

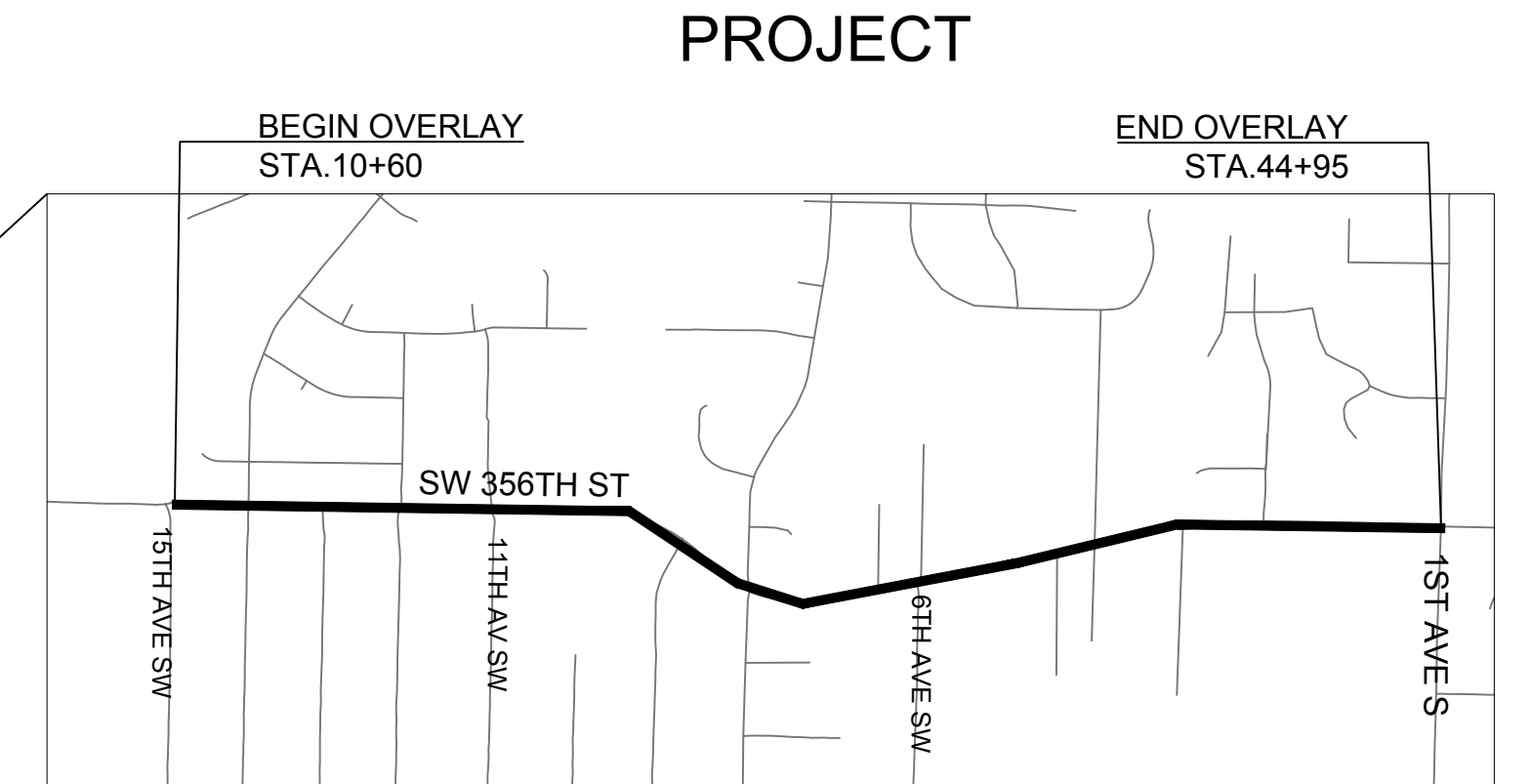
City of Federal Way Public Works Department SW 356TH STREET PRESERVATION PROJECT

SEPTEMBER, 2020

RFB# 20-009

FEDERAL AID # STPUL-1000(005)

DRAWING INDEX		
DWG #	TITLE	LOCATION
GENERAL		
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02	GENERAL NOTES & LEGEND	--
03	SURVEY CONTROL AND ALIGNMENT	SURVEY CONTROL AND ALIGNMENT
SW 356TH STREET: GENERAL DETAILS		
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14	RAMP 13, 14, 15	--
15	RAMP 16, 17, 18	--
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APPROVED FOR CONSTRUCTION

DESIREE S. WINKLER P.E. _____ DATE _____
DEPUTY PUBLIC WORKS DIRECTOR

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DRAFTED: J. MULKEY
DESIGNED: J. MULKEY
REVIEWED: S. HAMEL
APPROVED: D. WINKLER



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NO.	DATE	REVISION

SW 356TH STREET PRESERVATION PROJECT
COVER SHEET, VICINITY MAP, & DRAWING INDEX
SW 356TH STREET

CITY PROJECT #:
36215
SHT. **01**
OF **25**

NOTE:

