

# City of Federal Way Public Works Department

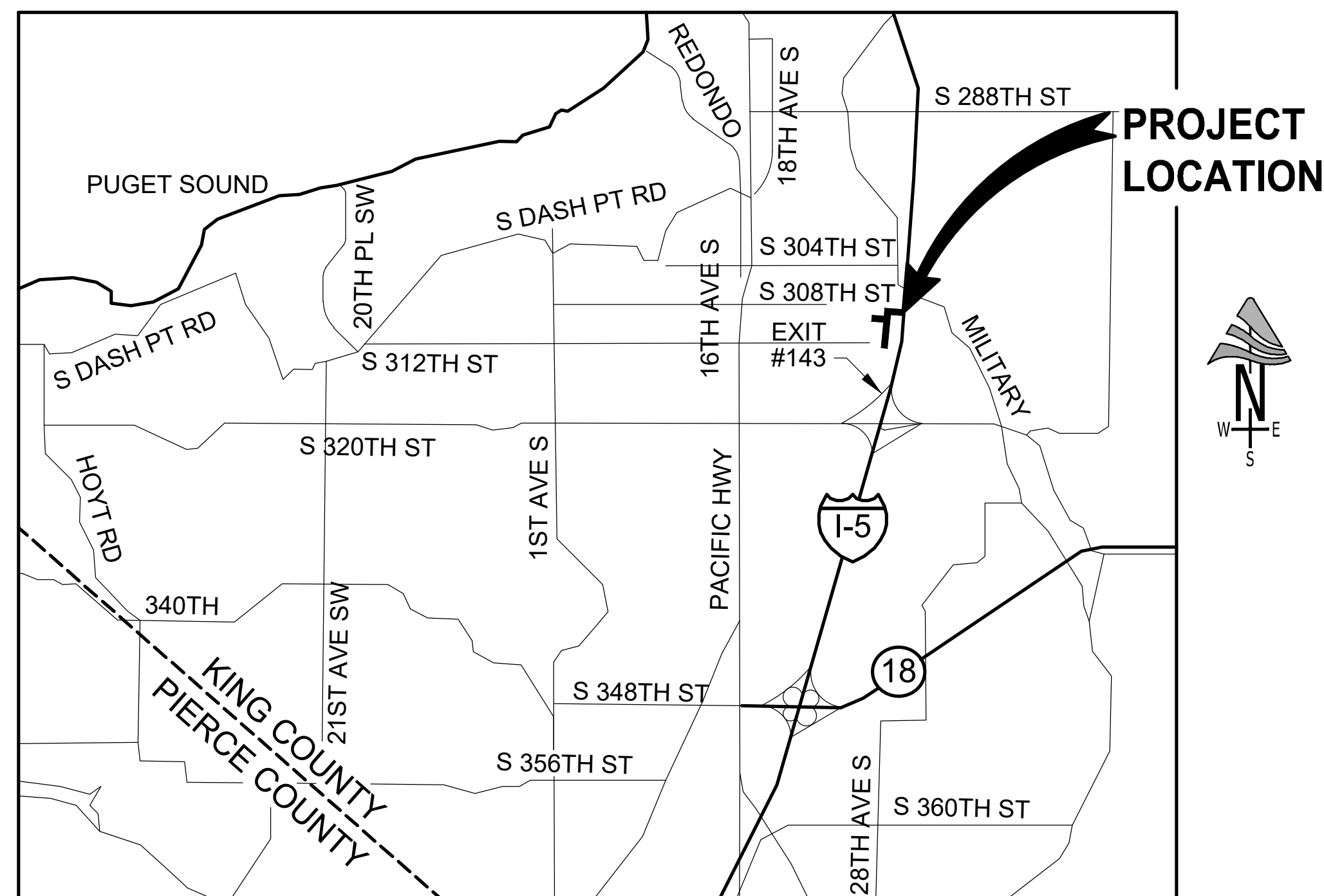
## JOINT OPERATIONS AND MAINTENANCE (O&M) FACILITY OFFSITE PLANS SCHEDULES B, B1, AND B2

MAY 14, 2024

PROJECT #36610

RFB #24-007

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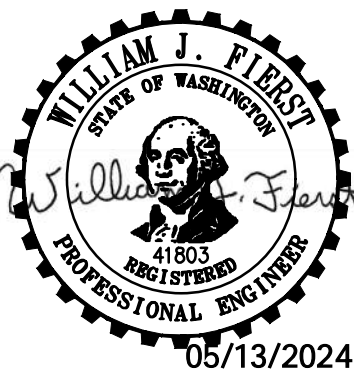
APPROVED FOR CONSTRUCTION

*Desiree S. Winkler* 5-13-24  
DESIREE S. WINKLER P.E. DATE  
 DEPUTY PUBLIC WORKS DIRECTOR

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DRAFTED: F. KATONA  
 DESIGNED: C. HOVDE  
 REVIEWED: A. BRAUN  
 APPROVED:



DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

JOINT O&M FACILITY OFFSITE PLANS

COVER SHEET & INDEX

CITY PROJECT #:  
#36610

SHT. 01  
OF 40

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# LEGEND

## EXISTING LEGEND

	SET NAIL AND WASHER
	FOUND MONUMENT AS NOTED
	HUB AND TACK
	SET REBAR AND CAP
	BOLLARD
	MAIL BOX
	SIGN
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	STORM CATCH BASIN
	STORM MANHOLE
	ROOF DRAIN
	GAS METER
	GAS VALVE
	TRAFFIC SIGNAL POLE
	TRAFFIC CABINET
	POWER TRANSFORMER
	GUY ANCHOR
	UTILITY POWER POLE
	ELECTRICAL VAULT
	JUNCTION BOX
	POWER METER
	LUMINAIRE
	TELEPHONE RISER
	TELEPHONE VAULT
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	IRRIGATION CONTROL VALVE
	HOSE BIB
	WATER METER
	WATER VALVE
	WATER VAULT
	A=APPLE, B=BIRCH, F=FIR, P=PINE, HA=HAWTHORNE
	HO=HOLLY, M=MAPLE, O=OAK, U= UNKNOWN
	--- D --- STORM LINE
	--- S --- SANITARY SEWER LINE
	--- G --- GAS LINE
	--- P --- ELECTRICAL LINE
	--- T --- COMMUNICATIONS LINE
	--- W --- WATER LINE
	--- IR --- IRRIGATION PER RECORD DRAWING
	--- OHP --- OVERHEAD UTILITIES
	--- --- STEAM LINE
	--- X --- FENCE
	CONCRETE
	ASPHALT
	--- XXX --- CONTOUR MAJOR INTERVAL
	--- XXX --- CONTOUR MINOR INTERVAL
	--- --- PROPERTY / RIGHT-OF-WAY LINE

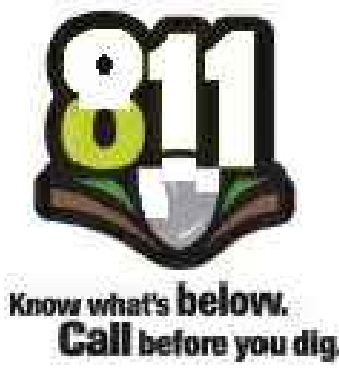
## PROPOSED LEGEND

	SET NAIL AND WASHER		GB	GRADE BREAK
	FOUND MONUMENT AS NOTED		RD	ROOF DRAIN LINE
	HUB AND TACK		FD	FOOTING DRAIN LINE
	SET REBAR AND CAP		S	SANITARY SEWER LINE
	BOLLARD		G	GAS LINE
	MAIL BOX		P	ELECTRICAL LINE
	SIGN		T	COMMUNICATIONS LINE
	SANITARY SEWER MANHOLE		W	WATER LINE
	SANITARY SEWER CLEANOUT		I	IRRIGATION PER RECORD DRAWING
	STORM CATCH BASIN		F	FIRE SERVICE LINE
	STORM MANHOLE		V	STEAM LINE
	ROOF DOWNSPOUT		X	FENCE
	GAS METER			CONCRETE
	GAS VALVE			ASPHALT
	UTILITY POLE		XXX	CONTOUR MAJOR INTERVAL
	UTILITY POLE ANCHOR		XXX	CONTOUR MINOR INTERVAL
	PAD MOUNTED TRANSFORMER			
	POWER VAULT			
	CAP / PLUG			
	COUPLING			
	REDUCER			
	THRUST BLOCKING			
	ADAPTER, FL x MJ			
	90° BEND FL			
	45° BEND FL			
	22.5° BEND FL			
	11.25° BEND FL			
	90° BEND MJ			
	45° BEND MJ			
	22.5° BEND MJ			
	11.25° BEND MJ			
	VERTICAL BEND FL			
	VERTICAL BEND MJ			
	REDUCER FL			
	REDUCER MJ			
	REDUCER MJ x FL			
	REDUCER MJ x PE			
	REDUCER MJ x FL			
	TAPPING TEE AND VALVE FL x MJ			
	TEE FL			
	TEE MJ			
	TEE MJ x FL			
	BUTTERFLY VALVE FL x MJ			
	BUTTERFLY VALVE MJ			
	GATE VALVE MJ x FL			
	GATE VALVE MJ			
	CHECK VALVE			
	AIR RELIEF			
	BLOW-OFF			
	FIRE DEPARTMENT CONNECTION			
	FIRE HYDRANT			
	IRRIGATION CONTROL VALVE			
	WATER METER			
	LIGHT STANDARD AND LUMINAIRE			
	TYPE 2 JUNCTION BOX			
	SERVICE CABINET			

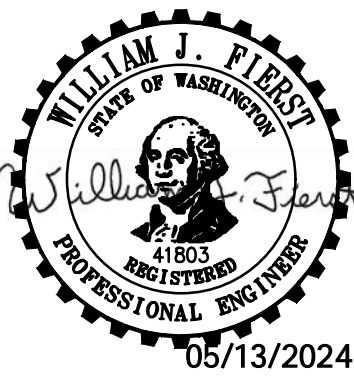
# ABBREVIATIONS

ABAN	ABANDONED	MOD	MODIFIED
ACP	ASPHALT CONCRETE PAVEMENT	MTG	MOUNTING
AD	AREA DRAIN	N	NORTH
APROX	APPROXIMATELY	NE	NORTHEAST
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NTS	NOT TO SCALE
ASPH	ASPHALT	NW	NORTHWEST
@	AT	O.C.	ON CENTER
AVE	AVENUE	OD	OUTSIDE DIAMETER
AWWA	AMERICAN WATER WORKS ASSOCIATION	OH	OVERHEAD
BFS	BEGIN FULL SUPERELEVATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH MINISTRATION
BLRD	BOLLARD	PC	POINT OF CURVATURE
BLVD	BOULEVARD	PCC	POINT OF COMPOUND CURVATURE
BMP	BEST MANAGEMENT PRACTICES	PI	POINT OF HORIZONTAL INTERSECTION
BOT	BOTTOM	PIV	POST INDICATOR VALVE
BP	BEGIN POINT	POC	POINT ON CURVE
BVC	BEGIN VERTICAL CURVE	PROP	PROPOSED
BVCE	BEGIN VERTICAL CURVE ELEVATION	PSE	PUGET SOUND ENERGY
BVCS	BEGIN VERTICAL CURVE STATION	PSF	POUNDS PER SQUARE FOOT
BW	BOTTOM OF WALL	PSI	POUNDS PER SQUARE INCH
CB	CATCH BASIN	PT	POINT OR POINT OF TANGENCY
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE PIPE
CDF	CONTROLLED DENSITY FILL	PVI	POINT OF VERTICAL INTERSECTION
CESCL	CERTIFIED EROSION AND SEDIMENT CONTROL LEAD	R	RADIUS OR RANGE
CFS	CUBIC FEET PER SECOND	RC	REVERSE CROWN
CL	CENTERLINE OR CLASS	RCP	REINFORCED CONCRETE PIPE
CLR	CLEAR	RDCO	ROOF DRAIN CLEANOUT
CM	CENTIMETER	RIT	RAISED INTERSECTION TRANSITION
CMP	CORRUGATED METAL PIPE	R/W	RIGHT-OF-WAY
CO	CLEAN OUT	ROW	RIGHT-OF-WAY
COMM	COMMUNICATION	RT	RIGHT
CONC	CONCRETE	S	SOUTH
CORR	CORRUGATED	SL	SLOPE
CPEP	CORRUGATED POLYETHYLENE PIPE	SE	SOUTHEAST
CSBC	CRUSHED SURFACING BASE COURSE	SEC	SECTION
CSTC	CRUSHED SURFACING TOP COURSE	SHLDR	SHOULDER
CTR	CENTER	SPEC	SPECIFICATION
CY	CUBIC YARDS	SS	SANITARY SEWER
DI	DUCTILE IRON	SSMH	SANITARY SEWER MANHOLE
Ø	DIAMETER	SD	STORM DRAIN
DIP	DUCTILE IRON PIPE	SDCB	STORM DRAIN CATCH BASIN
DIV	DIVISION	SF	SQUARE FOOT
DR	DRIVE	SE	STRUCTURE EARTH
DROP	DROP INLET	SF	SILT FENCE
DWY	DRIVEWAY	SL	SAWCUT LINE
DWG	DRAWING	ST	STREET
E	EAST	STA	STATION
EFS	END FULL SUPERELEVATION	STM	STORM DRAIN LINE
EL	ELEVATION	STD	STANDARD
ELEV	ELEVATION	SW	SOUTHWEST
EOP	EDGE OF PAVEMENT	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
ENC	END NORMAL CROWN	SYM	SYMMETRICAL
EP	END POINT	TELE	TELEPHONE
EVCE	END VERTICAL CURVE ELEVATION	T	TOWNSHIP OR TANGENT LENGTH
EVCS	END VERTICAL CURVE STATION	TESC	TEMPORARY EROSION & SEDIMENT CONTROL
EVC	END VERTICAL CURVE	THK	THICK
EX	EXISTING	TRANS	TRANSFORMER
EXIST	EXISTING	TS	TOP OF SLAB
EXP	EXPANSION	TV	TELEVISION
FDC	FIRE DEPARTMENT CONNECTION	TW	TOP OF WALL
F/C	FACE OF CURB	TYP	TYPICAL
FG	FINISH GRADE	UC	UNDERGROUND COMM
FL	FLANGE	UTC	UNDERGROUND TELECOMMUNICATION CONDUIT
FM	FORCE MAIN	UG	UNDERGROUND
FT	FOOT OR FEET	US	UNITED STATES
GV	GATE VALVE	UV	UTILITY VAULT COMPANY
GRAV	GRAVEL	VAP	VERTICAL ANGLE POINT
H	HEIGHT	VC	VERTICAL CURVE
H	HORIZONTAL	V	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE PIPE	VERT	VERTICAL
HMA	HOT MIX ASPHALT	W	WEST
HORIZ	HORIZONTAL	W/	WITH
ID	INSIDE DIAMETER	WA	WASHINGTON
IE	INVERT ELEVATION	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
IN	INCH(ES)	WM	WILLAMETTE MERIDIAN
INV	INVERT ELEVATION	WP	WORK POINT
INTX	INTERSECTION	WQ	WATER QUALITY
L	LENGTH	WS	WATER SURFACE
LBS	POUNDS	WSDOE	WASHINGTON STATE DEPARTMENT OF ECOLOGY
LC	LEVEL CROWN	WSE	WATER SURFACE ELEVATION
LF	LINEAR FEET	WF	WATER FITTING
LN	LANE		
LT	LEFT		
LUM	LUMINAIRE		
LVC	LENGTH OF VERTICAL CURVE		
LWSD	LAKEHAVEN WATER AND SEWER DISTRICT		
MH	MANHOLE		
MAX	MAXIMUM		
MID	MIDDLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MJ	MECHANICAL JOINT		

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DRAFTED: F. KATONA  
DESIGNED: C. HOVDE  
REVIEWED: W. FIERST  
APPROVED:



### DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

## JOINT O&M FACILITY OFFSITE PLANS

### LEGENDS & ABBREVIATIONS

CITY PROJECT #:  
#36610

SHT. 02  
OF 40

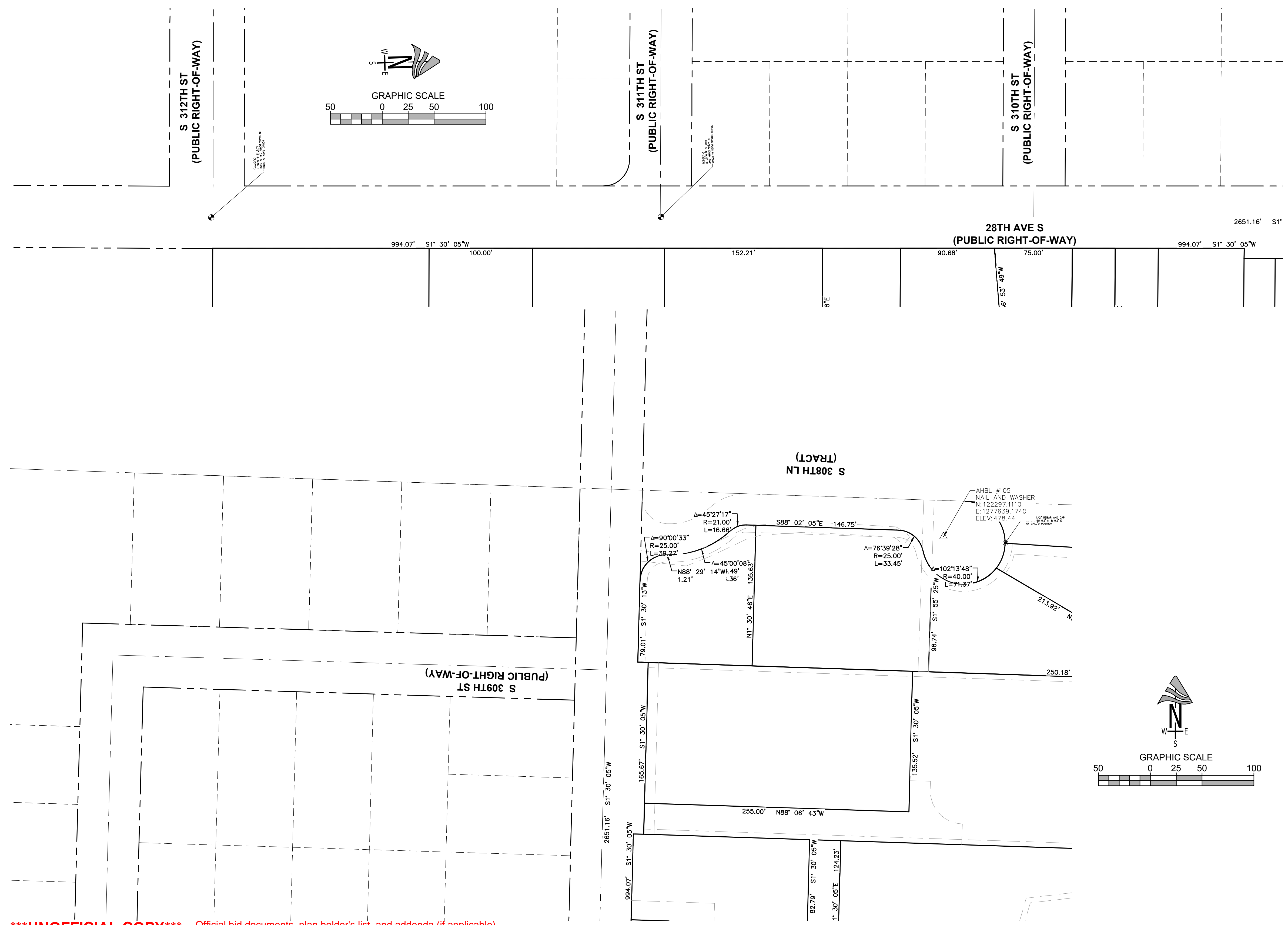


**VERTICAL DATUM**

NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17  
 BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S.  
 N121113.51  
 E1274001.90  
 EL= 474.06'

**BASIS OF BEARING**

NAD 1983/11 WASHINGTON STATE PLANE NORTH PROJECTION, BASED ON GPS OBSERVATIONS USING WSRN AND GEOID 2012A. UNITS OF MEASUREMENT ARE US SURVEY FEET.

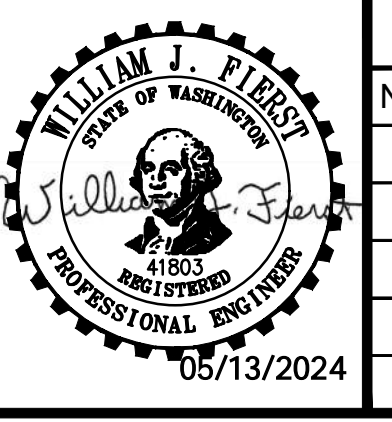


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 Centered on Opportunity  
 33325 8TH AVE S FEDERAL WAY, WA 98003  
 PHONE: (253) 835-2700  
 WWW.CITYOFFEDERALWAY.COM



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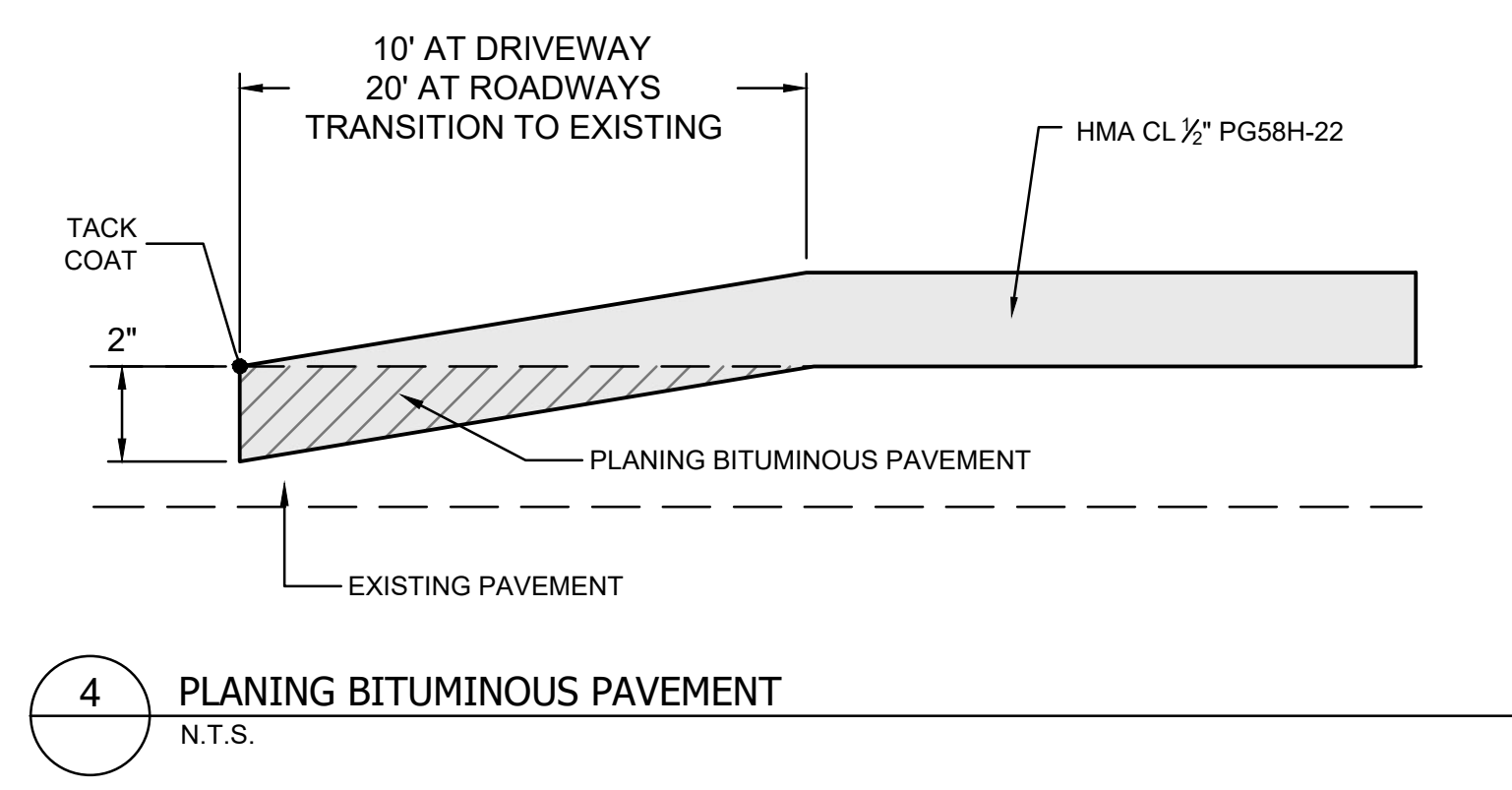
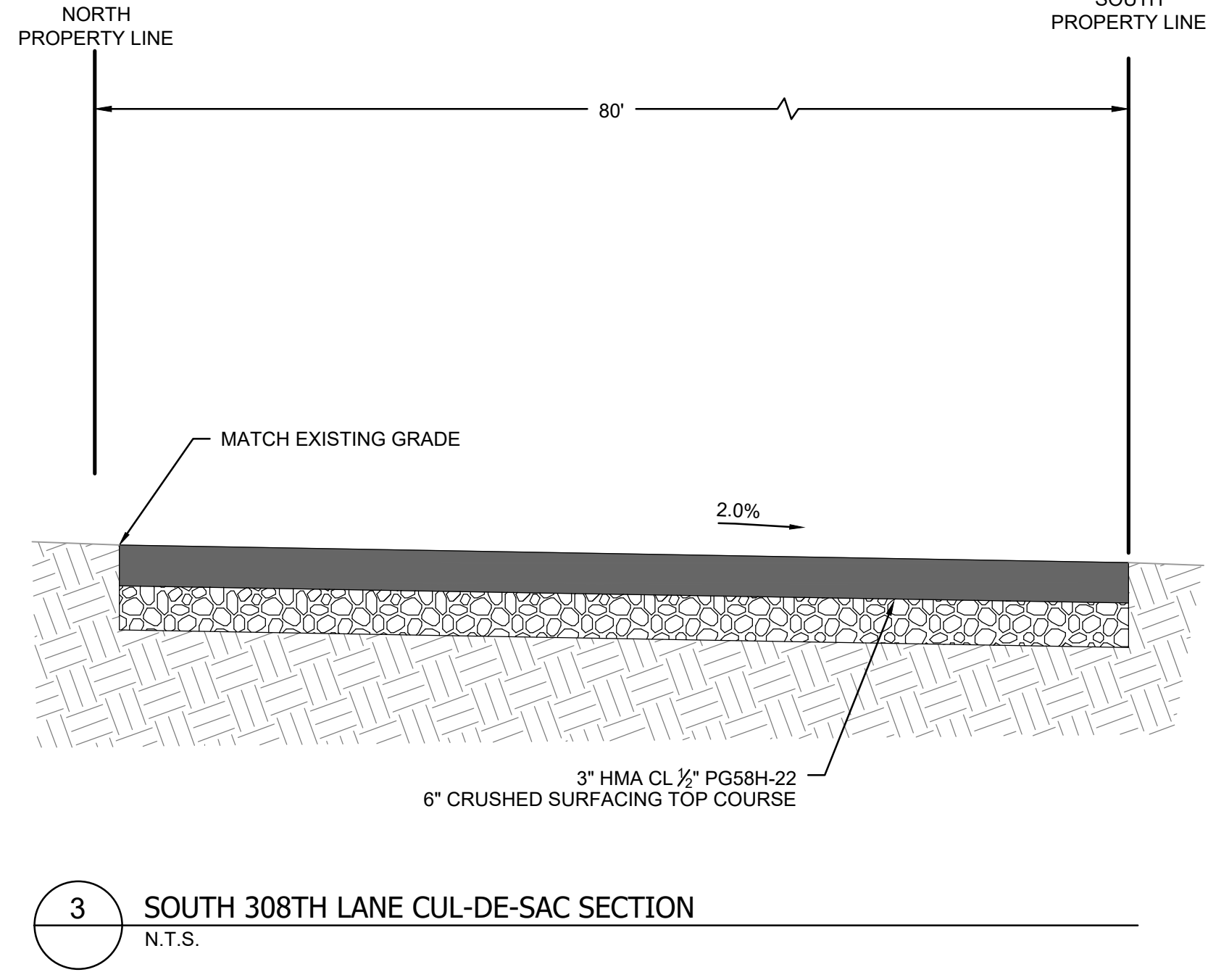
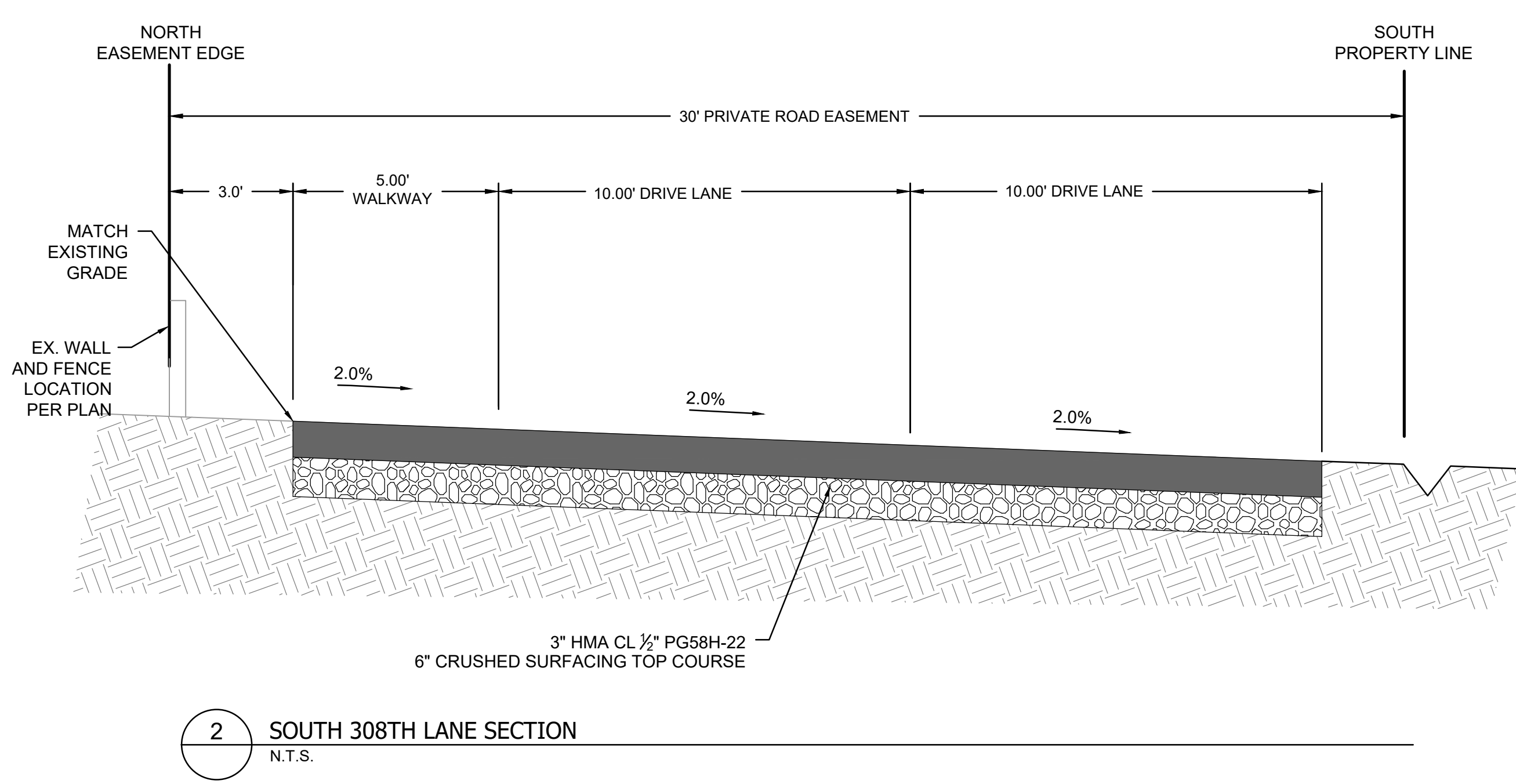
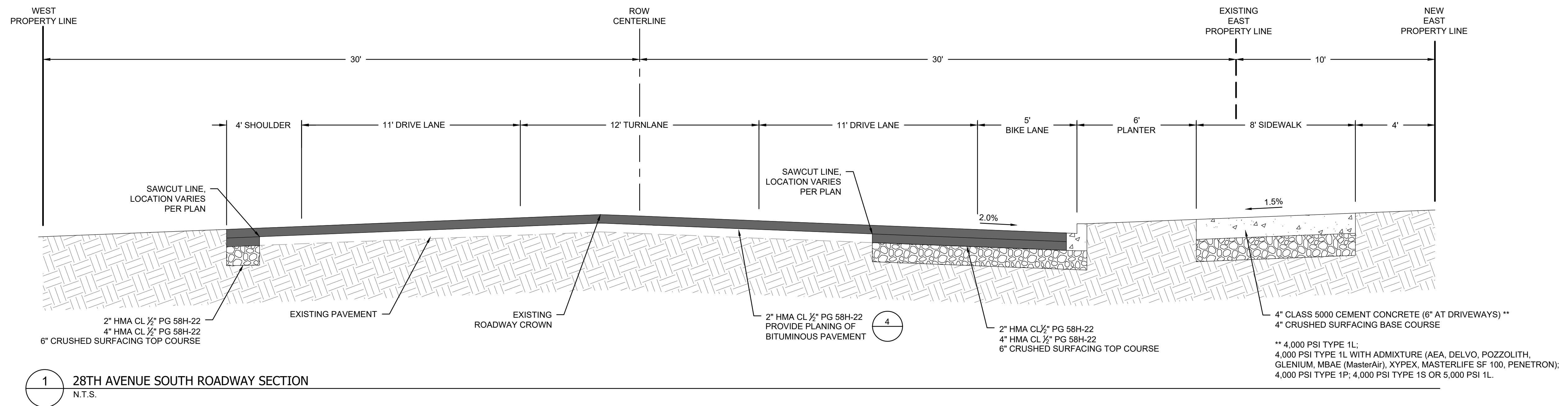


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**JOINT O&M FACILITY OFFSITE PLANS**  
**SURVEY PLAN**

CITY PROJECT #:  
**#36610**  
 SHT. 03  
 OF 40

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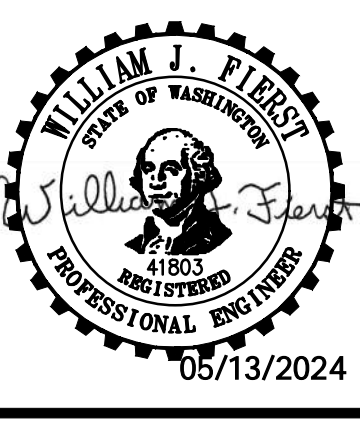


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**JOINT O&M FACILITY OFFSITE PLANS**

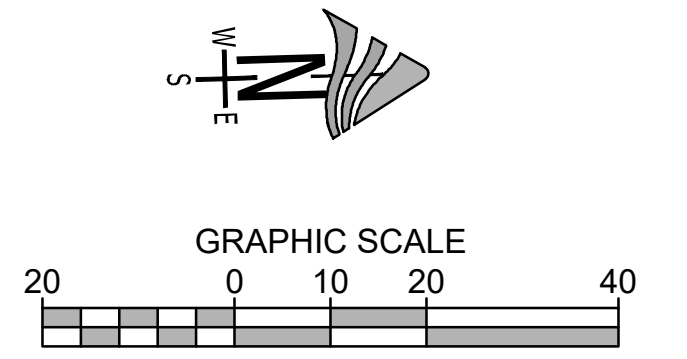
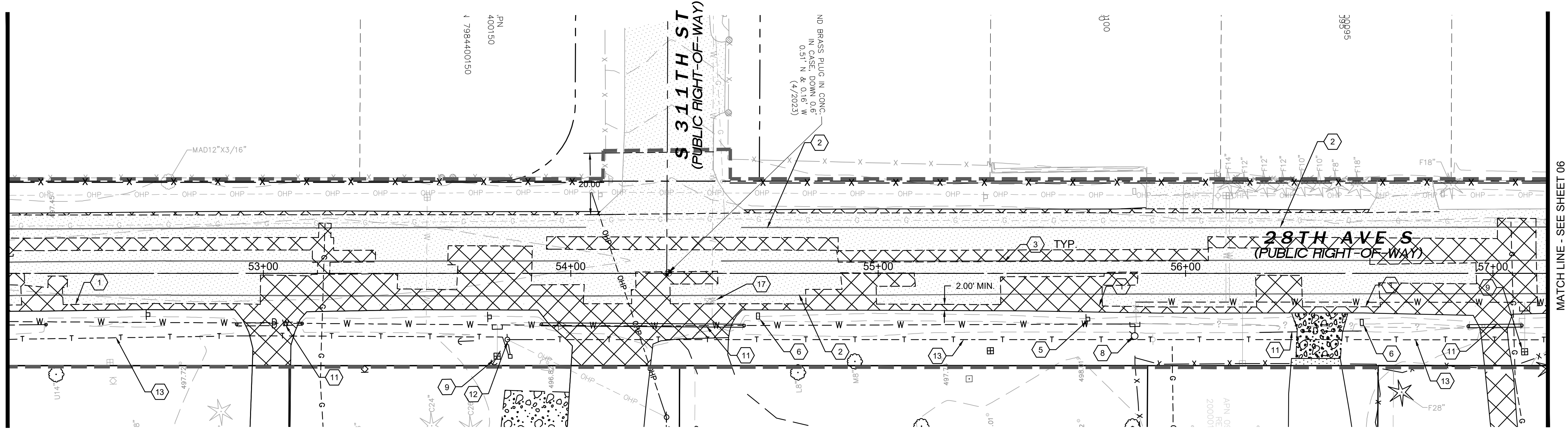
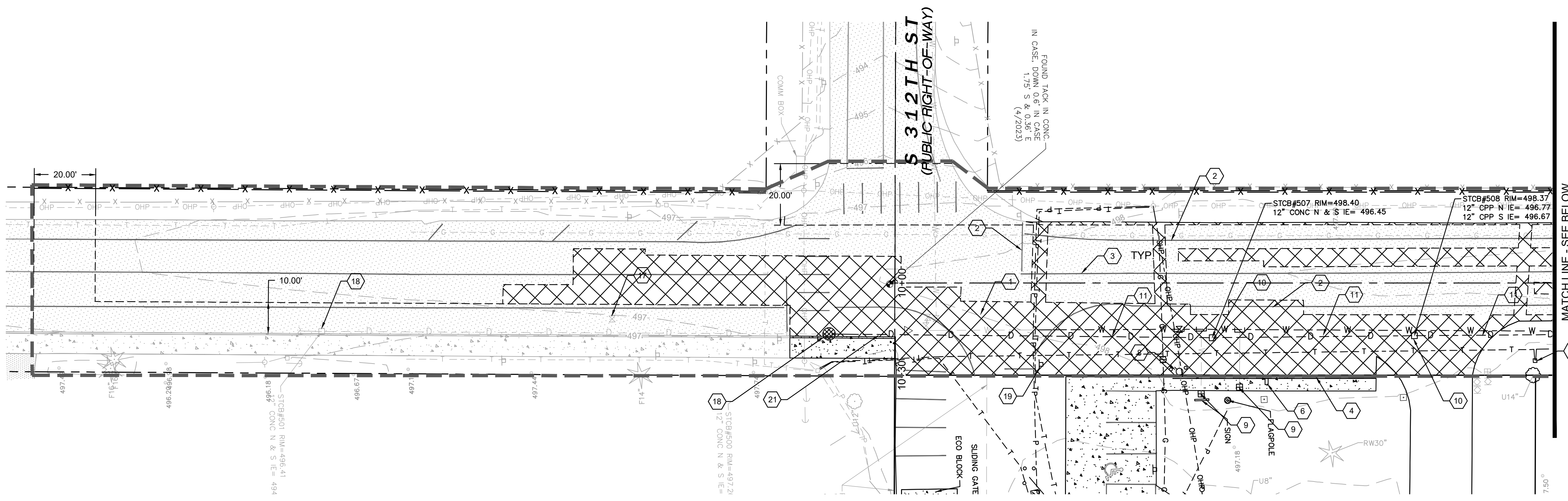
**ROADWAY SECTIONS**  
**28TH AVENUE S & S 308TH LANE**

CITY PROJECT #:  
**#36610**

SHT. **04**  
OF **40**

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**LEGEND:**

- INLET PROTECTION
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- PLANING BITUMINUS PAVEMENT
- REMOVE EXISTING GRAVEL
- CLEARING/PROJECT LIMITS
- SAWCUT LINE
- HIGH VISIBILITY SILT FENCE
- TREE PROTECTION FENCE
- TREES TO BE REMOVED
- TREES TO REMAIN
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS

**CONSTRUCTION NOTES**

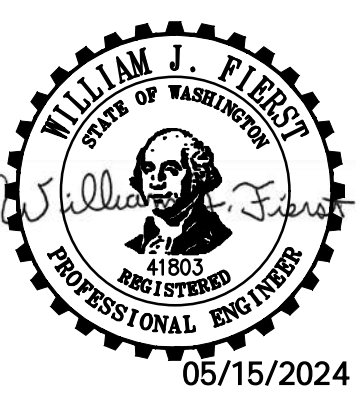
- 1 SAWCUT PAVEMENT
- 2 REMOVE PAINT LINE
- 3 REMOVE RAISED PAVEMENT MARKER
- 4 REMOVE CURB
- 5 REMOVE SIGN
- 6 REMOVE MAILBOX
- 7 REMOVE BOLLARD
- 8 REMOVE FIRE HYDRANT
- 9 REMOVE WATER METER AND SERVICE, CAP AT MAIN. SEE WATER PLANS.
- 10 REMOVE CATCH BASIN
- 11 REMOVE DRAINAGE PIPE
- 12 COORDINATE REMOVAL OF TELECOMMUNICATION AND POWER POLE. ALL CONNECTED POWER AND COMMUNICATION WIRES, AND GUY WIRES WITH UTILITY COMPANIES.
- 13 COORDINATE REMOVAL OF TELECOMMUNICATIONS POLES PEDESTAL AND ALL CONNECTED WIRES WITH UTILITY COMPANIES.
- 14 COORDINATE RELOCATION OF POWER OR COMMUNICATION VAULT AND ALL CONNECTED WIRES WITH UTILITY COMPANIES.
- 15 COORDINATE RELOCATION OF POWER AND COMMUNICATIONS CONDUIT WITH UTILITY COMPANIES.
- 16 PROTECT MONUMENT
- 17 ADJUST WATER VALVE TO GRADE
- 18 PROTECT CATCH BASIN
- 19 RELOCATE SIGN
- 20 PROTECT METER
- 21 REMOVE DRAINAGE PIPE TO THE NORTH, GROUT THE REMAINING HOLE AT THE CATCH BASIN.

