARTERIALS AND COMMERCIAL COLLECTORS: GE EVOLVE LED ERS2-E-0-HX-EX-5-40 (130 WATT LED)

THE CITY WILL ENERGIZE THE STREET LIGHTS WHEN A HOME IS OCCUPIED ADJACENT TO A STREET LIGHT OR IMMEDIATELY ACROSS THE STREET. AT THE DEVELOPER'S REQUEST, STREET LIGHTS MAY BE ENERGIZED PRIOR TO OCCUPANCY OF HOMES. HOWEVER, THE DEVELOPER OR BUILDER SHALL ASSUME FULL RESPONSIBILITY FOR ELECTRICAL POWER COSTS AND REPAIR COSTS DUE TO VANDALISM, THEFT, OR CONSTRUCTION.

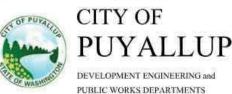
#### 8. SAFE WIRING LABELS

THE CONTRACTOR IS ADVISED THAT SAFE WIRING LABELS REQUIRED BY LABOR AND INDUSTRIES SHALL APPLY ON THIS PROJECT. (ELECTRICAL INSPECTION STICKER)

GUARANTEE

THE CONTRACTOR SHALL SURRENDER TO THE CITY OF PUYALLUP ANY GUARANTEE OR WARRANTY ACQUIRED BY HIM AS A NORMAL TRADE PRACTICE IN CONNECTION WITH THE PURCHASE OF ANY MATERIALS OR ITEMS USED IN THE CONSTRUCTION OF THE ILLUMINATION,

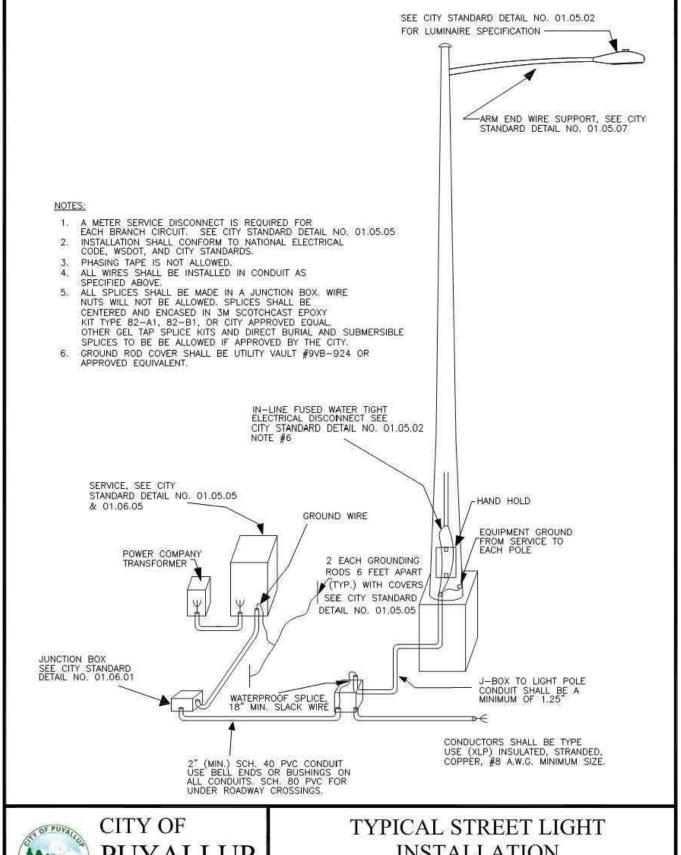
LOCATION SEE CITY STANDARD SECTION 01.01 ROADWAY DESIGN.