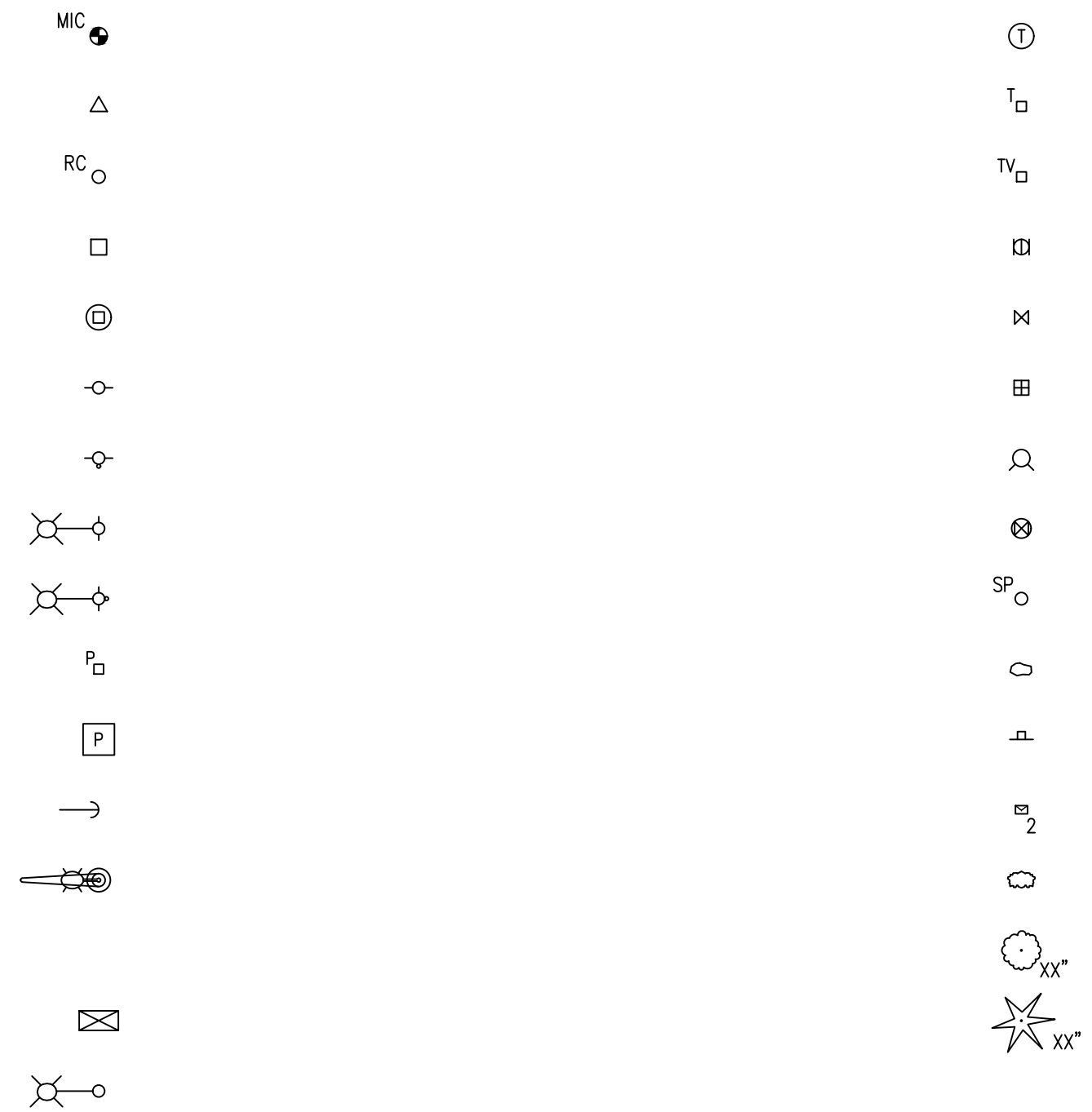
CONTRACTOR TO INCLUDE FOLLOWING WORK IN BID

- ADJUST ALL STORM DRAINAGE MH'S, CB'S, MONUMENT BOXES AND OTHER STRUCTURES NOTED IN THE PLANS TO FINAL PAVEMENT GRADE AFTER OVERLAY. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL OTHER UTILITY APPURTENANCES IN THE AREAS TO BE PAVED.
- LOCATION AND LIMITS OF CURB RAMP TO BE DETERMINED BY ENGINEER IN THE FIELD.
- CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE TO PROPERTY OWNERS TO ALLOW PARKING AND ACCESS TO RESIDENCES DURING PLANING AND PAVING OPERATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND LAYING OUT ALL CHANNELIZATION WHICH SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO VARIOUS BID ITEMS OF THE CONTRACT.
- CONTRACTOR SHALL COORDINATE WORK WITH THE LOCAL GARBAGE DISPOSAL COMPANY TO AVOID CONFLICT.
- CONTRACTOR SHALL COORDINATE WORK WITH TRANSIT PROVIDERS TO AVOID CONFLICT.

NOTES

- THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- FIELD SURVEY: KPG, NOVEMBER 2019. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
- CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
- STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
- DUCTS ARE NOTED AS INDICATED IN THE FIELD BY UTILITY LOCATORS. MULTIPLE LINES AND/OR UTILITIES MAY SHARE DUCT RUNS; THIS MAY NOT BE SHOWN IN THE DRAWING.

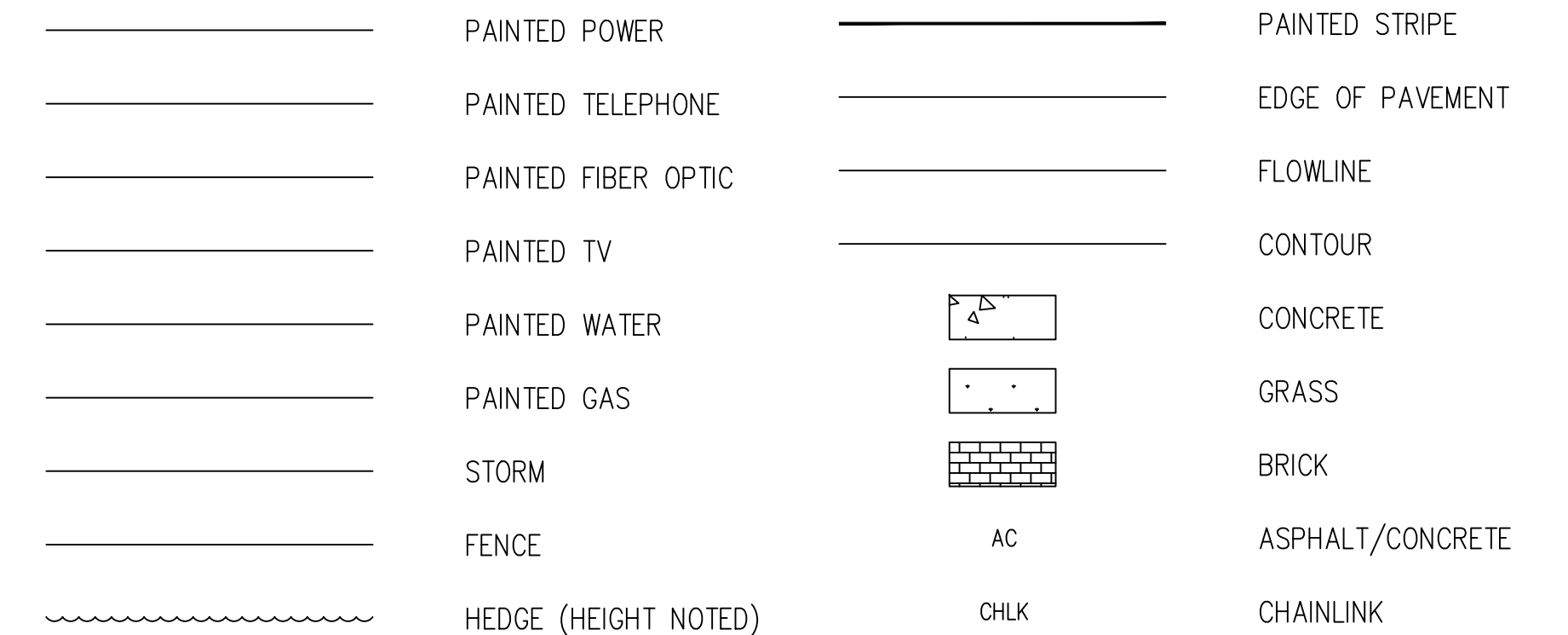


HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: / NAD 83/11

VERTICAL DATUM: NAVD 88

HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK) WITH CHECKS TO WSDOT CONTROL POINTS GP17005-238 AND GP17005-133.