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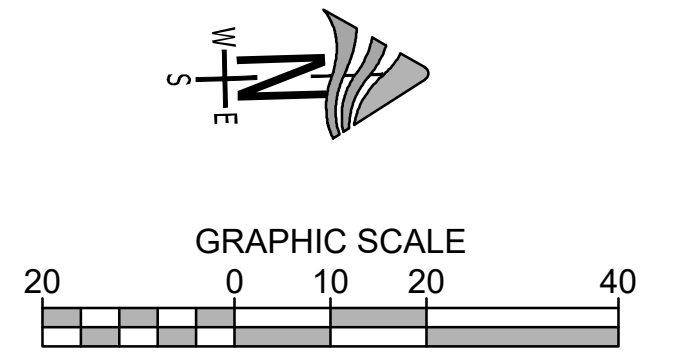
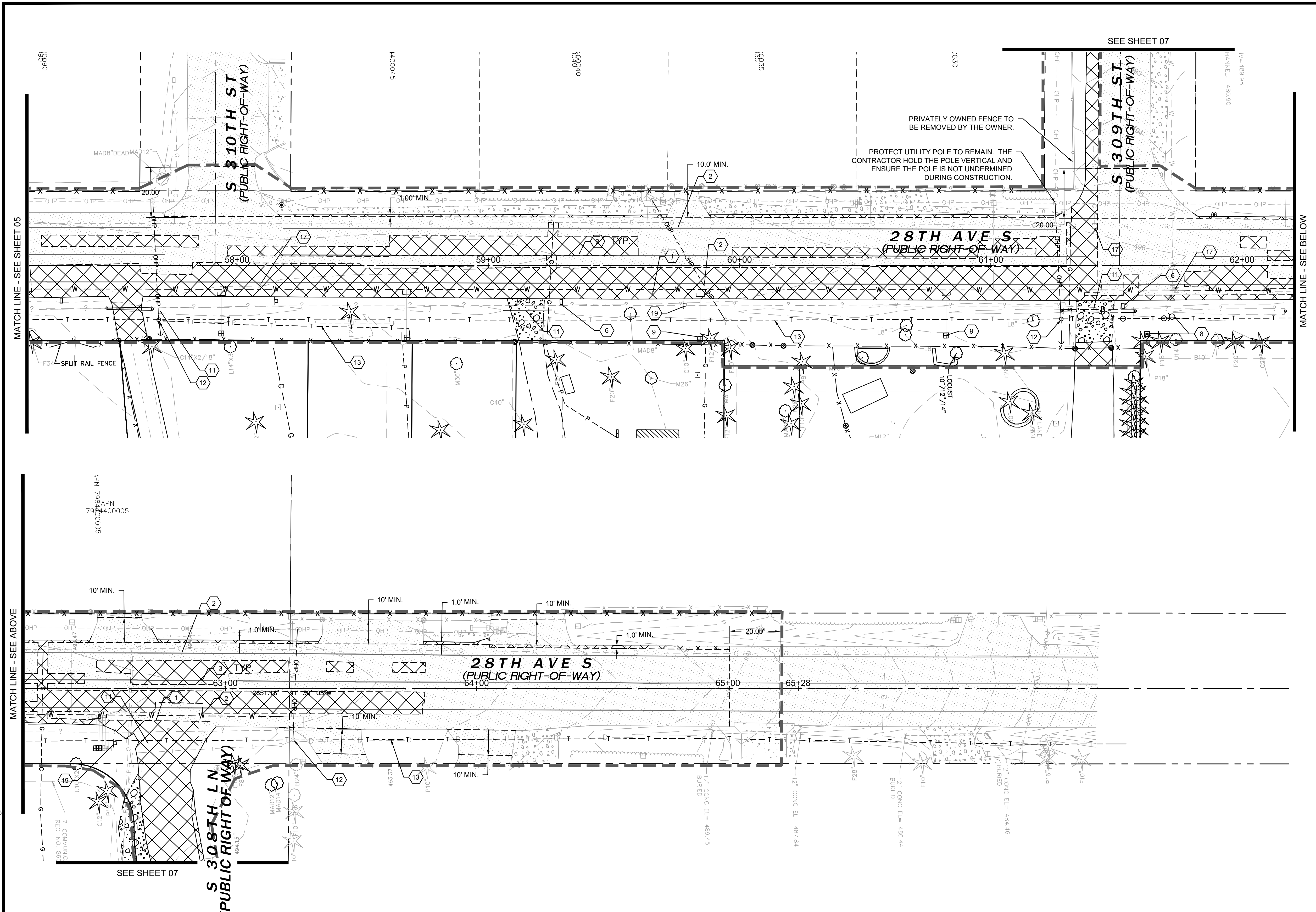
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NO.	DATE	REVISION

**JOINT O&M FACILITY OFFSITE PLANS**  
**28TH AVE S TESC & DEMOLITION PLAN**  
 STA 49+00 TO STA 59+00

CITY PROJECT #:  
**#36610**  
 SHT. **05**  
 OF **40**

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- LEGEND:**
- INLET PROTECTION
  - REMOVE EXISTING CONCRETE
  - REMOVE EXISTING ASPHALT
  - PLANING BITUMINUS PAVEMENT
  - REMOVE EXISTING GRAVEL
  - CLEARING/PROJECT LIMITS
  - SAWCUT LINE
  - HIGH VISIBILITY SILT FENCE
  - TREE PROTECTION FENCE
  - TREES TO BE REMOVED
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  - EXISTING MAJOR CONTOURS
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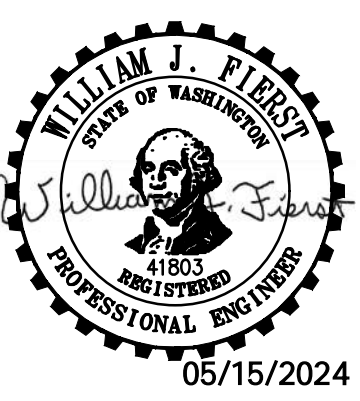
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- 1 SAWCUT PAVEMENT
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  - 6 REMOVE MAILBOX
  - 7 REMOVE BOLLARD
  - 8 REMOVE FIRE HYDRANT
  - 9 REMOVE WATER METER AND SERVICE, CAP AT MAIN. SEE WATER PLANS.
  - 10 REMOVE CATCH BASIN
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  - 21 REMOVE DRAINAGE PIPE TO THE NORTH, GROUT THE REMAINING HOLE AT THE CATCH BASIN.

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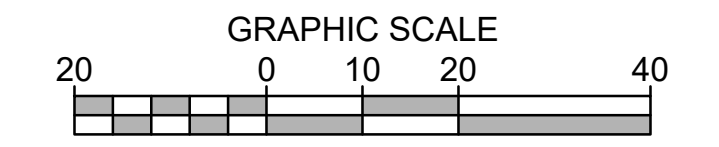
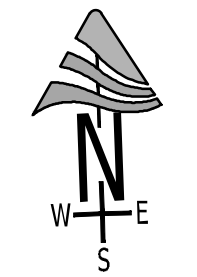
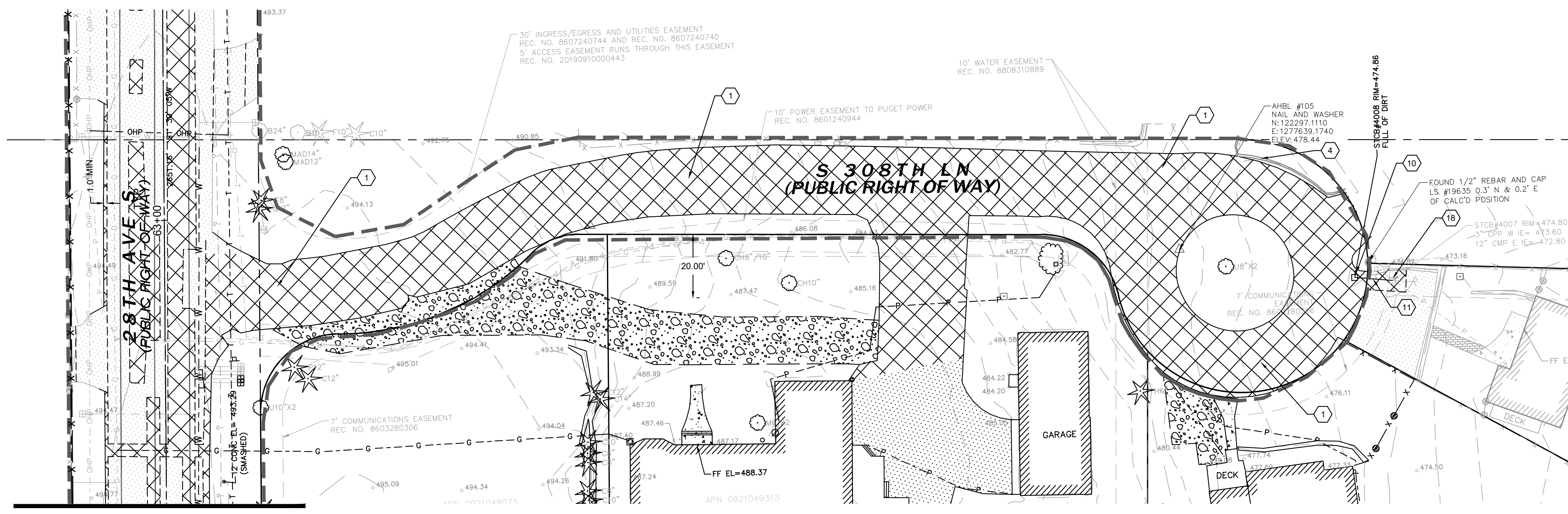
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**JOINT O&M FACILITY OFFSITE PLANS**  
**28TH AVE S TESC & DEMOLITION PLAN**  
 STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**  
 SHT. **06**  
 OF **40**

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**LEGEND:**

- INLET PROTECTION
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- PLANING BITUMINUS PAVEMENT
- REMOVE EXISTING GRAVEL
- CLEARING/PROJECT LIMITS
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- HIGH VISIBILITY SILT FENCE
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- TREES TO REMAIN
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS

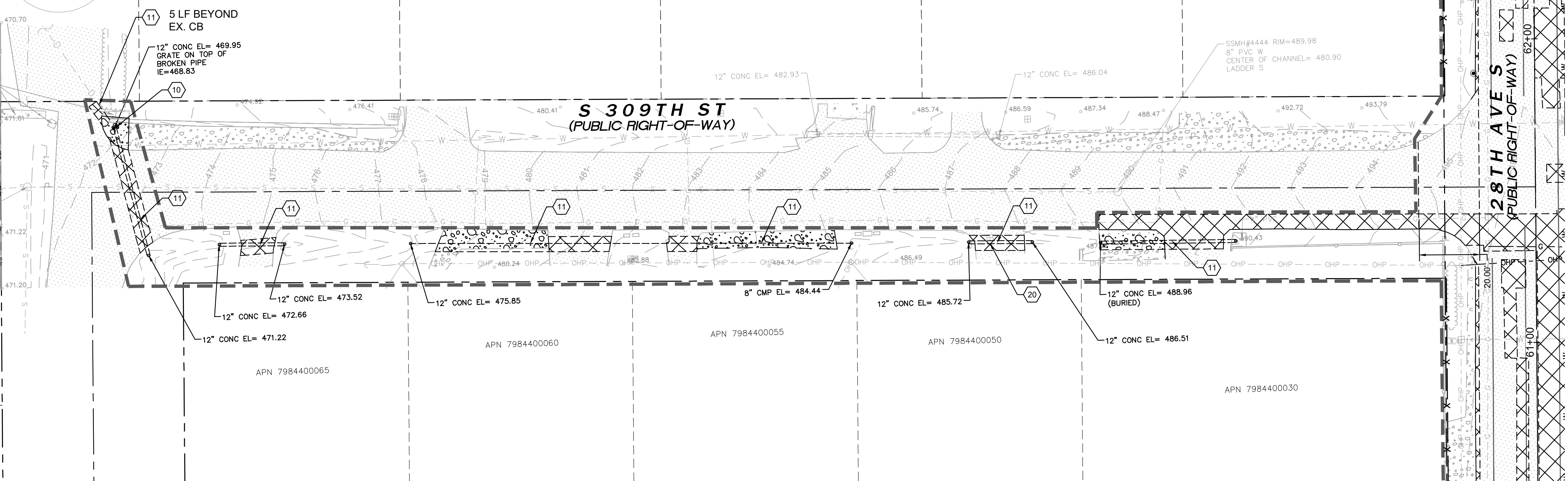
**CONSTRUCTION NOTES**

- 1 SAWCUT PAVEMENT
- 2 REMOVE PAINT LINE
- 3 REMOVE RAISED PAVEMENT MARKER
- 4 REMOVE CURB
- 5 REMOVE SIGN
- 6 REMOVE MAILBOX
- 7 REMOVE BOLLARD
- 8 REMOVE FIRE HYDRANT
- 9 REMOVE WATER METER AND SERVICE, CAP AT MAIN. SEE WATER PLANS.
- 10 REMOVE CATCH BASIN
- 11 REMOVE DRAINAGE PIPE
- 12 COORDINATE REMOVAL OF TELECOMMUNICATION AND POWER POLE, ALL CONNECTED POWER AND COMMUNICATION WIRES, AND GUY WIRES WITH UTILITY COMPANIES.
- 13 COORDINATE REMOVAL OF TELECOMMUNICATIONS POLES PEDESTAL AND ALL CONNECTED WIRES WITH UTILITY COMPANIES.
- 14 COORDINATE RELOCATION OF POWER OR COMMUNICATION VAULT AND ALL CONNECTED WIRES WITH UTILITY COMPANIES.
- 15 COORDINATE RELOCATION OF POWER AND COMMUNICATIONS CONDUIT WITH UTILITY COMPANIES.
- 16 PROTECT MONUMENT
- 17 ADJUST WATER VALVE TO GRADE
- 18 PROTECT CATCH BASIN
- 19 RELOCATE SIGN
- 20 PROTECT METER
- 21 REMOVE DRAINAGE PIPE TO THE NORTH, GROUT THE REMAINING HOLE AT THE CATCH BASIN.

MATCH LINE - SEE SHEET 06

SEE SHEET 06

SEE SHEET 06



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 DESIGNED: C. HOVDE  
 REVIEWED: W. FIERST  
 APPROVED:

**WILLIAM J. FIERST**  
 STATE OF WASHINGTON  
 PROFESSIONAL ENGINEER  
 05/13/2024

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

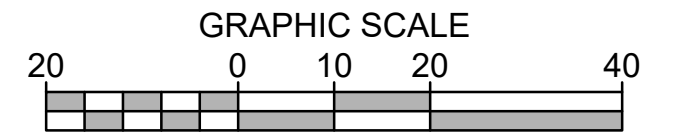
**JOINT O&M FACILITY OFFSITE PLANS**  
**S 308TH LN TESC & DEMOLITION PLAN**  
 STA 100+00 TO STA 104+00

CITY PROJECT #:  
**#36610**  
 SHT. 07  
 OF 40

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APN 0921049026  
STEEL LAKE PARK



**SURFACING LEGEND:**

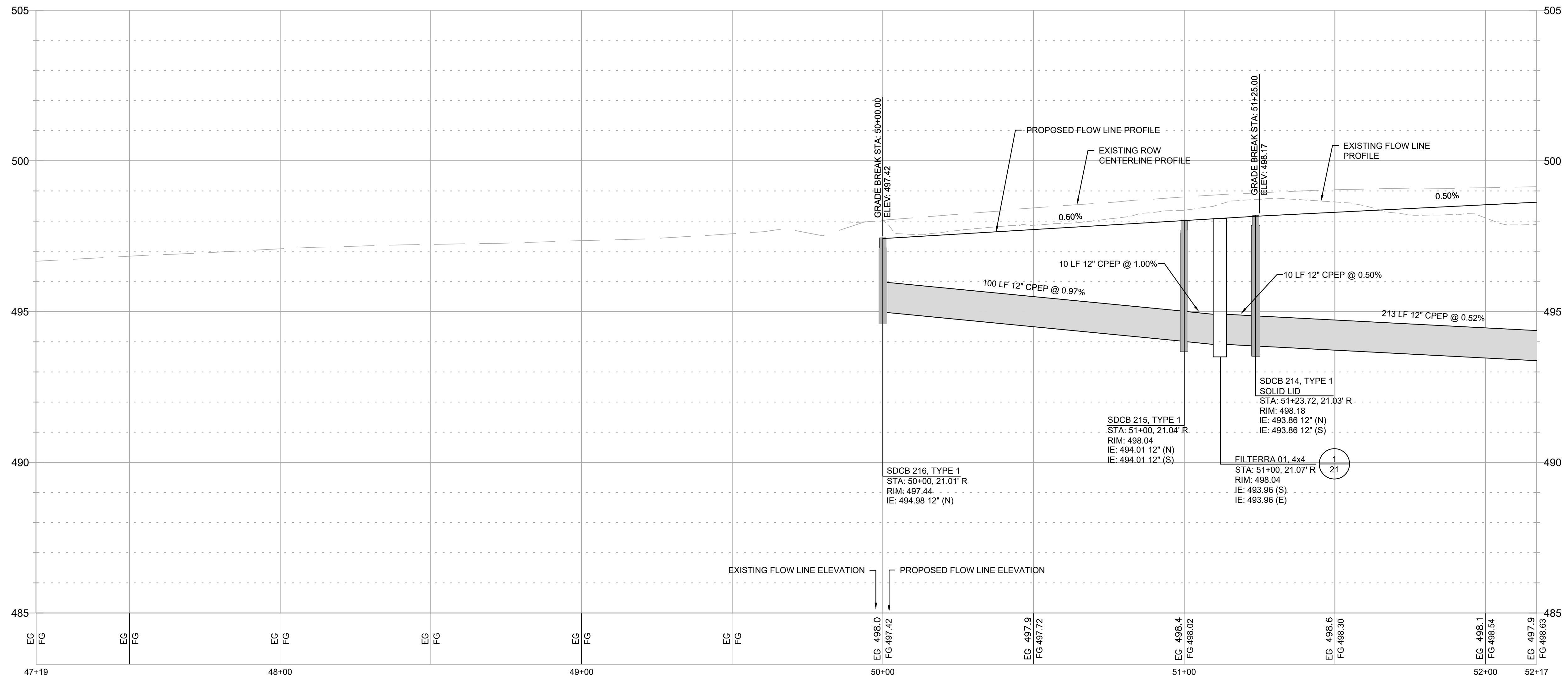
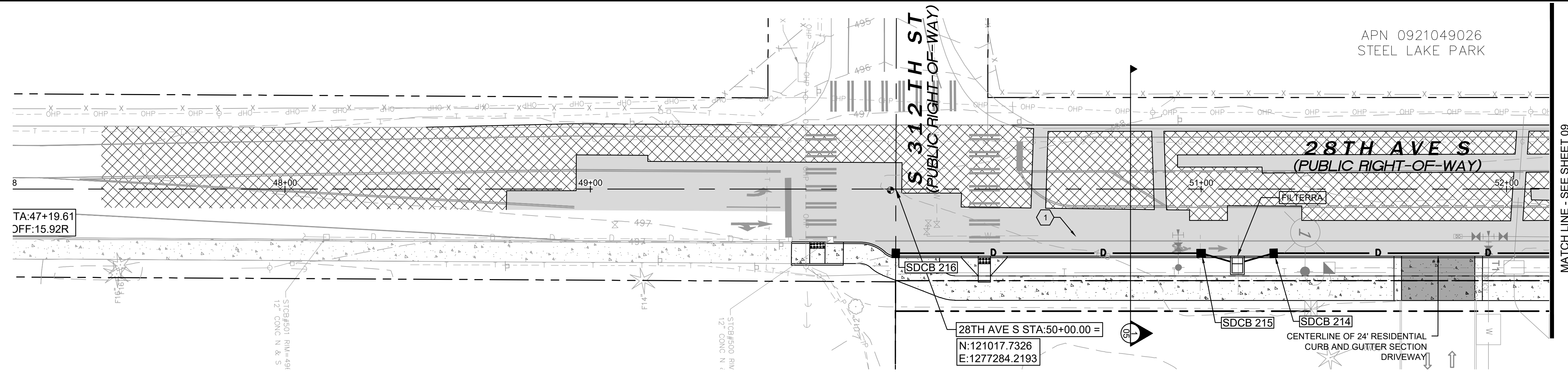
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- CENTERLINE
- ASPHALT PAVEMENT - STANDARD DUTY INCLUDING OVERLAY
- ASPHALT OVERLAY
- CEMENT CONCRETE - STANDARD DUTY
- CEMENT CONCRETE - HEAVY DUTY
- GRAVEL SURFACING

**STORM DRAINAGE LEGEND:**

- STORM DRAINAGE MANHOLE - TYPE 2
- CATCH BASIN - TYPE I
- STORM DRAINAGE PIPING

**GENERAL NOTES**

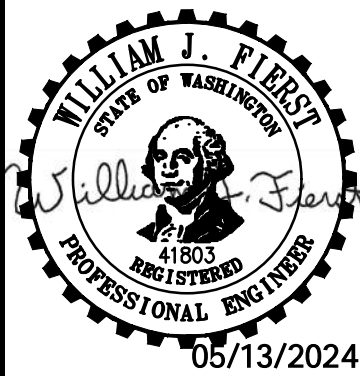
1. CARE SHALL BE TAKEN DURING NEW STORM SYSTEM CONSTRUCTION SO THAT THE INTEGRITY OF THE EXISTING LWSO WATER MAIN IS NOT COMPROMISED.
2. SEE SHEETS 16 AND 17 FOR ADA RAMP DETAILS.



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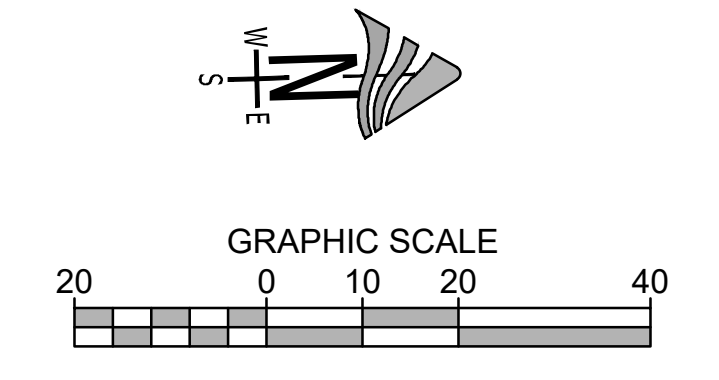
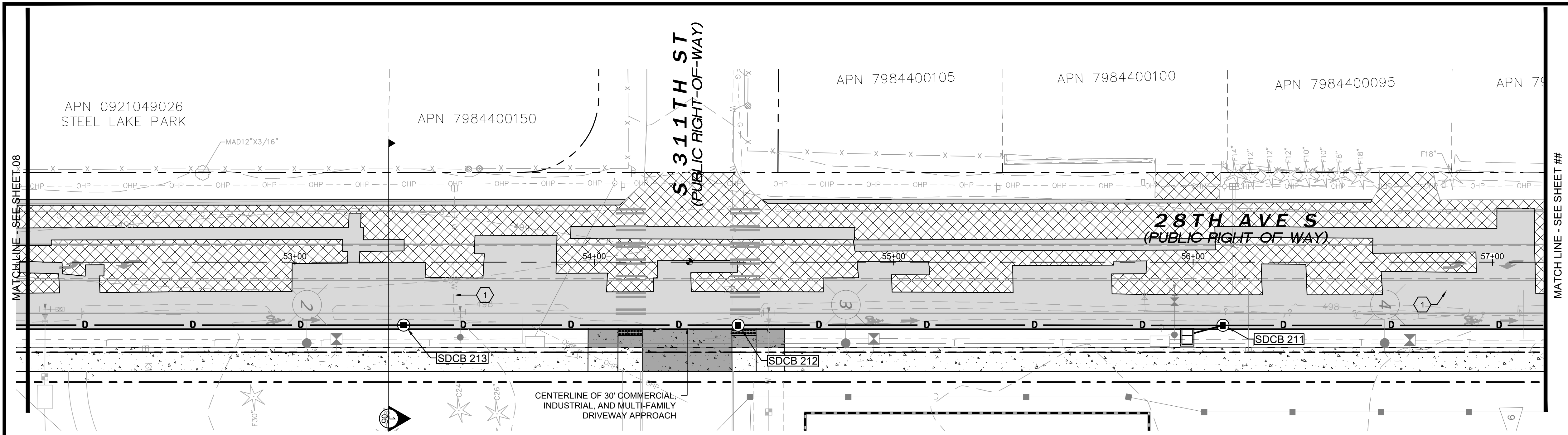
**JOINT O&M FACILITY OFFSITE PLANS**

**28TH AVE S PLAN AND PROFILE  
STA 49+00 TO STA 59+00**

CITY PROJECT #:  
**#36610**  
SHT. **08**  
OF **40**

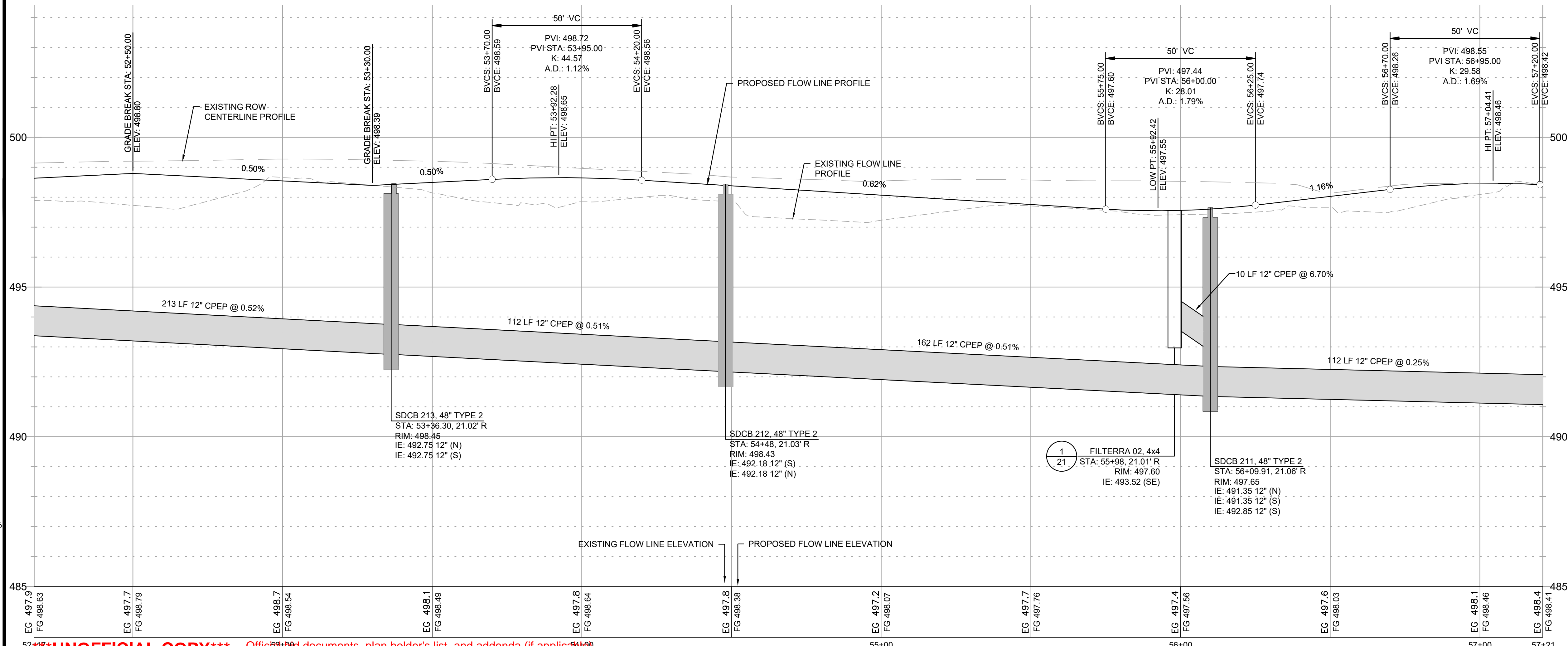
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- SURFACING LEGEND:**
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  - CENTERLINE
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  - ASPHALT OVERLAY
  - CEMENT CONCRETE - STANDARD DUTY
  - CEMENT CONCRETE - HEAVY DUTY
  - GRAVEL SURFACING
- STORM DRAINAGE LEGEND**
- STORM DRAINAGE MANHOLE - TYPE 2
  - CATCH BASIN - TYPE 1
  - STORM DRAINAGE PIPING

- GENERAL NOTES**
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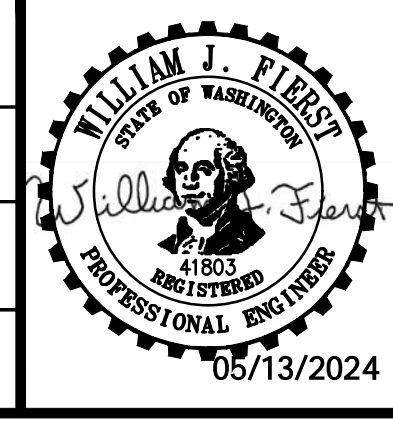


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**JOINT O&M FACILITY OFFSITE PLANS**

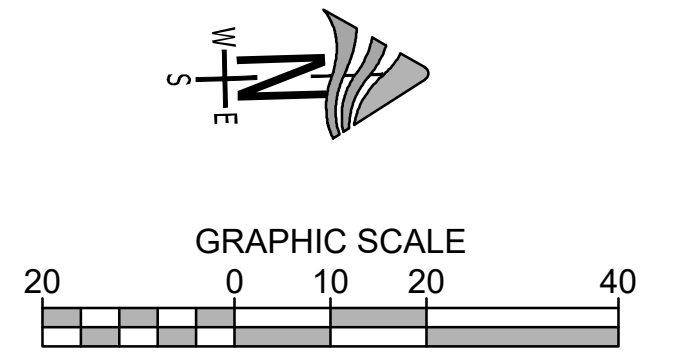
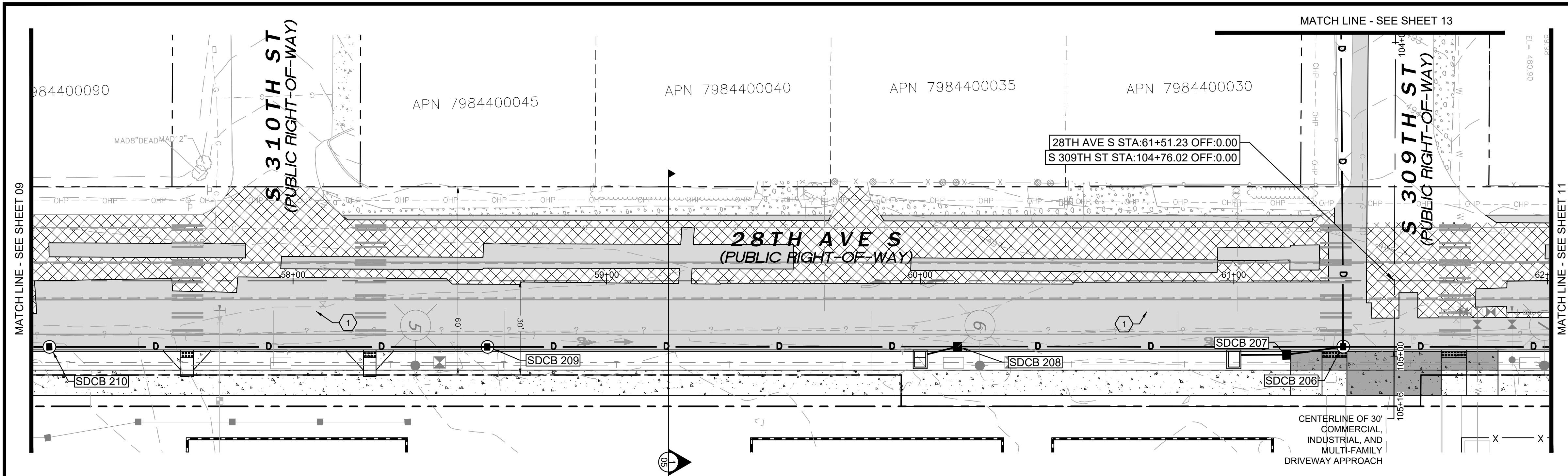
**28TH AVE S PLAN AND PROFILE**  
STA 49+00 TO STA 59+00

CITY PROJECT #:  
**#36610**

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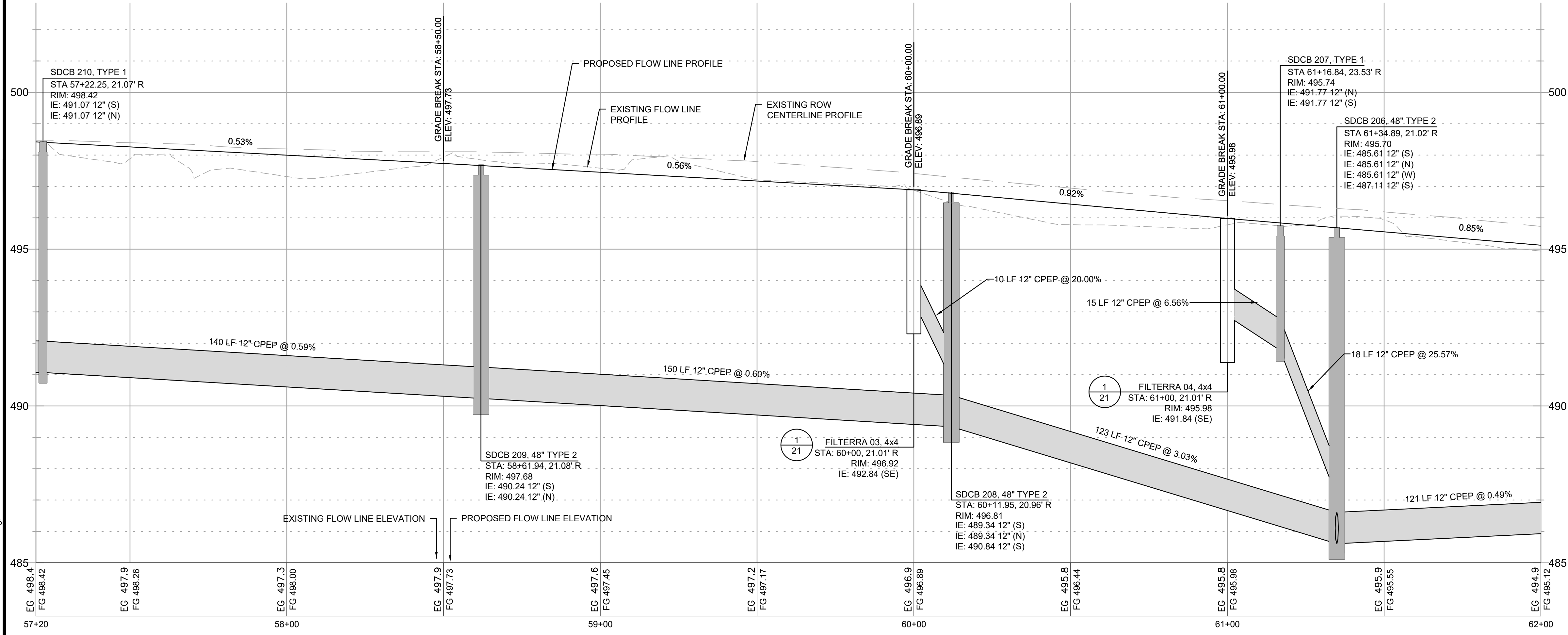
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- CEMENT CONCRETE - HEAVY DUTY
- GRAVEL SURFACING

**STORM DRAINAGE LEGEND**

- STORM DRAINAGE MANHOLE - TYPE 2
- CATCH BASIN - TYPE I
- D — STORM DRAINAGE PIPING

**GENERAL NOTES**

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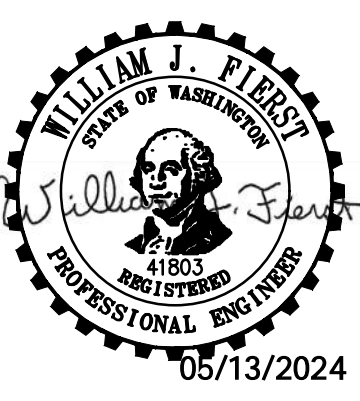


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**JOINT O&M FACILITY OFFSITE PLANS**

**28TH AVE S PLAN AND PROFILE**  
STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**

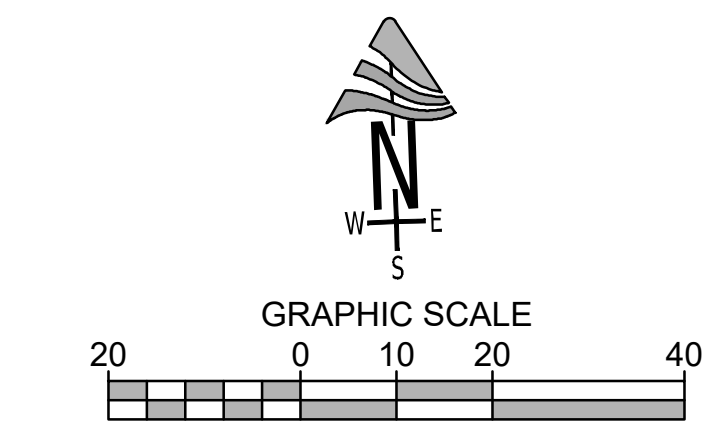
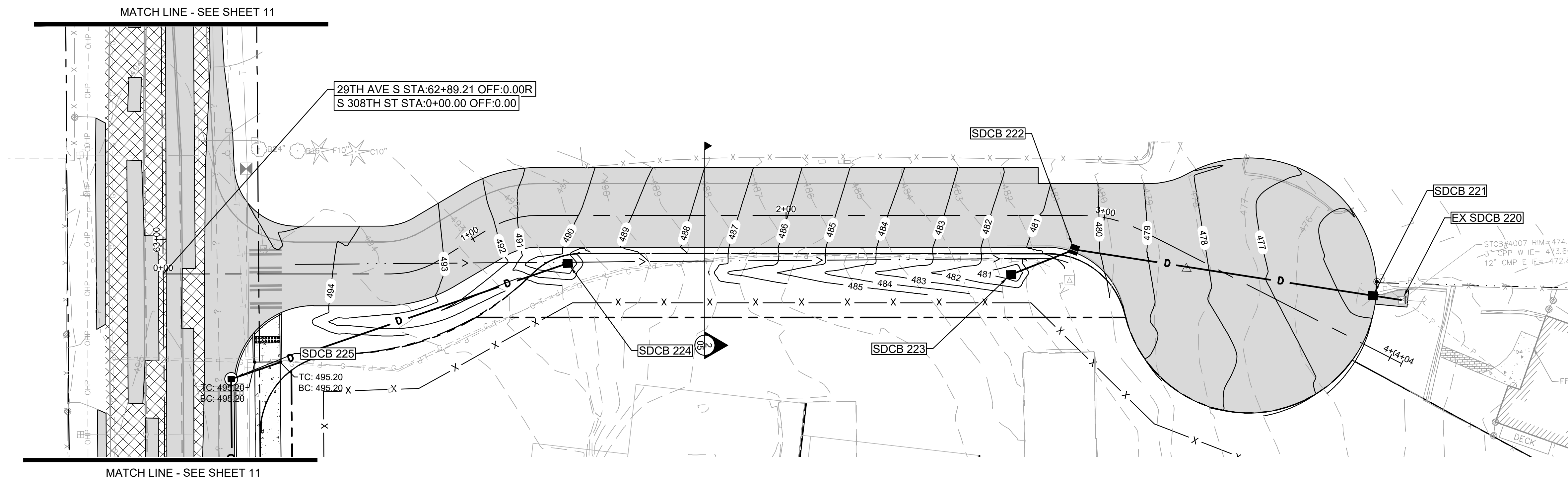
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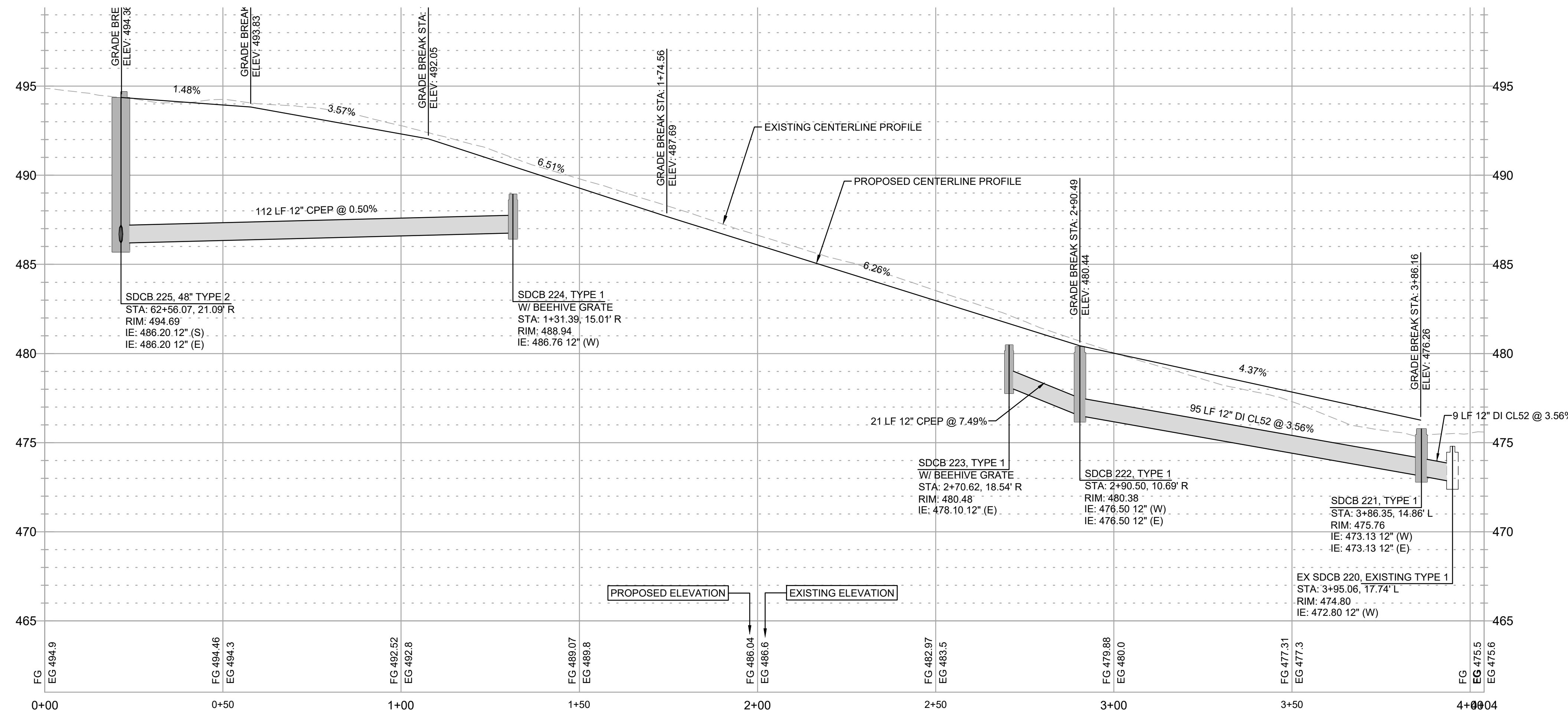
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- CEMENT CONCRETE - STANDARD DUTY
- CEMENT CONCRETE - HEAVY DUTY
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**STORM DRAINAGE LEGEND**

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- CATCH BASIN - TYPE I
- D — STORM DRAINAGE PIPING

**GENERAL NOTES**

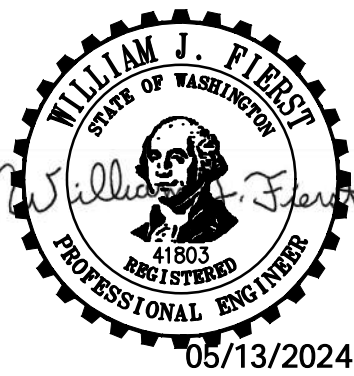
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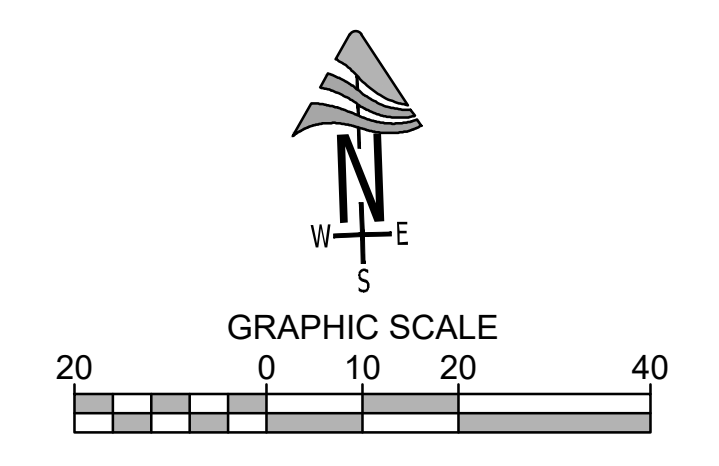
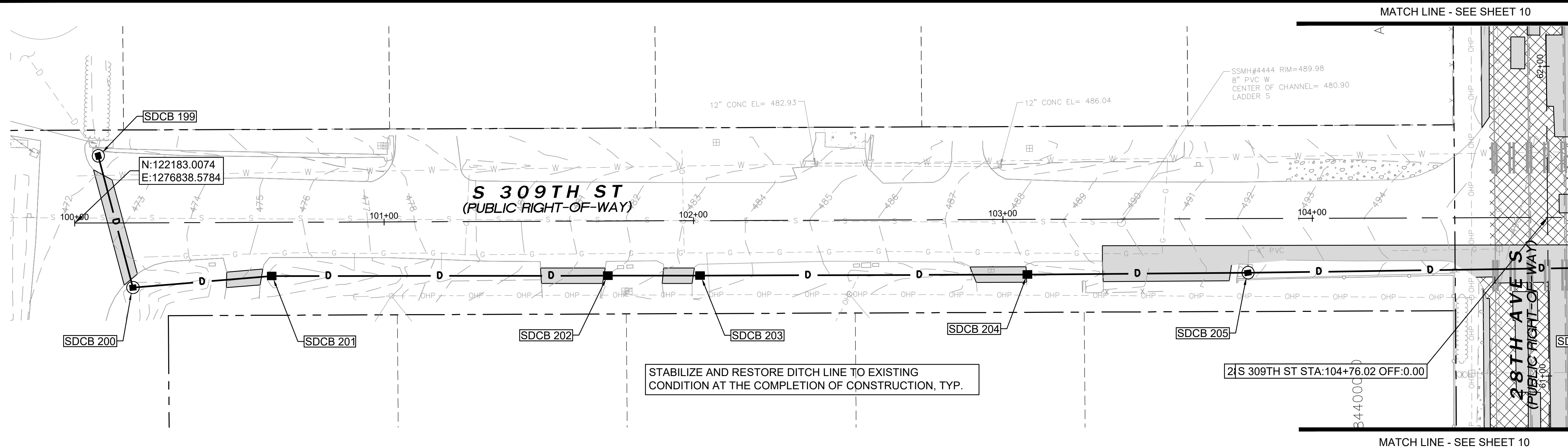
**JOINT O&M FACILITY OFFSITE PLANS**