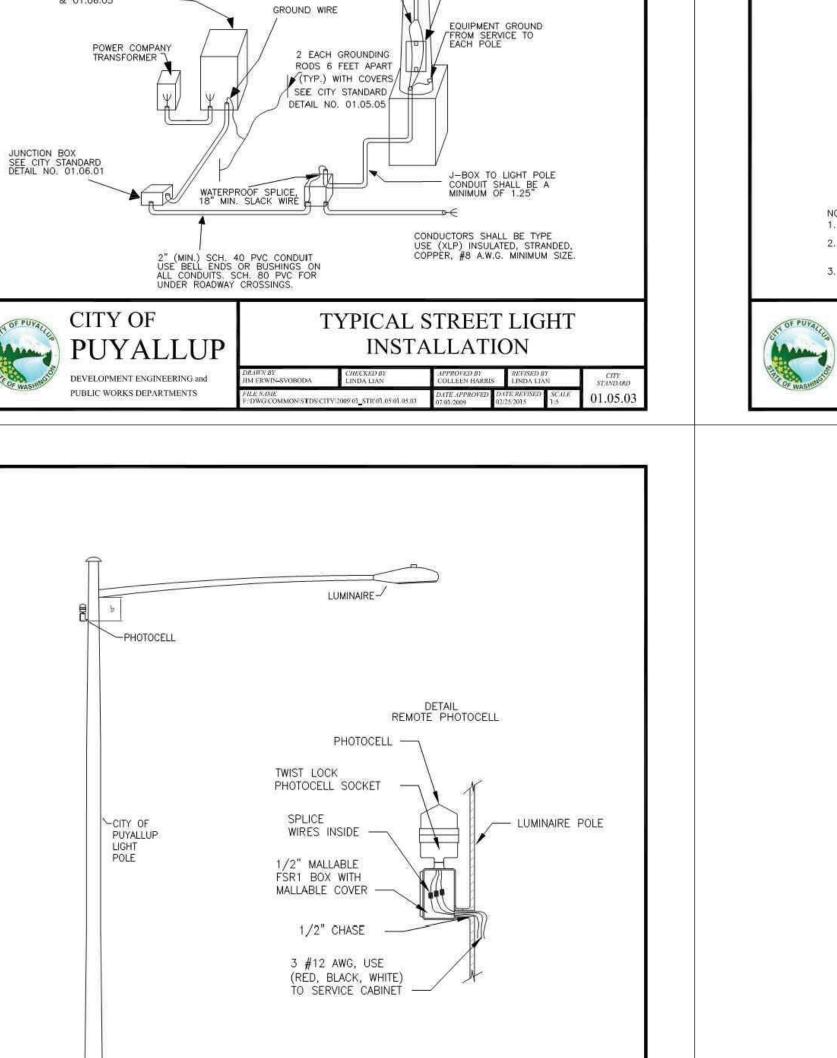


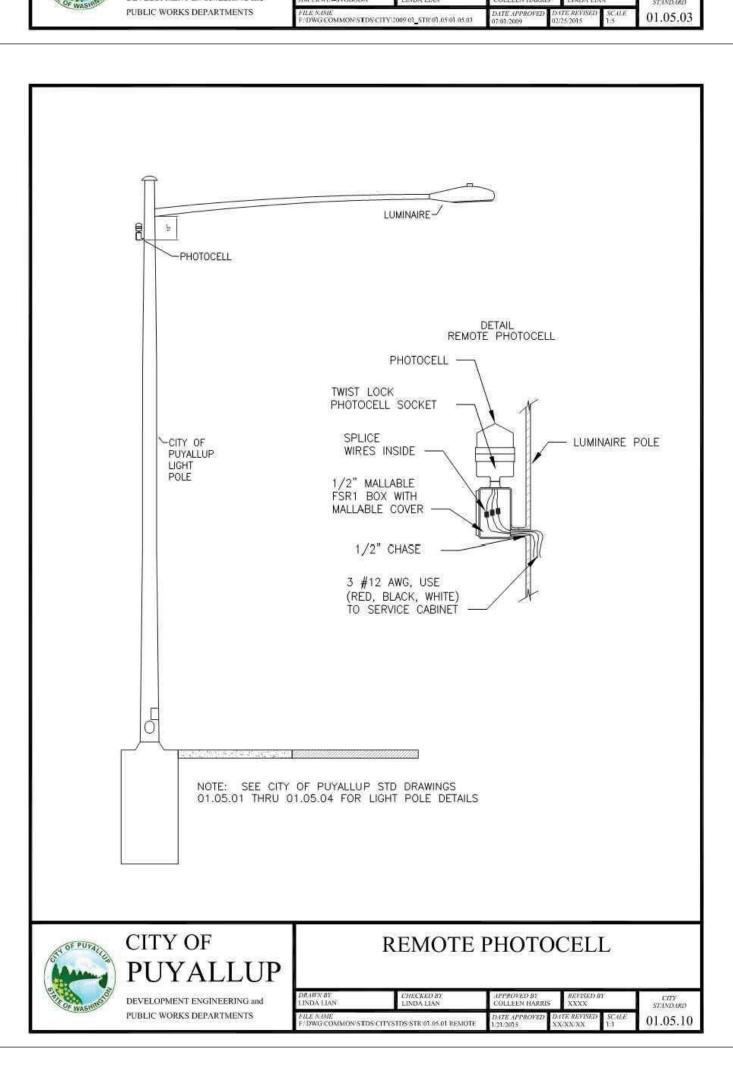
STREET LIGHT SPECIFICATIONS (CONT.)