PAVEMENT MARKING CONSTRUCTION NOTES:

- 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
- 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 4" PLASTIC LINE (MATERIAL TYPE D)
- 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
- PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02

SITE PREP AND PAVING CONSTRUCTION NOTES:

- SAWCUT ASPHALT PAVEMENT OR CONCRETE
- ADJUST MANHOLE
- ADJUST CATCH BASIN
- INSTALL HEAVY DUTY FRAME AND LID PER SECTION 7-XX OF THE SPECIAL PROVISIONS
- ADJUST MONUMENT CASE AND COVER
- ADJUST WATER VALVE TO GRADE
- ADJUST SANITARY SEWER MANHOLE TO GRADE
- CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
- CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
- CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
- CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
- CEMENT CONC. CURB AND GUTTER
- CEMENT CONC. SIDEWALK
- CEMENT CONC. APPROACH
- SOD, INCL. 4" TOPSOIL
- TYPE 1 CATCH BASIN WITH THROUGH CURB INLET
- CONNECT TO EXISTING PIPE
- ADJUST WATER VAULT TO GRADE
- UTILITY NON-SLIP COATING

LEGEND:

- C/G = EXISTING CURB & GUTTER
- EP = EXISTING EDGE OF PAVEMENT
- TE = EXISTING THICKENED EDGE
- ☉ = MONUMENT CASE
- ⊗ = EXISTING FIRE HYDRANT
- ⊕ = EXISTING STORM DRAIN CATCH BASIN
- ⊙ = EXISTING MANHOLE
- ⊙ = EXISTING STORM DRAIN MANHOLE
- ⊙ = EXISTING JUNCTION BOX
- = INLET PROTECTION
- = GAS VALVE
- ▨ = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER
- ▨ = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER
- ▨ = DIG OUT AND REPAIR ROAD SECTION PER SECTIONS & DETAILS SHEET 42 OF 44