**S 308TH LN PLAN AND PROFILE  
 STA 100+00 TO STA 104+00**

CITY PROJECT #:  
**#36610**  
 SHT. 12  
 OF 40

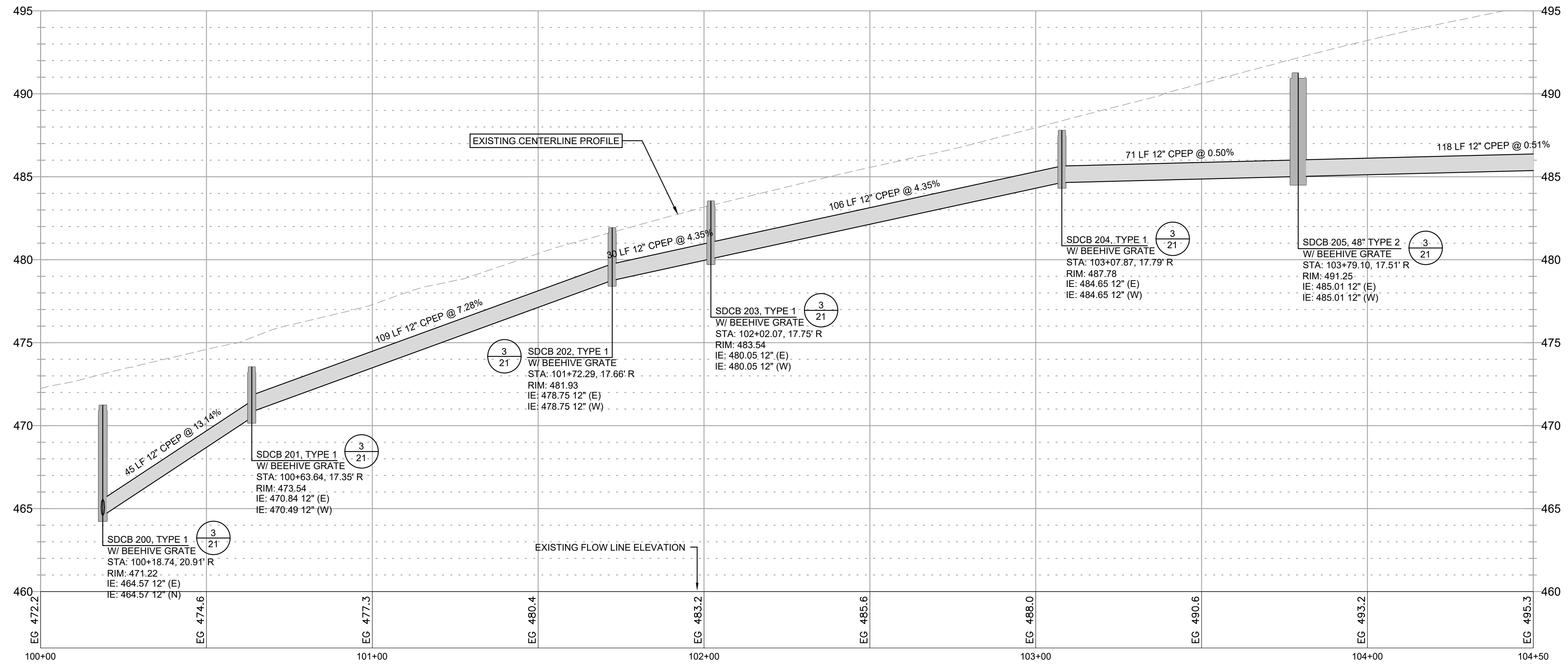
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- SURFACING LEGEND:**
- RIGHT-OF-WAY/PROPERTY LINE
  - - - CENTERLINE
  - ▬ ASPHALT PAVEMENT - STANDARD DUTY INCLUDING OVERLAY
  - ▨ ASPHALT OVERLAY
  - ▩ CEMENT CONCRETE - STANDARD DUTY
  - ▧ CEMENT CONCRETE - HEAVY DUTY
  - GRAVEL SURFACING
- STORM DRAINAGE LEGEND**
- STORM DRAINAGE MANHOLE - TYPE 2
  - CATCH BASIN - TYPE I
  - D — STORM DRAINAGE PIPING

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**JOINT O&M FACILITY OFFSITE PLANS**

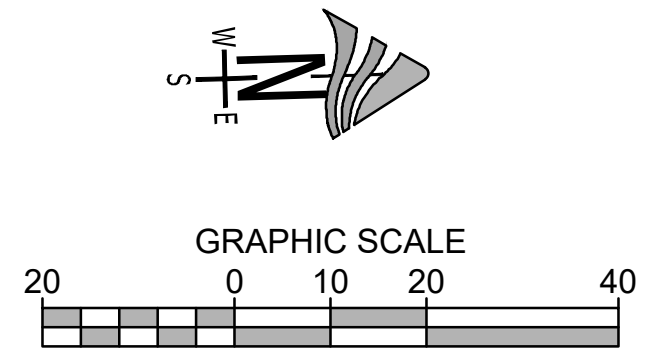
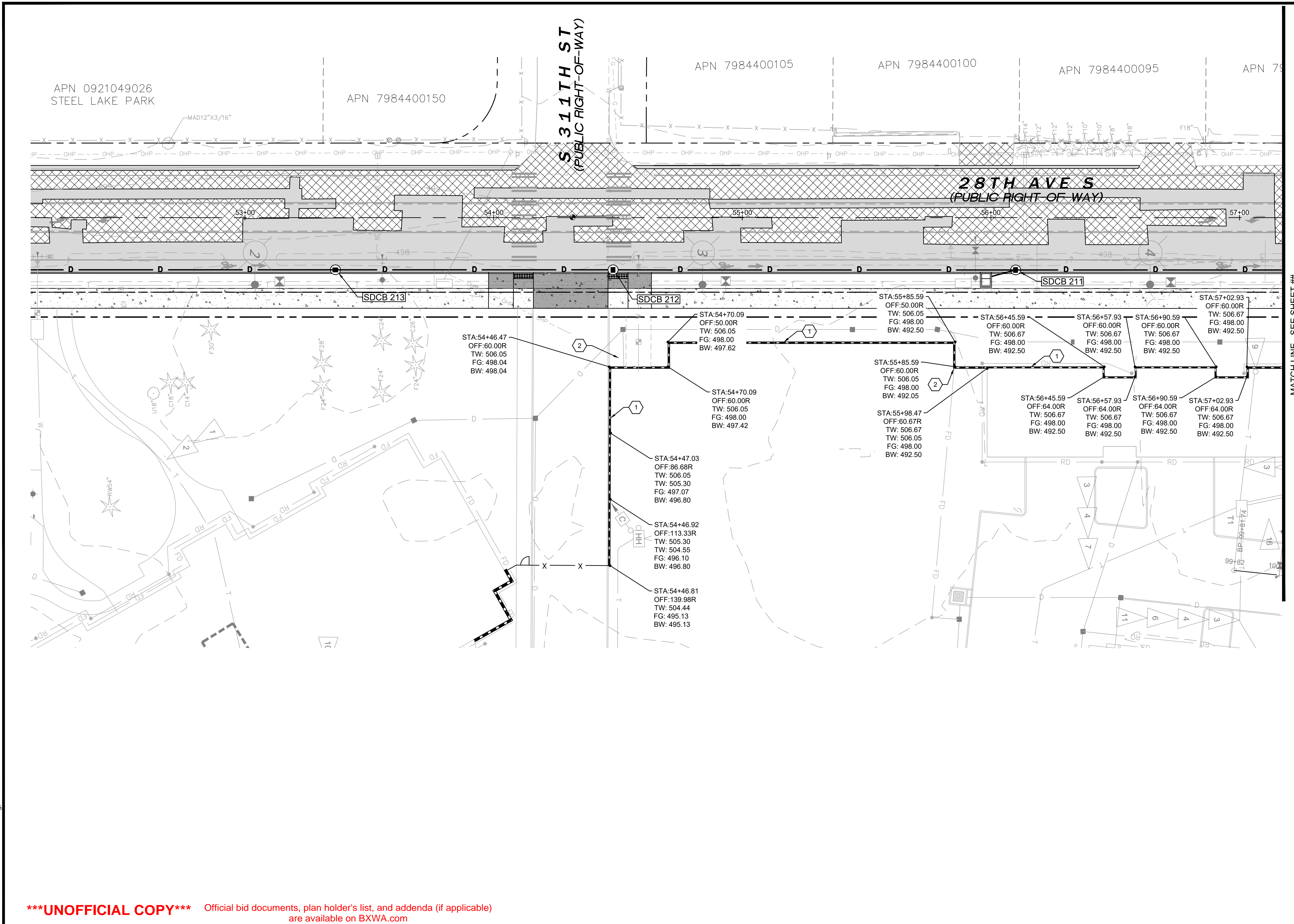
**S 309TH ST PLAN AND PROFILE**  
 STA 100+00 TO STA 104+00

CITY PROJECT #:  
**#36610**

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 OF 40

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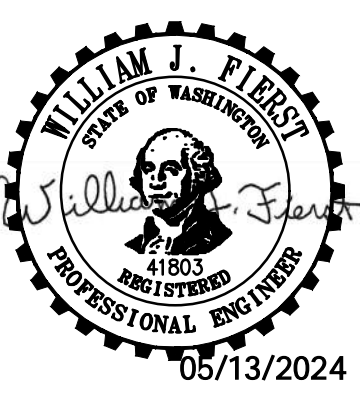
- KEYNOTES**
- 1 RETAINING WALL. SEE STRUCTURAL DETAIL 1/37. SEE ONSITE ARCHITECTURAL PLANS FOR WALL SPIKES AND FORM LINERS. PAINT THE STREET SIDE OF THE WALL (WESTSIDE) WITH A COLOR SELECTED BY THE ARCHITECT AND COATED WITH AN ANTI-GRAFFITI COATING.
  - 2 SEE STRUCTURAL DETAIL 1/37 FOR WALL FOOTING DRAIN. SEE ONSITE DRAINAGE PLANS FOR FOOTING DRAIN CONNECTION TO DOWNSTREAM DRAINAGE SYSTEM.

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**JOINT O&M FACILITY OFFSITE PLANS**

**RETAINING WALL ELEVATIONS**

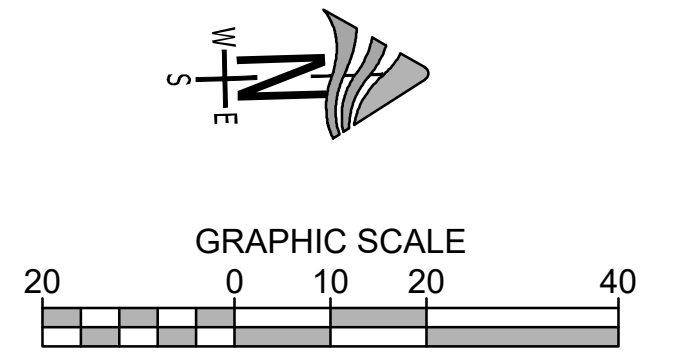
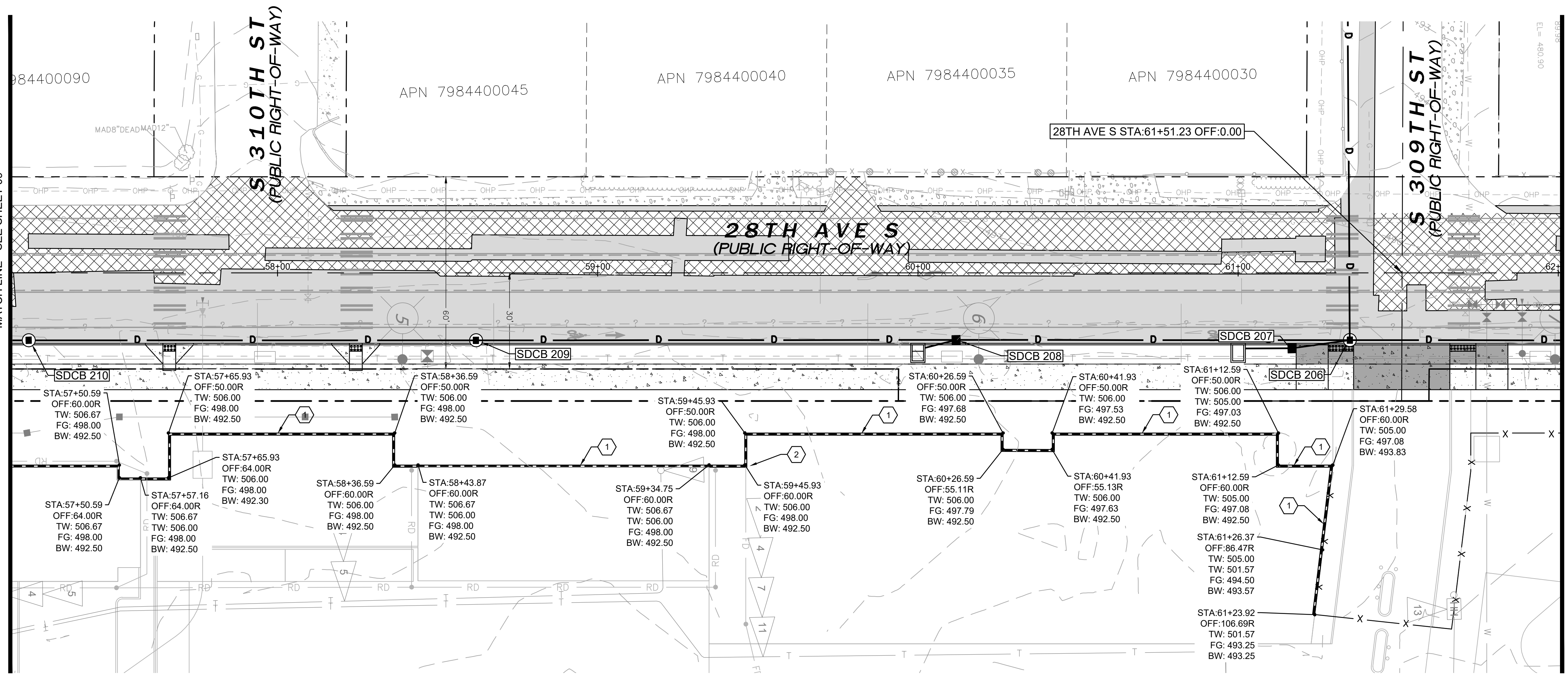
**STA 49+00 TO STA 59+00**

CITY PROJECT #:  
**#36610**

SHT. 14  
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**KEYNOTES**

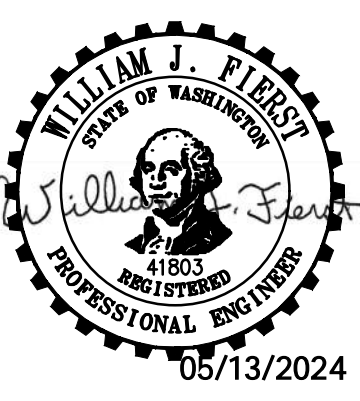
- 1 RETAINING WALL, SEE STRUCTURAL DETAIL 1/2x  
SEE ONSITE ARCHITECTURAL PLANS FOR WALL SPIKES AND  
FORM LINERS. PAINT THE STREET SIDE OF THE WALL  
(WESTSIDE) WITH A COLOR SELECTED BY THE ARCHITECT AND  
COATED WITH AN ANTI-GRAFFITI COATING.
- 2 SEE STRUCTURAL DETAIL 1/2x FOR WALL FOOTING DRAIN. SEE  
ONSITE DRAINAGE PLANS FOR FOOTING DRAIN CONNECTION  
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**JOINT O&M FACILITY OFFSITE PLANS**

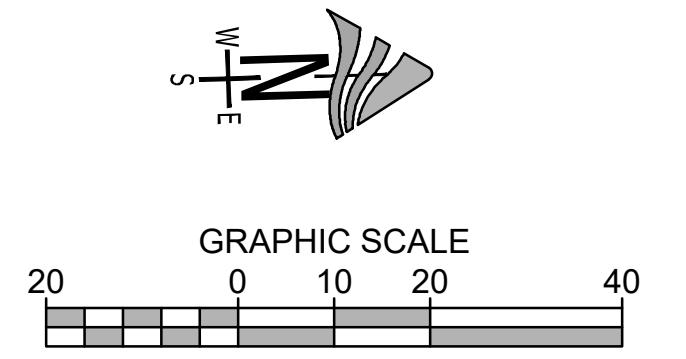
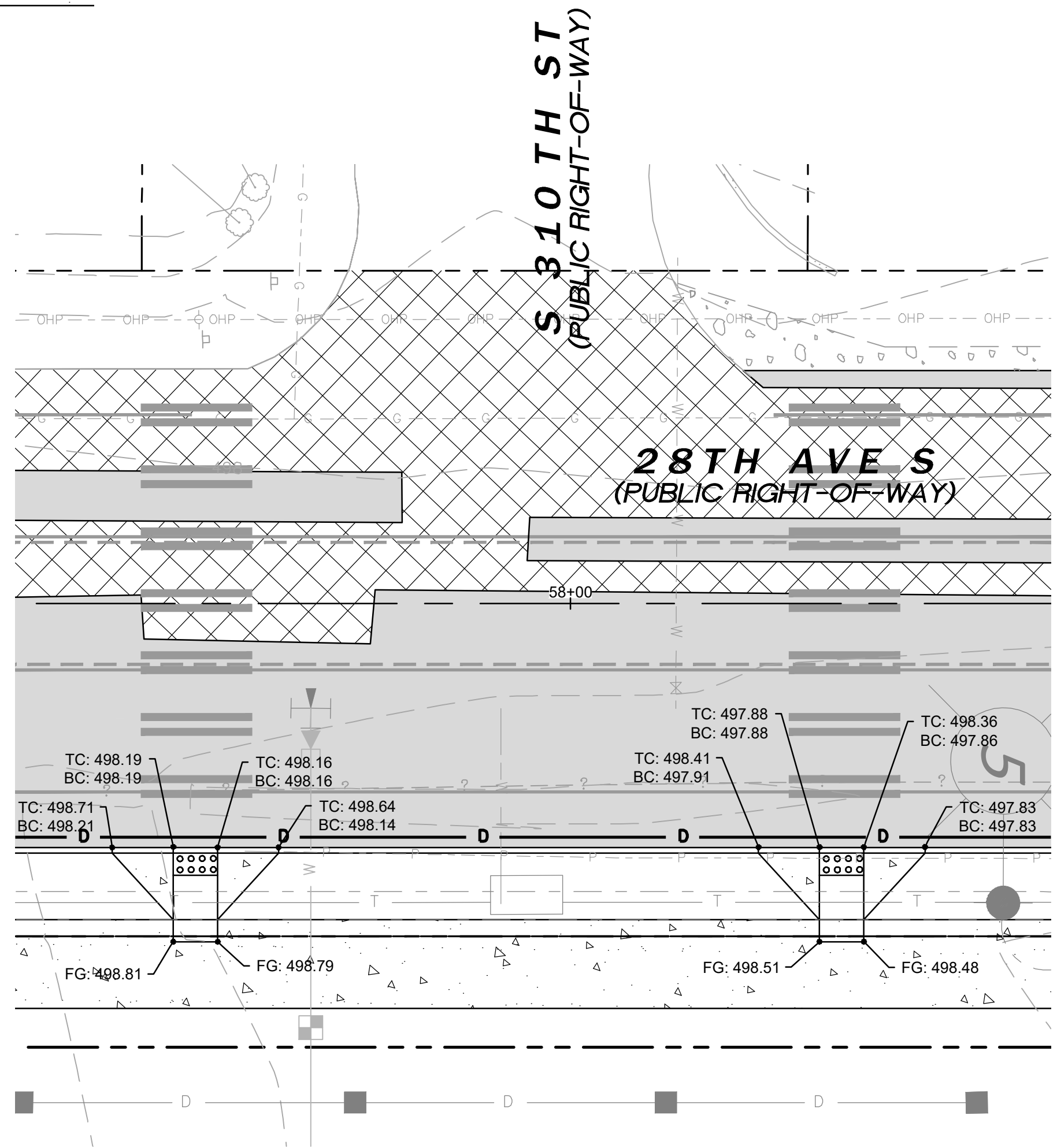
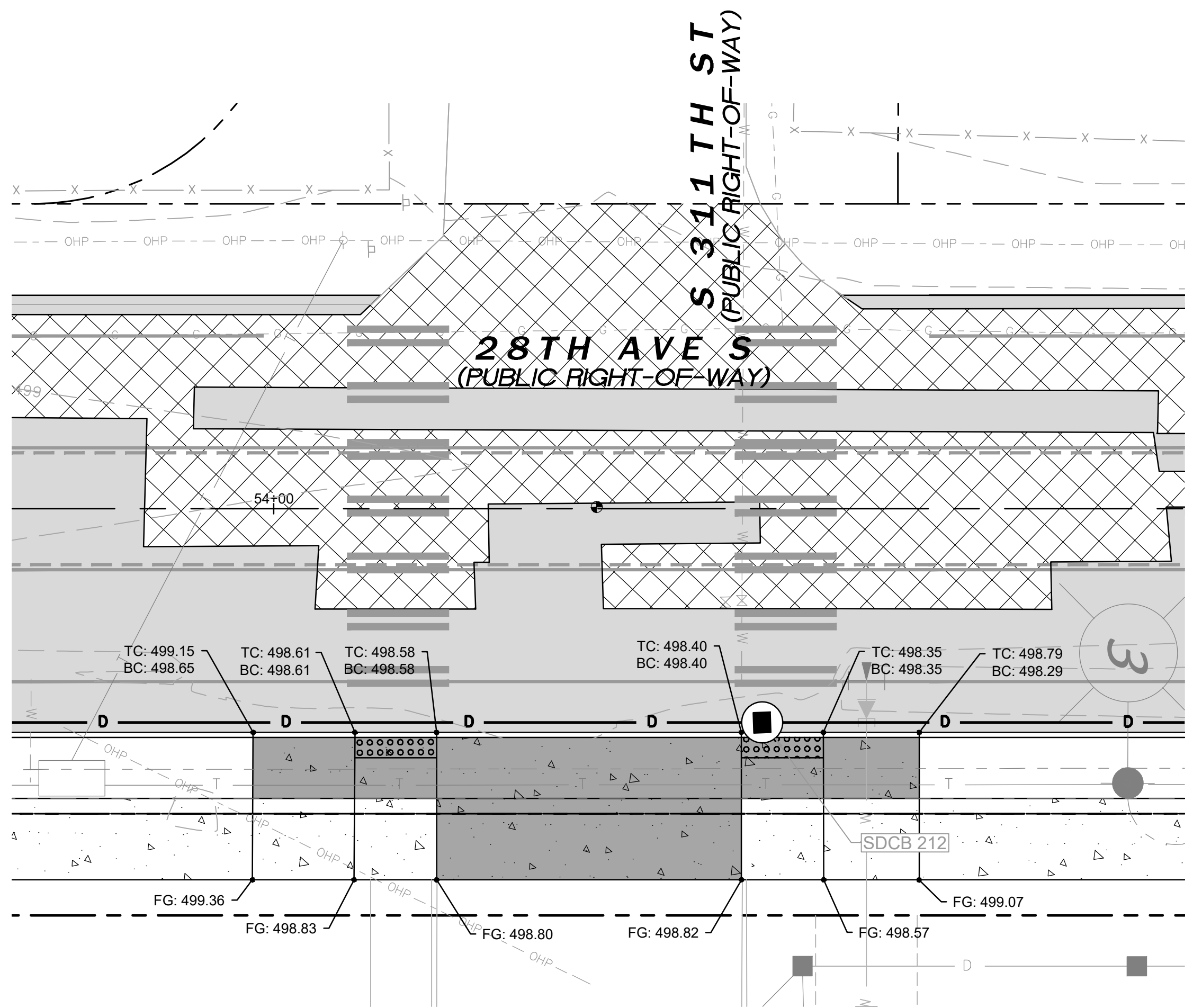
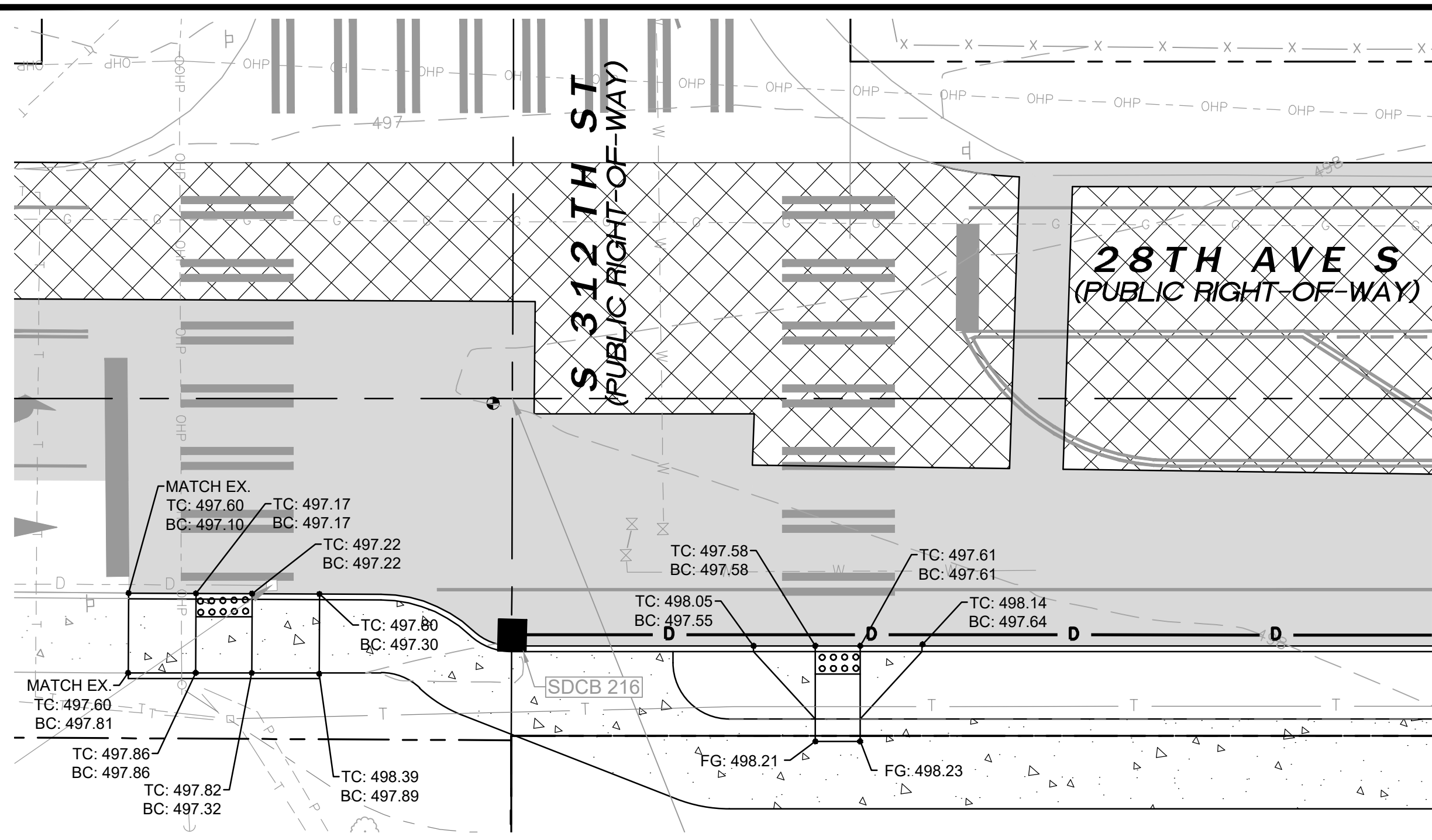
**RETAINING WALL ELEVATIONS**  
STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**

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OF 40

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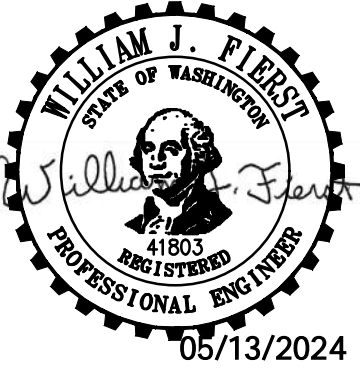




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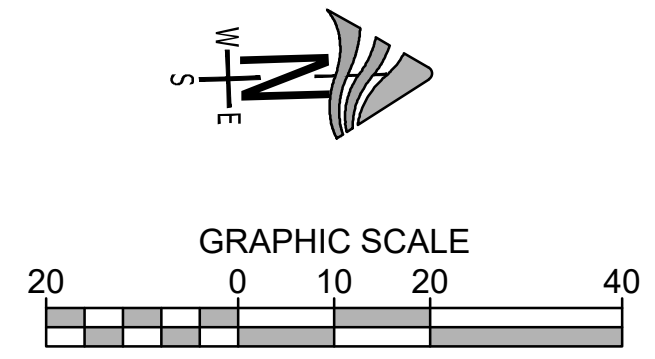
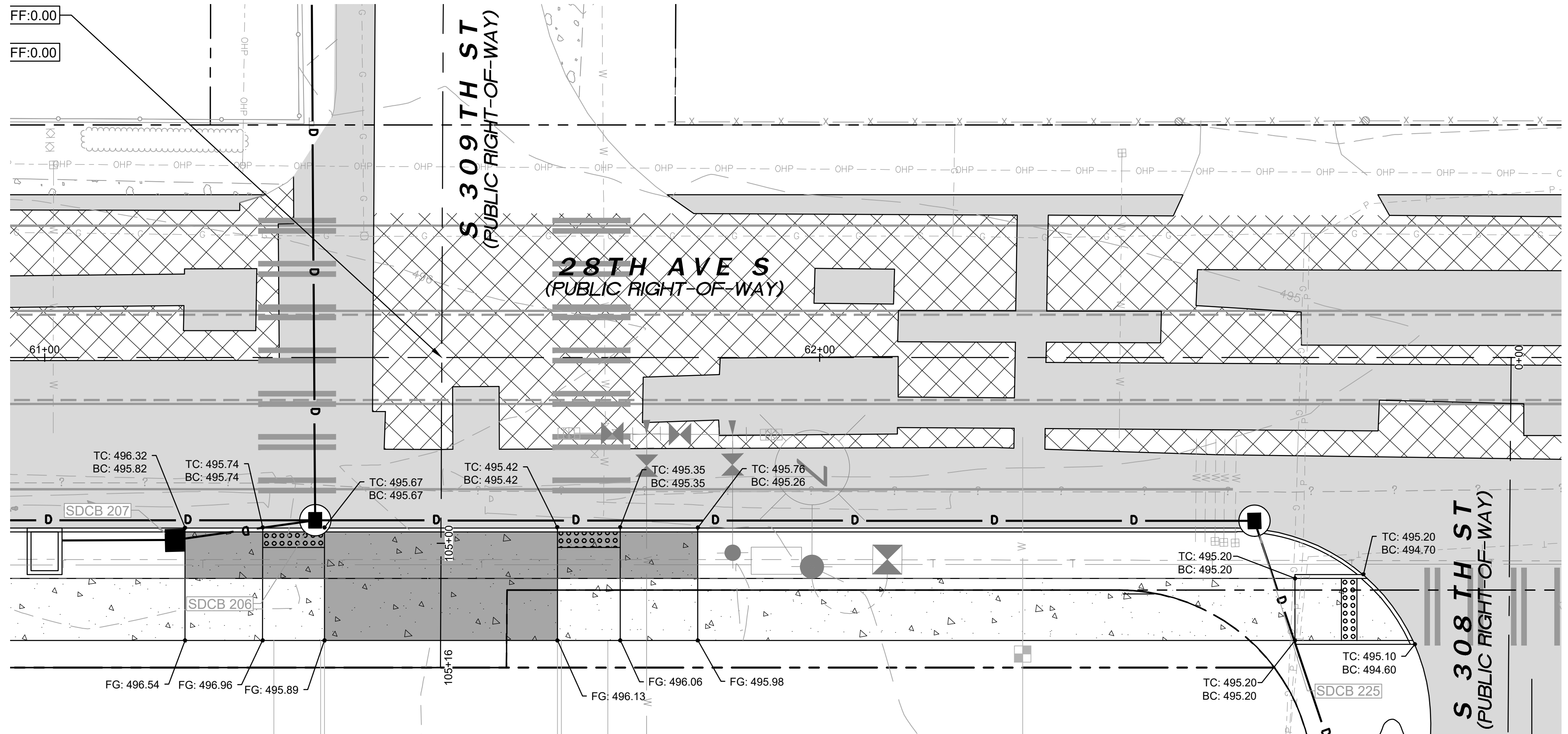
# JOINT O&M FACILITY OFFSITE PLANS

## RAMP DETAILS

CITY PROJECT #:  
**#36610**  
SHT. 16  
OF 40

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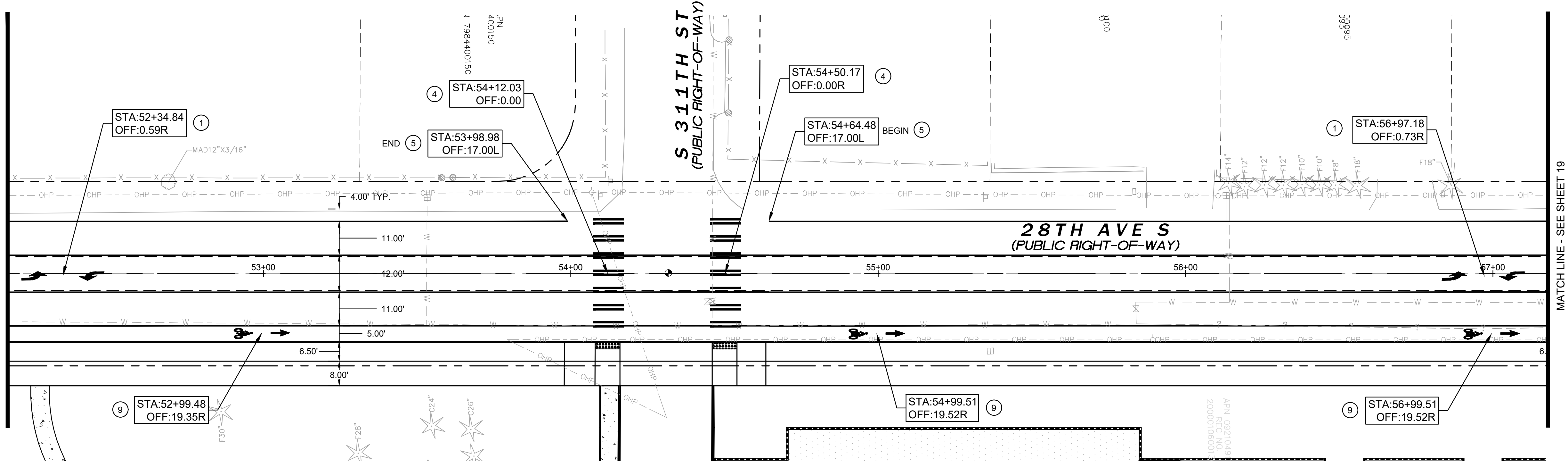
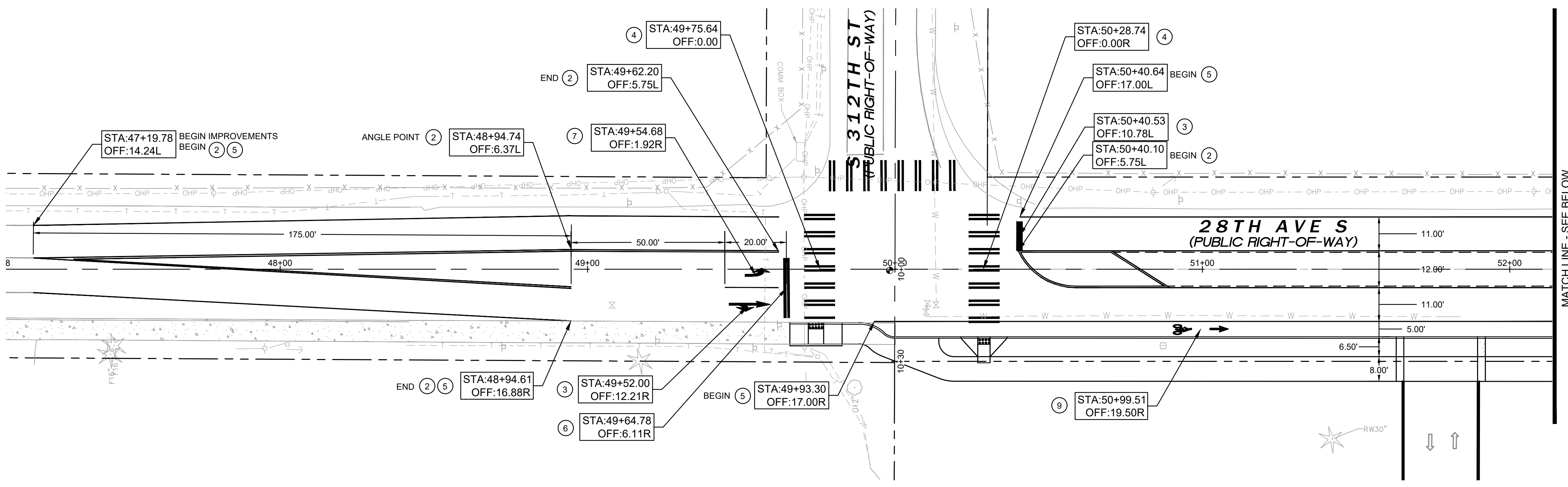
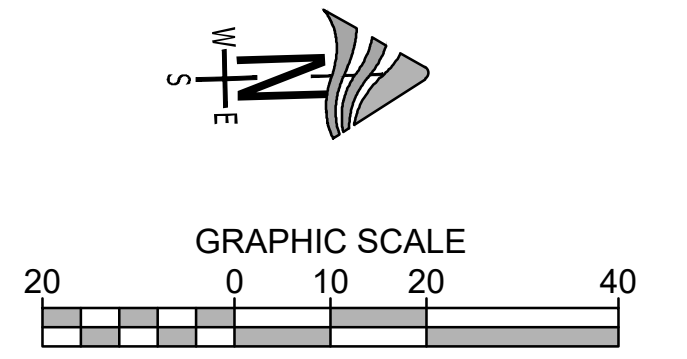
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**JOINT O&M FACILITY OFFSITE PLANS**  
**RAMP DETAILS**

CITY PROJECT #:  
**#36610**  
 SHT. 17  
 OF 40

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- KEY NOTES:**
- ① TWO-WAY LEFT TURN LANE LINE PER COFW DWG DO. 3-18
  - ② DOUBLE YELLOW CENTER LINE PER COFW DWG DO. 3-17
  - ③ 18-INCH STOP LINE PER COFW DWG DO. 3-21
  - ④ CROSSWALK STRIPE PER COFW DWG DO. 3-21
  - ⑤ WHITE EDGE LINE PER COFW DWG DO. 3-17
  - ⑥ WIDE LINE PER COFW DWG DO. 3-18
  - ⑦ TYPE 2SL (LEFT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑧ TYPE 3SR (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑨ BICYCLE LANE SYMBOL AND ARROW PER WSDOT STD. PLAN M-9.50
  - ⑩ STOP SIGN

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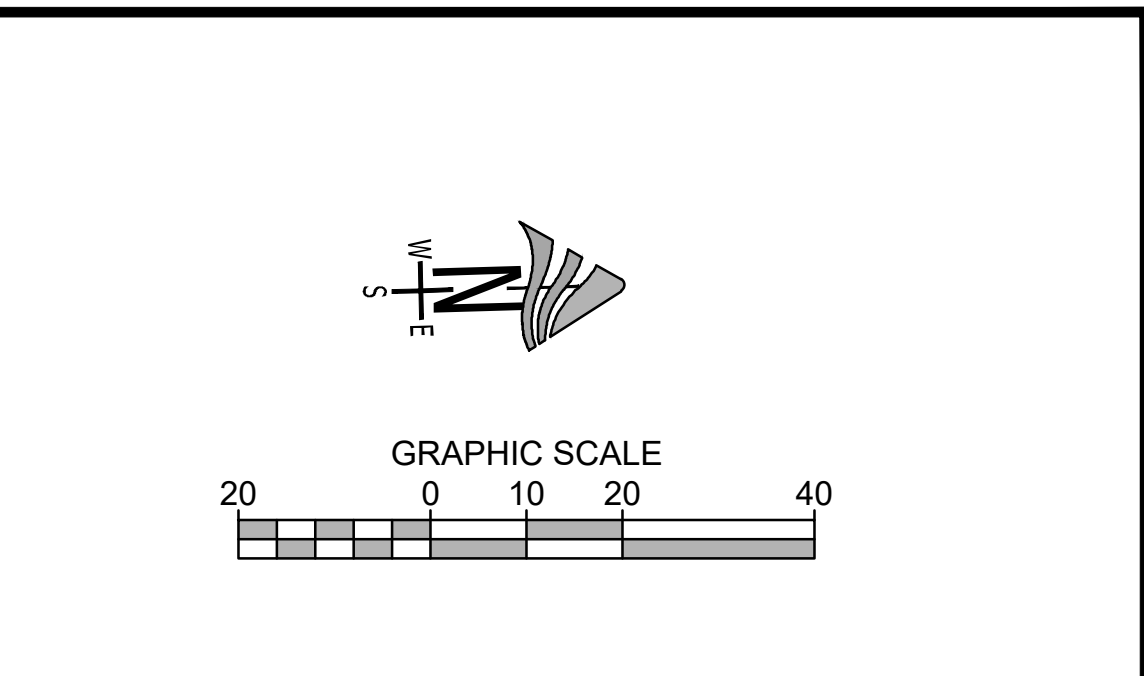
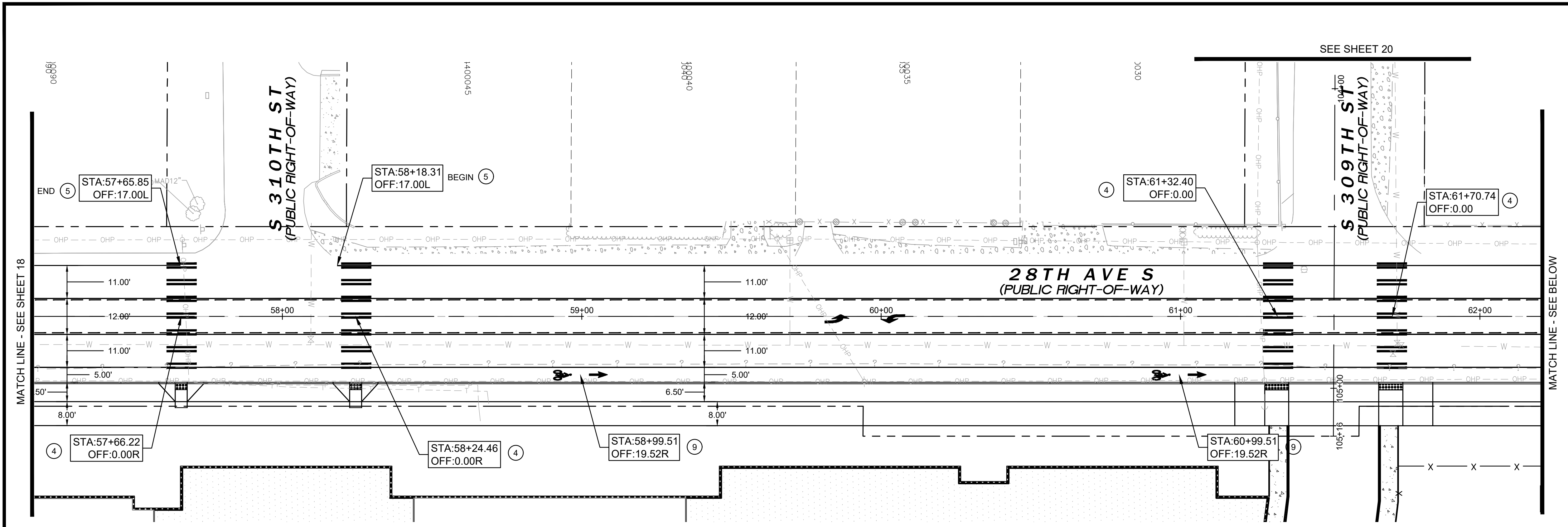
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**JOINT O&M FACILITY OFFSITE PLANS**  
**28TH AVE S HORIZONTAL CONTROL PLAN**  
**STA 49+00 TO STA 59+00**