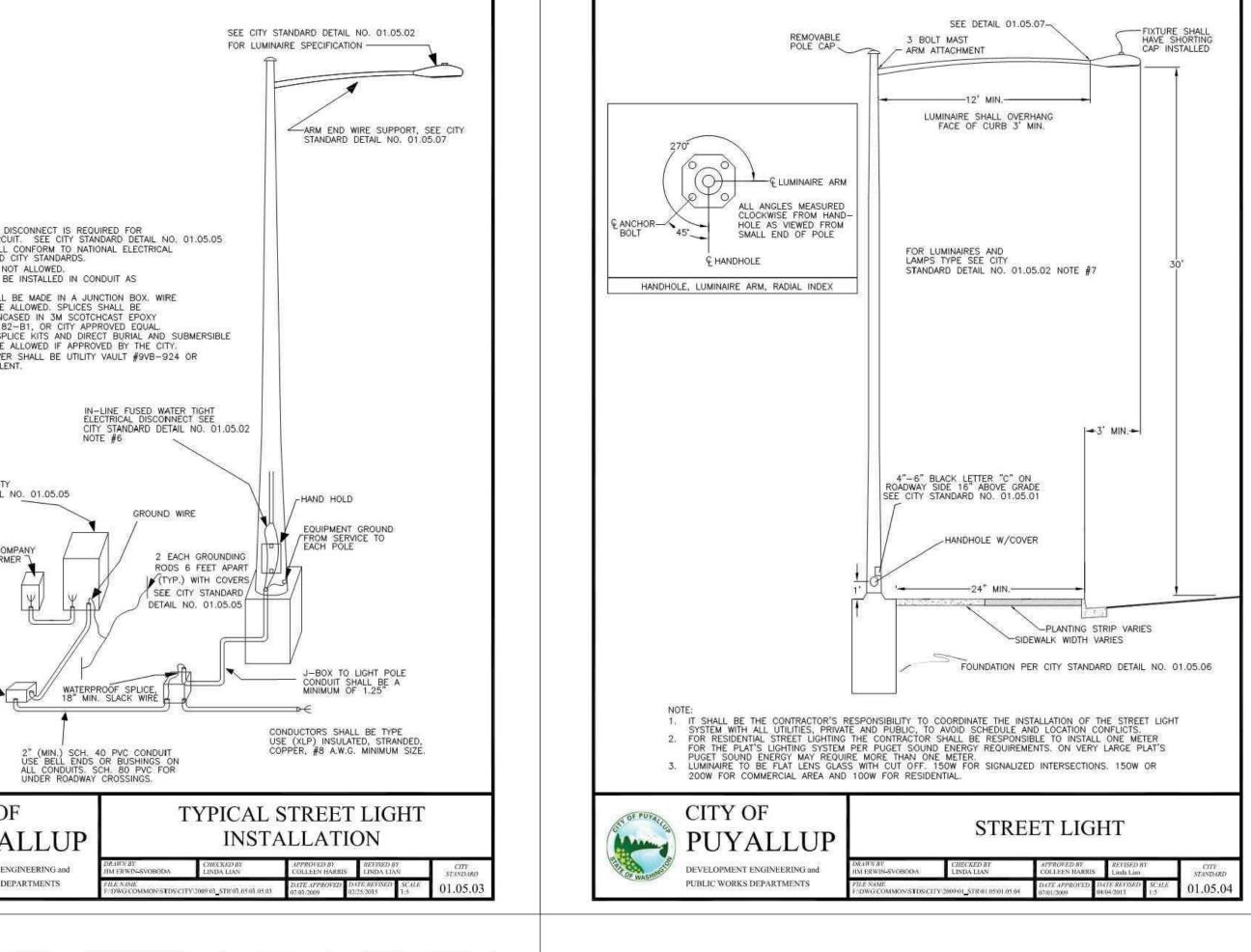
DEVELOPMENT ENGINEERING and

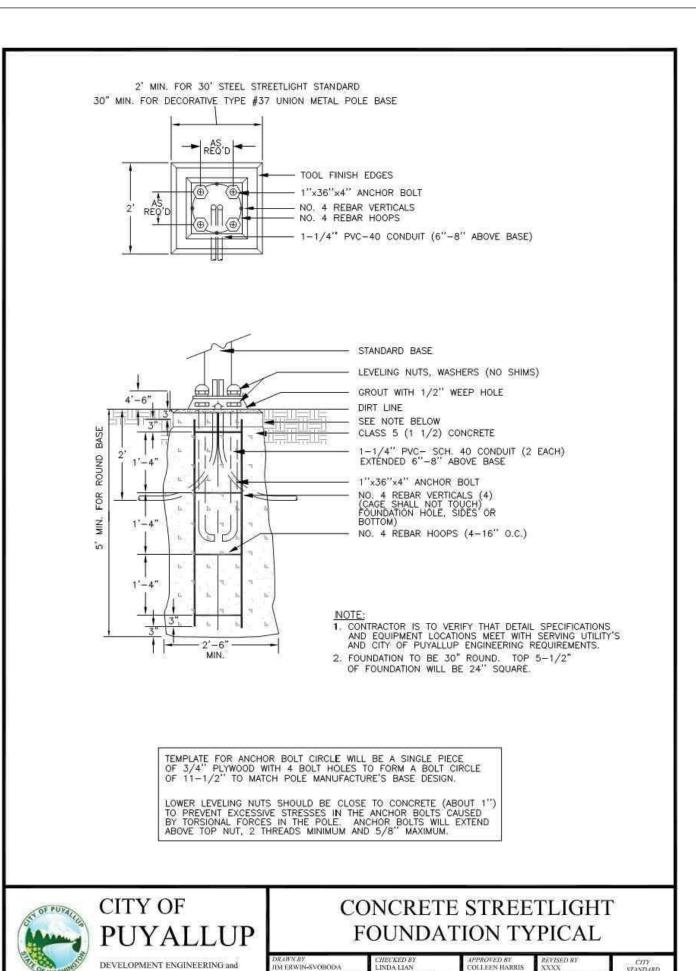
4#7/ BY	CHECKED BY AT		REVISED B		CITY	
ERWIN-SVOBODA	DDA LINDA LIAN CO		LINDA LIA		STANDARD	
E.NAME		DATE APPROVED	DATE REVISED	SCALE	01.05.02	
DWG/COMMON/STDS/CITY/2009/01_STR#1/05/01/05/02		07/01/2009	02/25/2015	1:1		