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DESIGNED: J. MULKEY
REVIEWED: S. HAMEL
APPROVED: D. WINKLER



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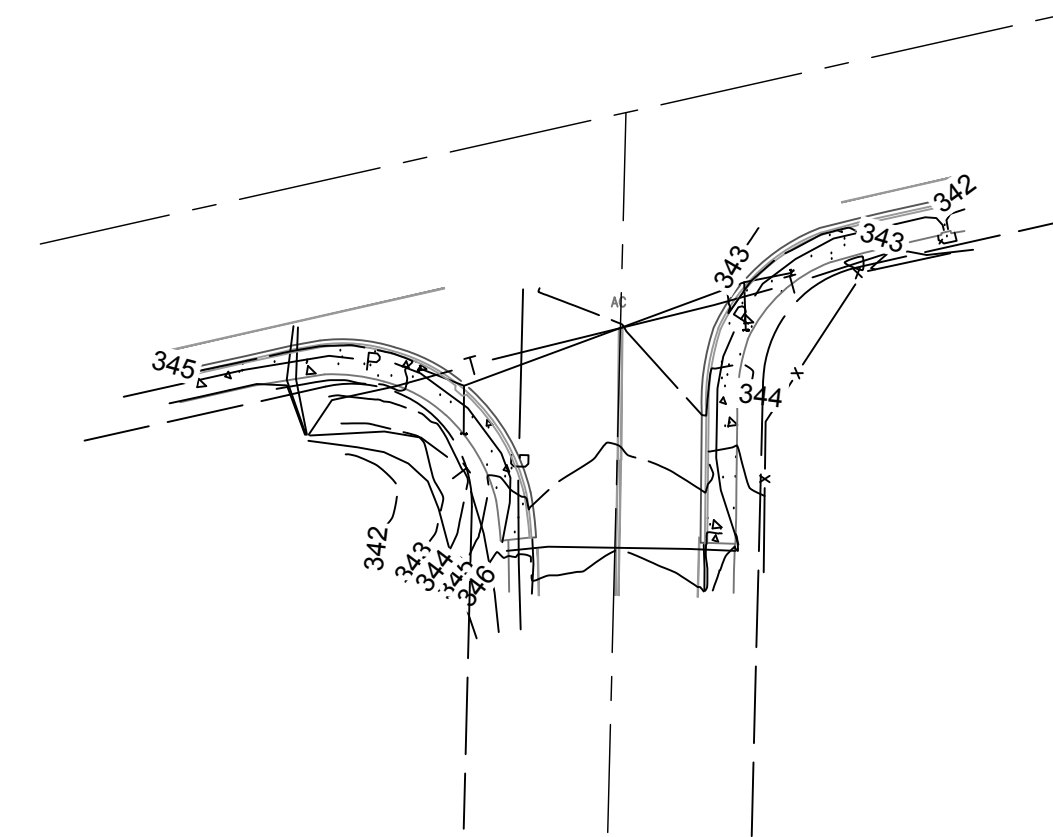
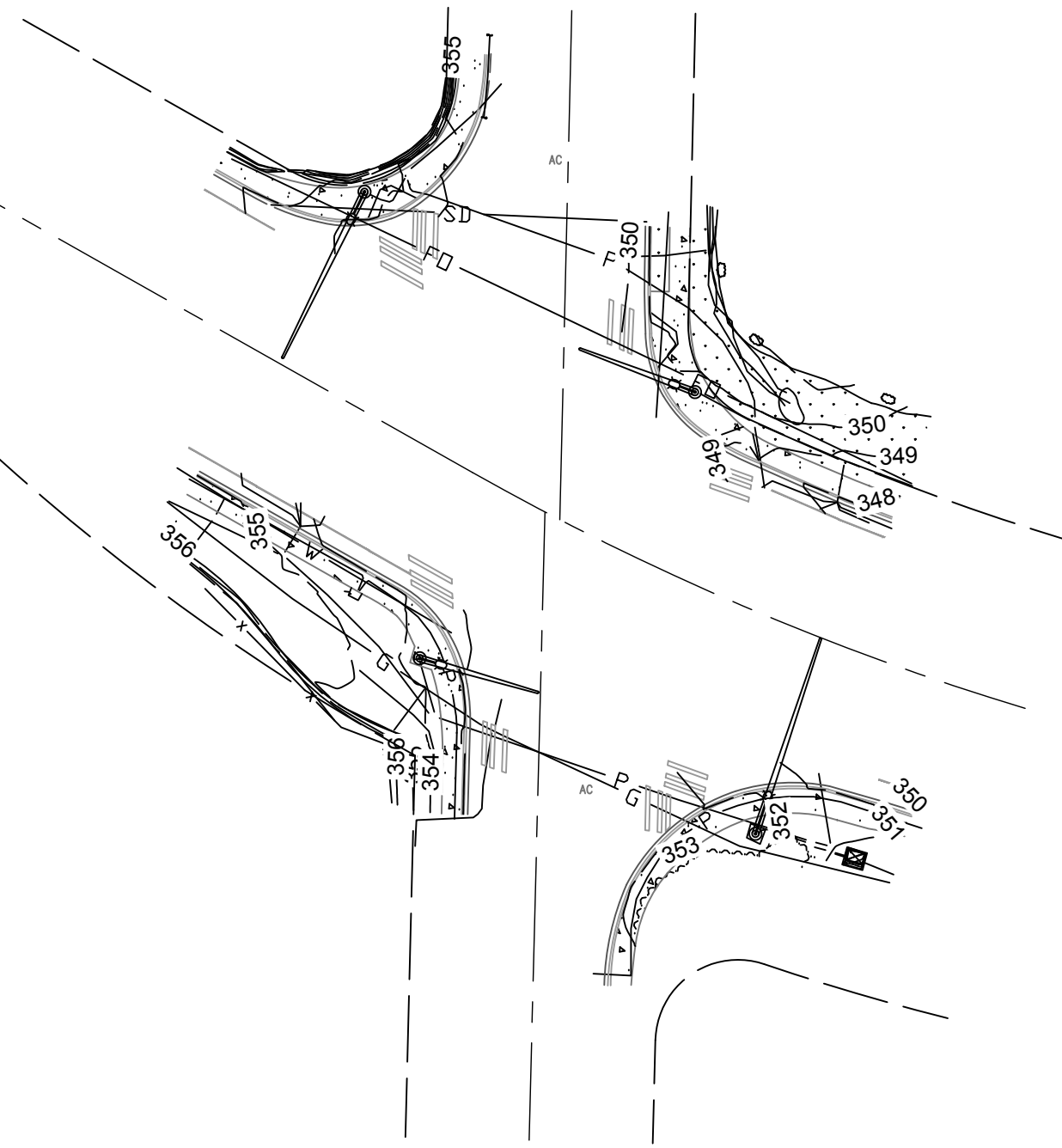
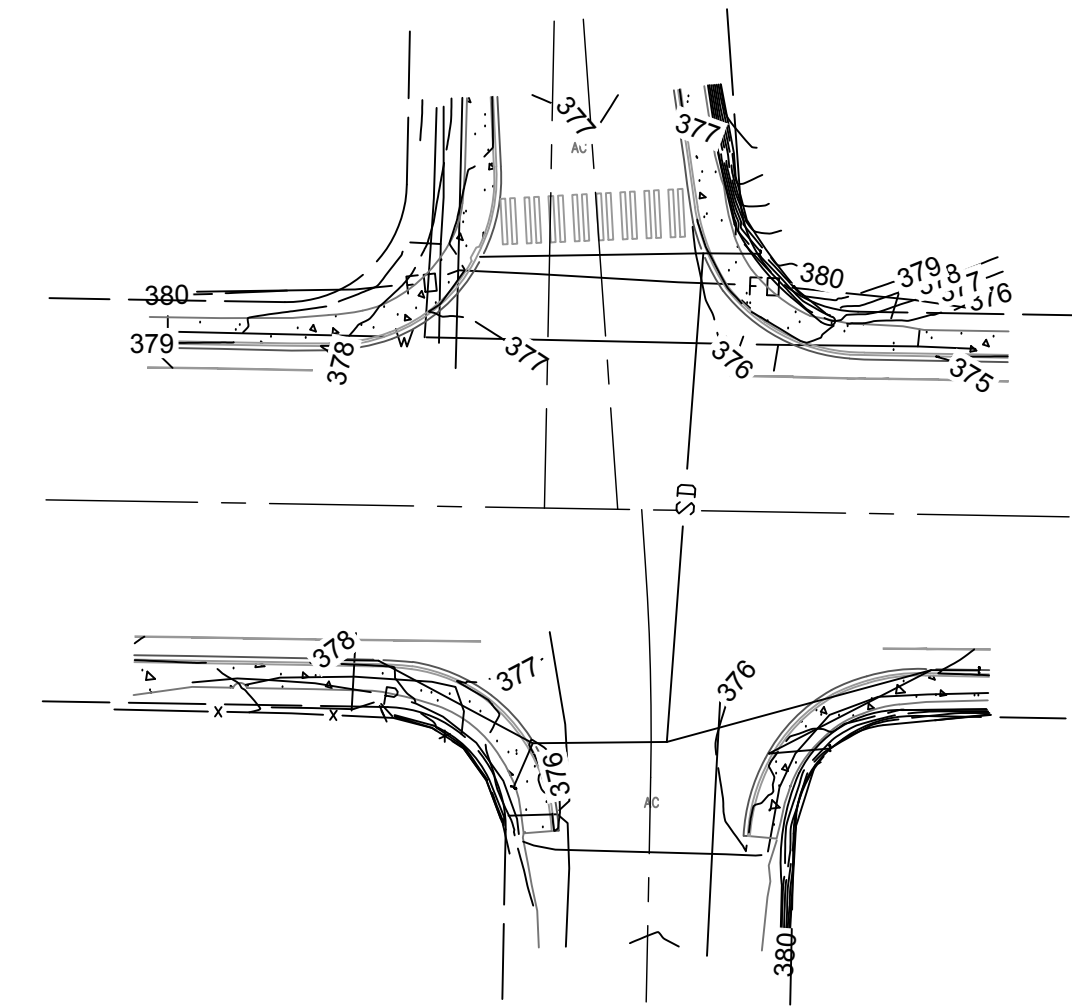