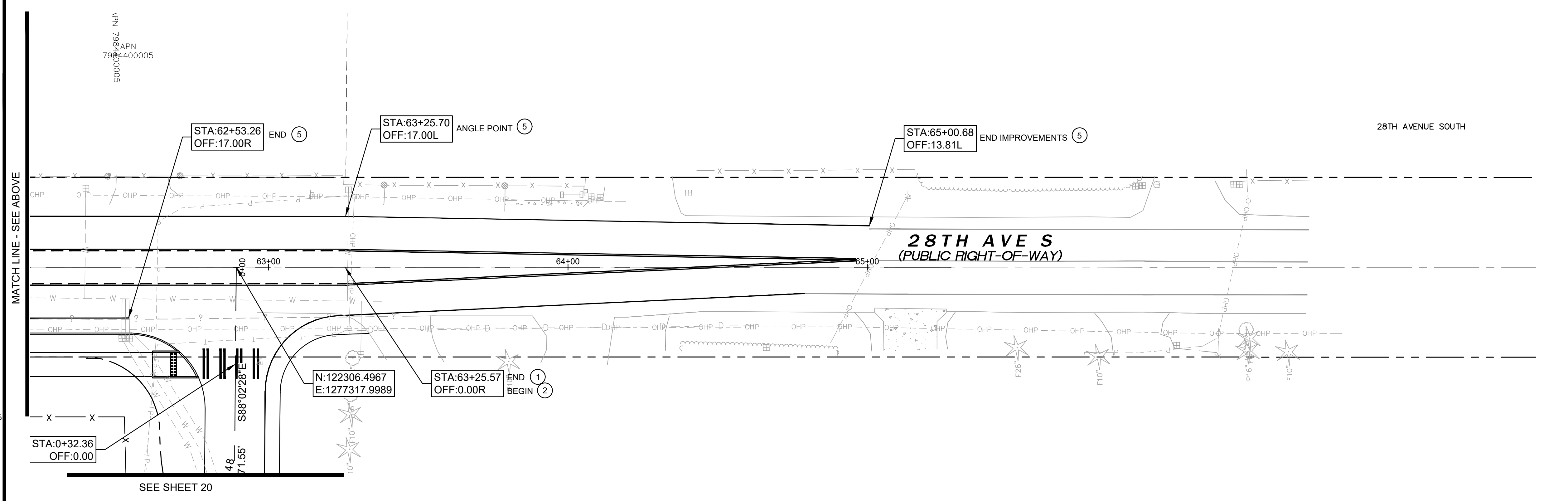
CITY PROJECT #:  
**#36610**  
 SHT. 18  
 OF 40

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  - ⑤ WHITE EDGE LINE PER COFW DWG DO. 3-17
  - ⑥ WIDE LINE PER COFW DWG DO. 3-18
  - ⑦ TYPE 2SL (LEFT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑧ TYPE 3SR (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑨ BICYCLE LANE SYMBOL AND ARROW PER WSDOT STD. PLAN M-9.50
  - ⑩ STOP SIGN

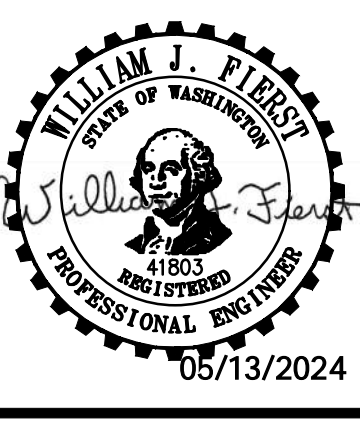


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 DESIGNED: C. HOVDE  
 REVIEWED: W. FIERST  
 APPROVED:



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NO.	DATE	REVISION

**JOINT O&M FACILITY OFFSITE PLANS**

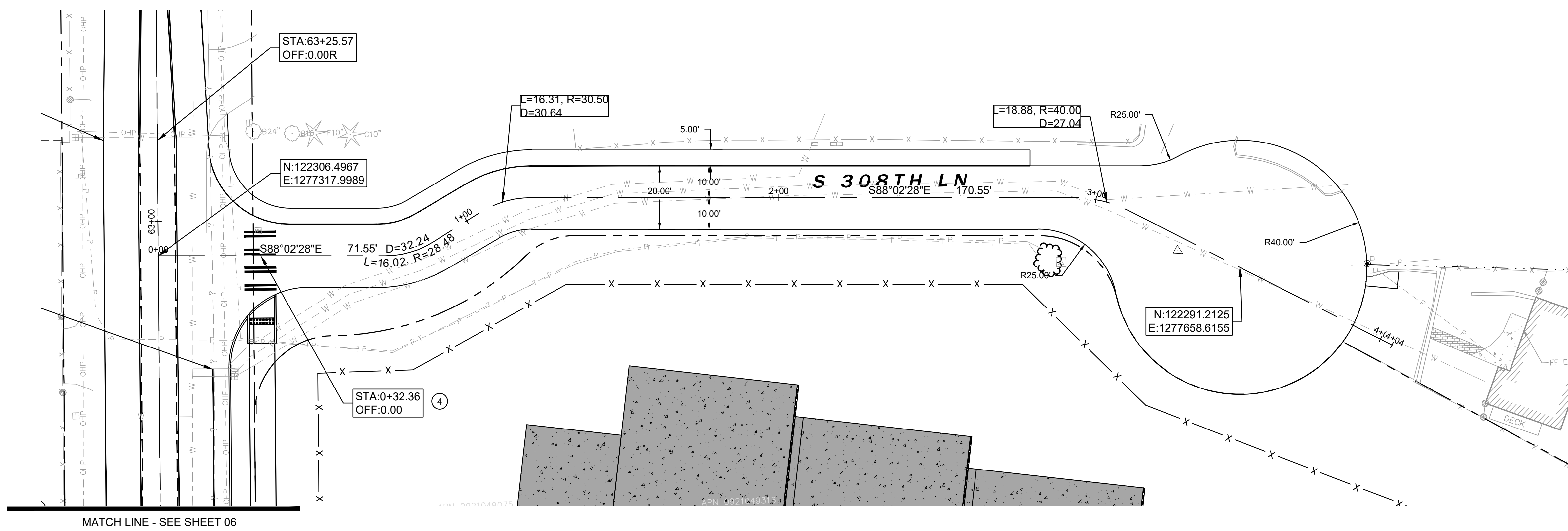
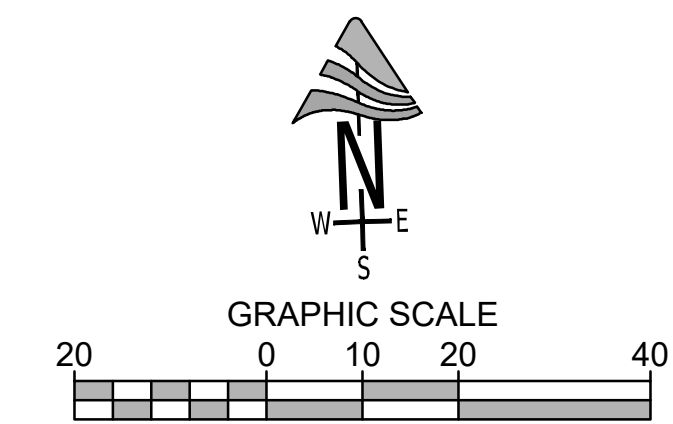
**28TH AVE S HORIZONTAL CONTROL PLAN**

**STA 59+00 TO STA 64+00**

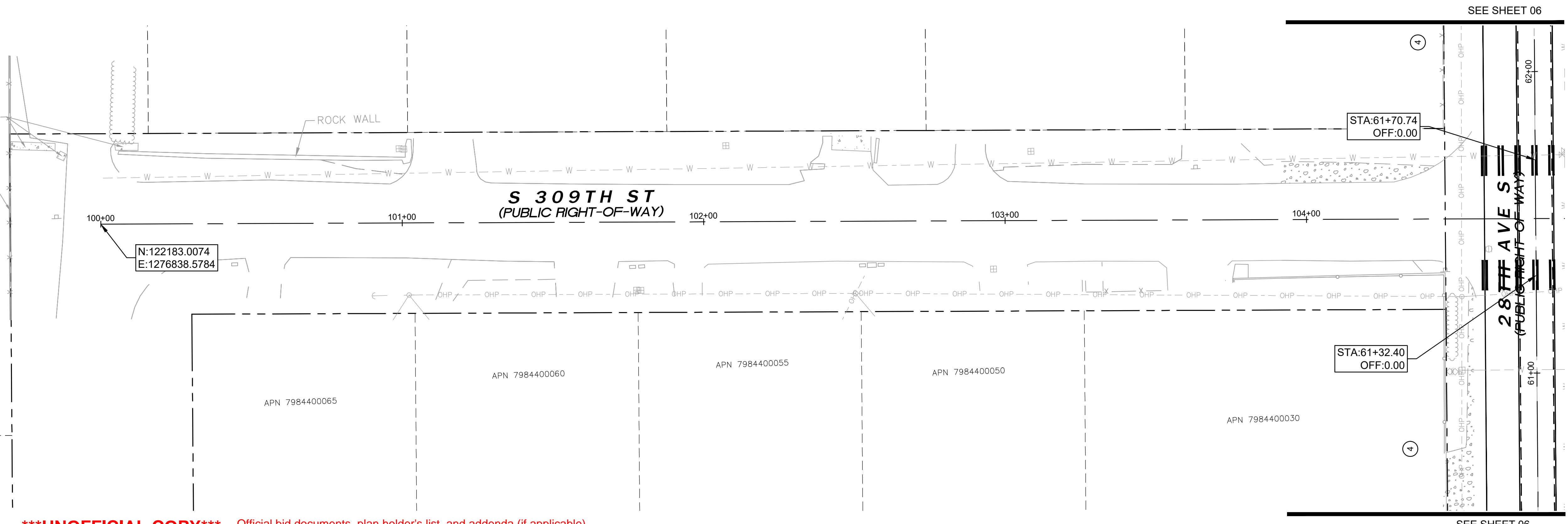
CITY PROJECT #:  
**#36610**

SHT. 19  
 OF 40





- KEY NOTES:**
- ① TWO-WAY LEFT TURN LANE LINE PER COFW DWG DO. 3-18
  - ② DOUBLE YELLOW CENTER LINE PER COFW DWG DO. 3-17
  - ③ 18-INCH STOP LINE PER COFW DWG DO. 3-21
  - ④ CROSSWALK STRIPE PER COFW DWG DO. 3-21
  - ⑤ WHITE EDGE LINE PER COFW DWG DO. 3-17
  - ⑥ WIDE LINE PER COFW DWG DO. 3-18
  - ⑦ TYPE 2SL (LEFT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑧ TYPE 3SR (RIGHT) TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40
  - ⑨ BICYCLE LANE SYMBOL AND ARROW PER WSDOT STD. PLAN M-9.50
  - ⑩ STOP SIGN



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DESIGNED: C. HOVDE
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APPROVED:

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**JOINT O&M FACILITY OFFSITE PLANS**

**HORIZONTAL CONTROL PLAN**

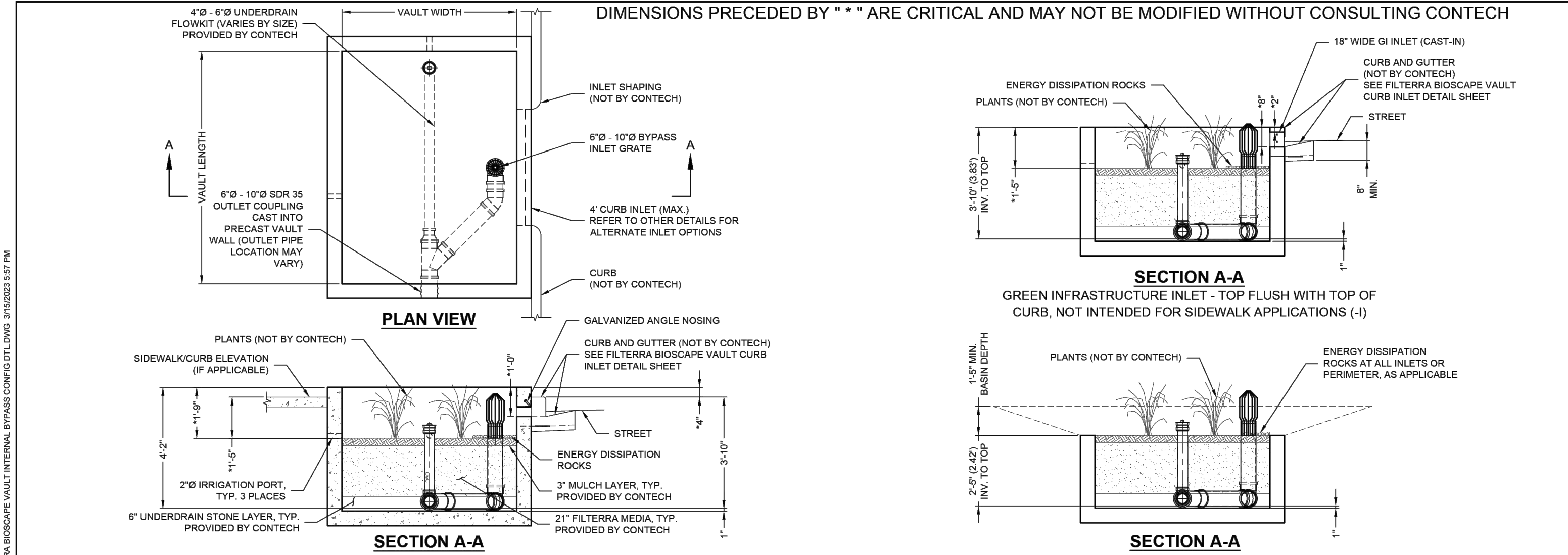
**S 308TH LN & S 309TH ST**

CITY PROJECT #:  
**#36610**

SHT. **20**  
OF **40**

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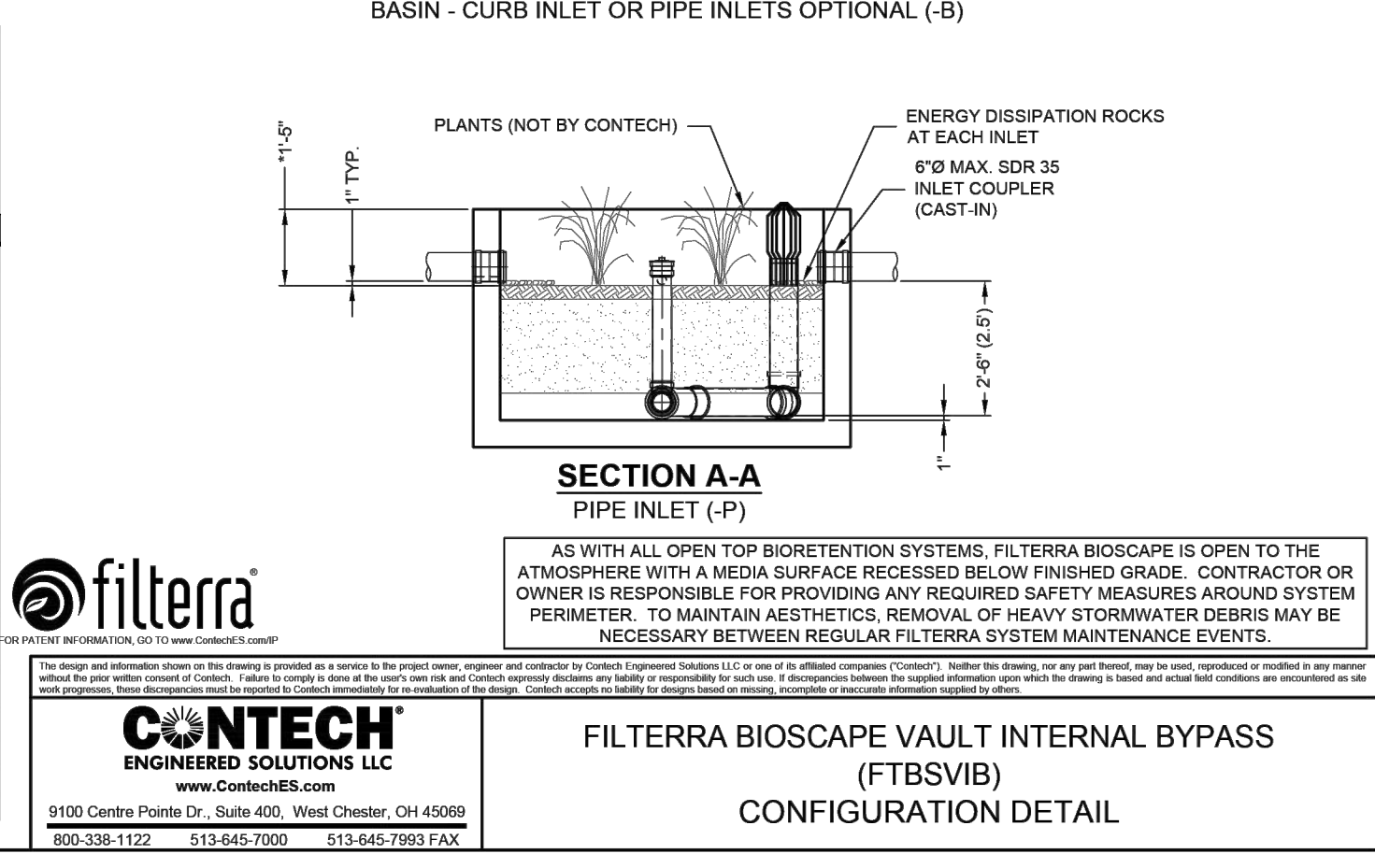




**FTBSVIB CONFIGURATION**  
(OPTIONS: BASIN "B", GREEN INFRASTRUCTURE (GI) INLET "I", PIPE INLET "P", SLOTTED THROAT INLET "T")

VAULT SIZE (L x W)	MEDIA AREA (SF)	LONG SIDE INLET DESIG. / PART NO.	SHORT SIDE INLET DESIG. / PART NO.	AVAILABILITY	MAX. OUTLET / BYPASS PIPE DIA.	MAX. BYPASS FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)	MIN. NO. OF INLET PIPES (-P ONLY)
4 x 4	16	FTBSVIB0404	FTBSVIB0404	ALL	6" SDR 35	1.42	4" SDR 35	1
6 x 4	24	FTBSVIB0604	FTBSVIB0406	ALL	8" SDR 35	1.89	4" SDR 35	1
8 x 4	32	FTBSVIB0804	FTBSVIB0408	ALL (EXCEPT CA, PA, VA, WV)	8" SDR 35	1.89	4" SDR 35	1
7.83 x 4.5	35	FTBSVIB078045	FTBSVIB045078	DE, MD, NJ, PA, VA, WV ONLY	8" SDR 35	1.89	4" SDR 35	1
6 x 6	36	FTBSVIB0606	FTBSVIB0606	ALL (EXCEPT CA, TX)	8" SDR 35	1.89	4" SDR 35	1
8 x 6	48	FTBSVIB0806	FTBSVIB0608	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	4" SDR 35	1
10 x 6	60	FTBSVIB1006	FTBSVIB0610	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35	2
8 x 8	64	FTBSVIB0808	FTBSVIB0808	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
12 x 6	72	FTBSVIB1206	FTBSVIB0612	ALL (EXCEPT TX)	10" SDR 35	2.37	6" SDR 35	2
10 x 8	80	FTBSVIB1008	FTBSVIB0810	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
13 x 7	91	FTBSVIB1307	FTBSVIB0713	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35	2
12 x 8	96	FTBSVIB1208	FTBSVIB0812	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35	2
14 x 8	112	FTBSVIB1408	N/A	ALL (EXCEPT OR, WA)	10" SDR 35	2.37	6" SDR 35	3
16 x 8	128	FTBSVIB1608	N/A	ALL (EXCEPT OR, WA)	10" SDR 35	2.37	6" SDR 35	3
15 x 9	135	FTBSVIB1509	N/A	OR, WA ONLY	10" SDR 35	2.37	6" SDR 35	3
18 x 8	144	FTBSVIB1808	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	3
20 x 8	160	FTBSVIB2008	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	4
22 x 8	176	FTBSVIB2208	N/A	CALL CONTECH	10" SDR 35	2.37	6" SDR 35	4

UTILIZES (2) CURB OPENINGS WITH MIN 1" SPACING  
INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING ON VAULT SIZE

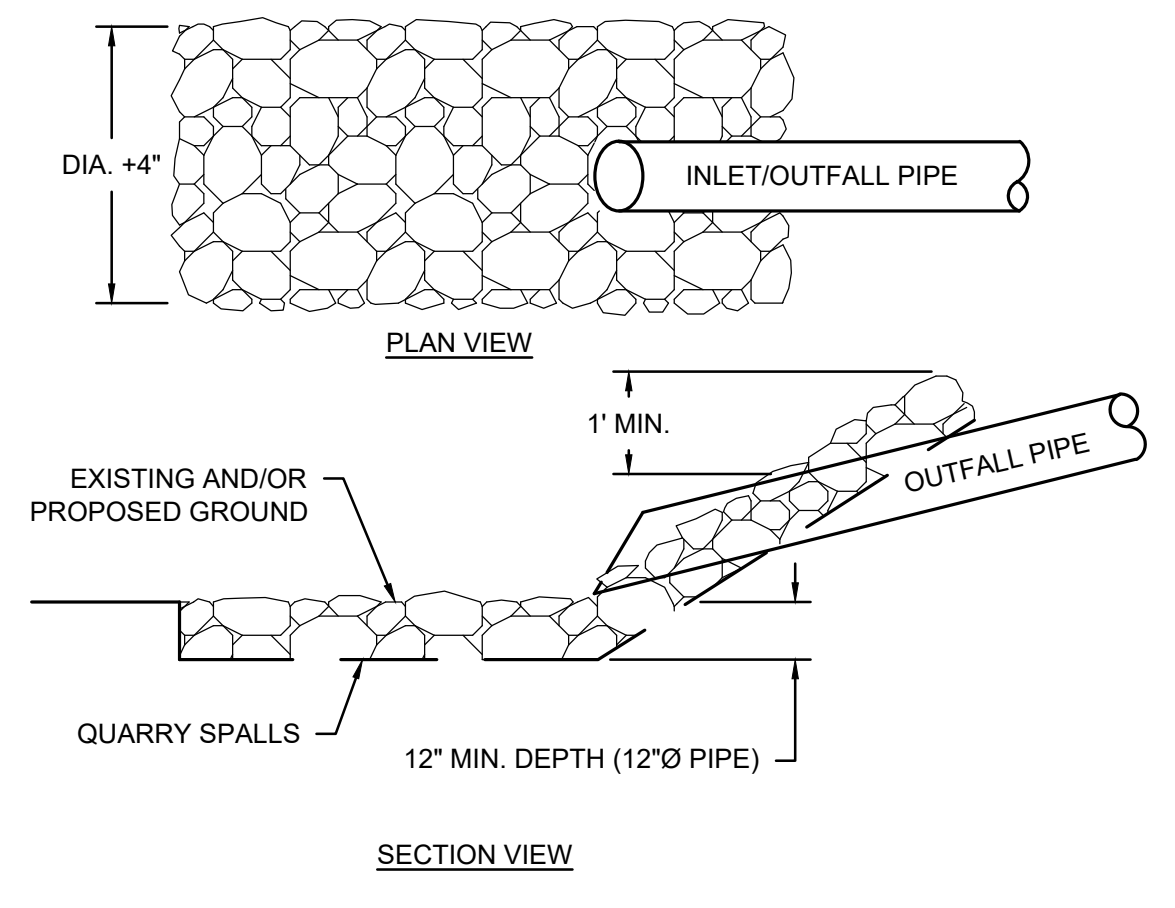


**filterra**  
CONTECH ENGINEERED SOLUTIONS LLC  
www.ContechNES.com  
9100 Cantata Pkwy Dr., Suite 400, West Chester, OH 45380  
930-338-1122 513-645-7000 513-645-7893 FAX

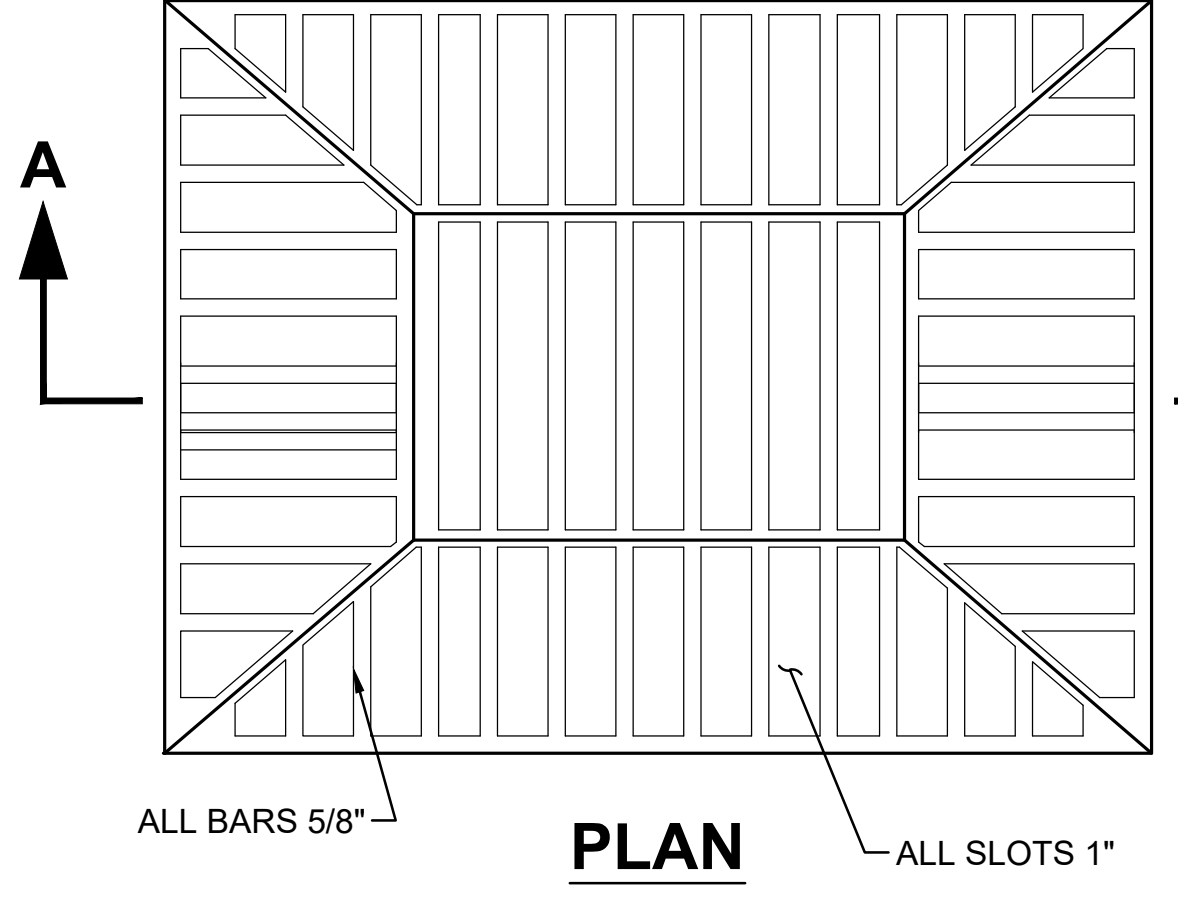
AS WITH ALL OPEN TOP BIORETENTION SYSTEMS, FILTERRA BIOSCAPE IS OPEN TO THE ATMOSPHERE WITH A MEDIA SURFACE RECESSED BELOW FINISHED GRADE. CONTRACTOR OR OWNER IS RESPONSIBLE FOR PROVIDING ANY REQUIRED SAFETY MEASURES AROUND SYSTEM PERIMETER. TO MAINTAIN AESTHETICS, REMOVAL OF HEAVY STORMWATER DEBRIS MAY BE NECESSARY BETWEEN REGULAR FILTERRA SYSTEM MAINTENANCE EVENTS.

**FILTERRA BIOSCAPE VAULT INTERNAL BYPASS (FTBSVIB) CONFIGURATION DETAIL**

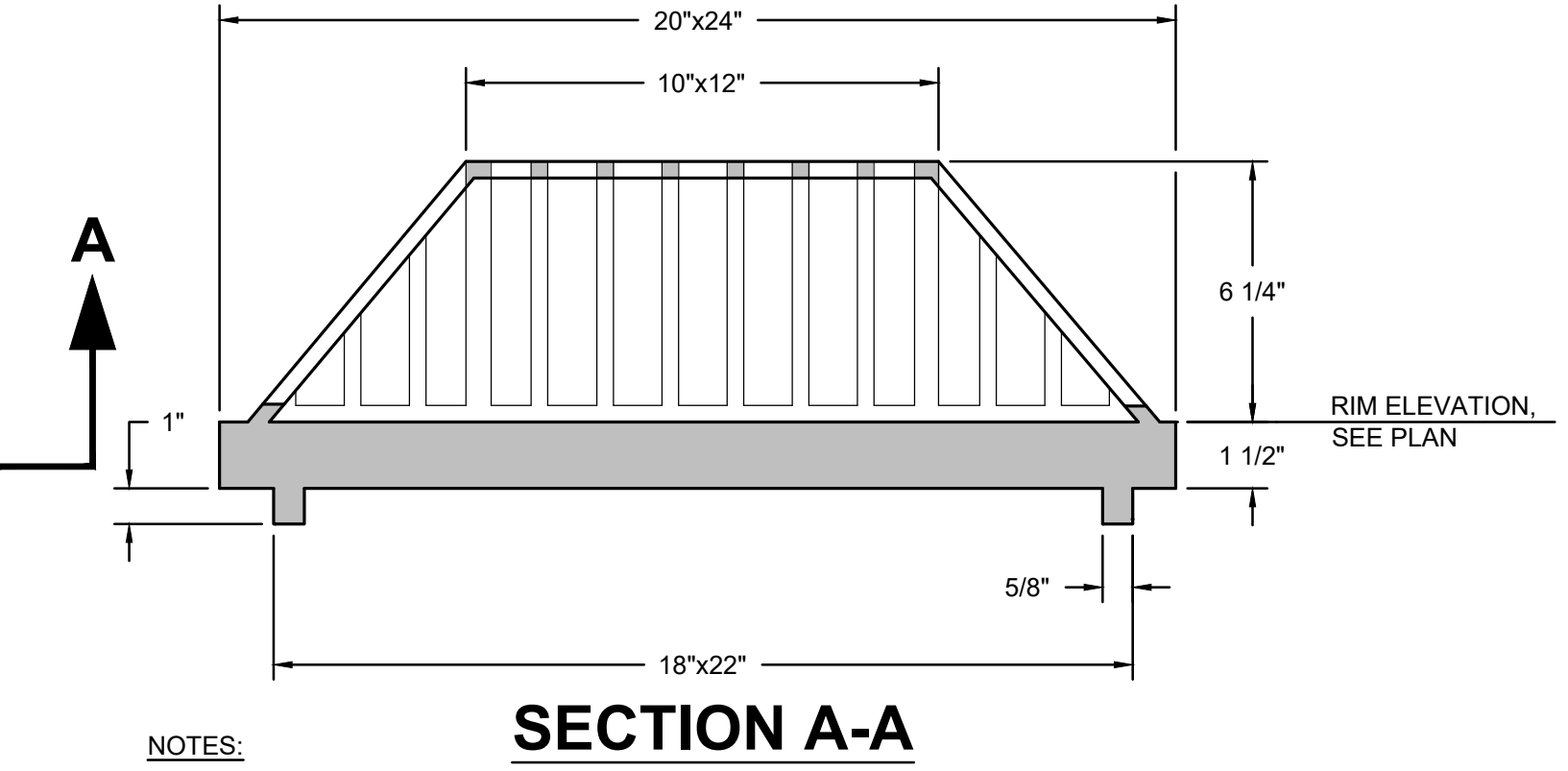
1 FILTERRA WATER QUALITY UNIT  
N.T.S.



2 QUARRY SPALLS  
N.T.S.



3 BEEHIVE GRATE  
N.T.S.



- NOTES:
1. FRAME AND GRATE SHALL BE LOCKING AND GRATE SHALL BE BOLTED TO FRAME. FRAME SHALL CONFORM TO WSDOT STANDARD PLAN B-30.10-01
  2. MATERIAL TO CONFORM TO WSDOT STANDARD SPECIFICATIONS 9-05.15(2).
  3. GRATE SHALL BE LOCKING TYPE.

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DESIGNED: C. HOVDE  
REVIEWED: W. FIERST  
APPROVED:

**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
Professional Engineer  
41503  
05/13/2024

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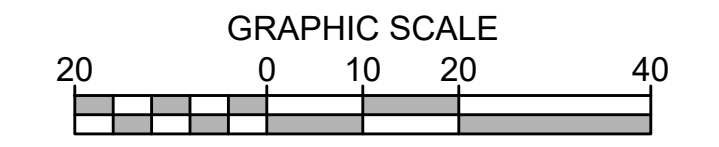
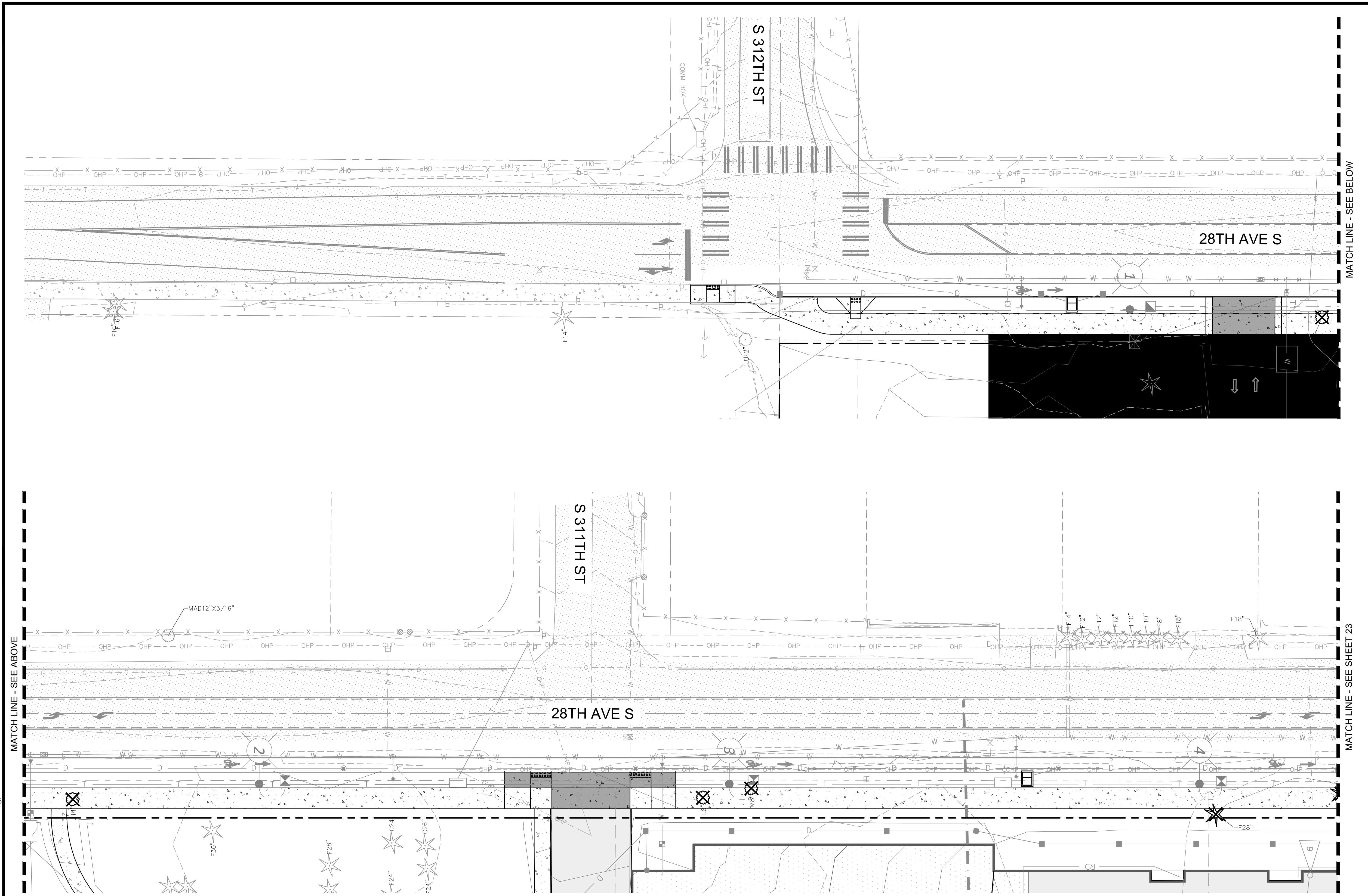
**JOINT O&M FACILITY OFFSITE PLANS**  
**PAVING AND DRAINAGE NOTES & DETAILS**

CITY PROJECT #:  
**#36610**  
SHT. 21  
OF 40

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- LEGEND**
- MATCHLINE
  - - - PROPERTY LINE / RIGHT-OF-WAY
  - \* EXISTING TREES TO REMAIN
  - ⊗ \* EXISTING TREES TO DEMOLISH

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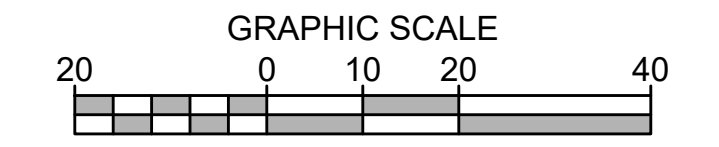
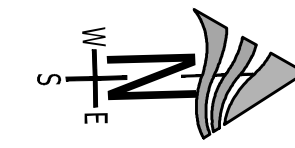
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**JOINT O&M FACILITY OFFSITE PLANS**  
**28TH AVE S TREE RETENTION PLAN**  
 STA 49+00 TO STA 59+00

CITY PROJECT #:  
**#36610**  
 SHT. 22  
 OF 40

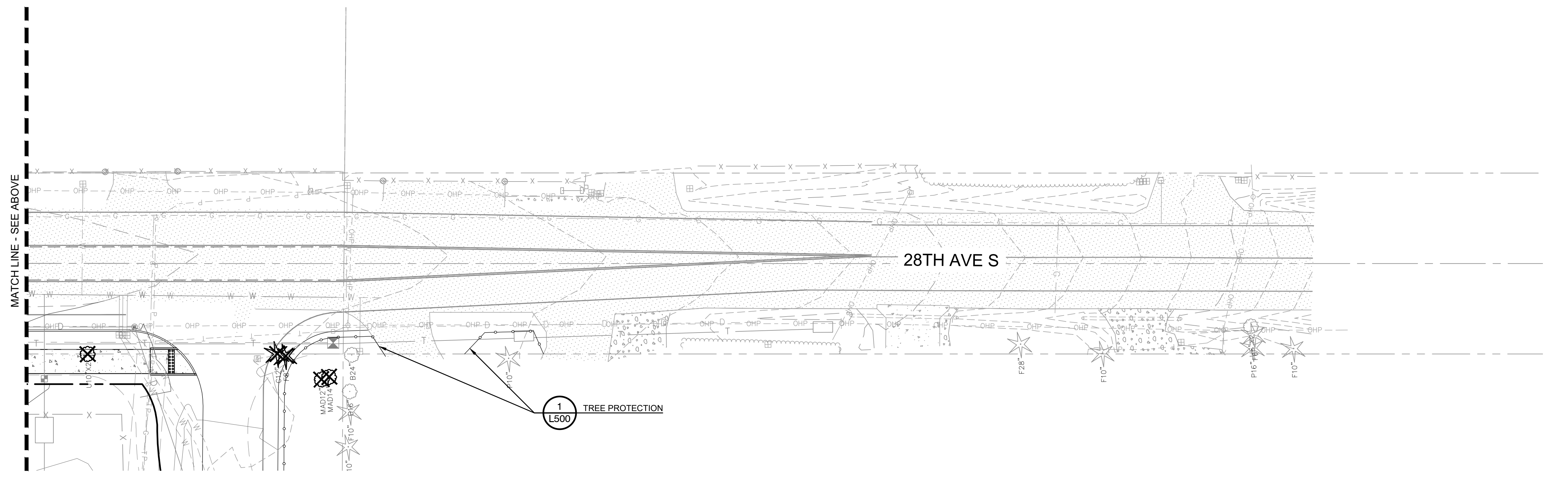
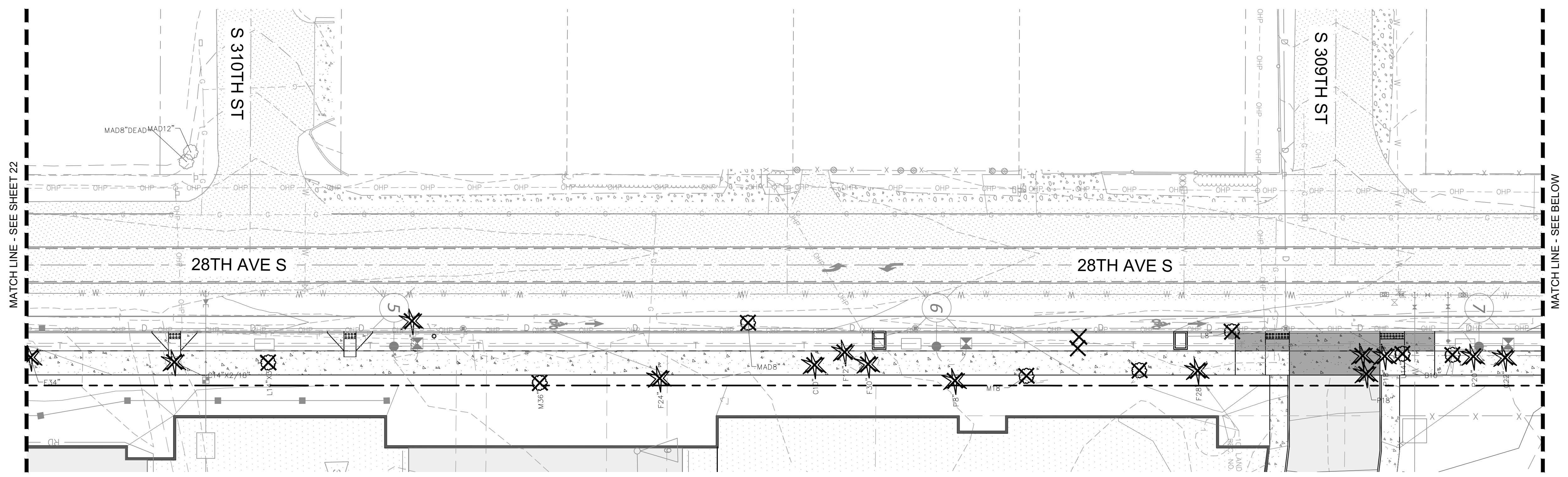
\\arbl.com\data\Projects\2020\2020057240\_LANICAD\2200572-SH-TRE RET-ROW.dwg, 5/13/2024





**LEGEND**

- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING TREES TO REMAIN
- EXISTING TREES TO DEMOLISH



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**JOINT O&M FACILITY OFFSITE PLANS**

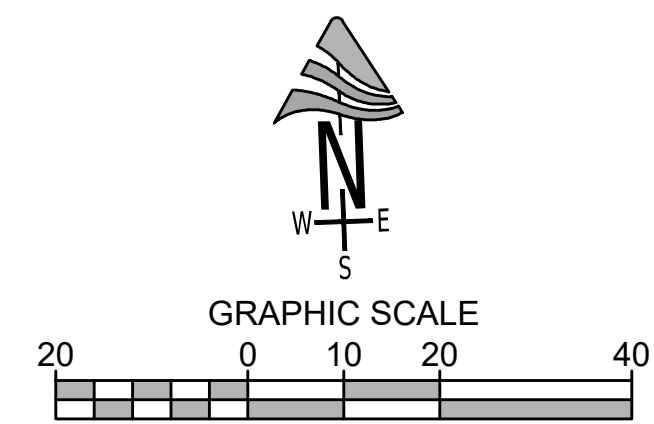
**28TH AVE S TREE RETENTION PLAN**  
 STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**