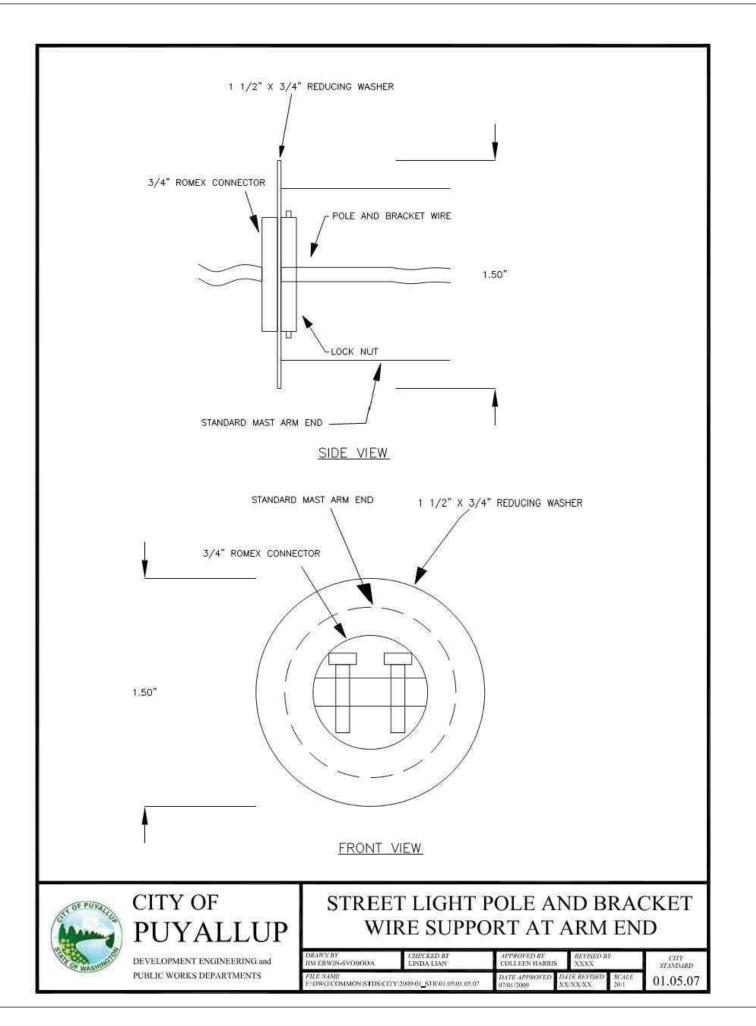














NOTE: THIS APPROVAL IS VOID AFTER I YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS