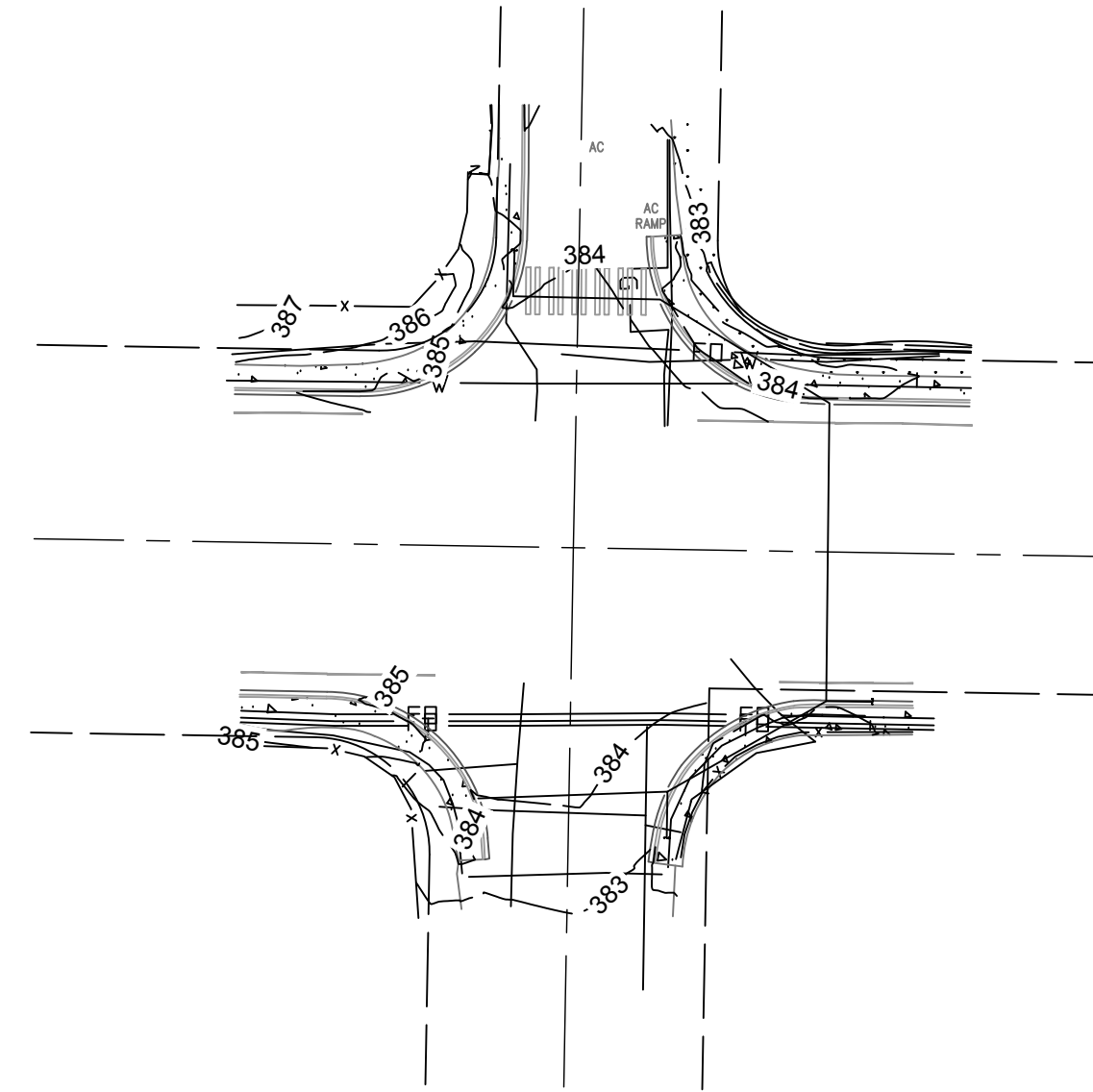
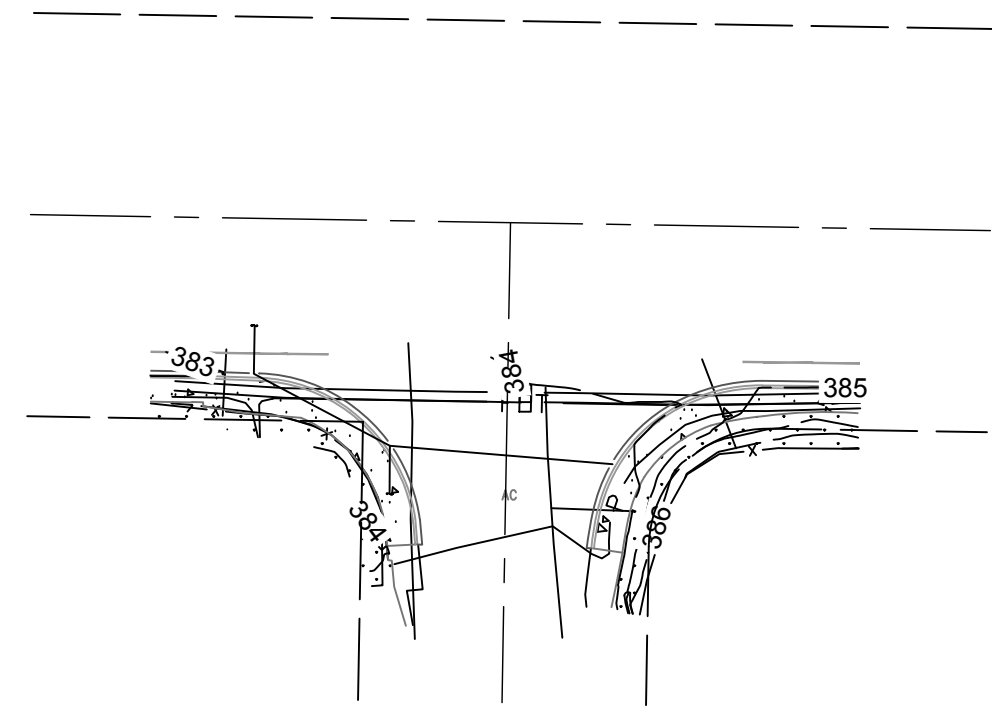
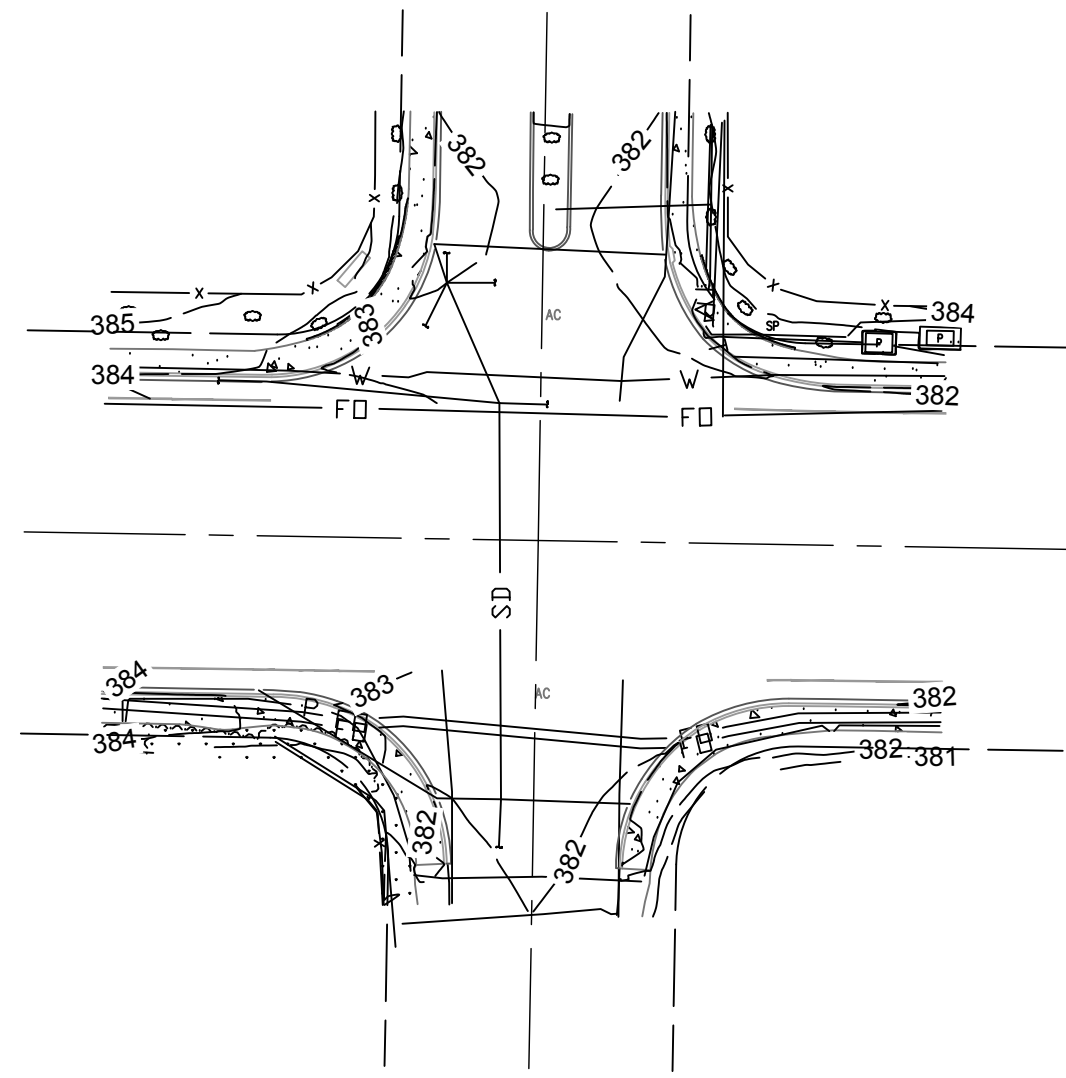
SW 356TH STREET PRESERVATION PROJECT