SHT. **23**  
 OF **40**

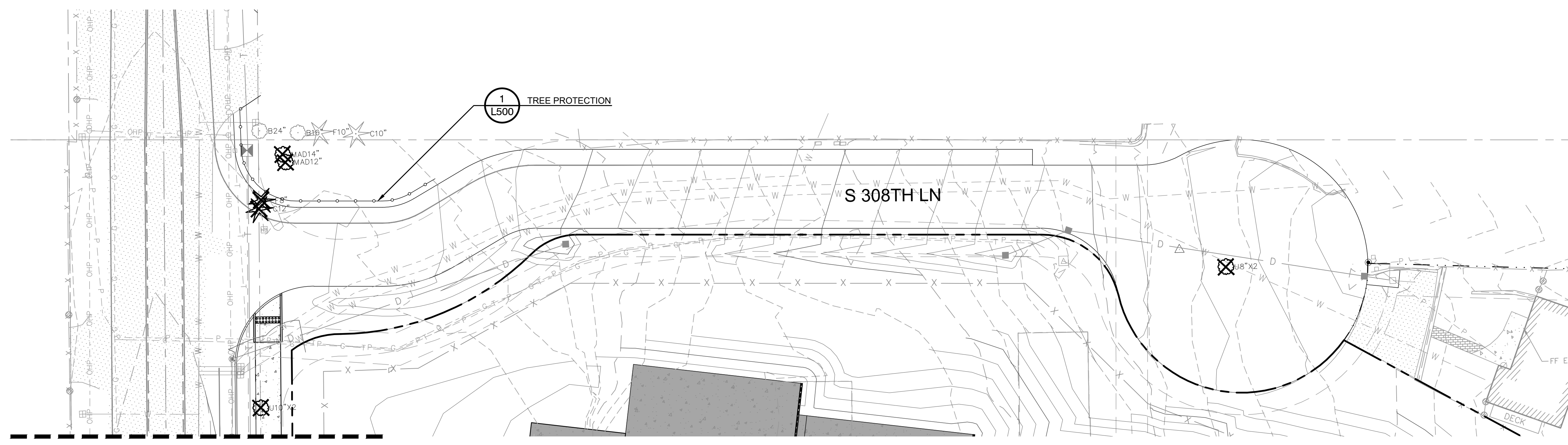
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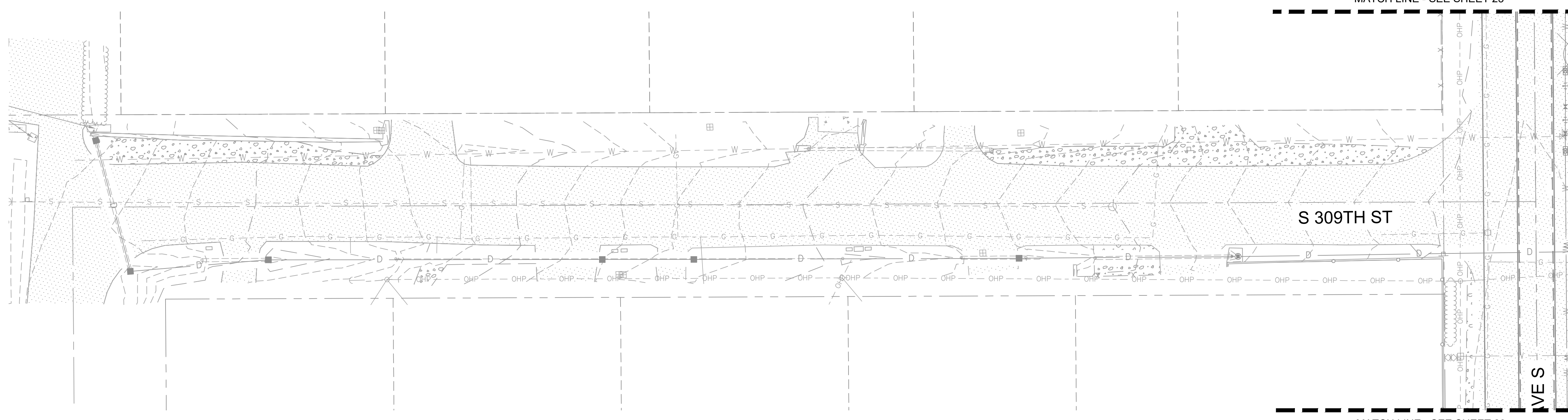
**LEGEND**

- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING TREES TO REMAIN
- EXISTING TREES TO DEMOLISH



MATCH LINE - SEE SHEET 23

MATCH LINE - SEE SHEET 23



MATCH LINE - SEE SHEET 23

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**JOINT O&M FACILITY OFFSITE PLANS**

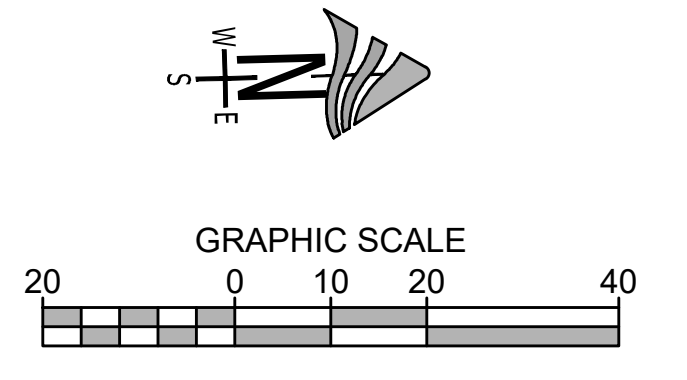
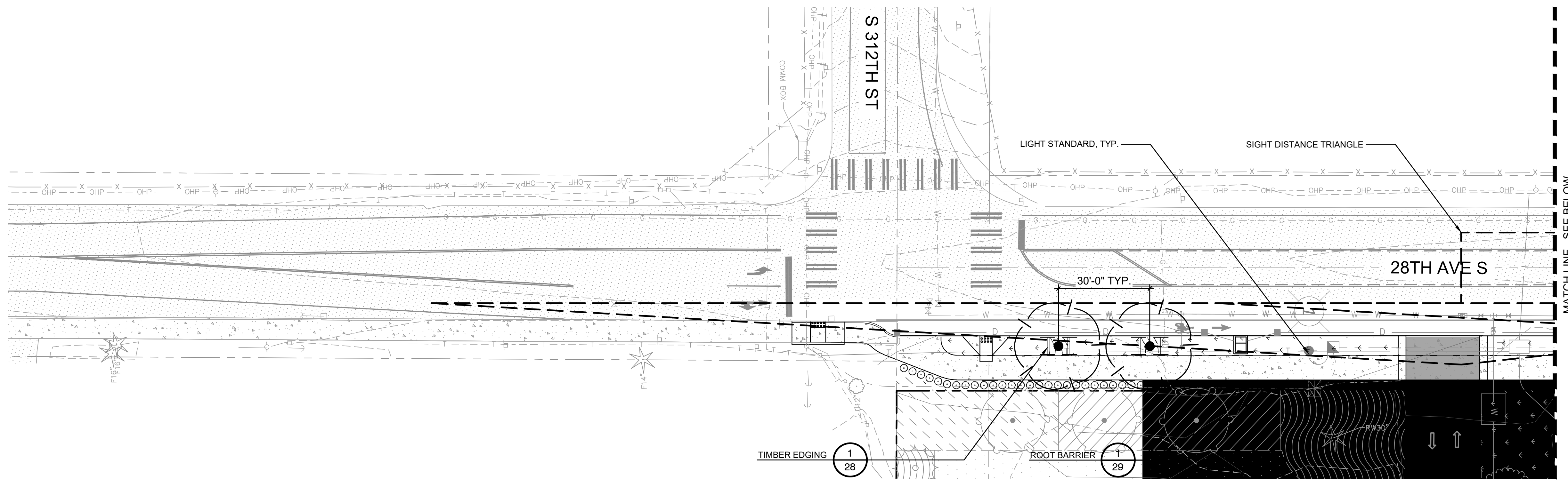
**TREE RETENTION PLAN**  
**S 308TH LN & S 309TH ST**

CITY PROJECT #:  
**#36610**

SHT. **24**  
OF **40**

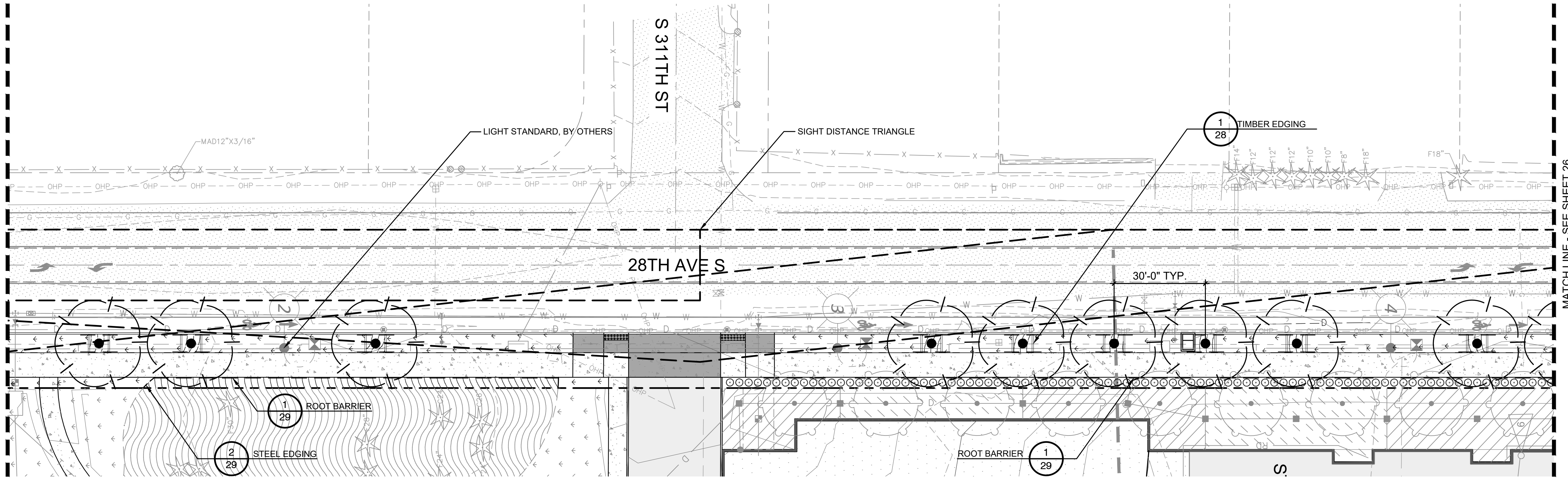
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- LEGEND**
- MATCHLINE
  - - - - - PROPERTY LINE / RIGHT-OF-WAY
  - ★ EXISTING TREES TO REMAIN

- NOTES**
1. PROVIDE TOPSOIL TYPE A.
    - 1.1. 12" DEPTH FOR PLANTINGS.
    - 1.2. 6" DEPTH FOR LAWN.
  2. SEE SHEETS 28 & 29 FOR PLANT SCHEDULE AND DETAILS.



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**JOINT O&M FACILITY OFFSITE PLANS**

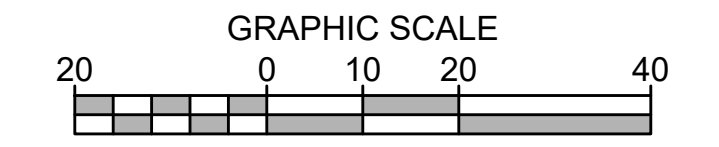
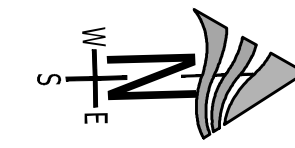
**28TH AVE S PLANTING PLAN**  
 STA 49+00 TO STA 59+00

CITY PROJECT #:  
**#36610**

SHT. **25**  
 OF **40**

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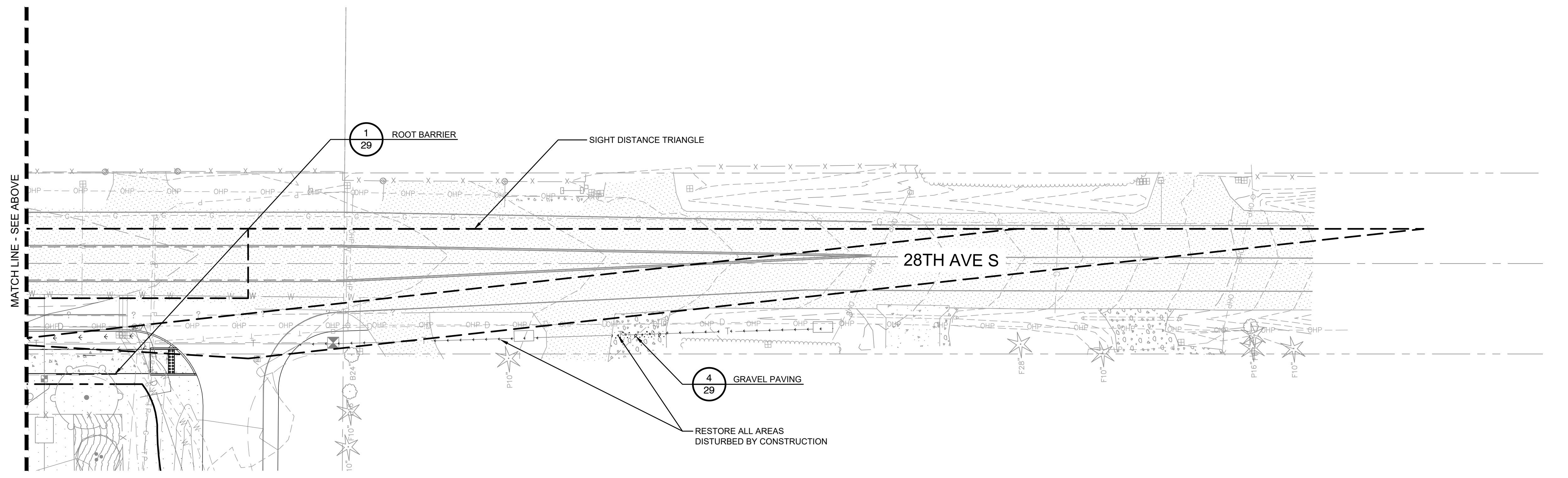
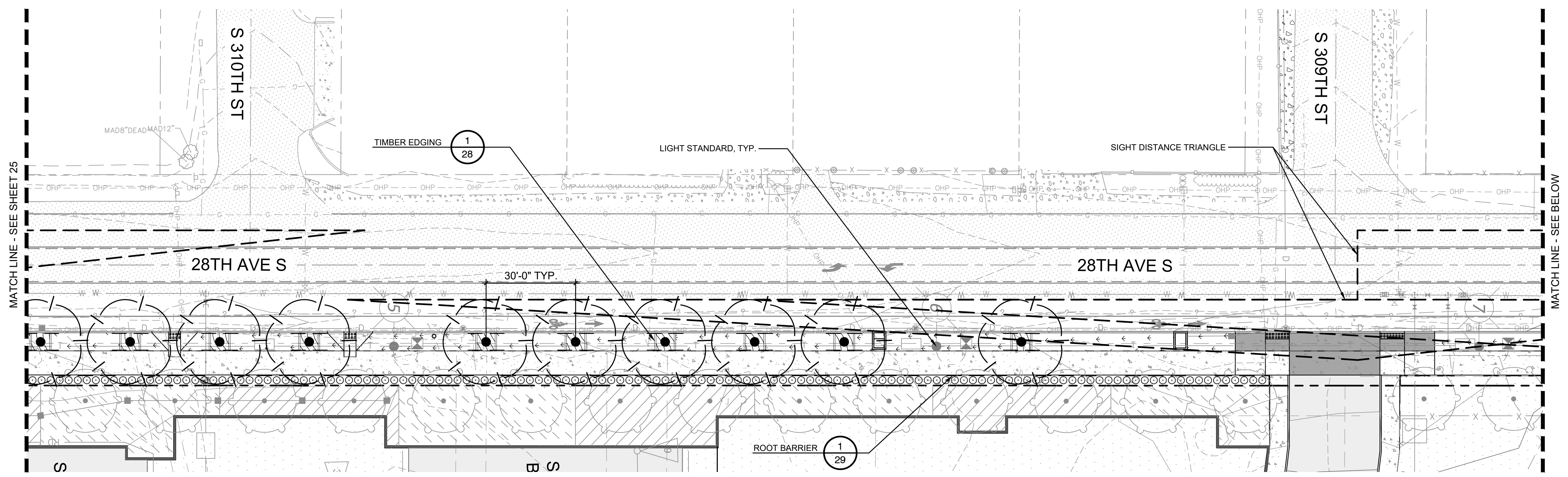


**LEGEND**

- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING TREES TO REMAIN

**NOTES**

1. PROVIDE TOPSOIL TYPE A.
  - 1.1. 12" DEPTH FOR PLANTINGS.
  - 1.2. 6" DEPTH FOR LAWN.
2. SEE SHEETS 28 & 29 FOR PLANT SCHEDULE AND DETAILS.



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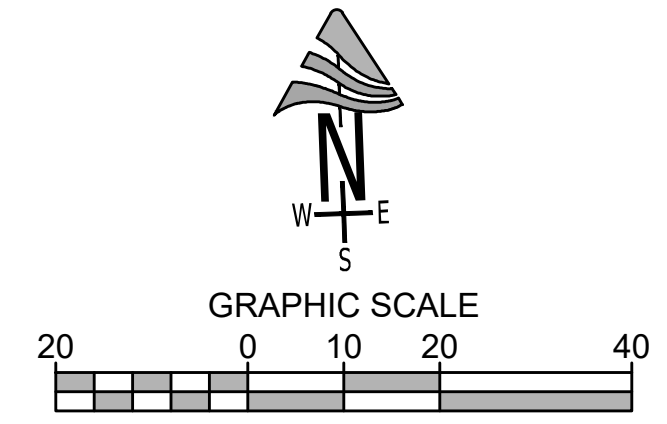
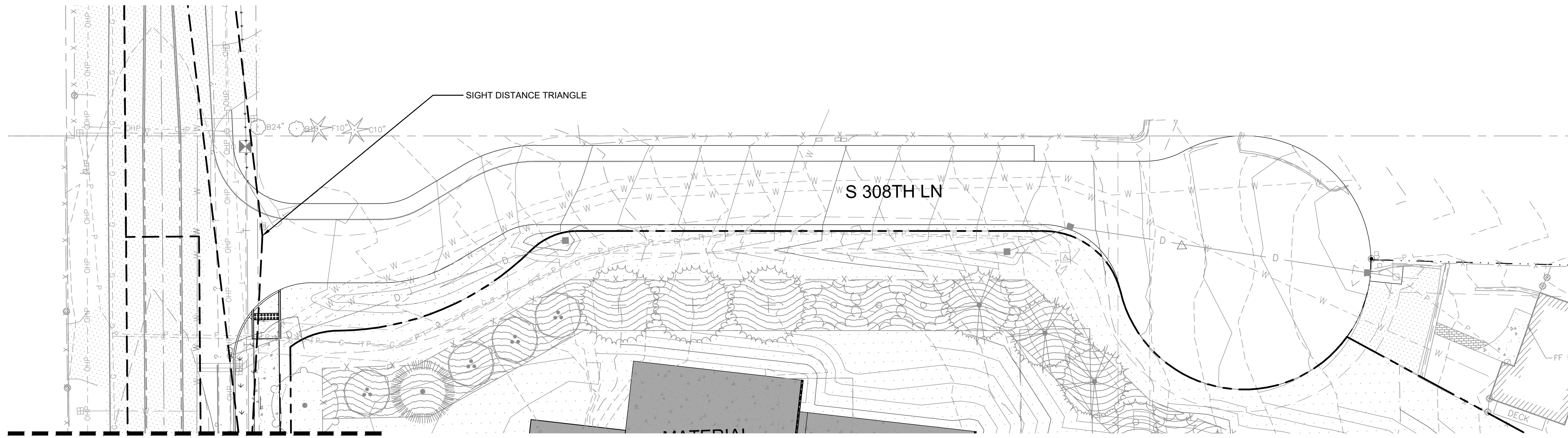
**28TH AVE S PLANTING PLAN**  
 STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**

SHT. **26**  
 OF **40**

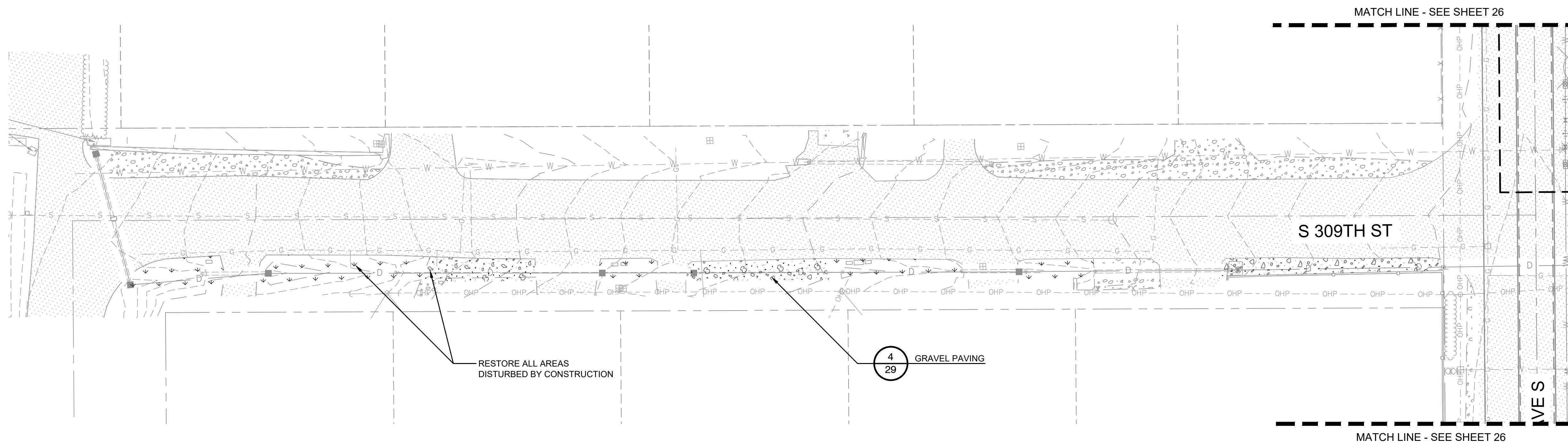
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- LEGEND**
- MATCHLINE
  - - - - - PROPERTY LINE / RIGHT-OF-WAY
  - ★ EXISTING TREES TO REMAIN

- NOTES**
1. PROVIDE TOPSOIL TYPE A.
    - 1.1. 12" DEPTH FOR PLANTINGS.
    - 1.2. 6" DEPTH FOR LAWN.
  2. SEE SHEETS 28 & 29 FOR PLANT SCHEDULE AND DETAILS.
  3. GRAVEL PAVING TO MATCH EXISTING GRAVEL TYPE & SIZE.



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**JOINT O&M FACILITY OFFSITE PLANS**

**PLANTING PLAN**  
**S 308TH LN & S 309TH ST**

CITY PROJECT #:  
**#36610**

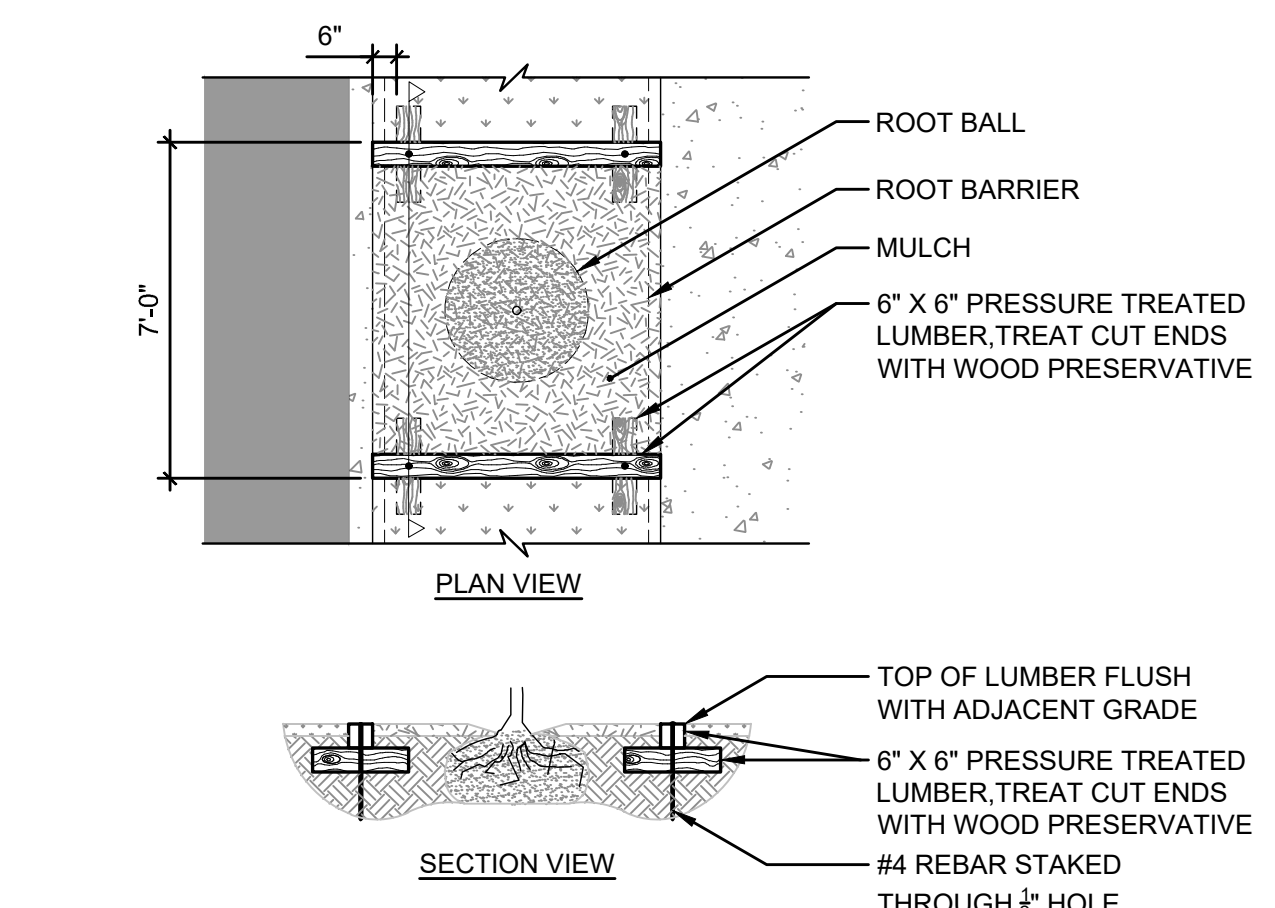
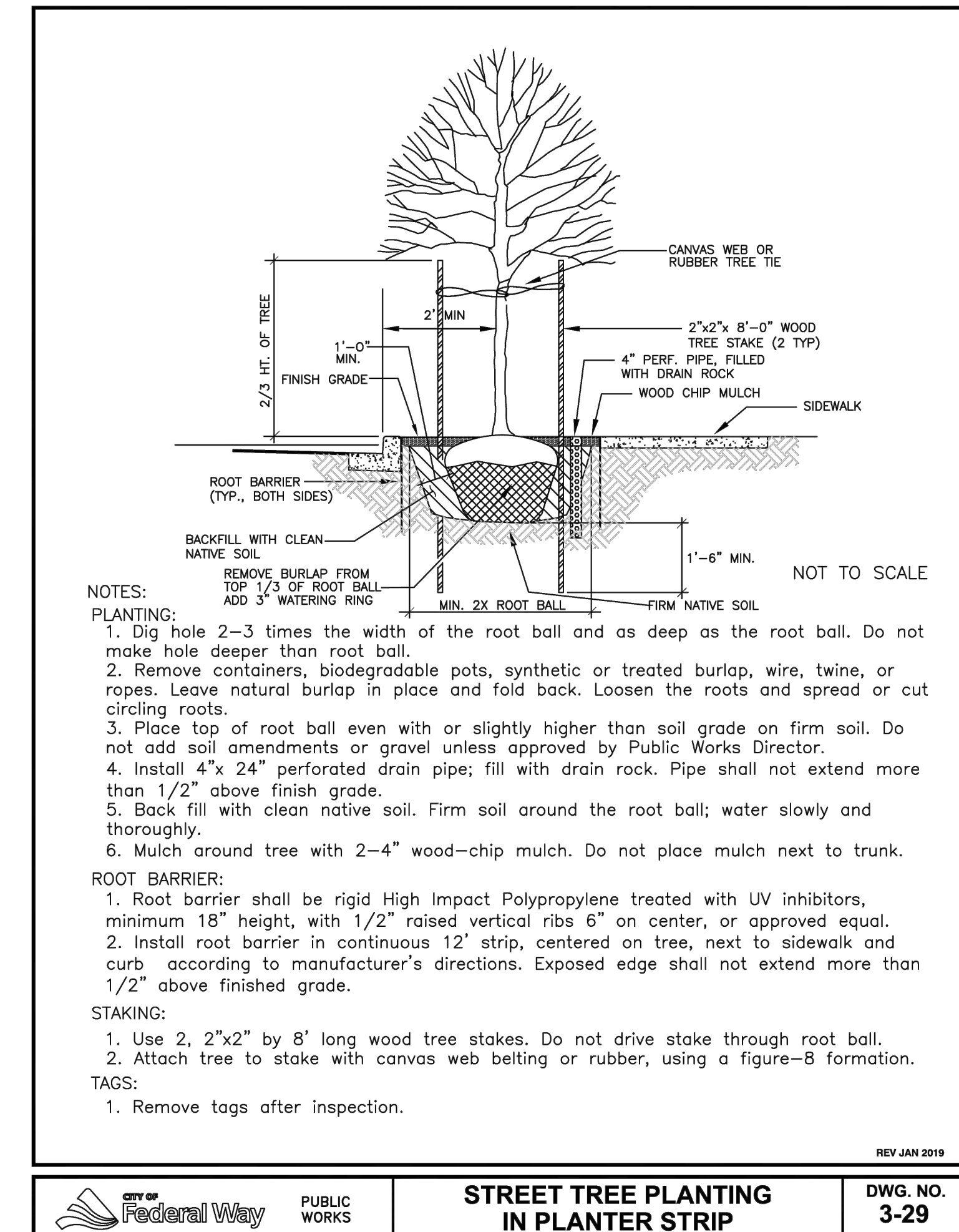
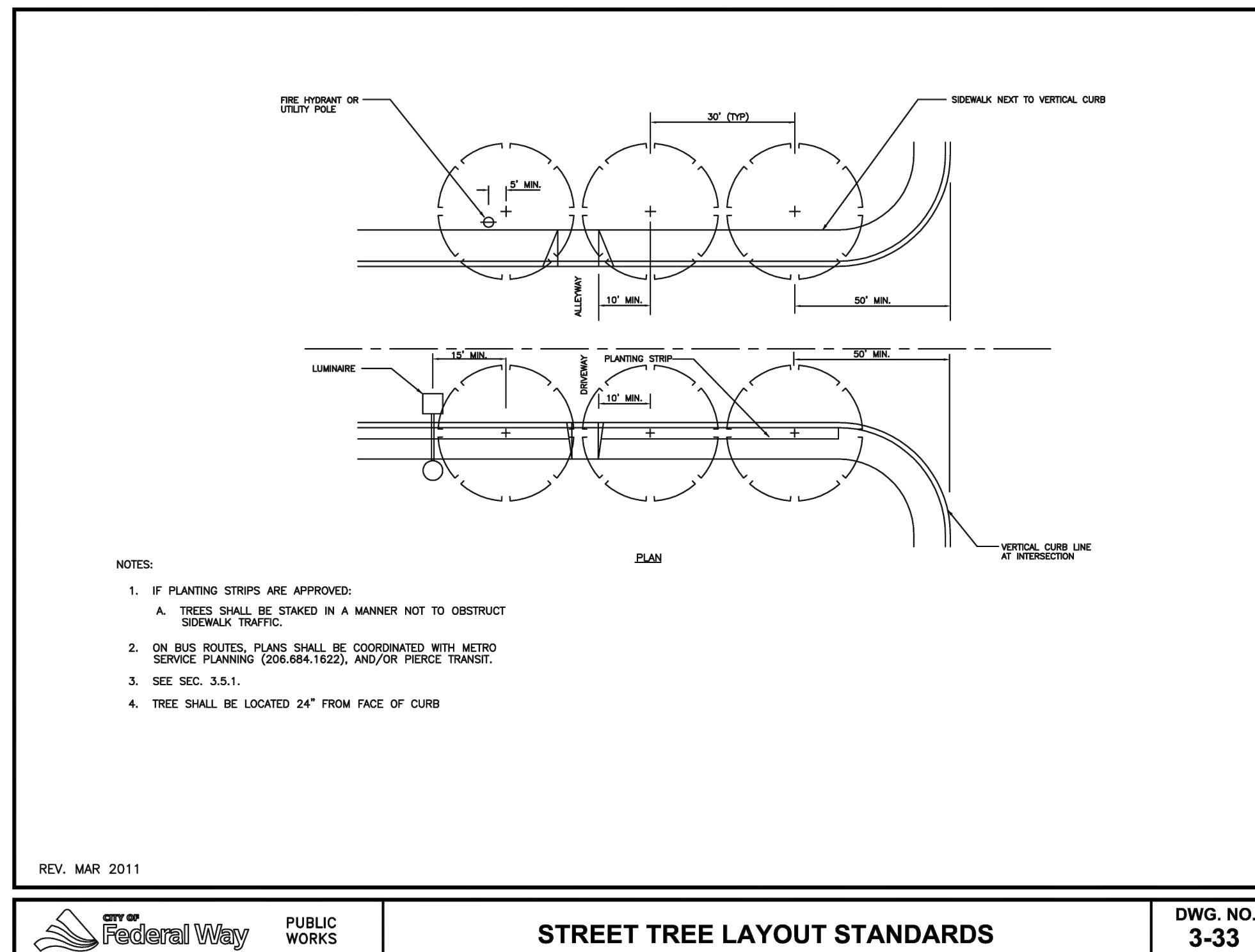
SHT. **25**  
 OF **40**

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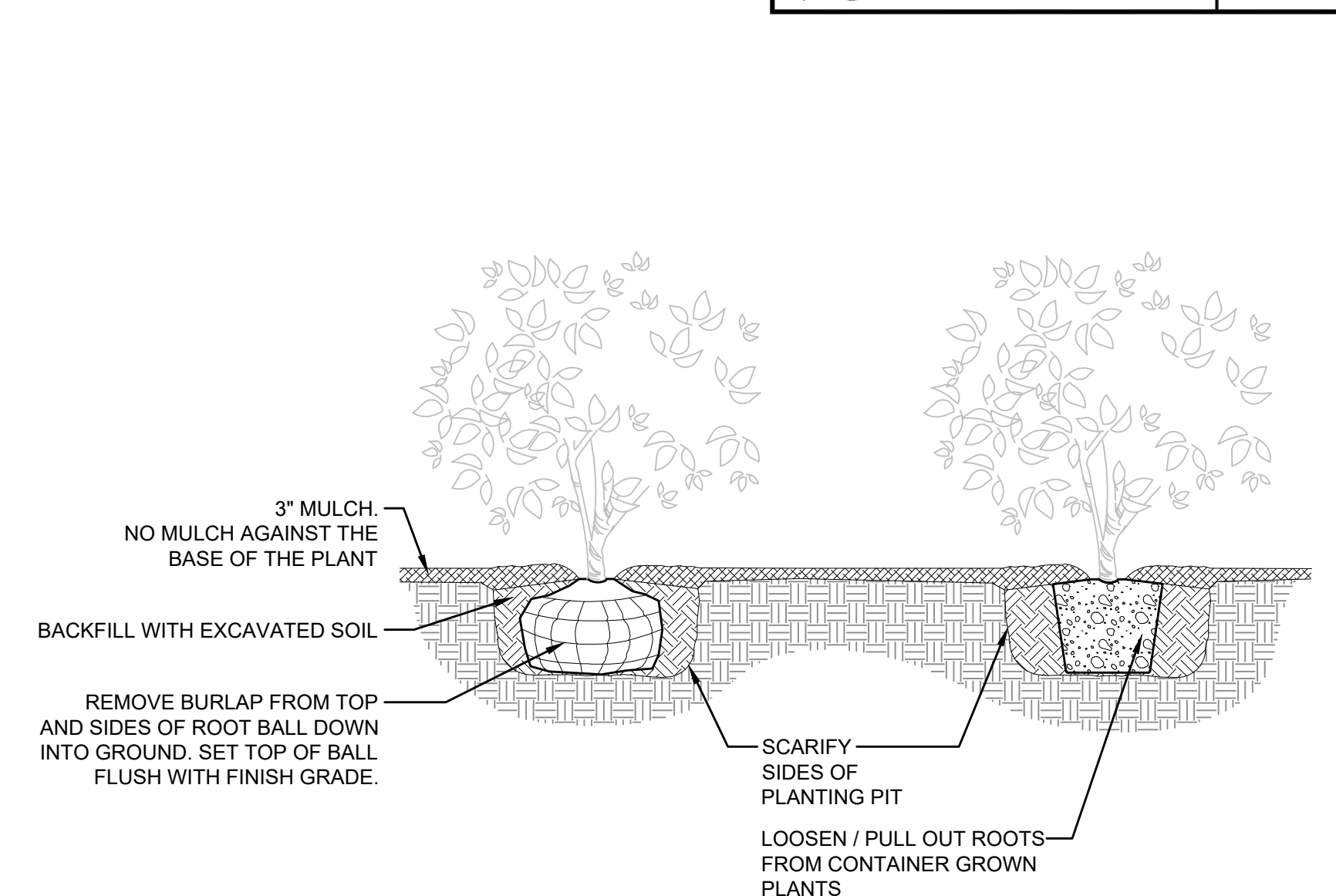


**PLANT SCHEDULE**

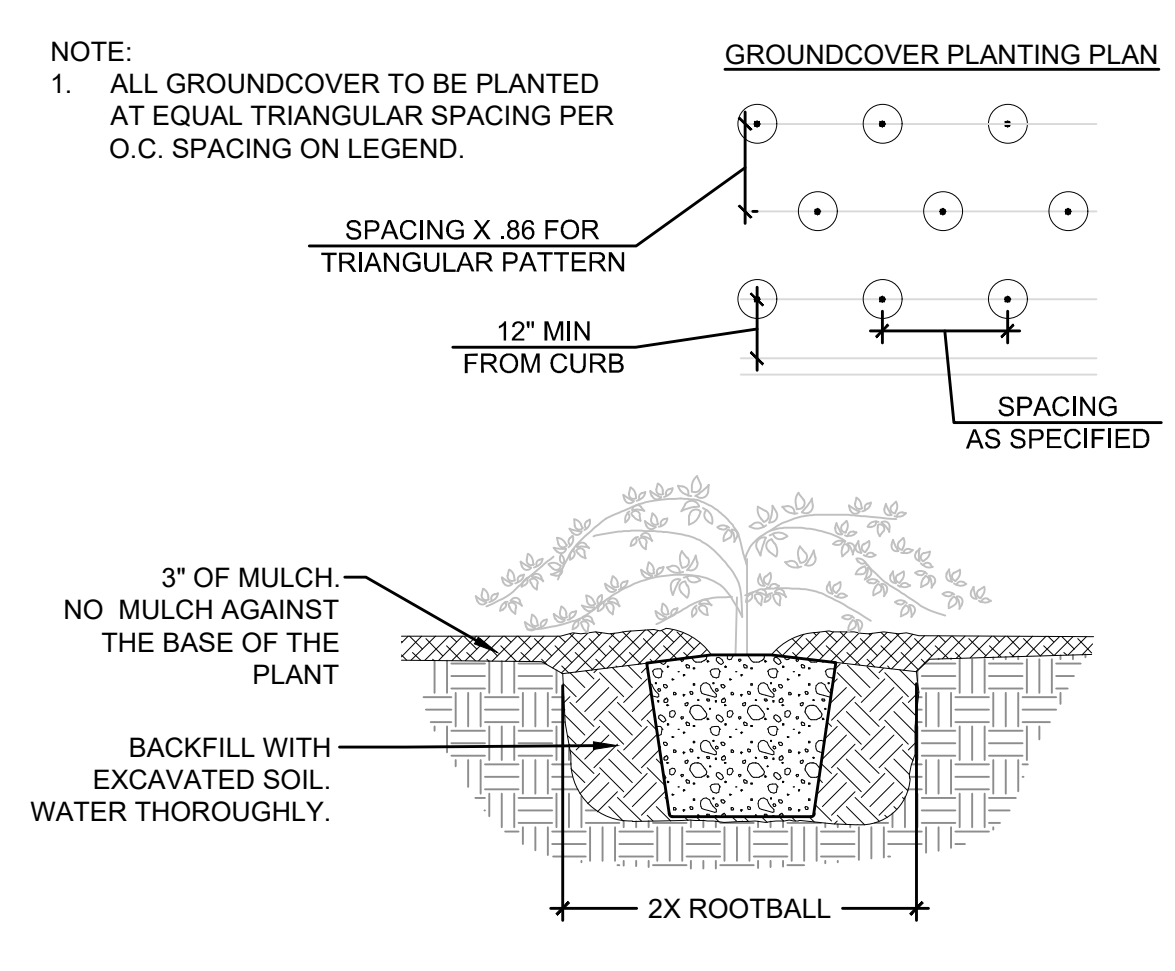
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CALIPER/HEIGHT	QTY
<b>TREES</b>					
	AF	ACER X FREEMANII 'JEFFERSRED'	AUTUMN BLAZE® FREEMAN MAPLE	2.5" CAL	21
<b>SHRUBS</b>					
	CK	CORNUS SERICEA 'KELSEY'	KELSEY'S DWARF RED TWIG DOGWOOD	3 GAL	281
<b>GROUND COVERS</b>					
	FL	FRAGARIA X 'LIPSTICK'	LIPSTICK STRAWBERRY	1 GAL	14
<b>HYDROSEED</b>					
	ML	FLEUR DE LAWN	MEADOW LAWN	HYDROSEED	1,810 SF
	L	LAWN SEED MIX	FINE LAWN	HYDROSEED	7,272 SF
<b>MULCH</b>					
	CR	INORGANIC MULCH	CRUSHED ROCK	3" DEPTH	953 SF
	AM	ORGANIC MULCH	ARBORIST MULCH	4" DEPTH	1,227 SF



**1** **TIMBER EDGING**  
1/4" = 1'-0"  
P-2-FED-91



**2** **SHRUB PLANTING**  
NTS  
P-2-FED-02



**3** **GROUND COVER PLANTING**  
1/2" = 1'-0"  
P-2-FED-11

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APPROVED:

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CRAIG R. SKIPTON  
LANDSCAPE ARCHITECT  
NO. 10000  
EXP. 03/06/2025  
06/13/2024

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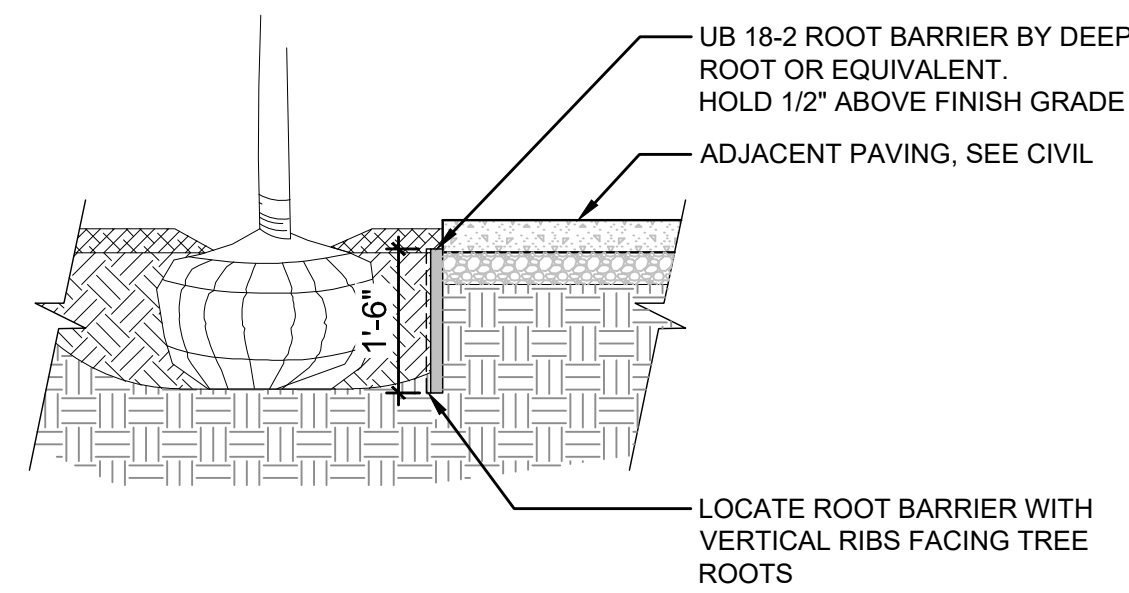
**JOINT O&M FACILITY OFFSITE PLANS**  
**PLANTING LEGEND & DETAILS**