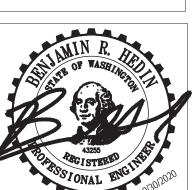
AS DETERMINED BY THE ENGINEERING

ENGINEERING SERVICES

CITY OF PUYALLUP

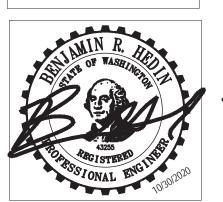
SERVICE MANAGER

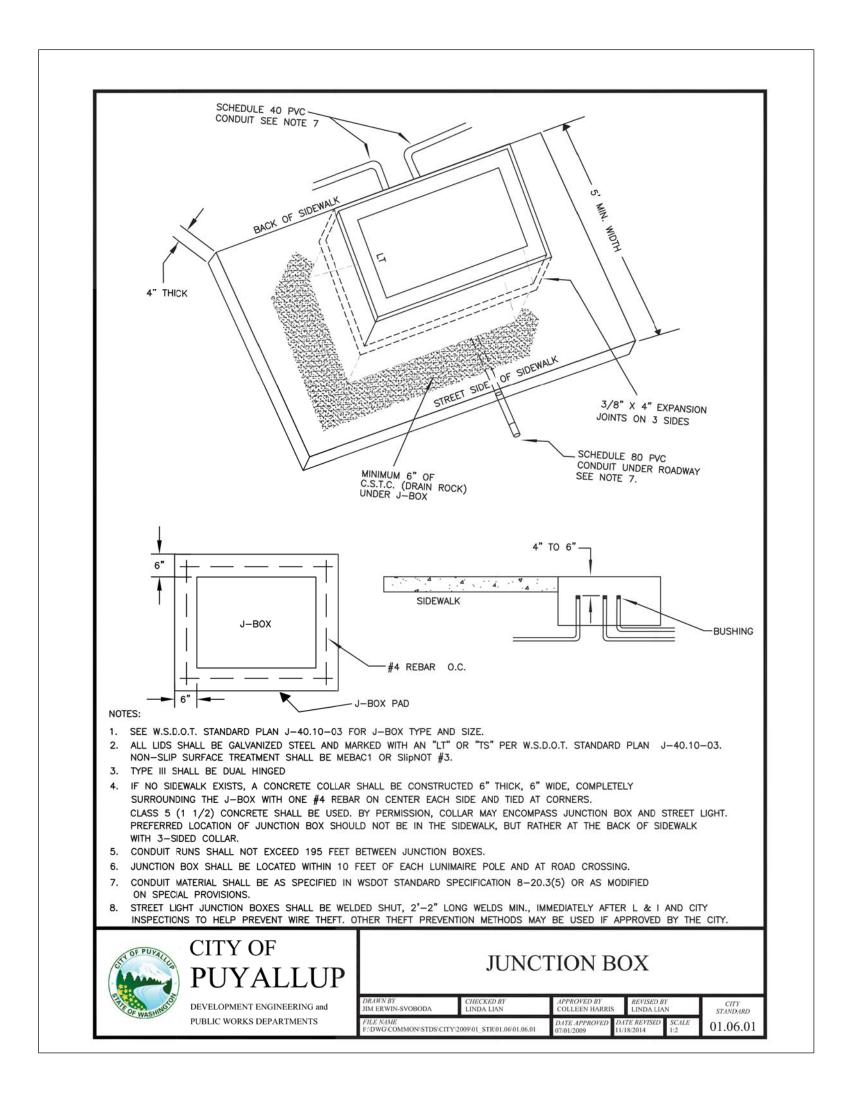
OCTOBER 30, 2020

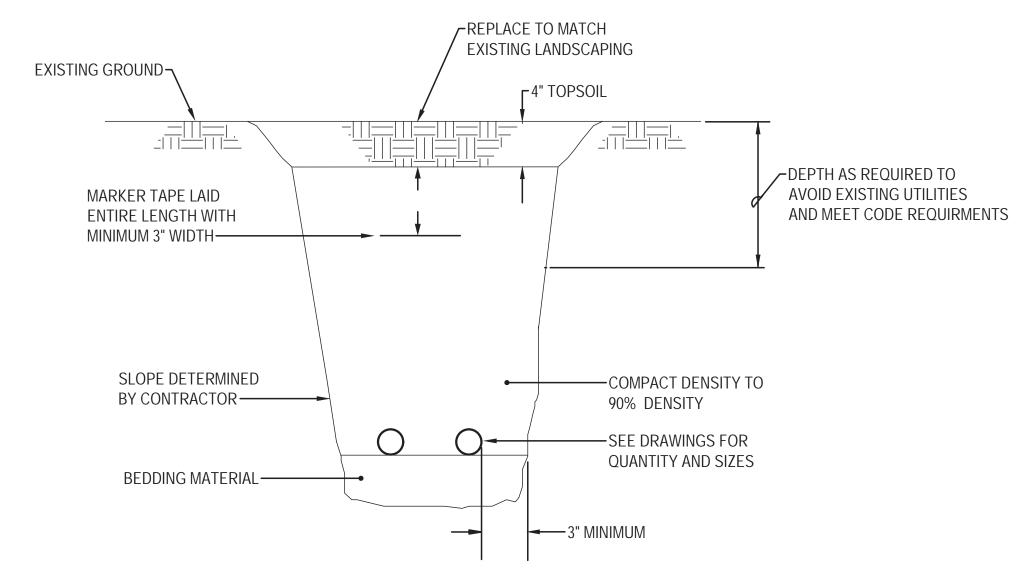




OCTOBER 30, 2020

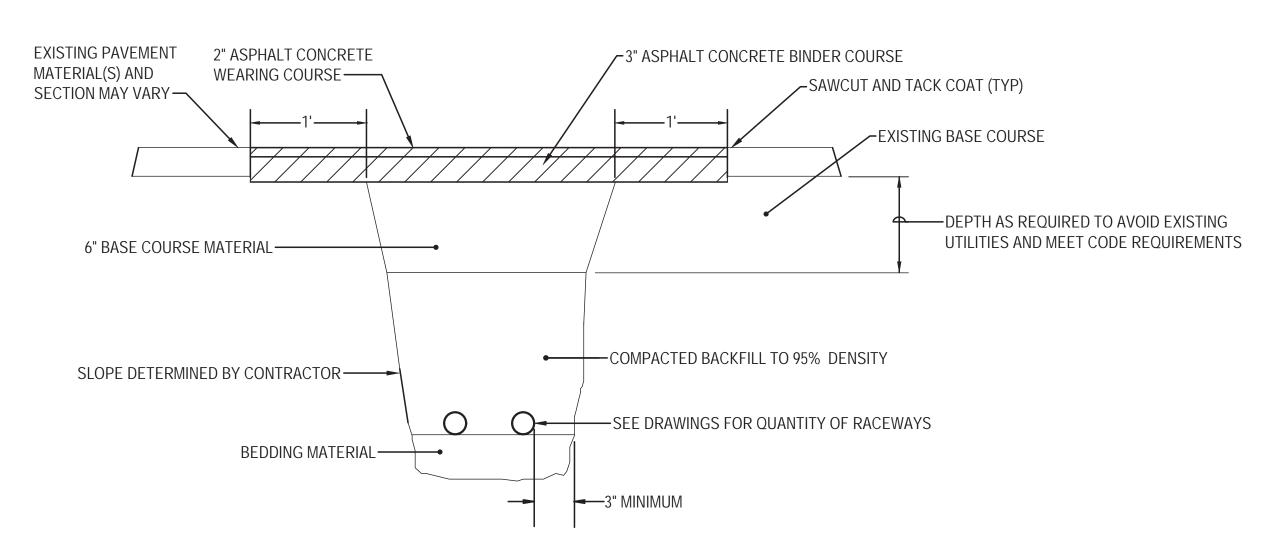






DIRECT BURY RACEWAY - GRASS/GRAVEL AREAS

SCALE: NTS



DIRECT BURY
RACEWAY - ASPHALT AREAS

SCALE: NTS

APPROVED

CITY OF PUYALLUP ENGINEERING SERVICES

NOTE: THIS APPROVAL IS VOID AFTER
I YEAR 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 ENGINEERING

SERVICE MANAGER

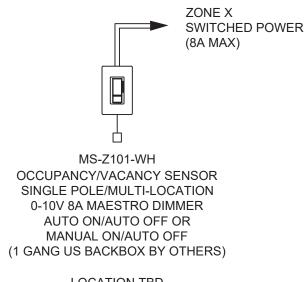
#### WIRING LEGEND:

- ☐ INPUT POWER (NORMAL)
- 2 #12AWG (4 mm<sup>2</sup>)
- O 3 #12AWG (4 mm<sup>2</sup>)
- ECOSYSTEM BUS/LOOP:
  LUTRON CABLE C-CBL-216-GR-1
  (2 #16 CONDUCTOR NON-PLENUM) OR
  C-PCBL-216-CL-1 (2 #16 CONDUCTOR
- PLENUM RATED). OTHERWISE USE 2 #16
- AWG (1.5 mm²) BY OTHERS.