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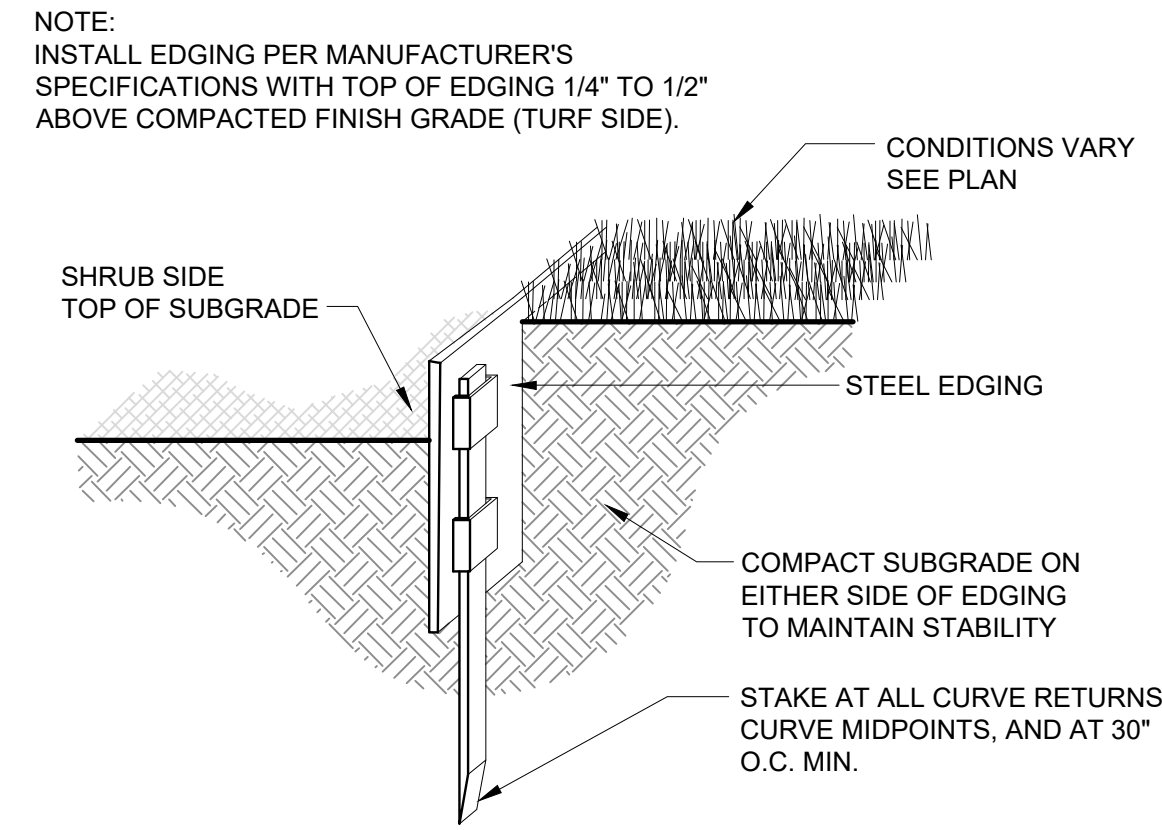
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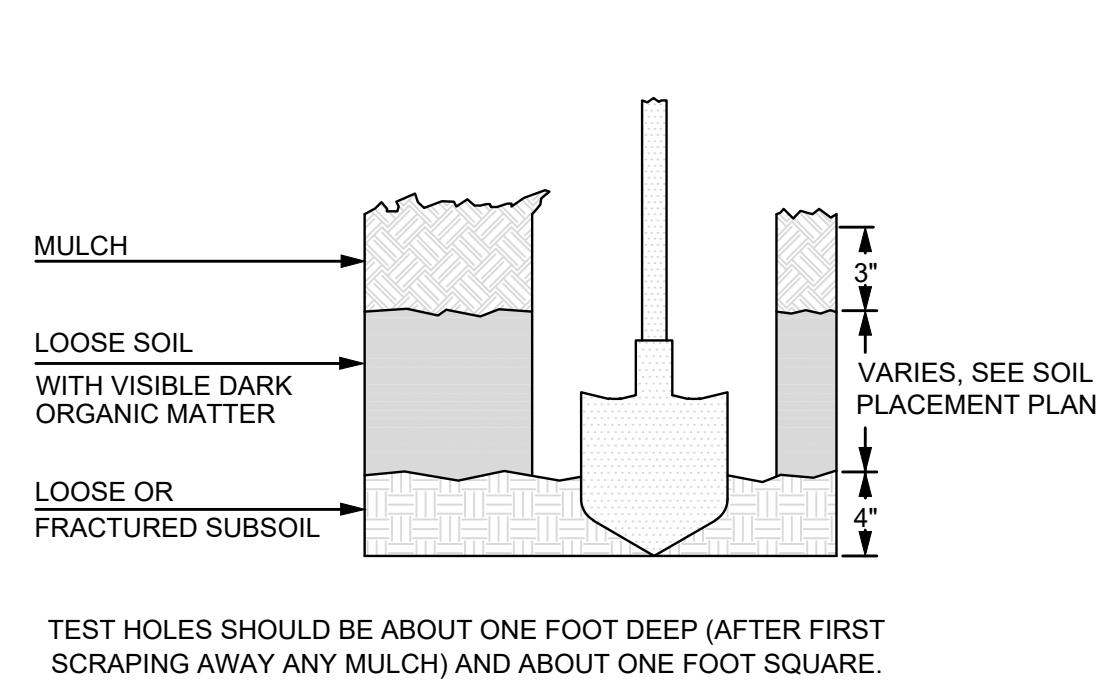
- NOTES:  
 1. SEE PLANTING PLANS FOR LOCATIONS.  
 2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



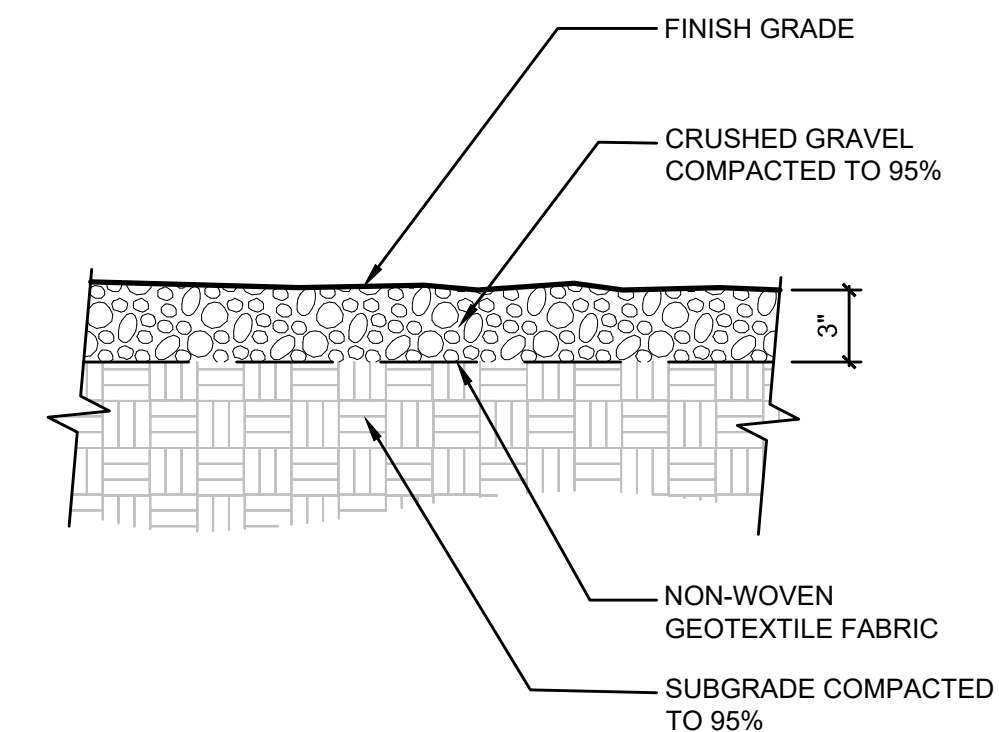
**1 ROOT BARRIER**  
 1/2" = 1'-0" P-2-FED-68



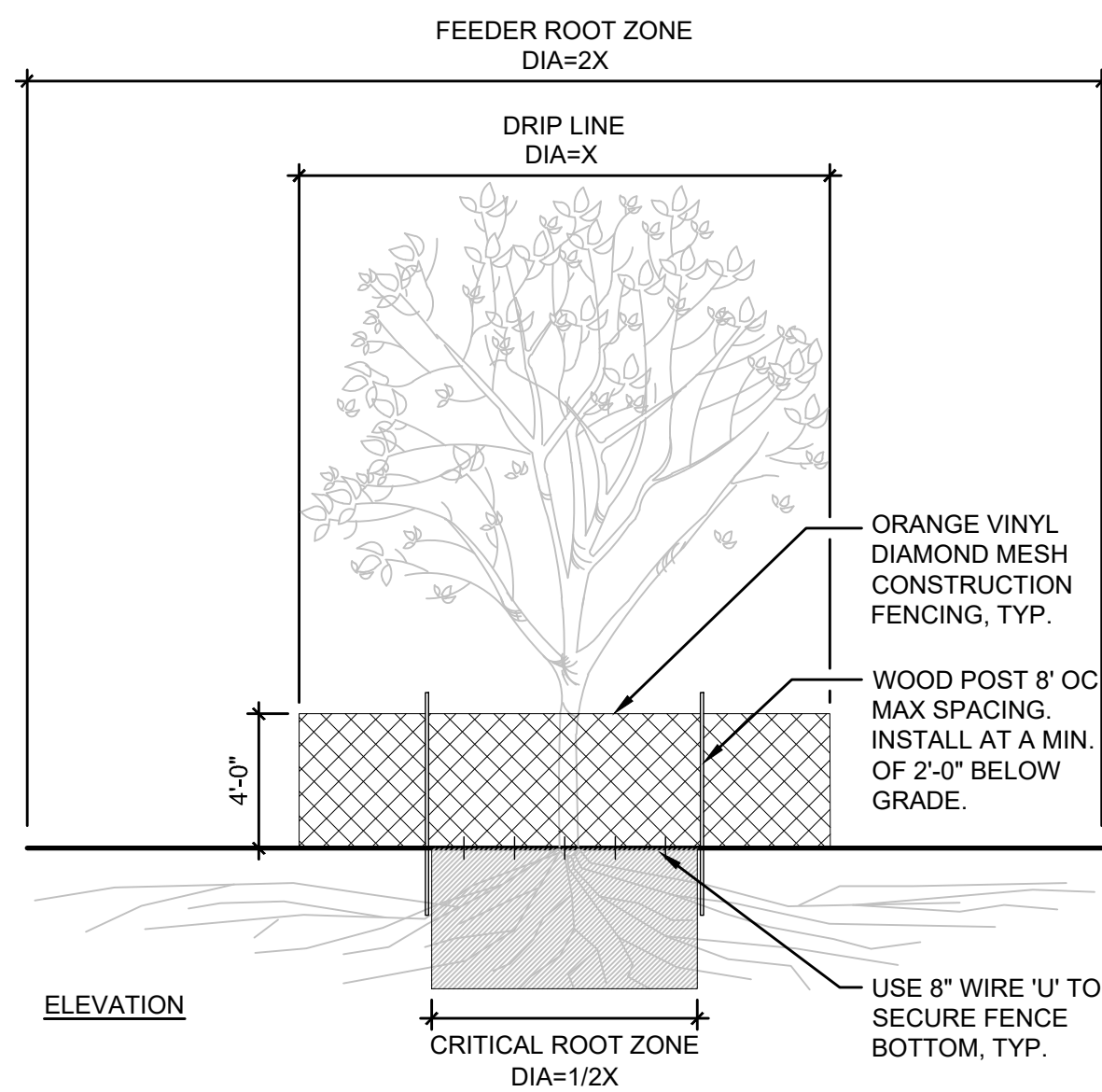
**2 STEEL EDGING**  
 1" = 1'-0" P-2-FED-39



**3 SOIL AMENDMENT**  
 NTS P-2-FED-35



**4 GRAVEL PAVING**  
 NTS P-2-FED-40



**5 TREE PROTECTION**  
 3/16" = 1'-0" P-2-FED-86

**FENCING/ROOT PROTECTION**

- FENCING TO BE PROVIDED AND MAINTAINED AT CANOPY DRIP LINE.
- TREE PROTECTION FENCE SHOULD BE MAINTAINED THROUGHOUT GRADING AND CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL FINAL ACCEPTANCE.
- ALL BRUSH CLEANUP WITHIN DRIP LINE SHOULD BE COMPLETED BY HAND TO PREVENT DISTURBANCE OF NATIVE GROUND COVERS.
- NO WIRES, CABLES, OR OTHER DEVICES SHALL BE ATTACHED TO PROTECTED TREES DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**TRENCHING/EXCAVATION**

- CRITICAL ROOT ZONE**
- NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE.

**DRIP LINE**

- LANDSCAPE ARCHITECT'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN DRIP LINE.
- NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREAS, SUCH AS MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING OR WASHING.
- ANY TRENCHING SUBJECT TO FIELD INSPECTION AND APPROVAL BY LANDSCAPE ARCHITECT.

**FEEDER ROOT ZONE**

- OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO LANDSCAPE ARCHITECT'S APPROVAL.
- MINIMIZE TRENCH WIDTH WHEN USING HEAVY EQUIPMENT. SURFACE PROTECTION\* MEASURES MAY BE REQUIRED.
- LIMIT ANY DISTURBANCE TO MAXIMUM 1/3 OF FEEDER ROOT ZONE.
- IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST.
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS.

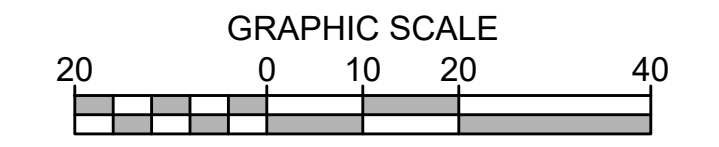
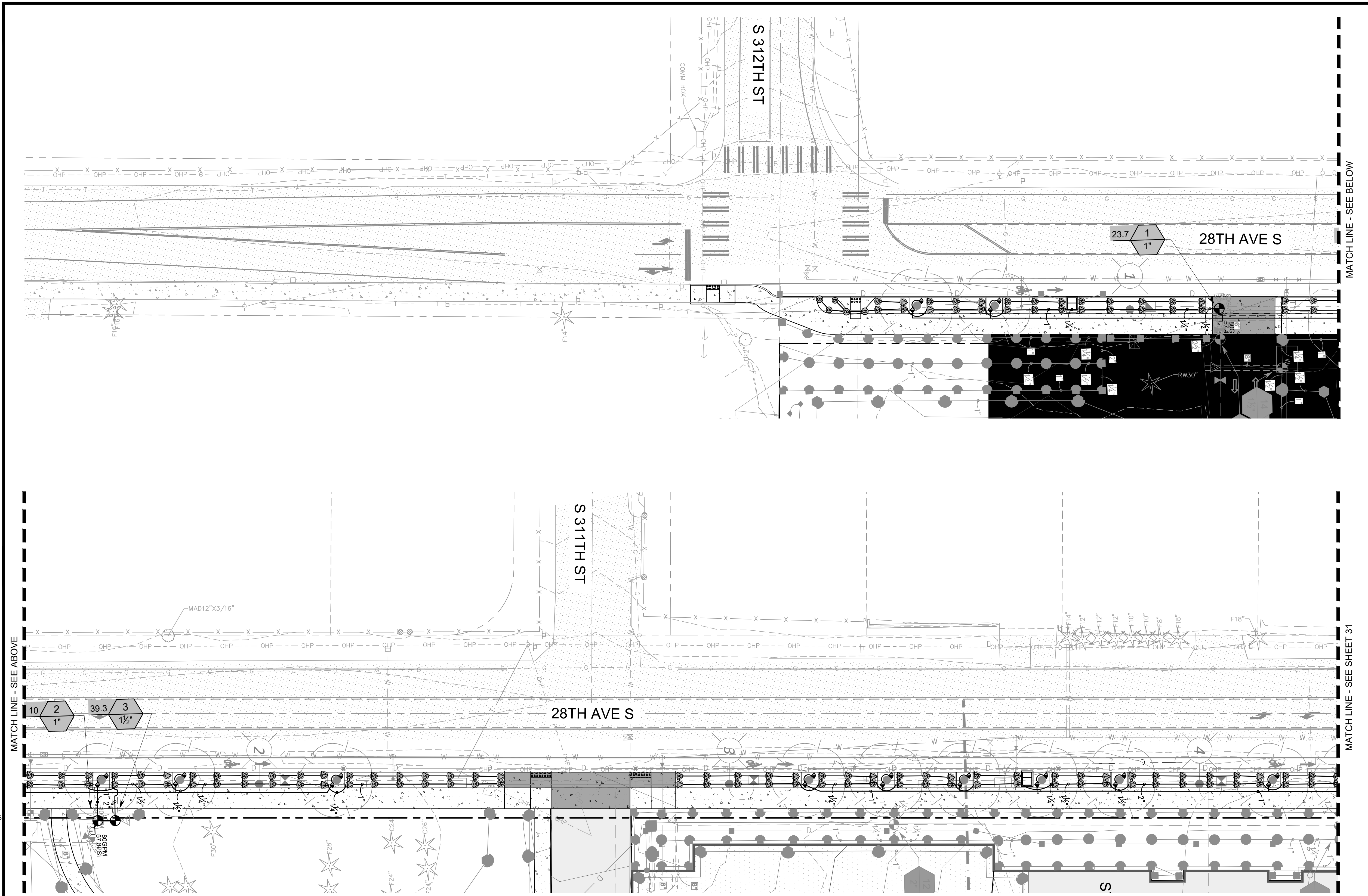
\*SURFACE PROTECTION MEASURES  
 6-8" MULCH LAYER, 3/4" PLYWOOD, OR STEEL PLATES

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**LEGEND**

- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING TREES TO REMAIN

**NOTES**

1. SEE SHEETS 33 FOR IRRIGATION SCHEDULE & DETAILS.
2. SEE ON-SITE PLANS FOR IRRIGATION POINT OF CONNECTION.

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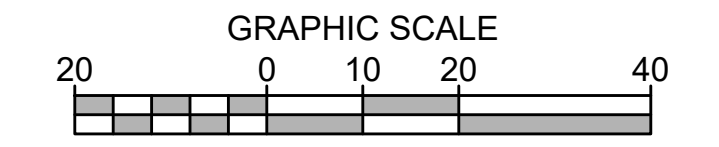
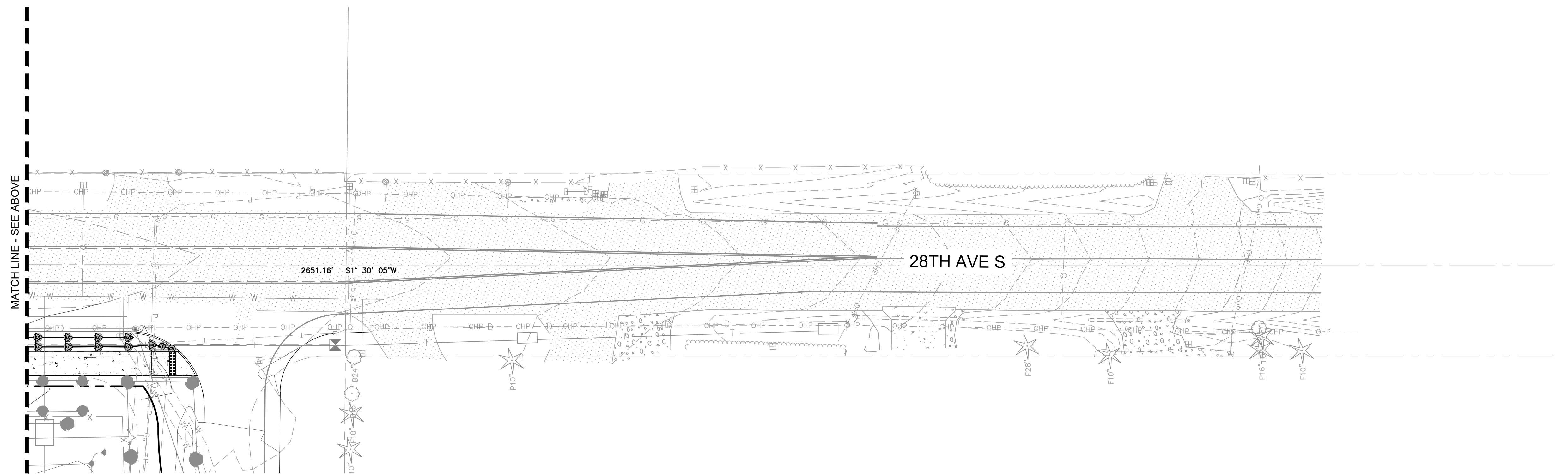
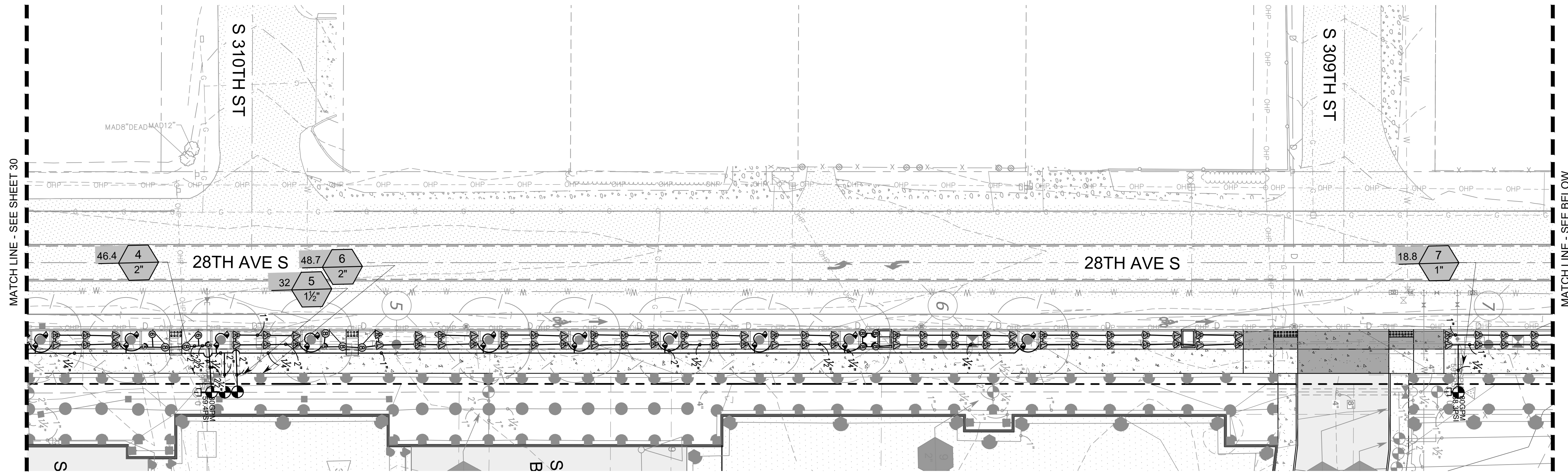
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**JOINT O&M FACILITY OFFSITE PLANS**  
**28TH AVE S IRRIGATION PLAN**  
 STA 49+00 TO STA 59+00

CITY PROJECT #:  
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**LEGEND**

- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- EXISTING TREES TO REMAIN

**NOTES**

1. SEE SHEETS 33 FOR IRRIGATION SCHEDULE & DETAILS.
2. CONTRACTOR TO HAND WATER LAWN RESTORATION AREAS NORTH OF S 308TH LANE UNTIL FULLY ESTABLISHED.
3. SEE ON-SITE PLANS FOR IRRIGATION POINT OF CONNECTION.

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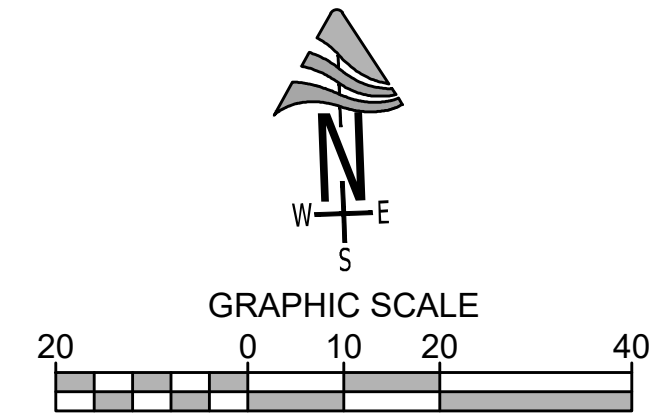
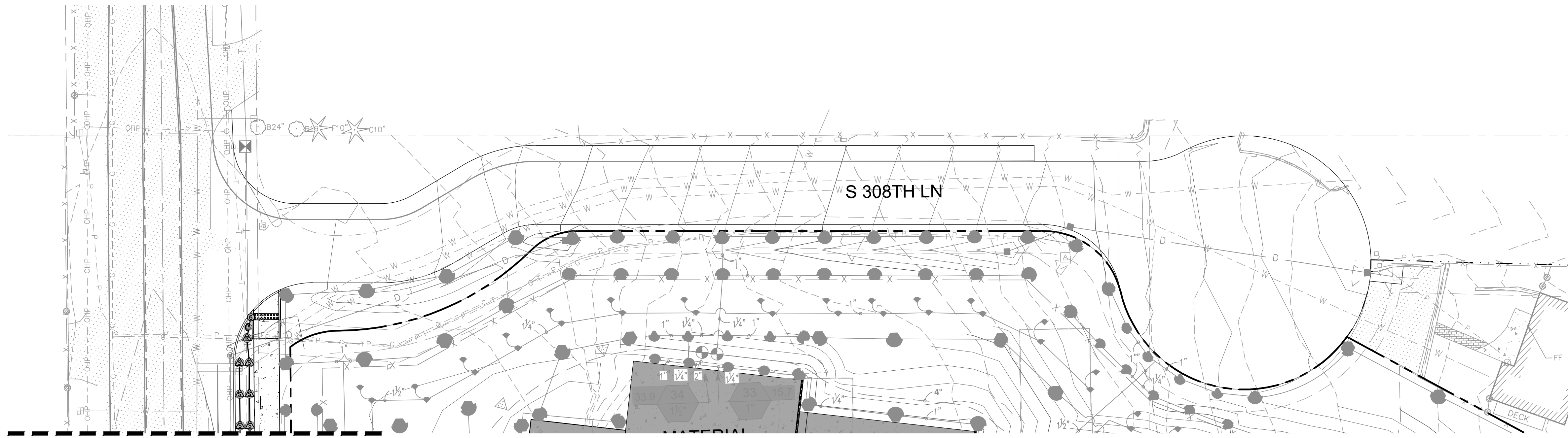
**28TH AVE S IRRIGATION PLAN**  
 STA 59+00 TO STA 64+00

CITY PROJECT #:  
**#36610**

SHT. 31  
 OF 40

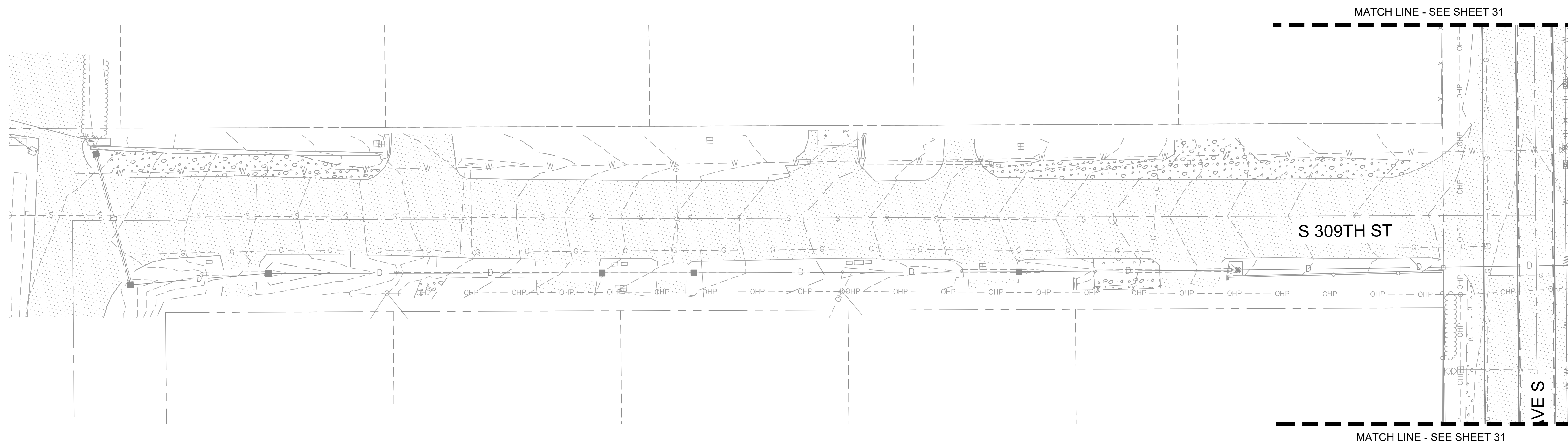
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- LEGEND**
- MATCHLINE
  - - - - - PROPERTY LINE / RIGHT-OF-WAY
  - ★ EXISTING TREES TO REMAIN

- NOTES**
1. SEE SHEETS 33 FOR IRRIGATION SCHEDULE & DETAILS.
  2. CONTRACTOR TO HAND WATER LAWN RESTORATION AREAS ALONG S 308TH STREET UNTIL FULLY ESTABLISHED.
  3. SEE ON-SITE PLANS FOR IRRIGATION POINT OF CONNECTION.



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STATE OF WASHINGTON  
CRAIG R. SKIPTON  
LANDSCAPE ARCHITECT  
NO. 10000  
EXP. 03/09/2024  
0913120024

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**JOINT O&M FACILITY OFFSITE PLANS**

**IRRIGATION PLAN**  
S 308TH LN & S 309TH ST

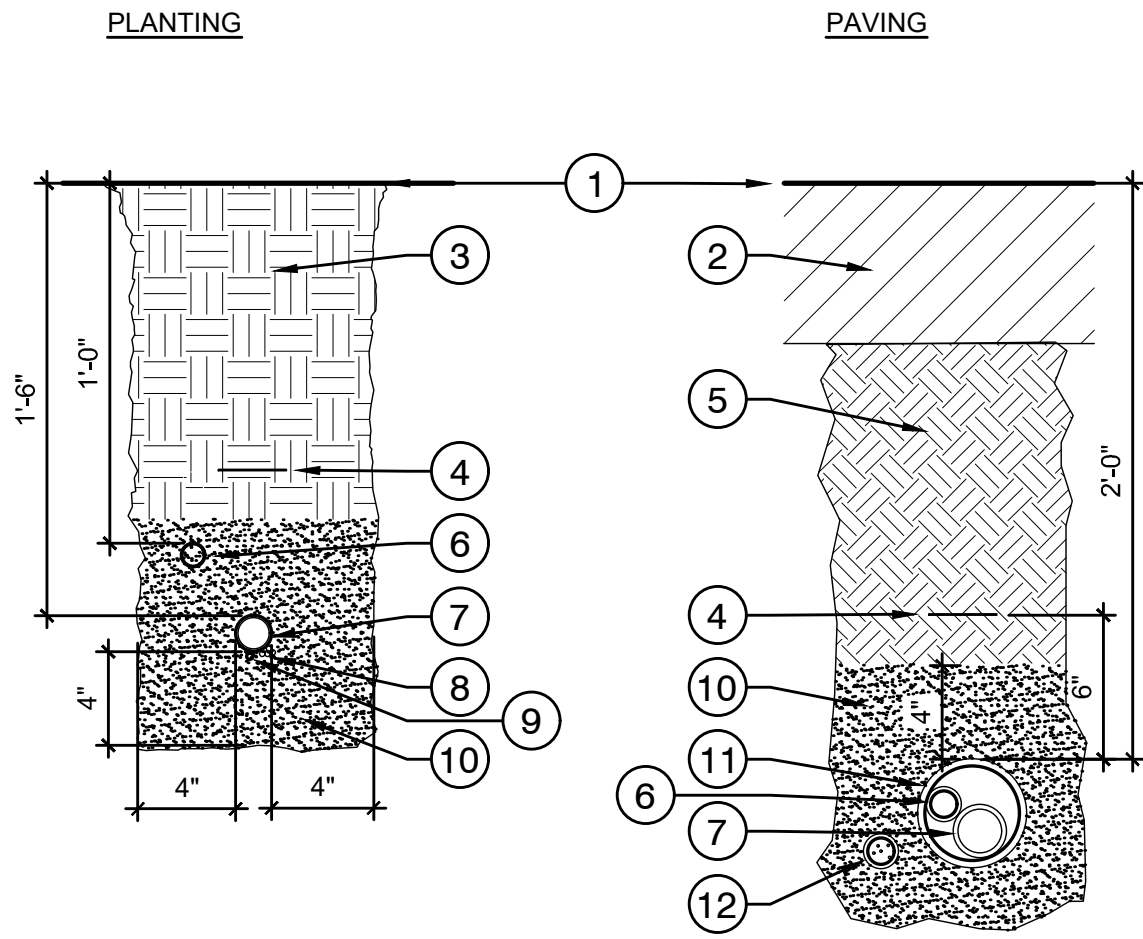
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- NOTES:**
- DIMENSIONS ARE MINIMUM CLEARANCES.
  - ALL TRENCH BACKFILL MATERIAL SHALL BE CLEAN IMPORTED SAND.
  - DO NOT TAPE OR BUNDLE WIRES IN SLEEVES.
  - ALL SLEEVES TO BE TWICE THE SIZE OF THE COMBINED PIPES INSIDE.
  - SLEEVES REQUIRED UNDER ALL PAVED AREAS AND WALLS.
  - SLEEVE TO EXTEND 18" BEYOND THE EDGE OF PAVING ON BOTH SIDES.
  - INSTALL TRACER WIRE WITH MAIN LINE.



- LEGEND**
- FINISH GRADE
  - PAVING, SEE CIVIL PLAN
  - PLANTING SOIL
  - DETECTABLE WARNING TAPE 6" ABOVE ALL MAIN LINE
  - 95% COMPACTED STRUCTURAL FILL
  - LATERAL LINE
  - MAIN LINE
  - CONTROL WIRES
  - TRACER WIRE
  - CLEAN SAND
  - SLEEVE
  - ELECTRICAL SLEEVE

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
EST LCS RCS CST SST	RAIN BIRD 1804-SAM-PRS 15 STRIP SERIES TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30
Q H F	RAIN BIRD 1804-SAM-PRS 5 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30
Q T H F	RAIN BIRD 1804-SAM-PRS 8 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30
4 8 10 12 15 18	RAIN BIRD 1804-SAM-PRS ADJ TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30
1401 1402 1404 1408	RAIN BIRD RWS-B-C 1400 SERIES ROOT WATERING SYSTEM WITH 4.0IN. DIAMETER X 36.0IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, AND CHECK VALVE. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
(Valve Symbol)	RAIN BIRD PEB 1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	
---	IRRIGATION MAINLINE: PVC SCHEDULE 40	
---	PIPE SLEEVE: PVC SCHEDULE 40	

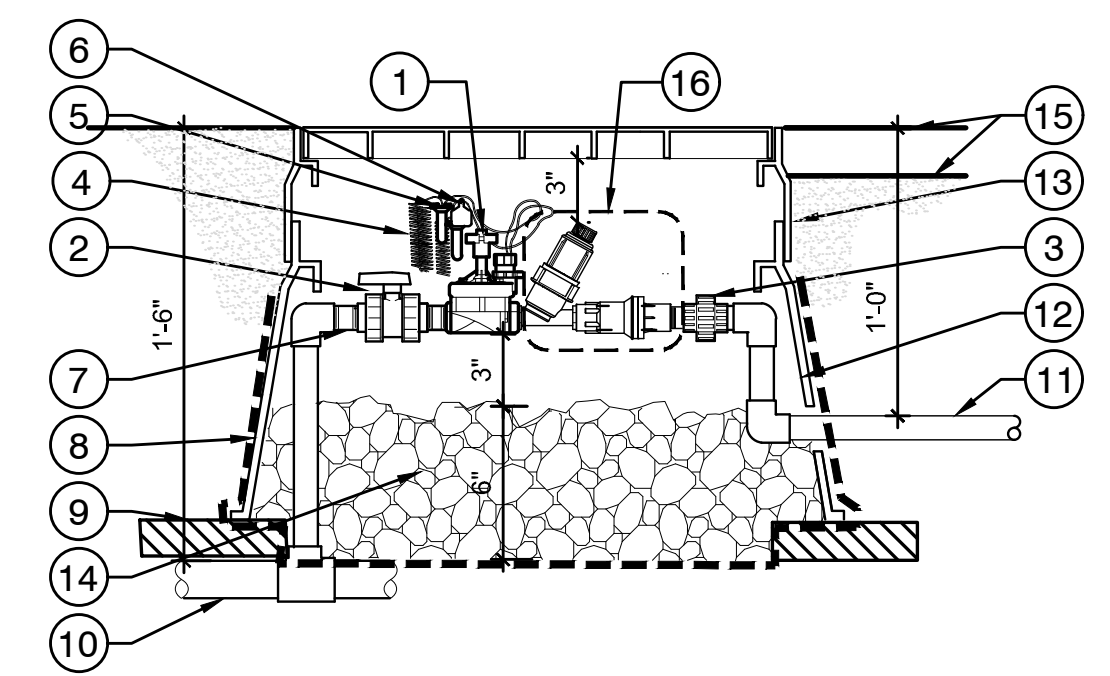
**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	RAIN BIRD PEB	1"	TURF SPRAY	23.75	36.8	2.97 in/h
2	RAIN BIRD PEB	1"	BUBBLER	10	33.0	3.59 in/h
3	RAIN BIRD PEB	1-1/2"	TURF SPRAY	39.3	36.0	3.19 in/h
4	RAIN BIRD PEB	2"	TURF SPRAY	46.43	40.6	3.0 in/h
5	RAIN BIRD PEB	1-1/2"	BUBBLER	32	38.6	3.59 in/h
6	RAIN BIRD PEB	2"	TURF SPRAY	48.74	40.4	2.89 in/h
7	RAIN BIRD PEB	1"	TURF SPRAY	18.75	34.0	3.59 in/h

**1 TRENCHING AND SLEEVING**

1 1/2" = 1'-0"

P-2-FED-29



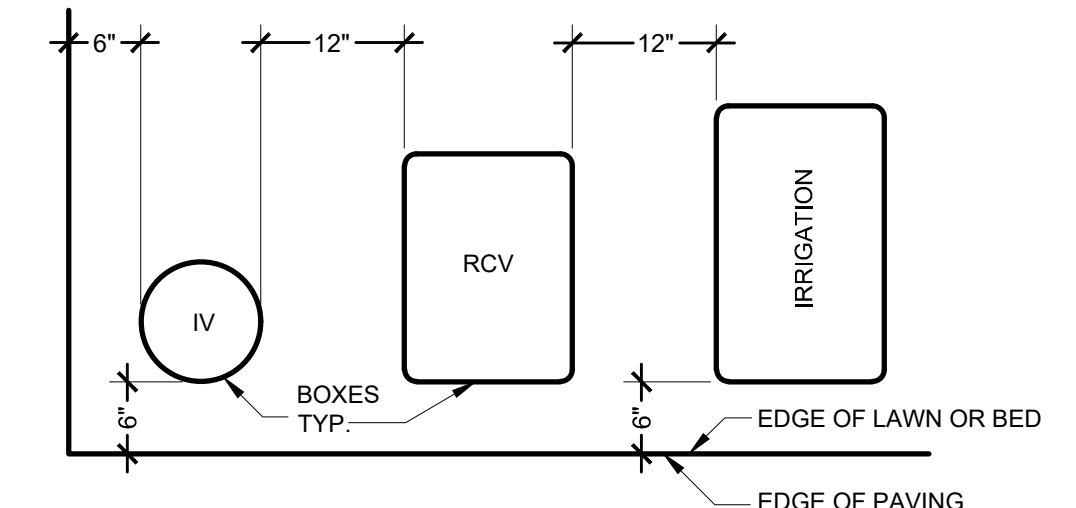
- KEYNOTES:**
- REMOTE CONTROL VALVE
  - TRUE UNION PVC BALL VALVE
  - SCH 80 UNION
  - CONTROL WIRES, LEAVE EXTRA 30" COILED
  - DBRY SPLICES
  - COWTAGS WITH VALVE NUMBERING
  - SCH 80 NIPPLES
  - FILTER FABRIC
  - CONCRETE BLOCK, 2X4X8, ONE PER CORNER (4 TOTAL)
  - MAIN LINE
  - LATERAL PIPE
  - VALVE BOX. DON'T ALLOW IT TO REST ON PIPE
  - VALVE BOX EXTENSION
  - WASHED ROCK. MIN. 2 CU. FT.
  - SET VALVE BOX 2" ABOVE FINISH GRADE IN SHRUBS, FLUSH IN TURF
  - FOR DRIP ZONES ONLY: FILTER AND PRV

- NOTES:**
- USE VALVE BOX W EXTENSIONS. SET 2" ABOVE GRADE IN SHRUBS, FLUSH IN TURF
  - USE TEFLON TAPE FOR ALL THREADED FITTINGS, NO PIPE DOPE
  - KEEP MIN. 3" CLEARANCE AROUND VALVE ON ALL SIDES.