  2 #18AWG (1.0 mm²)

• 0-10V SIGNAL: 2 #18AWG (1.0 mm<sup>2</sup>)

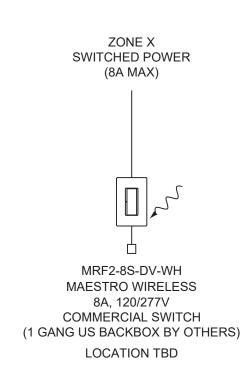
- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 4 #22 AWG (1.0 mm²)
- 2-WAY RF COMMUNICATION



LOCATION TBD

## ROOM TYPE 1 LIGHTING CONTROL DIAGRAM

SCALE: NTS



LRFx-OCR2B-P-WH
434MHZ WIRELESS
OCCUPANCY/VACANCY SENSOR
3.57"[90,7mm] (DIA) X 1.13"[28,7mm] (D)
MAX 10 PER QSM
\*DEVICE IS SURFACE-MOUNTED AND
BATTERY POWERED, DOES NOT
REQUIRE POWER FEED

LOCATION TBD

LOCATION TBD (OPTION:WITH L-CRMK-WH RECESS MOUNT KIT FOR NON-METALLIC CEILINGS)



#### **GENERAL NOTES**

- 1. SEE GENERAL NOTES ON SHEET E-002.
- 2. WIRING DIAGRAMS ARE REPRESENTATIVE IN NATURE AND ARE NOT INTENDED TO SHOW EVERY COMPONENT NECESSARY TO MAKE THE SYSTEM WORK. THE CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

#### COMMISSIONING REQUIREMENTS FOR THE LIGHTING CONTROL SYSTEM

TESTING SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEMS' RESPONSE OR ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS, AND ANY PERTINENT DISCUSSION SHALL BE FOLLOWED. AT A MINIMUM, TESTING SHALL AFFIRM OPERATION DURING NORMALLY OCCUPIED DAYLIGHT CONDITIONS. THE CONSTRUCTION DOCUMENTS SHALL STATE THE PARTY WHO WILL CONDUCT THE REQUIRED FUNCTIONAL TESTING.

FOR OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTO-SENSORS OR DAY-LIGHTING CONTROLS THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- 2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULES CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- 3. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTO-SENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

#### LIGHTING CONTROL SEQUENCE FOR COMMISSIONING

#### **GENERAL REQUIREMENTS**

- 1. VACANCY/OCCUPANCY SENSORS SHALL BE CONNECTED TOGETHER FOR CONTROL OF ALL LIGHTS IN THE ROOM. SET UP SENSORS AS INDICATED IN OCCUPANCY OR VACANCY MODE.
- 2. VACANCY MODE MANUAL ON, AUTO OFF VIA SENSOR, SET AT 30 MIN.
- 3. OCCUPANCY MODE AUTOMATIC ON TO 50%, AUTO OFF VIA SENSOR, SET AT 30 MIN.
- 4. ALL OCCUPANCY/VACANCY SENSORS SHALL BE DUAL TECHNOLOGY (I.E. INFRARED AND ULTRASONIC).
- 5. ALL LIGHTS WHERE INDICATED SHALL BE CONTROLLED VIA 0-10V DIMMING.
- 6. EMERGENCY LIGHTING RELAY REQUIRED FOR CONNECTION TO ANY DESIGNATED EMERGENCY LIGHT FIXTURES WITHIN EACH SPACE FOR AUTOMATIC OVERRIDE UPON A POWER FAILURE.

E-703

GRIMIT ARCHITECTURE
MICHAEL P. GRIMIT, ARCHITECT
516 WANA WANA PLACE NORTHEAS1
TACOMA, WA. 98422-1732

# OLSON BROTHERS PRO-VAC, LLC BUILDING REMODEL 2505, 2511, 2515 INTER AVENUE PUYALLUP, WA. 98373

LIGHTING CONTROL DIAGRAMS

OCTOBER 30, 2020