**2 REMOTE CONTROL VALVE (DRIP AND SPRAY)**

1 1/2" = 1'-0"

P-2-FED-14



TYPE	SIZE	DESCRIPTION	MINIMUM BOX SIZE	BASIS OF DESIGN
QC	ALL	QUICK COUPLER	10" ROUND	CARSON 910
IV	1"	ISOLATION BALL VALVE	10" ROUND	CARSON 910
IV	1.5"	ISOLATION BALL VALVE	14" X 19"	CARSON 1419
IV	2"	ISOLATION BALL VALVE	24" X 24"	CARSON 2424
RCV	3/4" & 1"	REMOTE CONTROL VALVE	14" X 19"	CARSON 1419
RCV	1.5"	REMOTE CONTROL VALVE	13" X 24"	CARSON 1324
RCV	2"	REMOTE CONTROL VALVE	17" X 30"	CARSON 1730
RCV	3"	REMOTE CONTROL VALVE	24" X 36"	CARSON 2436
DCVA	3/4" & 1"	BACKFLOW PREVENTER	13" X 24"	CARSON 1324
DCVA	1.5"	BACKFLOW PREVENTER	24" X 36"	CARSON 2436
DCVA	2"	BACKFLOW PREVENTER	22" X 57"	25-TA

- NOTES:**
- CENTER BOX OVER VALVE TO FACILITATE REMOVAL & SERVICING
  - SET BOXES PARALLEL TO EACH OTHER & PERPENDICULAR TO BED EDGE
  - AVOID OVER COMPACTION TO PREVENT DEFORMATION & COLLAPSE OF BOX.
  - SEE SCHEDULE FOR BOX SIZE

**3 VALVE BOX SIZE AND INSTALLATION**

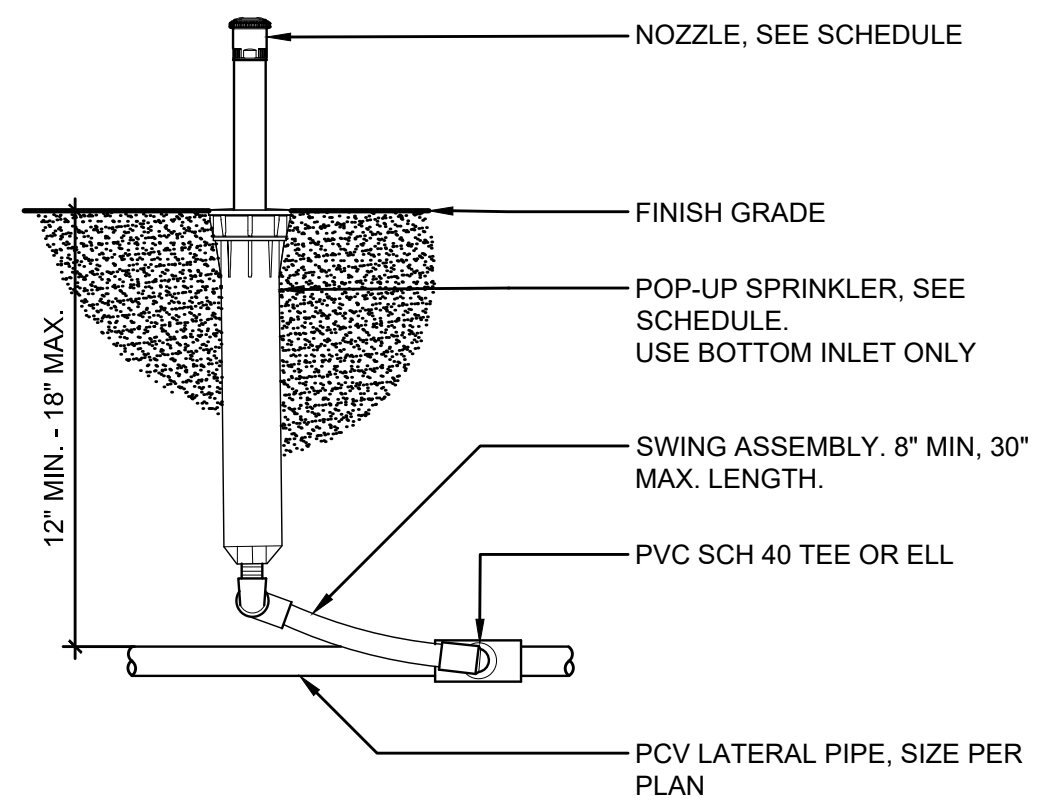
3/4" = 1'-0"

P-2-FED-88

**4 POP-UP SPRAY HEAD**

1 1/2" = 1'-0"

P-2-FED-87

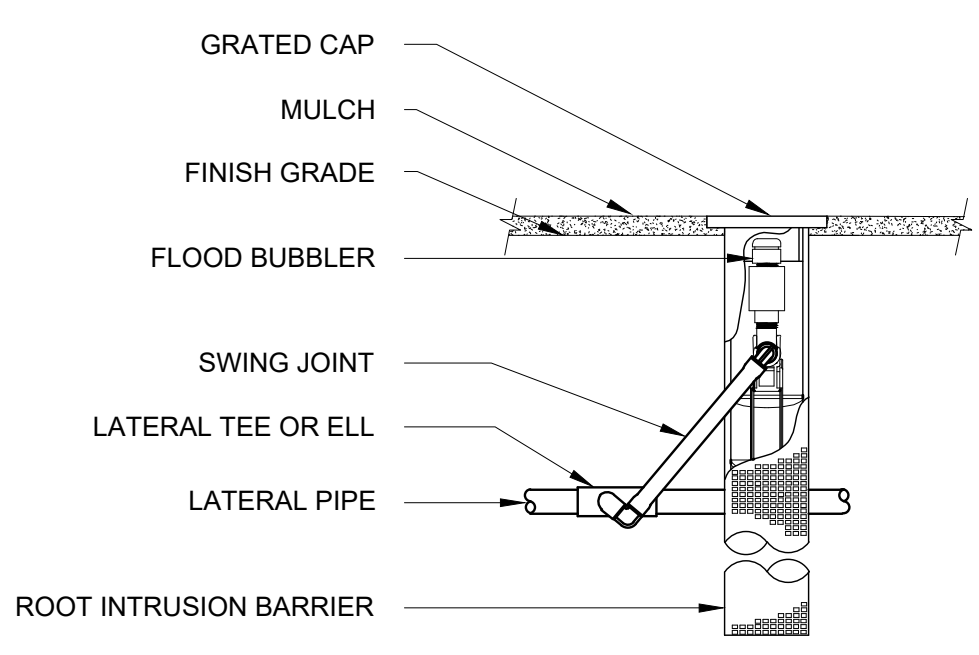


- NOTE:**
- ALL SPRAY BODIES TO HAVE BUILT-IN PRESSURE REGULATORS AND CHECK VALVE
  - SET HEADS PLUMB OR SQUARE TO THE SLOPE
  - PLACE HEADS MIN 4" FROM EDGE OF PAVING
  - USE TEFLON TAPE AT ALL THREADED FITTINGS

**5 ROOT WATERING SYSTEM**

1" = 1'-0"

P-2-FED-41



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**JOINT O&M FACILITY OFFSITE PLANS**  
**IRRIGATION LEGEND & DETAILS**

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1. STRUCTURAL NOTES

- 1.1. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND THE STRUCTURAL ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION BRACING, FORMWORK AND TEMPORARY CONSTRUCTION SHORING.
- 1.2. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE CONTRACTOR WARRANTS THAT:
  - 1.2.1. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO INCLUDE (INCLUDING AGENTS AND SUPPLIERS) HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND STRUCTURAL NOTE AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED.
  - 1.2.2. THE CONTRACTOR HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND FROM THEIR OWN INVESTIGATIONS, THEY HAVE SATISFIED THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK, AS TO THE CHARACTER, QUALITY, AND QUANTITIES OF MATERIAL AND DIFFICULTIES TO BE ENCOUNTERED, AS TO THE EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK AND AS TO THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY IN ANY WAY AFFECT WORK OR ITS PERFORMANCE.
  - 1.2.3. THE CONTRACTOR AND ALL WORKERS THEY INTEND TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE DRAWINGS AND DOCUMENTS BID UPON.
  - 1.2.4. NEITHER THE CONTRACTOR NOR ANY OF THEIR EMPLOYEES, AGENTS, INTENDED SUPPLIERS, OR SUBCONTRACTORS HAVE RELY UPON ANY VERBAL REPRESENTATIONS ALLEGEDLY AUTHORIZED OR UNAUTHORIZED FROM THE OWNER OR THEIR EMPLOYEES OR AGENTS, INCLUDING THE ARCHITECT OR ENGINEERS, IN ASSEMBLING THE BID FIGURES.
  - 1.2.5. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO INCLUDE SHALL BE AWARE OF AND ACKNOWLEDGE THAT CLOSE COORDINATION AMONG ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS IS REQUIRED.
  - 1.2.6. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO INCLUDE SHALL RECOGNIZE THAT THE PROJECT CONTRACT DOCUMENTS INCLUDE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL AND OTHER TRADE DRAWINGS AND SPECIFICATIONS.
  - 1.2.7. CONTRACTOR AND ALL SUBCONTRACTORS ACKNOWLEDGE THAT CLOSE COORDINATION BETWEEN DISCIPLINES INCLUDED WITHIN CONTRACT DOCUMENTS IS NECESSARY. ELEMENTS THAT WILL REQUIRE CLOSE COORDINATION BY THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):
    - A. VERIFICATION OF ALL DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
    - B. DETERMINATION OF ALL COLUMN LOCATIONS
    - C. DETERMINATION OF TOP OF FLOOR, TOP OF STEEL, WALL PLATE AND/OR TOP OF BEAM ELEVATIONS
    - D. DETERMINATION OF TOP OF FOOTING ELEVATIONS AND FOOT STEP LOCATIONS
    - E. MECHANICAL/ELECTRICAL EQUIPMENT LOCATIONS AND WEIGHTS
    - F. LOCATION AND SIZE OF ALL MECHANICAL/ELECTRICAL PENETRATIONS THROUGH WALLS AND FLOORS/ROOFS
    - G. COORDINATION WITH DESIGNERS/ SUPPLIERS OF PRE-ENGINEERED COMPONENTS (JOISTS, TRUSSES, STAIRS, ETC.)
  - 1.2.8. THE CONTRACTOR ACKNOWLEDGES THAT TEMPORARY SHORING AND/OR BRACING MAY BE REQUIRED TO COMPLETE THE PROJECT DESIGN AND IMPLEMENTATION OF TEMPORARY SHORING AND/OR BRACING DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - 1.2.9. THE CONTRACTOR AND ALL SUBCONTRACTORS THEY INTEND TO INCLUDE SHALL MAKE CONSIDERATION FOR, AND INCLUDE MONIES FOR THE PREPARATION OF THEIR BIDS.
  - 1.2.10. THE CONTRACTOR SHALL NOT SCALE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF ELEMENTS NOTED ABOVE.
  - 1.2.11. ELECTRONIC COPIES OF THE STRUCTURAL DRAWINGS (PDFS, CAD DRAWINGS OR BIM MODELS) MAY BE PROVIDED TO THE CONTRACTOR FOR THEIR USE. THESE FILES MAY BE PROVIDED AT THE REQUEST OF THE CONTRACTOR FOR THEIR CONVENIENCE ONLY. THE CONTRACTOR AGREES THAT THESE FILES SHALL NOT SUPERSEDE INFORMATION SHOWN ON THE ORIGINAL BID/CONSTRUCTION DOCUMENTS. THE CONTRACTOR AGREES TO HOLD THE STRUCTURAL ENGINEER HARMLESS FOR ANY ERRORS OR DISCREPANCIES CONTAINED WITHIN THESE ELECTRONIC FILES.
  - 1.2.12. THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN OR VERBAL REPRESENTATIONS.

1.3. CODES

- 1.3.1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.
- 1.3.2. ALL REFERENCES TO OTHER CODES, STANDARDS AND SPECIFICATIONS, (ACI, ASTM, ETC.), SHALL BE FOR THE EDITION CURRENTLY REFERENCED BY IBC AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY.

1.4. DESIGN CRITERIA

1.4.1. UNIFORM LOADS:

LOCATION	LIVE LOAD	DEAD LOAD
ROOF	25 PSF (SNOW*)	ACTUAL
SLAB ON GRADE	125 PSF OR 200# CONCENTRATED LOAD	ACTUAL
HANDRAILS AND GUARDS	50 PLF OR 200# CONCENTRATED LOAD	

\* THIS IS NOT A GROUND SNOW LOAD

1.4.2. SNOW LOADS PER IBC SECTION 1608 AND CHAPTER 7 OF ASCE 7:

GROUND SNOW LOAD (P <sub>g</sub> ):	25.0 PSF
FLAT ROOF SNOW LOAD (P <sub>f</sub> ):	25.0 PSF
SNOW EXPOSURE FACTOR (C <sub>e</sub> ):	1.0
SNOW IMPORTANCE FACTOR (I <sub>s</sub> ):	1.0
THERMAL FACTOR (C <sub>t</sub> ):	1.0

1.4.3. CONCENTRATED LOADS: ALL MANUFACTURERS OF PRE-ENGINEERED COMPONENTS OR SYSTEMS SHALL LOCATE, COORDINATE, VERIFY WEIGHTS, ETC., OF MECHANICAL UNITS OR OTHER CONCENTRATE LOADS AND DESIGN THEIR SYSTEM FOR THESE LOADS.

1.4.4. WIND LOADS (PER IBC SECTION 1609 AND ASCE 7 CHAPTERS 26 THROUGH 30):

BASIC WIND SPEED (V):	98 MPH
RISK CATEGORY:	II
WIND EXPOSURE:	B
TOPOGRAPHIC FACTOR (K <sub>t</sub> ):	1.0

1.4.5. SEISMIC LOADS (PER IBC SECTION 1613 AND ASCE 7 CHAPTERS 11 THROUGH 13):

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I <sub>s</sub> ):	1.0
S <sub>1</sub> :	1.321
S <sub>2</sub> :	0.453
SITE CLASS:	D
S <sub>0.1</sub> :	0.881
S <sub>0.2</sub> :	0.558
SEISMIC DESIGN CATEGORY:	D

1.5. STATEMENT OF SPECIAL INSPECTIONS

SEE STATEMENT OF SPECIAL INSPECTION AND TESTING SHEET SC010.

1.6. SHOP DRAWINGS

- 1.6.1. SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR THE FOLLOWING:
  - A. CONCRETE MIX DESIGN SUBMITTALS
  - B. REINFORCING STEEL
  - C. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS
  - D. CONCRETE COORDINATION DRAWINGS
- 1.6.2. SHOP DRAWING REVIEW NOTES
  - A. ENGINEER OF RECORD SHALL REVIEW SHOP DRAWINGS FOR GENERAL CONFORMANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS (PLANS AND SPECIFICATIONS).
  - B. ENGINEER OF RECORD REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE GENERAL CONTRACTOR OF THEIR RESPONSIBILITY FOR REVIEW OF THE SHOP DRAWINGS FOR COMPLIANCE WITH THE PROJECT REQUIREMENTS.
  - C. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER OF RECORD SHALL NOT BE CONSIDERED AS A GUARANTEE BY THE ENGINEER THAT THE SHOP DRAWINGS COMPLY WITH ALL PROJECT REQUIREMENTS.
  - D. CONCURRENT SHOP DRAWING REVIEW SHALL ONLY BE PERMITTED IF APPROVED BY THE ARCHITECT/ENGINEER OF RECORD PRIOR TO THE START OF SHOP DRAWING REVIEW.

1.7. MISCELLANEOUS

- 1.7.1. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.
- 1.7.2. VERIFY SIZE AND LOCATION OF ALL OPENINGS IN THE FLOORS, RC AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- 1.7.3. CONSTRUCTION DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS OF SECTIONS OF THE PROJECT AS APPROVED BY THE ARCHITECT/ENGINEER.
- 1.7.4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS NOT DIMENSIONED OR SHOWN ON STRUCTURAL PLANS.
- 1.7.5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND WEIGHTS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING HOUSEKEEPING PADS.
- 1.7.6. FOR PIPES, CONDUITS, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE: CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. PUBLICATION "APPENDIX E: SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" ALL BRACING AND SUPPORTS SHALL BE DESIGNED FOR SEISMIC HAZARD LEVEL (SHL) B. SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.
- 1.7.7. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRE VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF / STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT NOT LIMITED TO JOB SITE SAFETY: ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES

2. SITE PREPARATION/SOIL REMEDIATION

2.1. SOIL DATA

ALLOWABLE SOIL PRESSURE 2,500 PSF. ALLOW 33-1/3% INCREASE FOR LOAD FROM WIND OR SEISMIC ORIGIN. SEE GEOTECHNICAL ENGINEERING REPORT BY MIGIZI GROUP, INC. DATED JUNE 15, 2023. SEE GEOTECH REPORT FOR ALL SUBGRADE PREPARATION REQUIREMENTS AS WELL AS CAPILLARY BREAK VAPOR BARRIER RECOMMENDATIONS.

2.1.1. RETAINING WALL DESIGN CRITERIA:

A. ACTIVE EARTH PRESSURE:	35 PCF (ASSUMED)
B. AT-REST EARTH PRESSURE:	50 PCF (ASSUMED)
C. SEISMIC EARTH PRESSURE:	10 x "H" PSF (ASSUMED)
D. PASSIVE EARTH PRESSURE:	225 PCF *
E. FRICTION COEFFICIENT:	0.35 *

\* INCLUDES FACTOR OF SAFETY OF 1.5

2.2. EXCAVATION

EXCAVATE TO DEPTH SHOWN AND TO FIRM UNDISTURBED MATERIAL. OVER EXCAVATIONS SHALL BE BACKFILLED WITH LEAN CONCRETE (f' = 500-1200 PSI OR STRUCTURAL FILL AT THE CONTRACTOR'S EXPENSE. EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM THE ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AS NECESSARY TO AVOID WATER-SOFTENED SUBGRADE.

2.3. FILL, BACKFILL AND COMPACTION

BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL AFTER THE REMOVAL OF ALL MATERIAL SUBJECT TO ROT OR CORROSION. ALL FILL PLACED AGAINST RETAINING WALLS OR BASEMENT WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. STRUCTURAL FILL OTHER THAN PEA GRAVEL SHALL BE GRANULAR PLACED IN 6-INCH LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MOD PROCTOR). PEA GRAVE FILL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/8" DIAMETER.

3. STRUCTURAL CONCRETE

3.1. GENERAL

ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING THE REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 AND CONFORM TO ACI-604 (308) FOR WINTER CONCRETING AND ACI-605 (305) FOR HOT WEATHER CONCRETING. USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE FOR SEVEN DAYS AFTER PLACING.

3.2. STRENGTH

TWENTY-EIGHT DAY COMPRESSIVE STRENGTHS (f'<sub>c</sub>) SHALL BE AS FOLLOWS WITH EXPOSURE CATEGORY AND CLASS PER ACI TABLE 19.3.1.1 GIVEN IN PARENTHESIS:

SLABS ON GRADE (F0/S0/W0/C0)	4000 PSI
FOOTINGS (F0/S0/W0/C1)	3000 PSI
VERTICALLY FORMED WALLS (F1/S0/W0/C0)	4000 PSI *

\* MAXIMUM W/C RATIO SHALL BE 0.55

CONCRETE SUPPLIER TO PROVIDE TEST RECORDS PER SECTION 26.4 OF ACI 318. WHEN NO PRIOR EXPERIENCE OR TRIAL MIXTURE DATA ARE AVAILABLE THE WATER/CEMENT RATIO FROM THE TABLE BELOW MAY BE USED, BUT ON WHEN SPECIAL PERMISSION IS GIVEN BY ENGINEER.

MAXIMUM ABSOLUTE WATER/CEMENT RATIO BY WEIGHT FOR CONCRETE MIX WITHOUT TEST RECORDS SHALL BE AS FOLLOWS:

SPECIFIED COMPRESSIVE STRENGTH	NON-AIR ENTRAINED CONCRETE	AIR-ENTRAINED CONCRETE
3000 PSI	0.58	0.46
4000 PSI	0.44	0.35

3.3. MATERIALS

- 3.3.1. CEMENT: ASTM C150, TYPE I OR TYPE II. ENGINEER'S APPROVAL I NEEDED FOR USE OF TYPE III CEMENT.
- 3.3.2. COARSE AND FINE AGGREGATE: ASTM C33.
- 3.3.3. WATER SHALL BE CLEAN AND POTABLE.
- 3.3.4. FLYASH: ASTM C618 CLASS C (CLASS F MAY BE ALLOWED IF APPROVED BY THE STRUCTURAL ENGINEER)
- 3.3.5. GROUND GRANULATED BLAST FURNACE SLAG (GGBS): ASTM C98 GRADE 100 OR 120. GGBS SHALL NOT BE PERMITTED UNLESS REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. MIX DESIGNS SUBMITTED INCLUDING GGBS SHALL INCLUDE SHRINKAGE TEST RESULTS AT 28 DAYS.

3.4. ADMIXTURES

- 3.4.1. WATER REDUCING ADMIXTURE: ASTM C494. ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3.4.2. WATER REDUCING ADMIXTURES SHALL BE USED AT ALL HEAVILY CONGESTED AREAS (I.E. CONCRETE BEAMS, COLUMNS AND WALLS WITH REINFORCING SPACING OF 4" OR LESS)
- 3.4.3. CONCRETE USING ADMIXTURES TO PRODUCE FLOWABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL.
- 3.4.4. AIR ENTRAINMENT: ASTM C260 AND ASTM C494 ENTRAIN 5% PLUS/MINUS 1.5% BY VOLUME IN ALL CONCRETE EXPOSED TO WEATHER.
- 3.4.5. NO OTHER ADMIXTURES PERMITTED UNLESS APPROVED BY THE ENGINEER.

3.5. FORMWORK AND SHORING

- 3.5.1. FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI-347).
- 3.5.2. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK SUPPORTS AND SHORING SHALL BE DESIGNED TO PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES LEVEL, PLUMB AND TRUE TO THE DIMENSIONS AND ELEVATIONS SHOWN. TOLERANCES AND VARIATIONS SHALL BE AS SPECIFIED.

3.6. REINFORCING STEEL:

- 3.6.1. DETAIL, FABRICATE, AND PLACE PER ACI-315 AND ACI-318. SUPPLY REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES.
- 3.6.2. DEFORMED BAR REINFORCEMENT: ASTM A615 GR 60
- 3.6.3. WELDABLE DEFORMED BAR REINFORCEMENT: ASTM A706 GR 60 WHERE NOTED ON STRUCTURAL DRAWINGS
- 3.6.4. WELDED WIRE FABRIC: ASTM 1064 GR 65
- 3.6.5. EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, ALL CONCR REINFORCEMENT SHALL BE LAP-SPLICED AS FOLLOWS:
  - #6 AND SMALLER 48 X BAR DIAMETER
  - #7 AND LARGER 56 X BAR DIAMETER

NO MORE THAN 50% HORIZONTAL OR VERTICAL BARS SHALL BE SPLICED AT ONE LOCATION
- 3.6.6. EXCEPT AS NOTED SPECIFICALLY ON THE DRAWINGS, PROVIDE CORNER BARS TO MATCH QUANTITY AND DIAMETER OF HORIZONTAL REINFORCEMENT AND LAP WITH HORIZONTAL REINFORCEMENT AS FOLLOWS:
  - #6 AND SMALLER 48 X BAR DIAMETER
  - #7 AND LARGER 56 X BAR DIAMETER

THESE CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS IN CONCRETE FOOTINGS AND WALLS.
- 3.6.7. LAP WELDED WIRE FABRIC 12" OR ONE SPACING PLUS 2", WHICHEVER IS MORE.

3.7. CONCRETE COVER ON REINFORCING SHALL BE AS FOLLOWS (UNLESS SHOWN OTHERWISE):

BOTTOM OF FOOTINGS	3"
FORMED EARTH FACE AND SLAB ON GRADE	2"
WALLS, WEATHER FACE	1-1/2"
WALLS, INSIDE FACE	1"

3.8. CONSTRUCTION OR CONTROL JOINTS

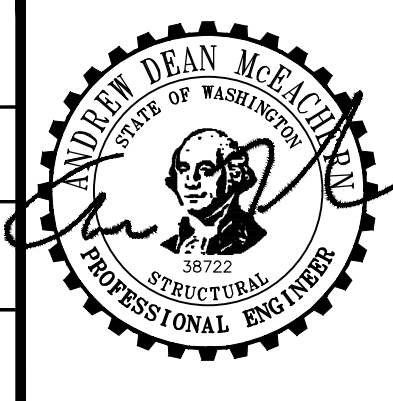
- 3.8.1. UNLESS NOTED OTHERWISE, LOCATION OF THE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE SHALL NOT EXCEED THE DISTANCES NOTED BELOW. JOINTS SHALL BE LOCATED ON COLUMN GRIDS OR UNDER PERMANENT PARTITIONS TO THE GREATEST EXTENT POSSIBLE. ADDITIONAL JOINTS SHALL BE REQUIRED AT REENTRANT CORNERS AND CORNERS OF SLAB DEPRESSIONS OR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR JOINT LAYOUT AT EXPOSED CONCRETE CONDITIONS. PROVIDE JOINT SEALANT PER SPECIFICATIONS - INSTALL PER MANUFACTURER RECOMMENDATIONS.
  - 6" SLAB ON GRADE
  - 18-0" OC
- 3.8.2. CONSTRUCTION OR CONTROL JOINT SPACING IN WALLS SHALL NOT EXCEED 50' ON CENTER EXCEPT AS DIRECTED BY THE ARCHITECT/ENGINEER.
- 3.9. CONDUIT AND PIPING EMBEDDED IN CONCRETE
  - 3.9.1. ELECTRICAL CONDUIT SHALL NOT BE PLACED WITHIN A SLAB ON GRADE BUT PLACED BELOW THE SLAB IN THE SUB-BASE.
- 3.10. GROUT FOR BEARING PLATES
  - THE NON-SHRINK GROUT SHALL MEET ASTM C1107 GRADE B OR EQUIVALENT (MASTERFLOW 928 BY BASF OR APPROVED EQUIVALENT). GROUT SHALL BE A PRE-PACKAGED HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT, MIXED, PLACED AND CURED AS RECOMMENDED BY THE MANUFACTURER. COMPRESSIVE STRENGTH SHALL EXCEED 6000 PSI AT 28 DAYS.
- 3.11. ADHESIVE EXPANSIVE WATERSTOPS
  - ADHESIVE EXPANSIVE WATERSTOP SHALL BE VOLCLAY WATERSTOP-RX (AS MANUFACTURED BY CETCO), SWELLSTOP OR HYDROTIGHT (GREENSTREAK), OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 3.12. EXPOSED CAST IN PLACE CONCRETE ART SECURITY WALL
  - 3.12.1. THE APPEARANCE OF EXPOSED CONCRETE ART SECURITY WALLS IS CRITICAL. EXTRA CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THAT APPEARANCE OF THESE NOTED ELEMENTS MEET THE ARCHITECTURAL REQUIREMENTS.
  - 3.12.2. PRE-CONSTRUCTION MEETING AND REQUIRED MOCK-UPS SHALL BE PER THE PROJECT SPECIFICATIONS.
  - 3.12.3. THE CONCRETE MIX DESIGN FOR EXPOSED CAST IN PLACE CONCRETE ELEMENTS SHALL SUBSTITUTE CEMENTITIOUS MATERIAL WITH FLYASH (20% MINIMUM) AND SHALL CONTAIN AT A MINIMUM A MID-RANGE WATER REDUCING ADMIXTURE (TYPE F GLENIUM 3030 WATER REDUCING ADMIXTURE OR APPROVED EQUIVALENT).
  - 3.12.4. THE CONTRACTOR SHALL SUBMIT A CONCRETE PLACEMENT WORK PLAN THAT INDICATES PLACEMENT PROCEDURES FOR CONCRETE, NUMBER OF WORKMEN REQUIRED, VIBRATION EQUIPMENT, ETC. PRIOR TO THE PRE-CONSTRUCTION MEETING. REVIEW AND ACCEPTANCE OF THE CONCRETE PLACEMENT PLAN BY THE DESIGN TEAM IN NO WAY RELIEVES THE CONTRACTOR OF THE RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- 3.13. CONCRETE COORDINATION DRAWINGS
  - PRIOR TO THE START OF CONCRETE WALL CONSTRUCTION THE CONTRACTOR SHALL SUBMIT CONCRETE COORDINATION DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. COORDINATION DRAWINGS SHALL INCLUDE DIMENSIONS AND SIZES FOR EMBED LOCATIONS, CONSTRUCTION / CONTROL JOINT LOCATIONS, FORM TIE SPACING AND LAYOUT, AND OTHER APPROPRIATE ITEMS.

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**CITY OF Federal Way**  
Centered on Opportunity  
33325 8TH AVE S FEDERAL WAY, WA 98003  
PHONE: (253) 835-2700  
WWW.CITYOFFEDERALWAY.COM

DRAFTED: KJK
DESIGNED: KBG
REVIEWED: ADM
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**STRUCTURAL NOTES**

**FEDERAL WAY O&M FACILITIES**

SITE WALLS

CITY PROJECT #:	#36610
SHT.	34
OF	40

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11. STATEMENT OF SPECIAL INSPECTIONS			
IBC	SI	SO	TITLE
1705.2	✓	N/R	STEEL CONSTRUCTION (SEE TABLES 15A, 15B, 15C, AND 15D)
1705.3	✓	✓	CONCRETE CONSTRUCTION (SEE TABLE 13)
1705.6	✓	N/R	SOILS (SEE TABLE 12A)

SI = SPECIAL INSPECTION  
SO = STRUCTURAL OBSERVATION  
✓ = ITEM IS REQUIRED  
N/R = ITEM IS NOT REQUIRED

SPECIAL INSPECTIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. SEE ARCH, MECH AND ELEC DRAWINGS FOR ADDITIONAL SPECIAL INSPECTIONS.

11. INSPECTION/TESTING REQUIREMENTS:  
SEE DRAWINGS, SPECIFICATIONS, AND IBC SECTIONS 110, AND CHAPTER 17.
- 11.2. INSPECTIONS BY THE BUILDING OFFICIAL (IBC SECTION 110):
- 11.2.1. FOOTING AND FOUNDATION INSPECTIONS SHALL BE MADE AFTER EXCAVATIONS ARE COMPLETE AND ANY REQUIRED REINFORCING IS IN PLACE. ANY REQUIRED FORMS SHALL BE IN PLACE PRIOR TO INSPECTION.
- 11.2.2. CONCRETE SLAB AND UNDER FLOOR INSPECTIONS SHALL BE MADE AFTER ALL IN SLAB OR UNDER FLOOR REINFORCING, CONDUIT, PIPING AND OTHER ANCILLARY EQUIPMENT ITEMS AND ACCESSORIES ARE IN PLACE BUT PRIOR TO CONCRETE PLACEMENT OR FLOOR SHEATHING INSTALLATION.
- 11.2.3. FRAMING INSPECTIONS SHALL BE MADE AFTER ALL SHEATHING, FRAMING, BLOCKING AND BRACING ARE COMPLETE AND ALL PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC., ARE INSTALLED AND APPROVED PRIOR TO COVER.
- 11.2.4. IN ADDITION TO THE INSPECTIONS SPECIFIED ABOVE, THE BUILDING OFFICIAL IS AUTHORIZED TO MAKE OR REQUIRE OTHER INSPECTIONS OF ANY CONSTRUCTION WORK TO ASCERTAIN COMPLIANCE WITH THE PROVISIONS OF THE IBC OR OTHER LAWS ENFORCED BY THE BUILDING OFFICIAL.
- 11.3. STRUCTURAL TESTS AND SPECIAL INSPECTIONS (IBC CHAPTER 17):
- 11.3.1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 11.3.2. STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE BUILDING OFFICIAL. OMISSION FROM THE LIST BELOW OF TESTING AND INSPECTION REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING TESTING AND INSPECTION REQUIRED BY THE SPECIFICATIONS, THE IBC AND THE BUILDING OFFICIAL.
- 11.3.3. TESTING AND SPECIAL INSPECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC FOR THE ITEMS LISTED IN THIS SECTION.
- 11.4. STRUCTURAL OBSERVATION
- 11.4.1. STRUCTURAL OBSERVATION MAY BE PERFORMED DURING CONSTRUCTION IN A MANNER AS REQUIRED TO BECOME GENERALLY FAMILIAR WITH THE IN-PLACE CONSTRUCTION.
- 11.4.2. STRUCTURAL OBSERVATION EXTENT SHALL BE AS INDICATED ABOVE. TIMING AND DURATION OF OBSERVATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION.
- 11.4.3. CONSTRUCTION OBSERVATION REPORTS AND FINDINGS SHALL NOT BE VIEWED AS A WARRANTY OR GUARANTEE BY THE STRUCTURAL ENGINEER.
- 11.5. SPECIAL INSPECTOR: SHALL BE CURRENTLY WABO CERTIFIED.
- 11.5.1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- 11.5.2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OF RECORD, ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION, THEN, IF NOT IN CONFORMANCE, TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.
- 11.5.3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

12A. REQUIRED SPECIAL INSPECTIONS AND TEST OF SOILS		
IBC TABLE 1705.6		
SPECIAL INSPECTION OR TEST TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	N/R	✓
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	N/R	✓
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL	N/R	✓
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	✓	N/R
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	N/R	✓

12. SPECIAL INSPECTIONS AND TESTS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS PER IBC 1705.6, AS NOTED IN TABLE 12A.
- 12.1.1. THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE.

13. REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
IBC TABLE 1705.3				
SPECIAL INSPECTION OR TEST TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	N/R	✓	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	N/R	✓	AWS D1.4 ACI 318:26.6.4	
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	N/R	✓		
C. INSPECT ALL OTHER WELDS	✓	N/R		
3. INSPECT ANCHORS CAST IN CONCRETE	N/R	□	ACI 318: 17.8.2	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	✓	N/R	ACI 318: 17.8.2.4	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A	N/R	✓	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX	N/R	✓	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	✓	N/R	ASTM C 172 ASTM C 311 ACI 318:26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	✓	N/R	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	N/R	✓	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES	✓	N/R	ACI 318: 26.10	
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM	✓	N/R		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	N/R	✓	ACI 318: 26.9	
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	N/R	✓	ACI 318: 26.10.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	N/R	✓	ACI 318: 26.11.1.2(b)	

13. 13.1. CONCRETE: SPECIAL INSPECTION AND TESTING PER IBC TABLE 1705.3 AS NOTED IN TABLE 13, INCLUDING:
- 13.1.1. CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
- 13.1.2. CONTINUOUS SPECIAL INSPECTION OF BOLTS INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.
- 13.1.3. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IAPMO, ETC.).
- 13.2. SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR THE FOLLOWING:
- 13.2.1. NON-STRUCTURAL CONCRETE SLABS ON GRADE.

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DRAFTED: KJK  
DESIGNED: KBG  
REVIEWED: ADM  
APPROVED:



DRAWING VERSION / REVISION LOG

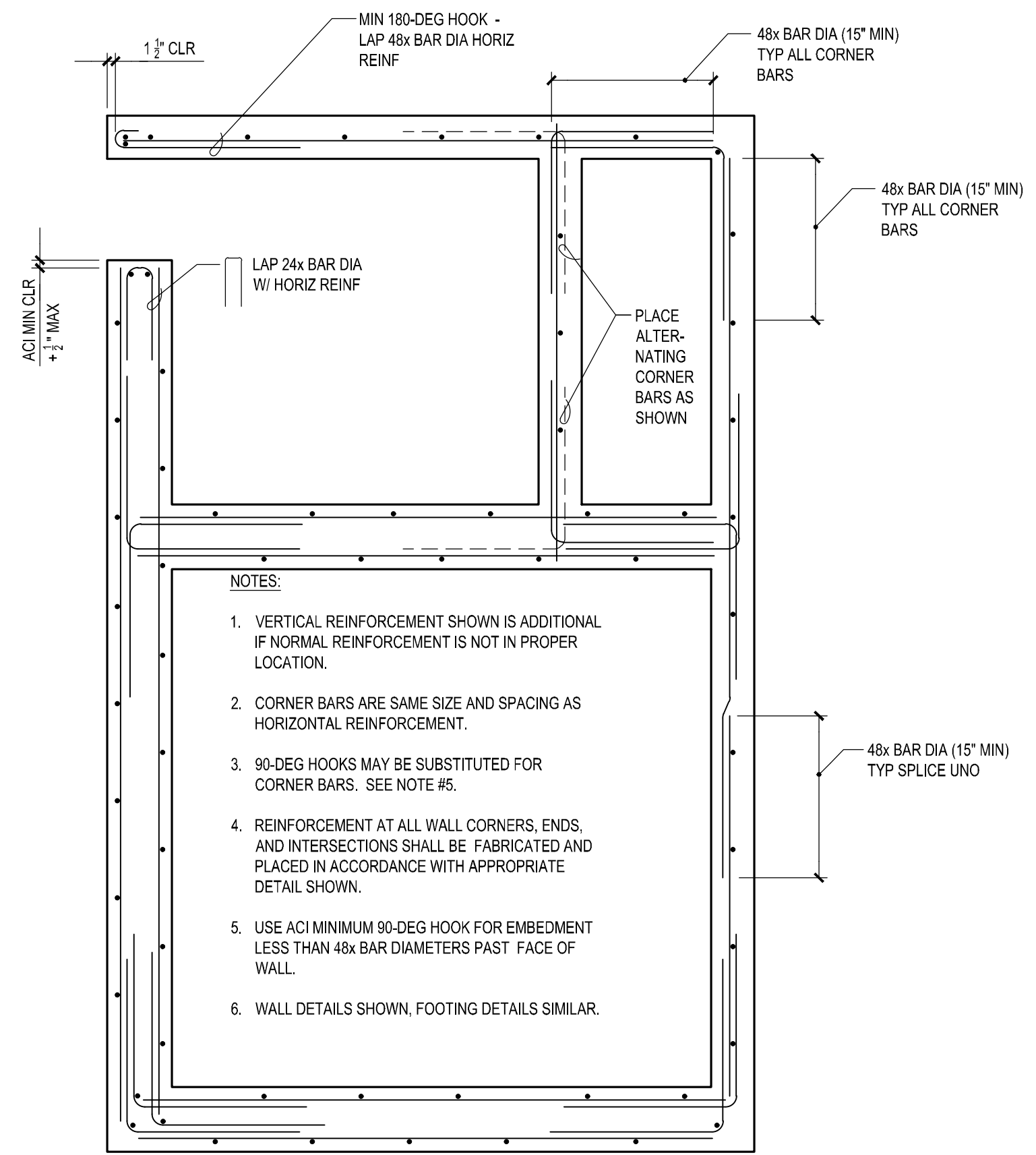
NO.	DATE	REVISION

QUALITY ASSURANCE PLAN

FEDERAL WAY O&M FACILITIES  
SITE WALLS

CITY PROJECT #:  
#36610  
SHT. 35  
OF 40





- NOTES:**
1. VERTICAL REINFORCEMENT SHOWN IS ADDITIONAL IF NORMAL REINFORCEMENT IS NOT IN PROPER LOCATION.
  2. CORNER BARS ARE SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.
  3. 90-DEG HOOKS MAY BE SUBSTITUTED FOR CORNER BARS. SEE NOTE #5.
  4. REINFORCEMENT AT ALL WALL CORNERS, ENDS, AND INTERSECTIONS SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH APPROPRIATE DETAIL SHOWN.
  5. USE ACI MINIMUM 90-DEG HOOK FOR EMBEDMENT LESS THAN 48x BAR DIAMETERS PAST FACE OF WALL.
  6. WALL DETAILS SHOWN, FOOTING DETAILS SIMILAR.

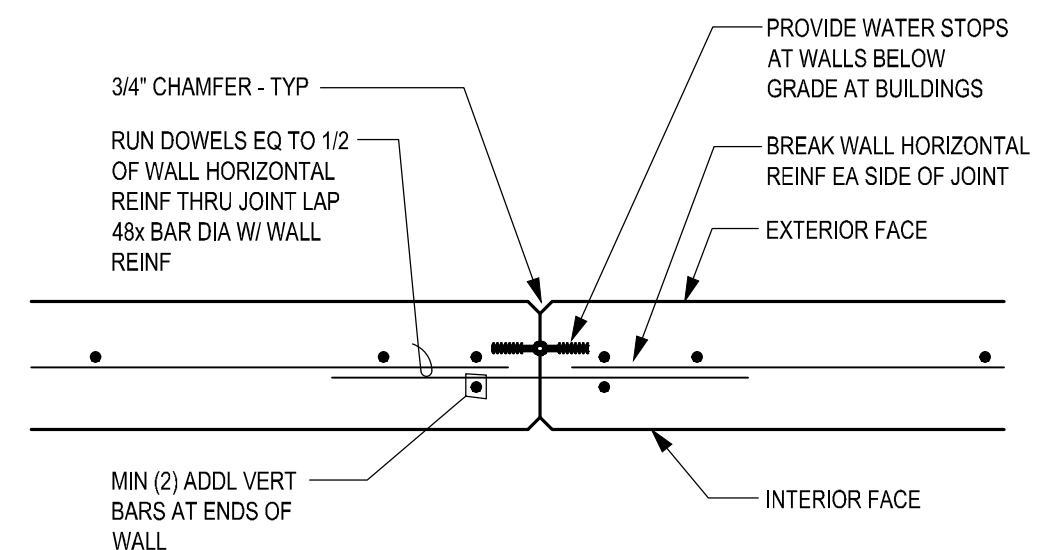
PLAN VIEW - TYPICAL REINFORCEMENT PLACING DETAIL

**TYPICAL**

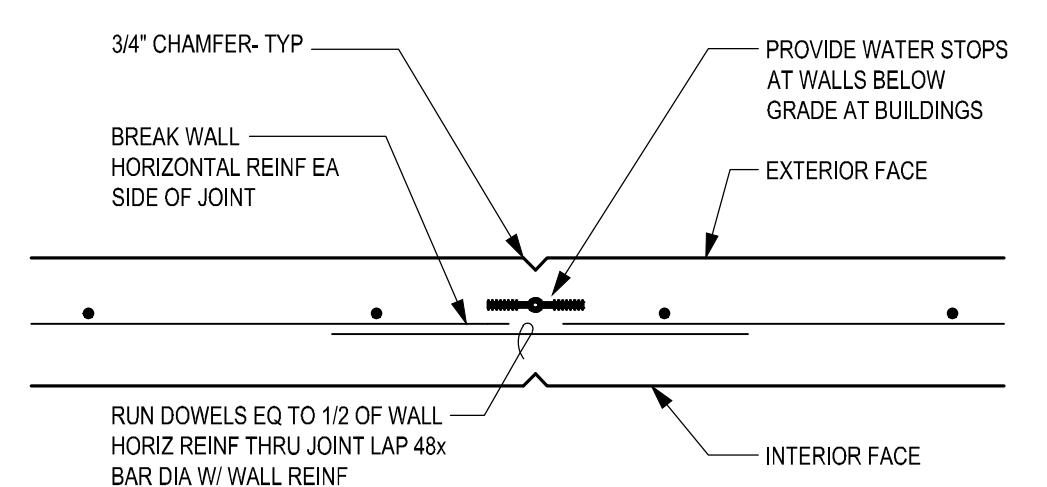
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1

- CONTRACTOR NOTES:**
- CONTRACTOR TO PROVIDE A WALL JOINT LAYOUT DRAWING FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK.
  - COORDINATE JOINT SPACING WITH ARCHITECTURAL DRAWINGS.
  - LOCATE JOINTS AT 50'-0" OC MAX AND WITHIN 8'-0" OF WALL CORNERS.



TYPICAL WALL CONSTRUCTION JOINT



TYPICAL WALL CONTROL JOINT

**TYPICAL**

NTS

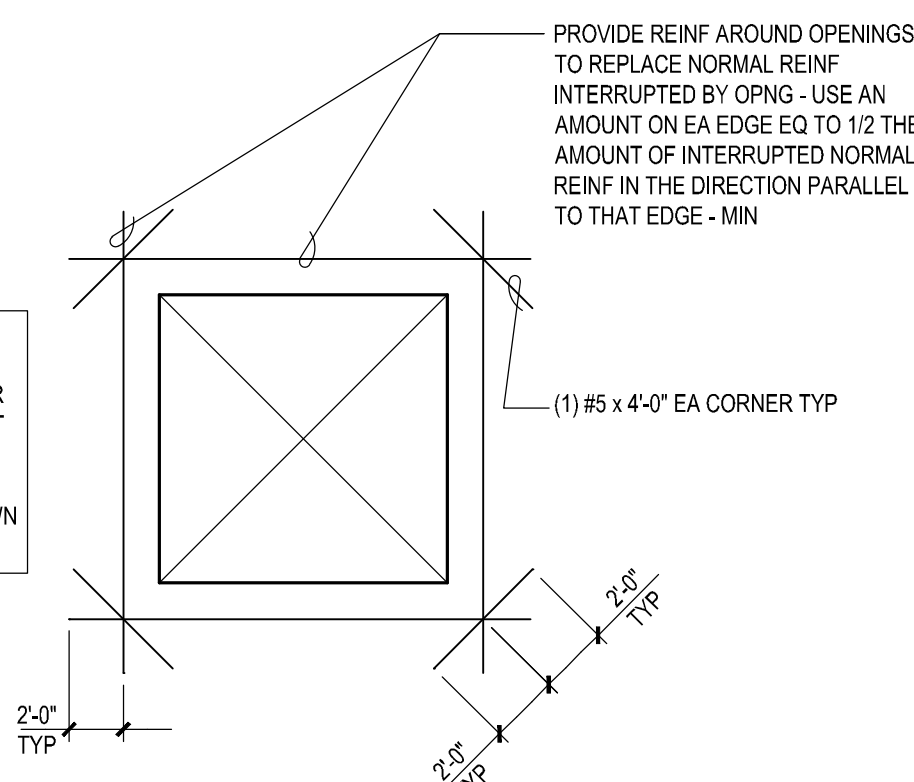
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STRUCTURAL KEY TO ABBREVIATIONS			
AB	ANCHOR BOLT	L	ANGLE
ABV	ABOVE	LAM	LAMINATE
ADDL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ADJ	ADJACENT	LLV	LONG LEG VERTICAL
AFF	ABOVE FINISH FLOOR	LOC	LOCATION
ALT	ALTERNATE	LONGIT	LONGITUDINAL
ARCH	ARCHITECTURAL, ARCHITECT	MAX	MAXIMUM
ASD	ALLOWABLE STRESS DESIGN	MB	MACHINE BOLT
BEL	BELOW	MECH	MECHANICAL
BLKG	BLOCKING	MFR	MANUFACTURER
BM	BEAM	MIN	MINIMUM
BNDY	BOUNDARY	MIV	MALLEABLE IRON WASHER
BOT	BOTTOM	NS	NEAR SIDE
BRG	BEARING	NTS	NOT TO SCALE
BS	BOTH SIDES	NWT	NORMAL WEIGHT
BTWN	BETWEEN	O	OVER
BU	BUILT UP	OC	ON CENTER
CGS	CENTER OF GRAVITY OF STEEL	O.F.	OUTSIDE FACE
CIP	CAST IN PLACE	OPP	OPPOSITE HAND
CJ	CONSTRUCTION/CONTROL JOINT	OPNG	OPENING
CL	CENTERLINE	OSB	ORIENTED STRAND BOARD
CLG	CEILING	PC	PRE-CAST
CLR	CLEAR	PDF	POWER DRIVEN FASTENERS, PAF
CMU	CONCRETE MASONRY UNIT	PAF	POWER ACTUATED FASTENERS, PDF
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PL	PLATE
CONN	CONNECT, CONNECTION	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUOUS	PNL	PANEL
COORD	COORDINATE	PRE-ENGR	PRE-ENGINEERED
CSK	COUNTERSINK	PROV	PROVIDE
CTR	CENTER	PT	POST TENSIONED
CVR	COVER	PW	PLYWOOD
DEG	DEGREE	REF	REFERENCE
DIA	DIAMETER	REINF	REINFORCE, REINFORCEMENT
DBL	DOUBLE	REQ'D	REQUIRED
EA	EACH	RF	ROOF
EF	EACH FACE	SCHED	SCHEDULE
ELEV	ELEVATION, ELEVATOR	SFRS	SEISMIC FORCE RESISTING SYSTEM
EMB	EMBEDMENT	SHTG	SHEATHING
ENGR	ENGINEER	SIM	SIMILAR
EQ	EQUAL/EQUIVALENT	SIMP	SIMPSON STRONG-TIE
EQUIV	EQUIVALENT	SOG	SLAB ON GRADE
ES	EACH SIDE	SPCG	SPACING
EW	EACH WAY	SQ	SQUARE
(E)	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	SW	SHEARWALL
FDN	FOUNDATION	T&G	TONGUE AND GROOVE
FF	FINISH FLOOR	THK	THICK
FFE	FINISH FLOOR ELEVATION	THRD	THREADED
FOC	FACE OF CONCRETE	T.O.	TOP OF
FOM	FACE OF MASONRY	TOC	TOP OF CONCRETE
FOS	FACE OF STUD	TOF	TOP OF FOOTING
FS	FAR SIDE	TOPL	TOP OF PLATE
FTG	FOOTING	TOS	TOP OF STEEL
GA	GAGE	T.O.W.	TOP OF WALL
GALV	GALVANIZED	TRANSV	TRANSVERSE
GC	GENERAL CONTRACTOR	TRTD	TREATED
GL	GLUE LAMINATED	TYP	TYPICAL
GWB	GYPSUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER	VFY	VERIFY
HORIZ	HORIZONTAL	VERT	VERTICAL
HSS	HOLLOW STEEL SECTION	W/	WITH
HT	HEIGHT	W/O	WITHOUT
IF	INSIDE FACE	WF	WIDE FLANGE
INT	INTERIOR	WHS	WELDED HEADED STUD
JNT	JOINT	WP	WORK POINT
JST	JOIST	WTS	WELDED THREADED STUD
K, KIPS	KIPS=1000 LBS	WWF	WELDED WIRE FABRIC

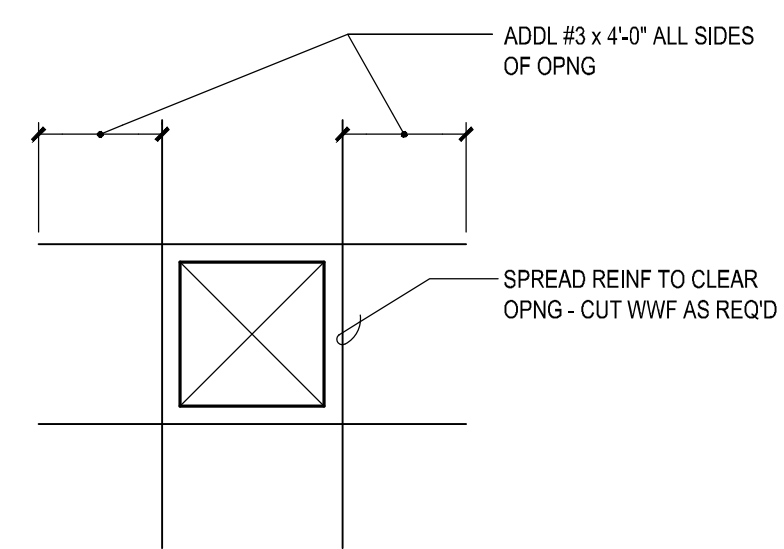
**TYPICAL**

NTS

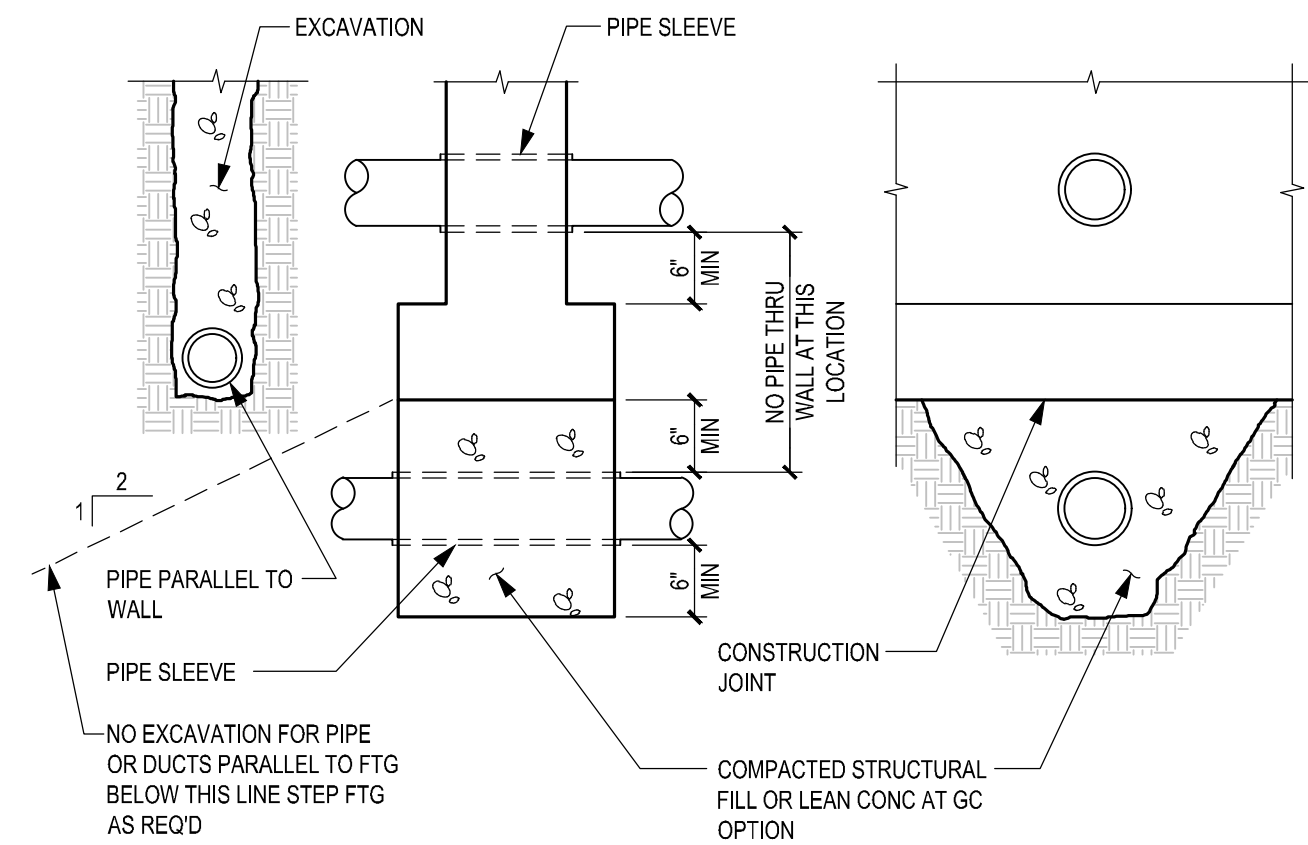
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TYPICAL REINFORCING AT OPENINGS GREATER THAN 12" IN CONC WALL OR SLAB



TYPICAL REINFORCING AT OPENINGS LESS THAN 12" IN CONC WALL OR SLAB

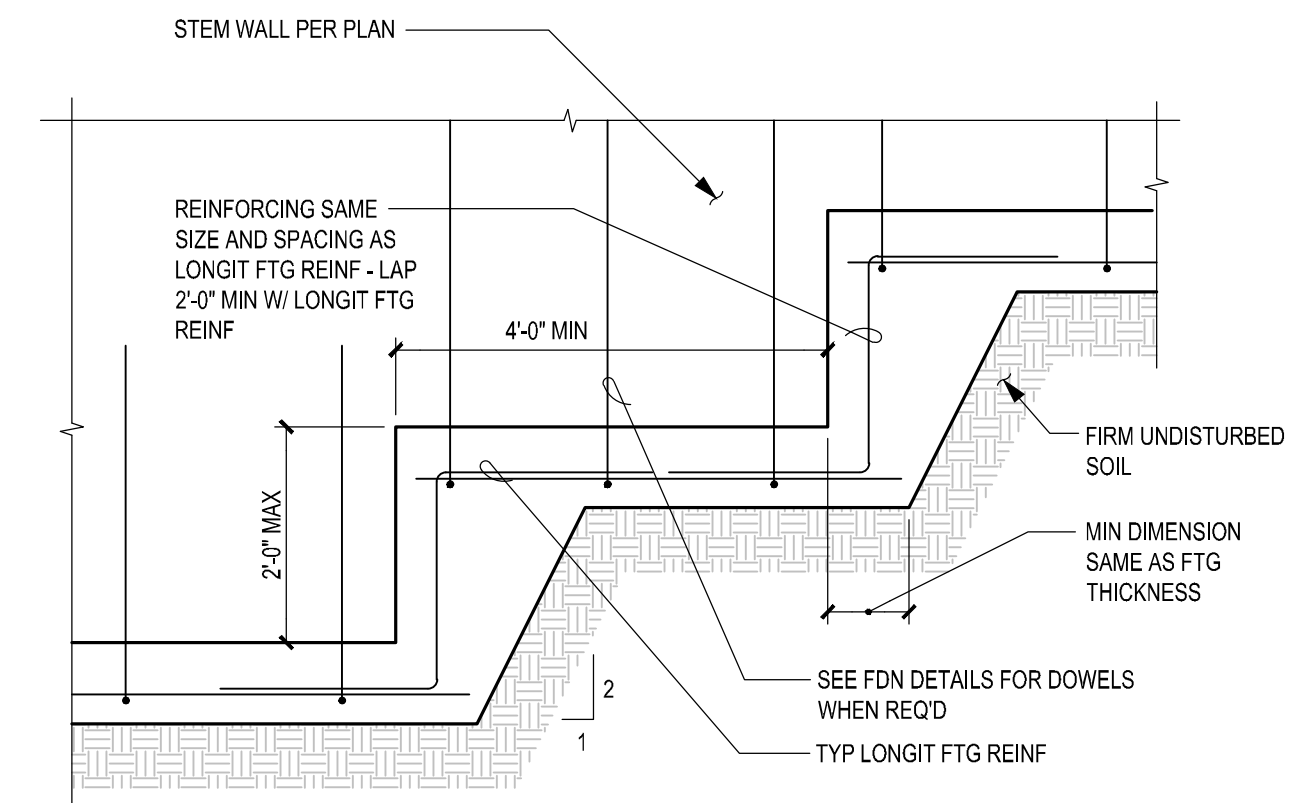


TYPICAL DETAIL OF PIPE AT CONCRETE FOOTING

**TYPICAL**

NTS

4



TYPICAL STEPPED FOOTING

**TYPICAL**

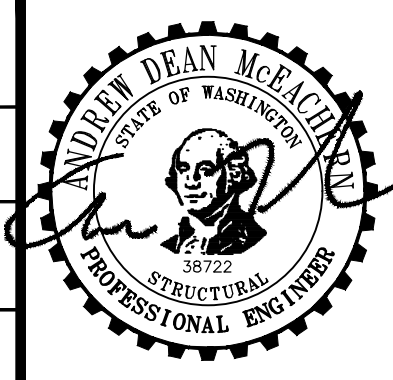
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Centered on Opportunity  
33325 8TH AVE S FEDERAL WAY, WA 98003  
PHONE: (253) 835-2700  
WWW.CITYOFFEDERALWAY.COM

DRAFTED: KJK
DESIGNED: KBG
REVIEWED: ADM
APPROVED:



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**TYPICAL DETAILS**

**FEDERAL WAY O&M FACILITIES**

SITE WALLS

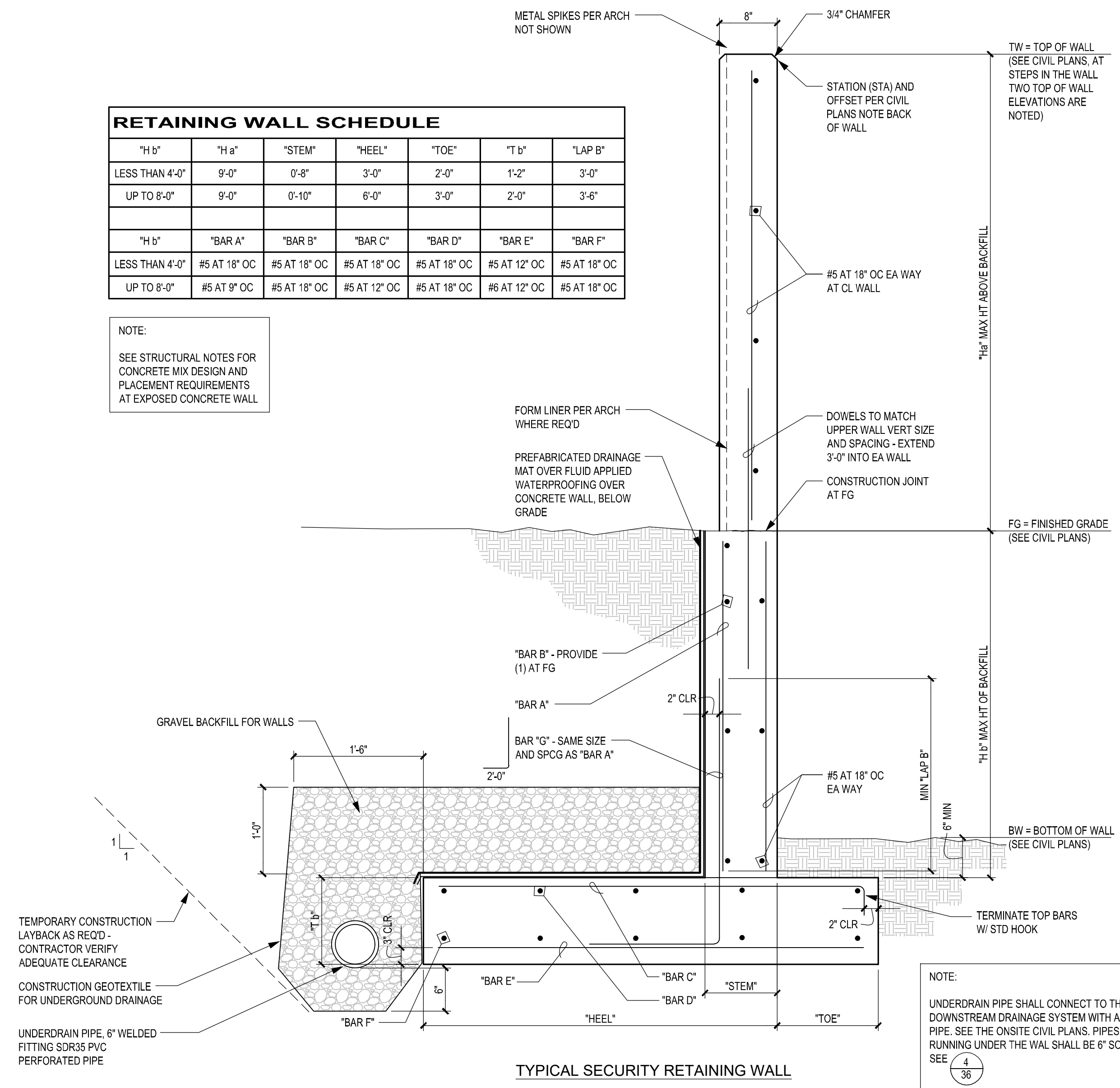
CITY PROJECT #:  
**#36610**

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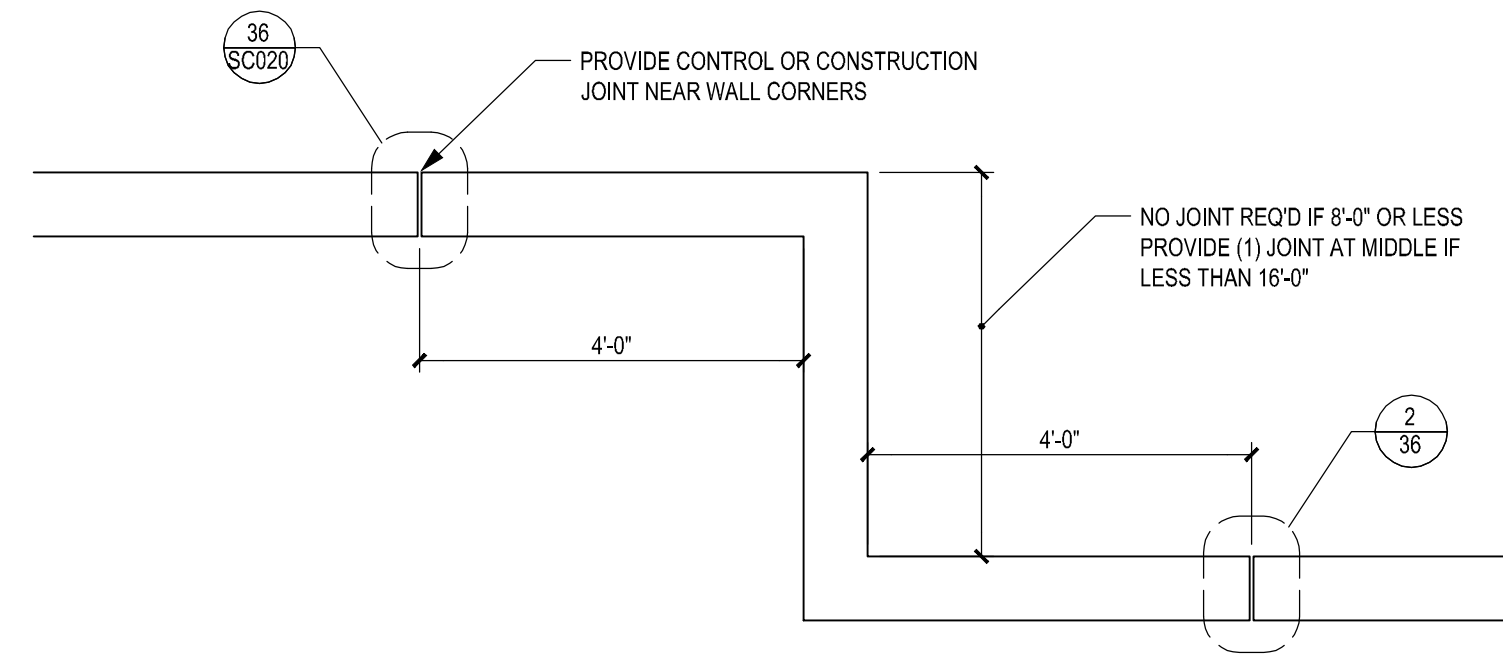


RETAINING WALL SCHEDULE						
"H b"	"H a"	"STEM"	"HEEL"	"TOE"	"T b"	"LAP B"
LESS THAN 4'-0"	9'-0"	0'-8"	3'-0"	2'-0"	1'-2"	3'-0"
UP TO 8'-0"	9'-0"	0'-10"	6'-0"	3'-0"	2'-0"	3'-6"
"H b"	"BAR A"	"BAR B"	"BAR C"	"BAR D"	"BAR E"	"BAR F"
LESS THAN 4'-0"	#5 AT 18" OC	#5 AT 18" OC	#5 AT 18" OC	#5 AT 18" OC	#5 AT 12" OC	#5 AT 18" OC
UP TO 8'-0"	#5 AT 9" OC	#5 AT 18" OC	#5 AT 12" OC	#5 AT 18" OC	#6 AT 12" OC	#5 AT 18" OC

NOTE:  
SEE STRUCTURAL NOTES FOR CONCRETE MIX DESIGN AND PLACEMENT REQUIREMENTS AT EXPOSED CONCRETE WALL



**SECTION**  
1" = 1'-0"



**PLAN**  
1/2" = 1'-0"

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REVIEWED: ADM  
APPROVED:



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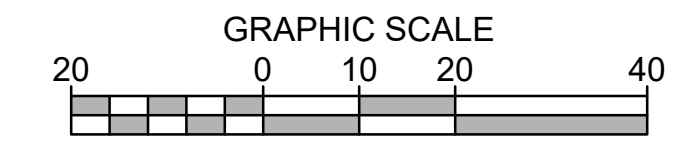
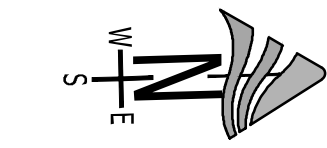
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SITE WALL DETAILS

FEDERAL WAY O&M FACILITIES  
SITE WALLS

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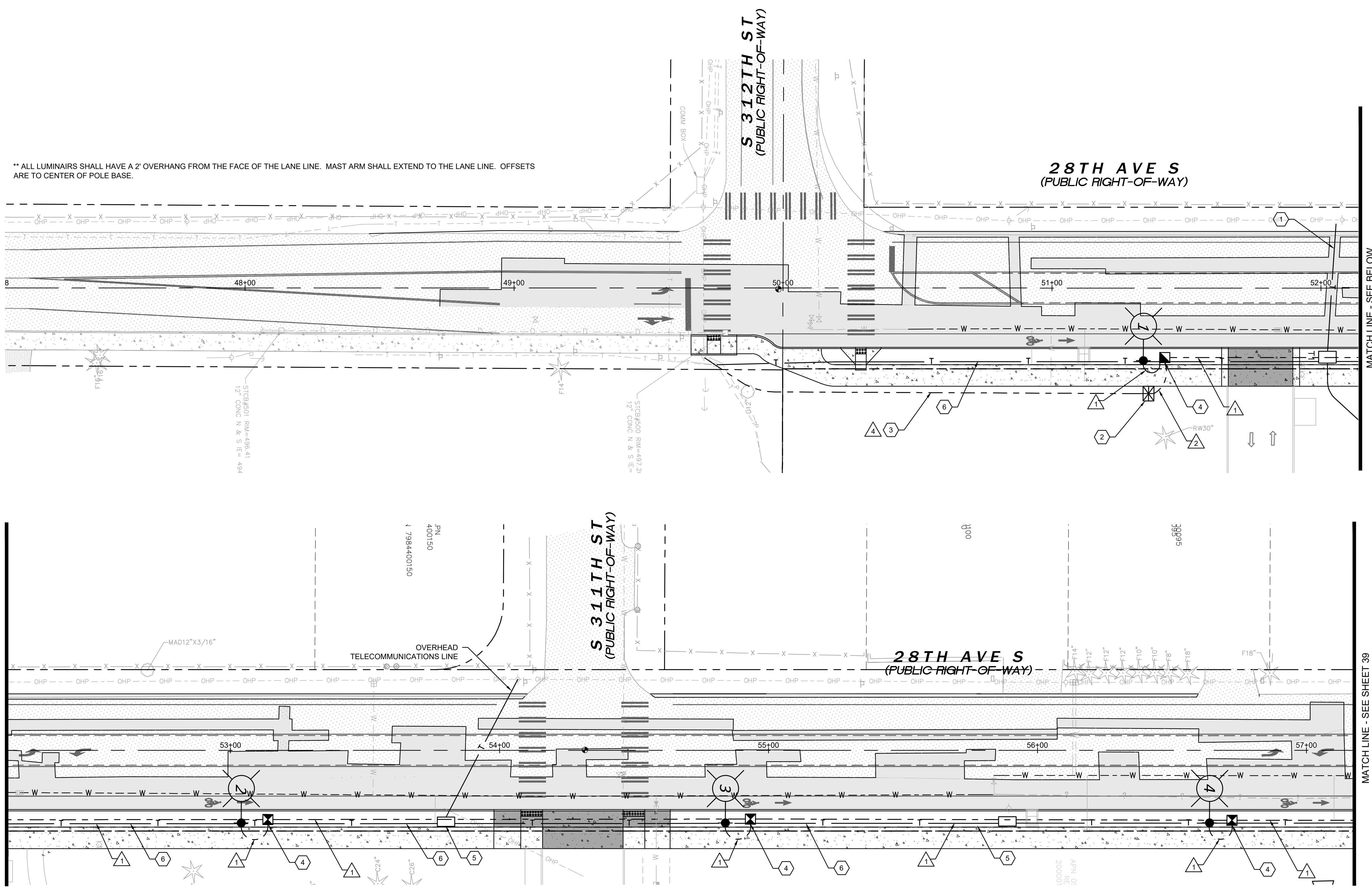


### CONSTRUCTION KEYNOTES

- 1 4" SCHEDULE 40 TELECOMMUNICATIONS CONDUIT, WIRE BY COMCAST. CONNECT TO TELECOMMUNICATIONS. SEE ONSITE TELECOMMUNICATIONS PLANS.
- 2 INSTALL ELECTRICAL SERVICE CABINET. USE CITY OF FEDERAL WAY STANDARD DETAIL DRAWING NO. 50, ILLUMINATION SYSTEM SERVICE CABINET DETAIL AND STANDARD DETAIL DRAWING NO. 51, ILLUMINATION SYSTEM SERVICE CABINET FOUNDATION DETAIL.
- 3 INSTALL CONDUIT AND WIRING TO PSE POWER SOURCE. POWER SOURCE LOCATION TO BE DETERMINED BY PSE. COORDINATE WITH PSE FOR SERVICE HOOK-UP.
- 4 INSTALL JUNCTION BOX. USE CITY OF FEDERAL WAY STANDARD DRAWING NO. 48 ILLUMINATION SYSTEM DETAIL LIGHT STANDARD WIRING AND DRAWING NO. 49 SERVICE CABINET WIRING.
- 5 INSTALL COMCAST SUPPLIED 264-TA HANDHOLE.
- 6 INSTALL COMCAST SUPPLIED (2) PVC 4" TELECOMMUNICATIONS CONDUITS. PROVIDE SCHEDULE 80 CONDUITS UNDER ROADWAYS AND DRIVEWAYS.

### GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF FEDERAL WAY DEVELOPMENT STANDARDS AND SPECIFICATIONS.
- 2. LIGHT STANDARDS SHALL BE IN ACCORDANCE WITH THE CITY OF FEDERAL WAY STANDARD DETAIL DRAWINGS NO. 43, 44, AND 45.
- 3. CONDUIT AND WIRING SHALL BE IN ACCORDANCE WITH CITY OF FEDERAL WAY STANDARD DETAIL DRAWINGS NO. 48 AND 49.
- 4. THE LOCATION OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
- 5. ALL WORK SHALL BE CONSISTENT WITH AFFECTED UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE THE WORK WITH UTILITIES THROUGHOUT THE PROJECT.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY IMMEDIATELY UPON DAMAGE.
- 7. STREET LIGHTING CONDUIT SHALL BE 24-INCHES DEEP TO TOP OF CONDUIT UNLESS NOTED OTHERWISE.
- 8. SEE SHEET 38 STREET LIGHTING AND JOINT UTILITY TRENCH NOTES AND DETAILS FOR CITY OF FEDERAL WAY STREET LIGHTING NOTES.
- 9. ALL UNDERGROUND CONDUIT SHALL BE PVC MINIMUM SCH. 40. PROVIDE SCH. 80 CONDUITS UNDER ROADWAYS AND DRIVEWAYS.
- 10. REFER TO TREE RETENTION PLAN FOR FURTHER DETAILS OF TRENCH PLACEMENT.
- 11. PROVIDE LED ROADWAY AREA LIGHTING FIXTURES. MANUFACTURE/MODEL # ARCH-M-AF24-60-D-U-T2R-4N7-10MSP-AP



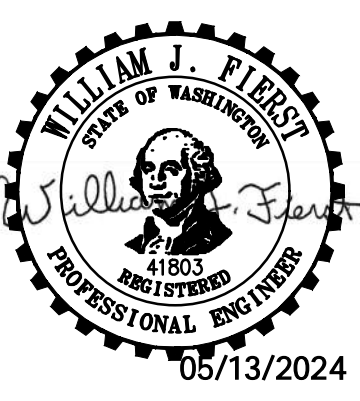
\*\* ALL LUMINAIRS SHALL HAVE A 2' OVERHANG FROM THE FACE OF THE LANE LINE. MAST ARM SHALL EXTEND TO THE LANE LINE. OFFSETS ARE TO CENTER OF POLE BASE.

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 Centered on Opportunity  
 33325 8TH AVE S FEDERAL WAY, WA 98003  
 PHONE: (253) 835-2700  
 WWW.CITYOFFEDERALWAY.COM



DRAFTED: F. KATONA  
 DESIGNED: C. HOVDE  
 REVIEWED: W. FIERST  
 APPROVED:



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# JOINT O&M FACILITY OFFSITE PLANS

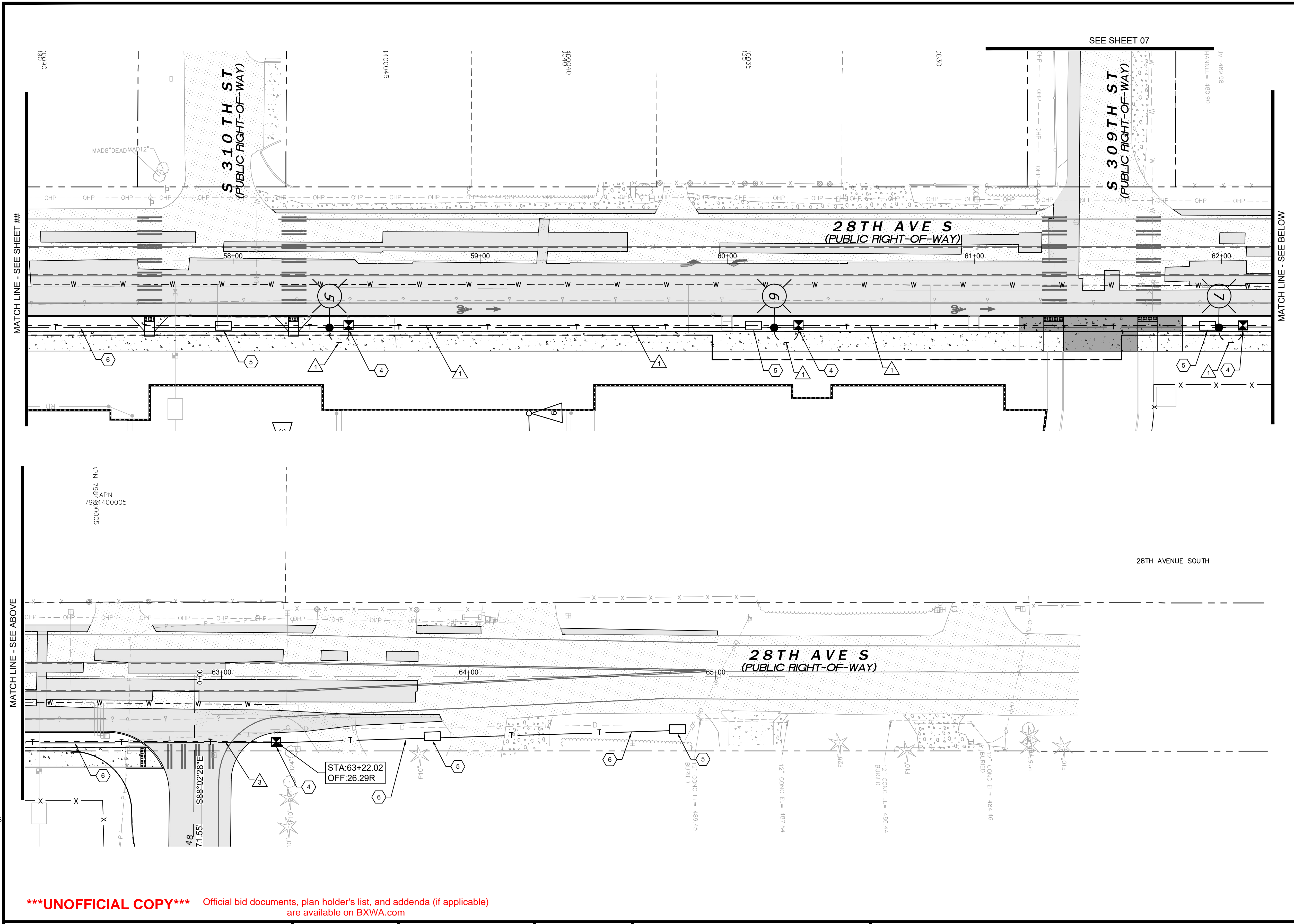
## LIGHTING AND JOINT UTILITY TRENCH PLAN

### 28TH AVE SOUTH

CITY PROJECT #:  
**#36610**  
 SHT. **38**  
 OF **40**

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**CONSTRUCTION KEYNOTES**

- 1 4" SCHEDULE 40 TELECOMMUNICATIONS CONDUIT, WIRE BY COMCAST. CONNECT TO TELECOMMUNICATIONS. SEE ONSITE TELECOMMUNICATIONS PLANS.
- 2 INSTALL ELECTRICAL SERVICE CABINET. USE CITY OF FEDERAL WAY STANDARD DETAIL DRAWING NO. 50, ILLUMINATION SYSTEM SERVICE CABINET DETAIL AND STANDARD DETAIL DRAWING NO. 51, ILLUMINATION SYSTEM SERVICE CABINET FOUNDATION DETAIL.
- 3 INSTALL CONDUIT AND WIRING TO PSE POWER SOURCE. POWER SOURCE LOCATION TO BE DETERMINED BY PSE. COORDINATE WITH PSE FOR SERVICE HOOK-UP.
- 4 INSTALL JUNCTION BOX . USE CITY OF FEDERAL WAY STANDARD DRAWING NO. 48 ILLUMINATION SYSTEM DETAIL LIGHT STANDARD WIRING AND DRAWING NO . 49 SERVICE CABINET WIRING.
- 5 INSTALL COMCAST SUPPLIED 264-TA HANDHOLE.
- 6 INSTALL COMCAST SUPPLIED (2) PVC 4" TELECOMMUNICATIONS CONDUITS. PROVIDE SCHEDULE 80 CONDUITS UNDER ROADWAYS AND DRIVEWAYS.

**GENERAL NOTES**

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF FEDERAL WAY DEVELOPMENT STANDARDS AND SPECIFICATIONS.
- 2. LIGHT STANDARDS SHALL BE IN ACCORDANCE WITH THE CITY OF FEDERAL WAY STANDARD DETAIL DRAWINGS NO. 43, 44, AND 45.
- 3. CONDUIT AND WIRING SHALL BE IN ACCORDANCE WITH CITY OF FEDERAL WAY STANDARD DETAIL DRAWINGS NO. 48 AND 49.
- 4. THE LOCATION OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AS NECESSARY.
- 5. ALL WORK SHALL BE CONSISTENT WITH AFFECTED UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AGENCIES 48 HOURS BEFORE COMMENCING WORK, AND SHALL COORDINATE THE WORK WITH UTILITIES THROUGHOUT THE PROJECT.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY AND THE CITY IMMEDIATELY UPON DAMAGE.
- 7. STREET LIGHTING CONDUIT SHALL BE 24-INCHES DEEP TO TOP OF CONDUIT UNLESS NOTED OTHERWISE.
- 8. SEE SHEET 38 STREET LIGHTING AND JOINT UTILITY TRENCH NOTES AND DETAILS FOR CITY OF FEDERAL WAY STREET LIGHTING NOTES.
- 9. ALL UNDERGROUND CONDUIT SHALL BE PVC MINIMUM SCH. 40. PROVIDE SCH. 80 CONDUITS UNDER ROADWAYS AND DRIVEWAYS.
- 10. REFER TO TREE RETENTION PLAN FOR FURTHER DETAILS OF TRENCH PLACEMENT.
- 11. PROVIDE LED ROADWAY AREA LIGHTING FIXTURES, MANUFACTURE/MODEL # ARCH-M-AF24-60-D-U-T2R-4N7-10MSP-AP

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 33325 8TH AVE S FEDERAL WAY, WA 98003  
 PHONE: (253) 835-2700  
 WWW.CITYOFFEDERALWAY.COM

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 Know what's below.  
 Call before you dig.

DRAFTED: F. KATONA  
 DESIGNED: C. HOVDE  
 REVIEWED: W. FIERST  
 APPROVED:

**WILLIAM J. FIERST**  
 STATE OF WASHINGTON  
 PROFESSIONAL ENGINEER  
 05/13/2024

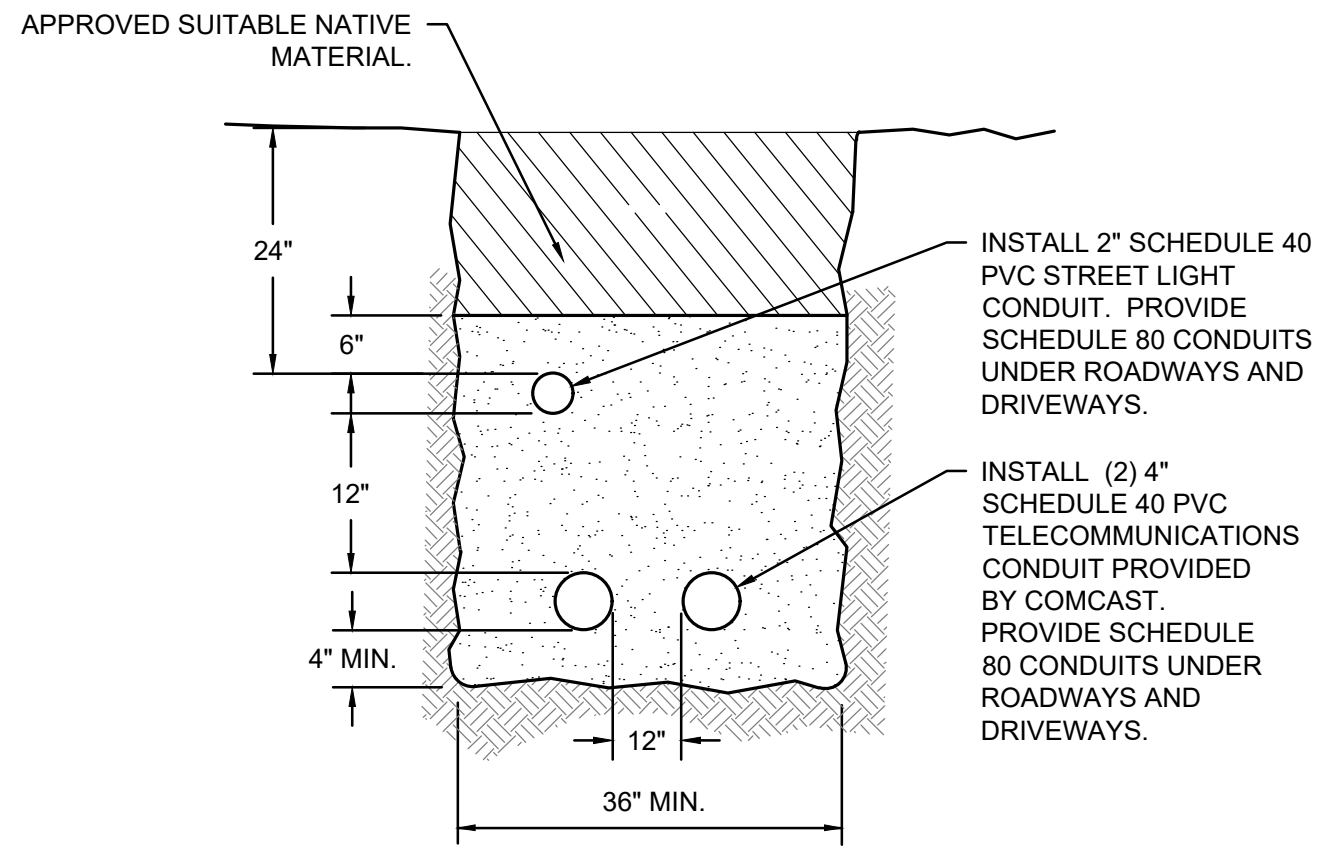
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**JOINT O&M FACILITY OFFSITE PLANS**  
**LIGHTING AND JOINT UTILITY TRENCH PLAN**  
**28TH AVE SOUTH**

CITY PROJECT #:  
**#36610**  
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1 JOINT UTILITY TRENCH  
N.T.S.

**LEGEND**

- CONDUIT AND WIRING
- △ WIRE NOTE
- CONSTRUCTION NOTE
- ⊙ LIGHT STANDARD AND LUMINAIRE
- ☒ TYPE 1 JUNCTION BOX
- ☑ TYPE 2 JUNCTION BOX
- ☒ SERVICE CABINET

**STREET LIGHTING NOTES**

1. THE CONTRACTOR SHALL ACQUIRE AN ELECTRICAL PERMIT FROM THE CITY'S BUILDING DEPARTMENT. THE ELECTRICAL PERMIT SHALL BE KEPT IN THE UPPER BAY OF THE SERVICE CABINET.
2. UPON COMPLETION OF UNDERGROUND INSTALLATION OF POWER FROM POWER VAULT OR POLE TO SERVICE CABINET, CONTRACTOR SHALL NOTIFY THE BUILDING DEPARTMENT. UPON FINAL ELECTRICAL PERMIT APPROVAL, THE ELECTRICAL INSPECTOR WILL PLACE AN APPROVAL TAG NEXT TO THE METER BASE SO THAT ELECTRICAL SERVICE CAN BE AUTHORIZED.
3. THE CONTRACTOR SHALL COORDINATE POWER SOURCE AND SERVICE LOCATION WITH THE UTILITY COMPANY.
4. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER (1-800-424-5555) AT LEAST 3 DAYS BEFORE DIGGING.
5. FIELD ADJUST POLE BASES TO BE LEVEL WITH SIDEWALK SURFACE (SEE CITY STANDARD DRAWINGS 3-39A AND 3-43).
6. LOCATE LIGHT POLES SO THAT THE POLE IS A MINIMUM OF SIX (6) FEET BEHIND THE FACE OF CURB, AND THE LUMINAIRE EXTENDS TWO (2) FEET BEYOND THE FACE OF CURB. LIGHT POLES SHALL NOT BE LOCATED WITHIN THE SIDEWALK. POLE BASES MAY BE LOCATED WITHIN THE SIDEWALK ONLY WITH CITY APPROVAL.
7. JUNCTION BOXES SHALL BE LOCATED BEHIND THE SIDEWALK, AND WITHIN FIVE (5) FEET OF THE POLE.
8. CONDUIT SHALL BE SCHEDULE 80 PVC UNDER ALL STREET AND DRIVEWAY CROSSINGS. SCHEDULE 40 PVC CONDUIT IS ACCEPTABLE UNDER LANDSCAPED AREAS.
9. IMMEDIATELY FOLLOWING FINAL INSPECTION OF THE STREET LIGHT SYSTEM BY KING COUNTY, ALL STREET LIGHT SYSTEM J-BOXES SHALL BE SPOT WELDED SHUT USING A 1" WELD ON OPPOSITE CORNERS

**CONSTRUCTION NOTES**

1. INSTALL LIGHT STANDARD FOUNDATION, POLE, DAVIT ARM, AND LUMINAIRE IN LOCATION SHOWN AND IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, SPECIAL PROVISIONS, AND THE CITY DETAILS
2. INSTALL JUNCTION BOXES
3. INSTALL FOUNDATION AND SERVICE CABINET IN APPROXIMATE LOCATION SHOWN (DOORS FACING 28TH AVE S) AND IN ACCORDANCE WITH THE CITY DETAILS
4. COORDINATE WITH SERVING UTILITY FOR ELECTRICAL CONNECTION POINT. RUN SERVICE CONDUCTOR IN ACCORDANCE WITH POWER UTILITY AND CITY OF FEDERAL WAY PERMIT REQUIREMENTS. CONTRACTOR SHALL SUPPLY ANY CONDUIT AND FITTINGS, JUNCTION BOXES, AND HARDWARE REQUIRED BY THE SERVING UTILITY FOR SERVICE.

**GENERAL NOTES**

1. ALL LIGHT STANDARDS AND JUNCTION BOXES SHALL BE INSTALLED WITHIN A CONCRETE PAD IN ACCORDANCE WITH THE CITY DETAIL
2. ALL JUNCTION BOXES SHALL INCLUDE THE SYSTEM IDENTIFICATION LETTERS "LT".
3. LIGHT STANDARDS SHALL BE PLACED SUCH THAT THERE IS A MINIMUM OF 5.0 FT FROM CENTER OF STANDARD TO FACE OF CURB. ANCHOR BOLTS SHALL NOT BE IN THE SIDEWALK.
4. THE LOCATIONS SHOWN FOR JUNCTION BOXES ARE APPROXIMATE AND SHOWN OVERSIZE. FIELD ADJUSTMENT MAY BE NECESSARY. ALL CONSTRUCTION AND ACTIVITIES SHALL BE LOCATED WITHIN RIGHT-OF-WAY.

LUMINAIRE SCHEDULE			SERVICE NO. 2557			
PLAN NUMBER	ID NUMBER	SERVICE - CIRCUIT	TYPE - WATTS	MASTARM	STATION / OFFSET*	MTG HEIGHT
1	2557-1-SL1-1	28/312 - 1	II - 60	8 FT	51+33.96 27' RT	35 FT
2	2557-1-SL1-2	28/312 - 1	II - 60	8 FT	53+03.96 27' RT	35 FT
3	2557-1-SL1-3	28/312 - 1	II - 60	8 FT	54+83.96 27' RT	35 FT
4	2557-1-SL1-4	28/312 - 1	II - 60	8 FT	56+63.96 27' RT	35 FT
5	2557-1-SL1-5	28/312 - 1	II - 60	8 FT	58+38.96 27' RT	35 FT
6	2557-1-SL1-6	28/312 - 1	II - 60	8 FT	60+18.96 27' RT	35 FT
7	2557-1-SL1-7	28/312 - 1	II - 60	8 FT	61+98.96 28' RT	35 FT

\* OFFSET DISTANCES ARE FROM CONSTRUCTION CENTERLINE TO CENTER OF LIGHT STANDARD. ANCHOR BOLTS SHALL NOT BE IN THE SIDEWALK. MINOR FIELD-ADJUSTMENT OF OFFSETS MAY BE NECESSARY TO ACCOUNT FOR CONSTRUCTION TOLERANCES.

WIRING SCHEDULE			
△ RUN NO.	CONDUIT	WIRE	COMMENTS
1	2" PVC	2-#8 (ILLUM)	SHALL BE ALUMINUM
2	2" PVC	2-#8 (ILLUM)	SHALL BE ALUMINUM
	2" PVC	SPARE	WITH GROUND AND PULL TAPE
3	2" PVC	SPARE	WITH GROUND AND PULL TAPE
4	PER PSE (2" MINIMUM)	PER PSE (3-#6 MINIMUM)	PER PSE

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DRAFTED: F. KATONA  
DESIGNED: C. HOVDE  
REVIEWED: W. FIERST  
APPROVED:

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NO.	DATE	REVISION

JOINT O&M FACILITY OFFSITE PLANS

LIGHTING AND UTILITY TRENCH NOTES AND DETAILS

CITY PROJECT #:  
**#36610**

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