GENERAL NOTES & LEGEND

SW 356TH STREET PRESERVATION PROJECT

CITY PROJECT #:
36215

SHT. **02**
OF **25**



CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
12	SPIKE	106491.28	1265126.18	353.37'
13	SPIKE	105507.72	1265143.82	365.02'
101	SPIKE	106476.52	1265749.82	345.11'
102	SPIKE	106810.61	1264682.12	369.64'
103	SPIKE	106832.48	1264218.08	376.07'
104	SPIKE	106761.50	1263802.59	385.06'
105	SPIKE	106851.95	1263294.32	382.29'
106	SPIKE	106772.20	1263228.81	382.60'
107	SPIKE	105628.97	1263244.07	405.08'

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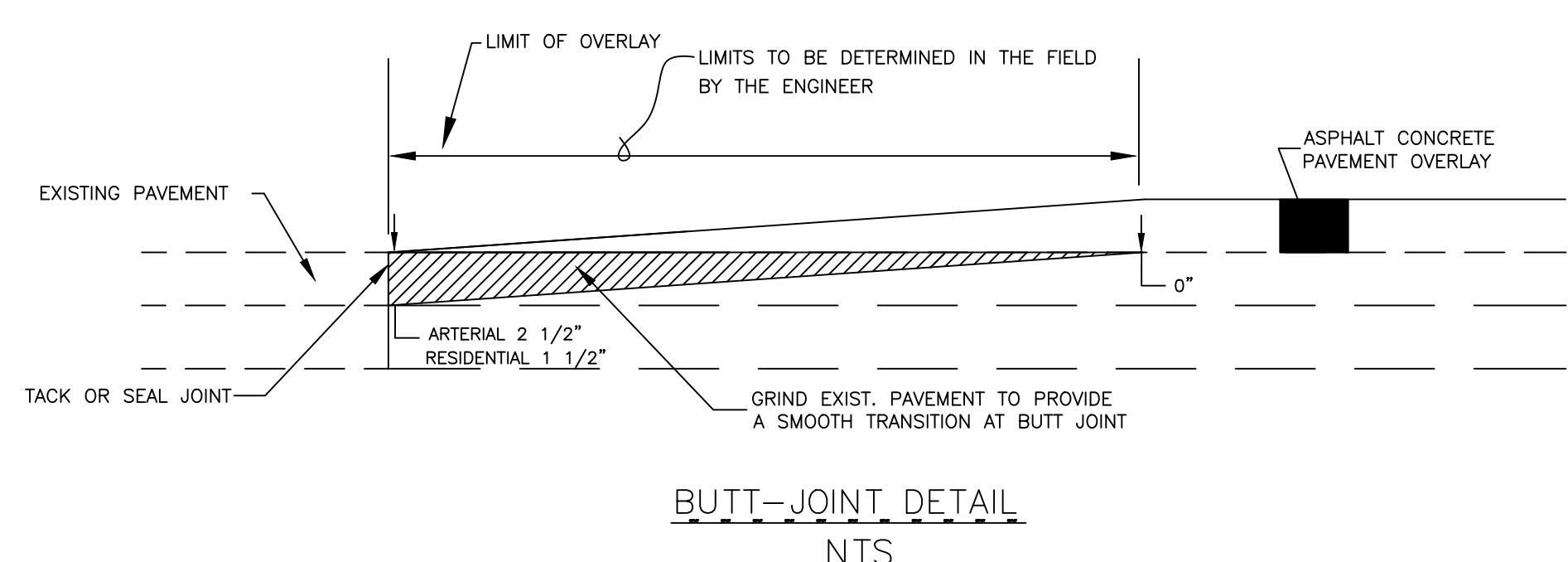
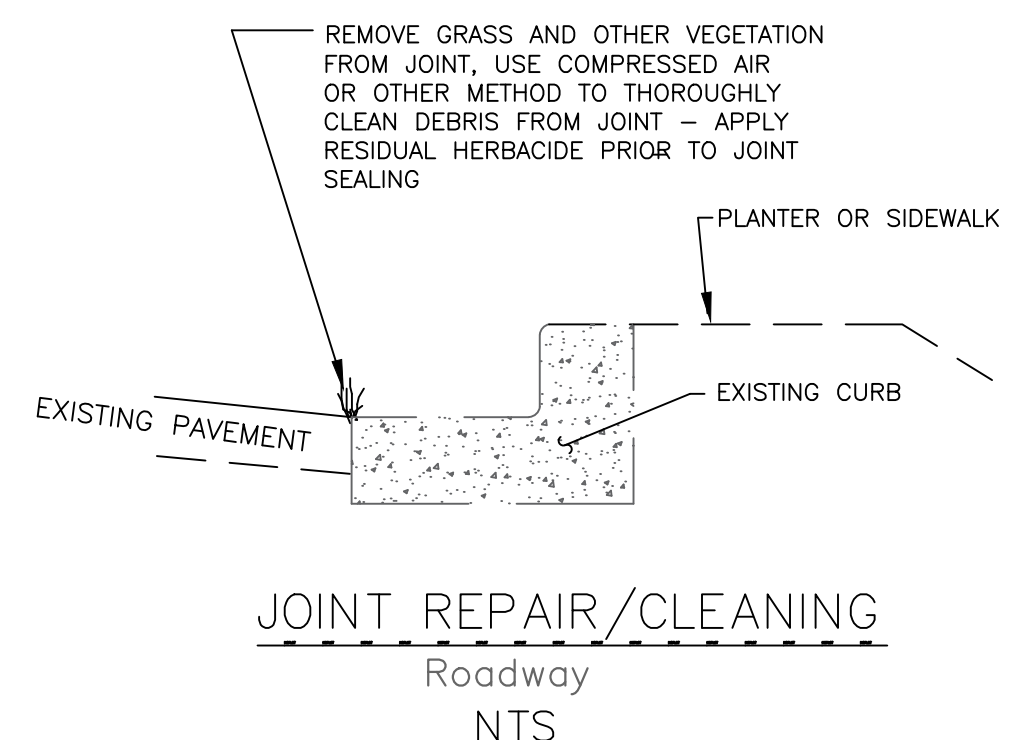
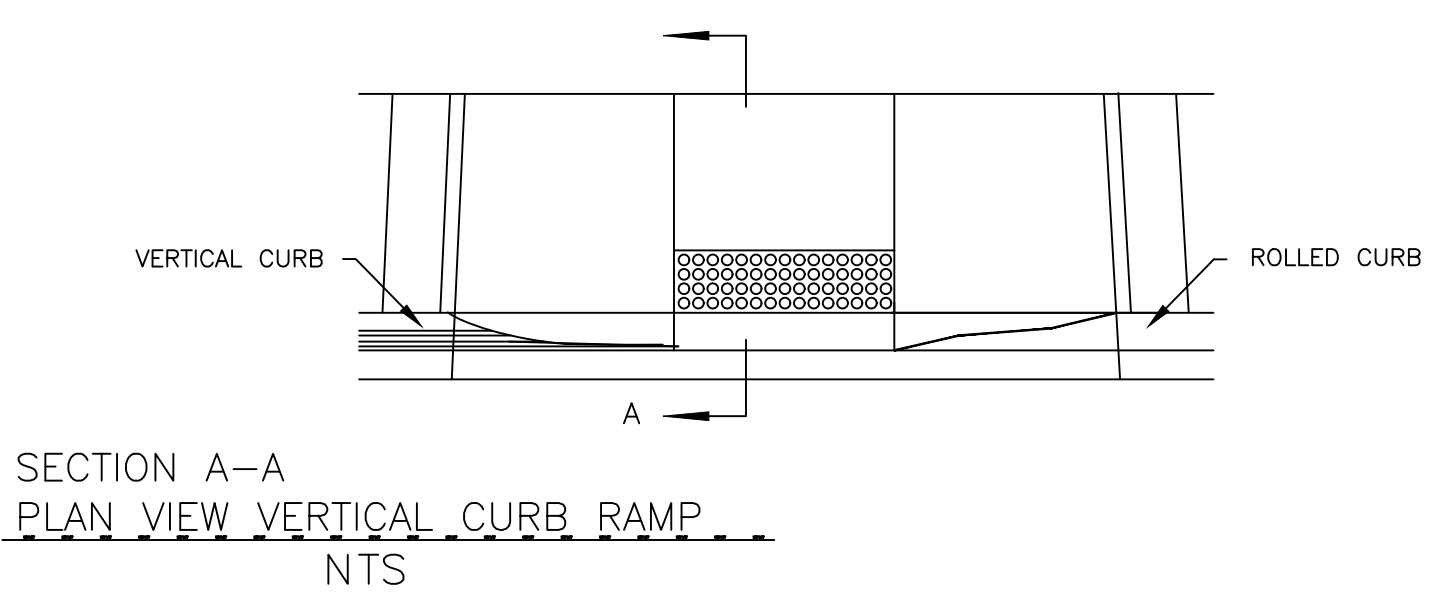
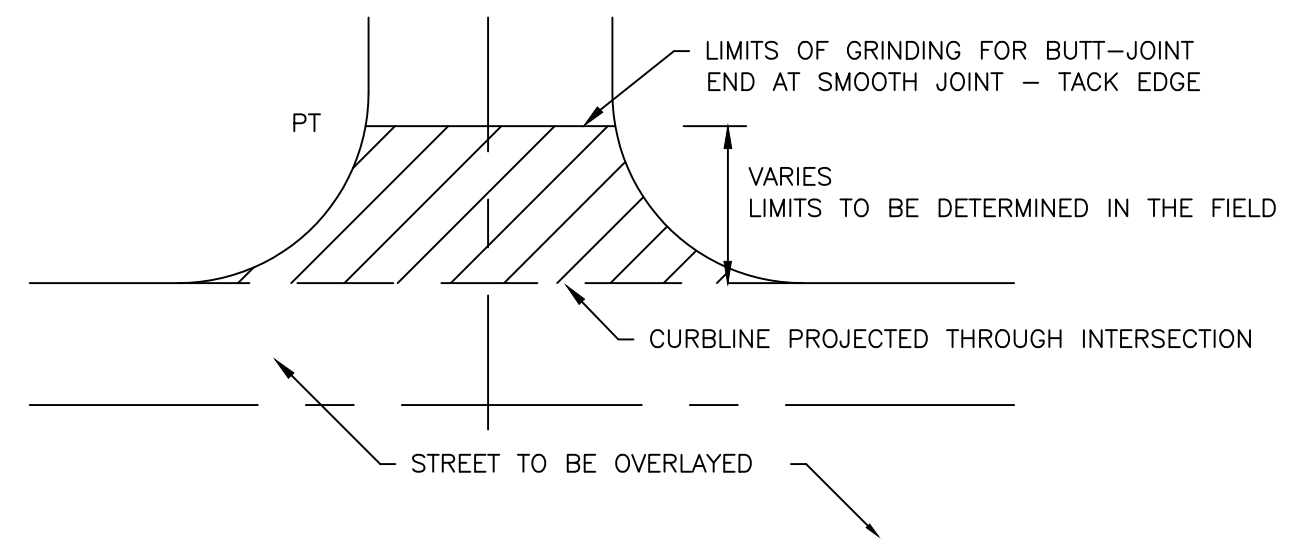
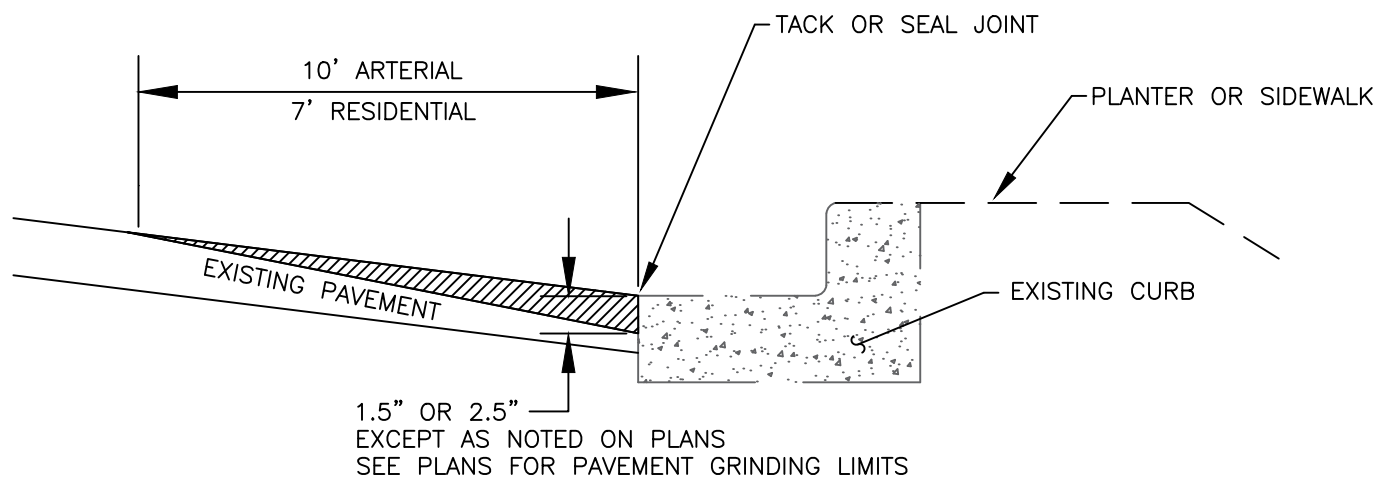
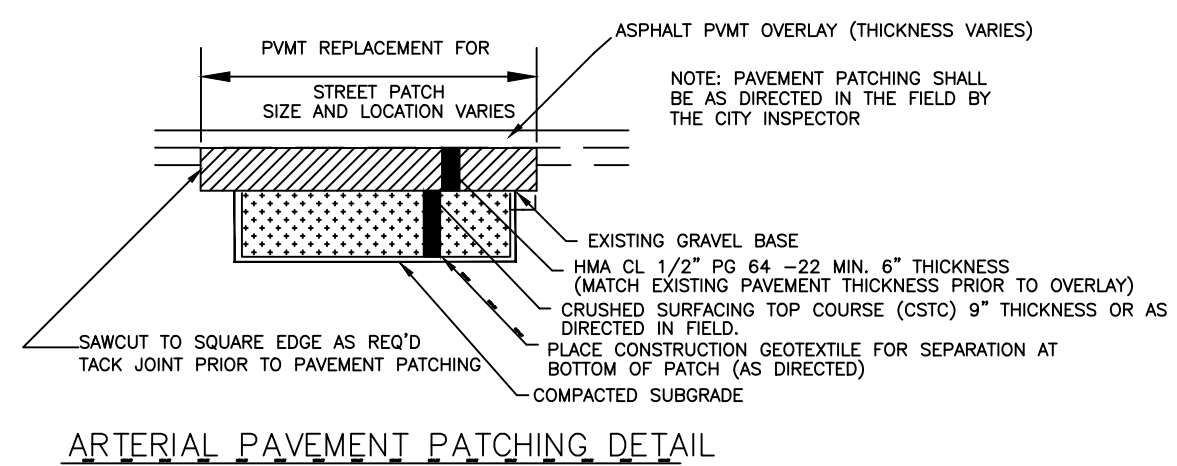
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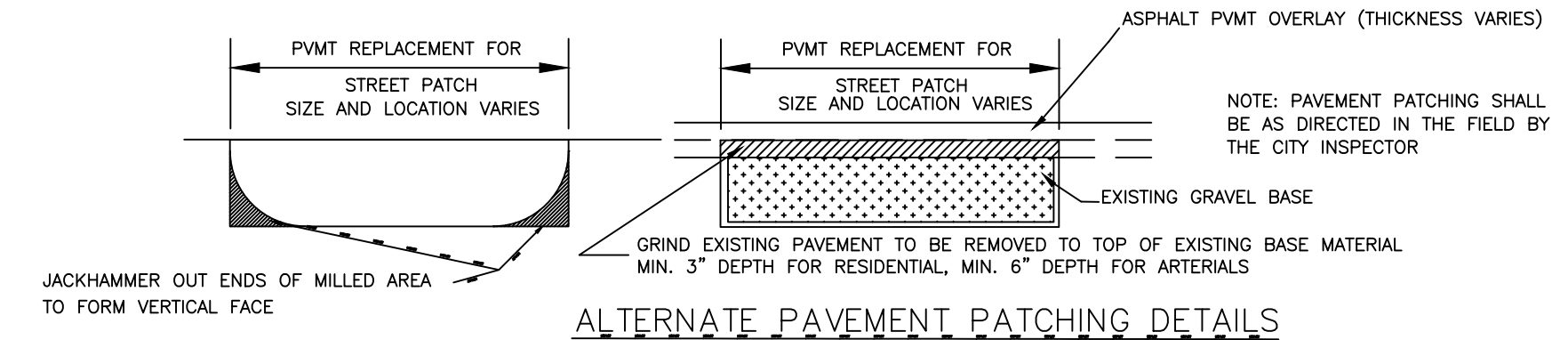
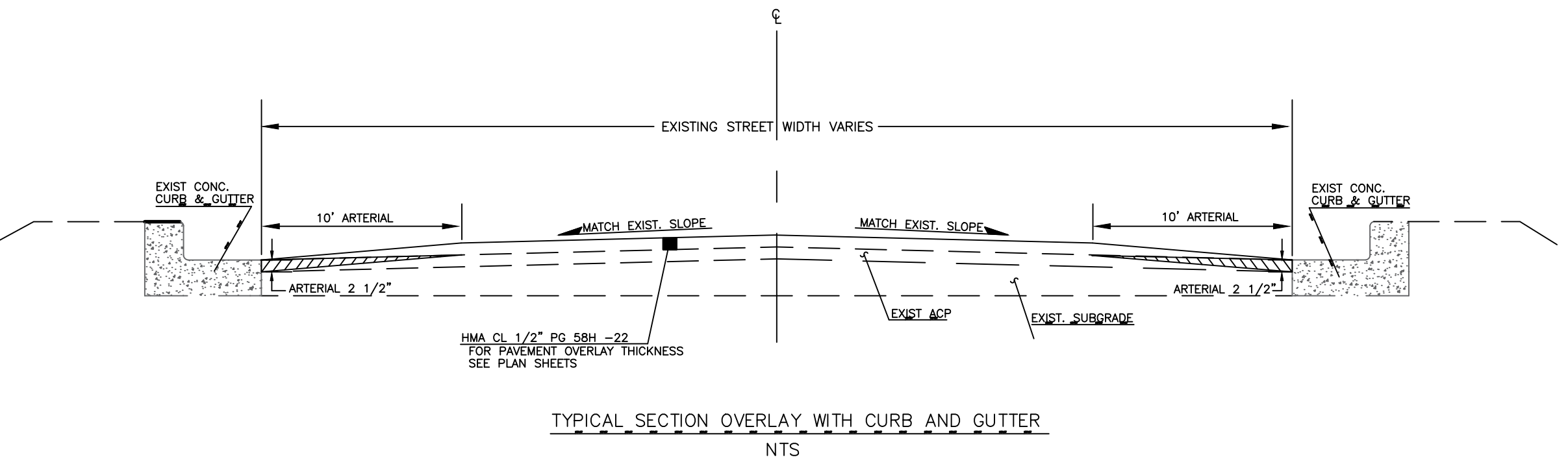
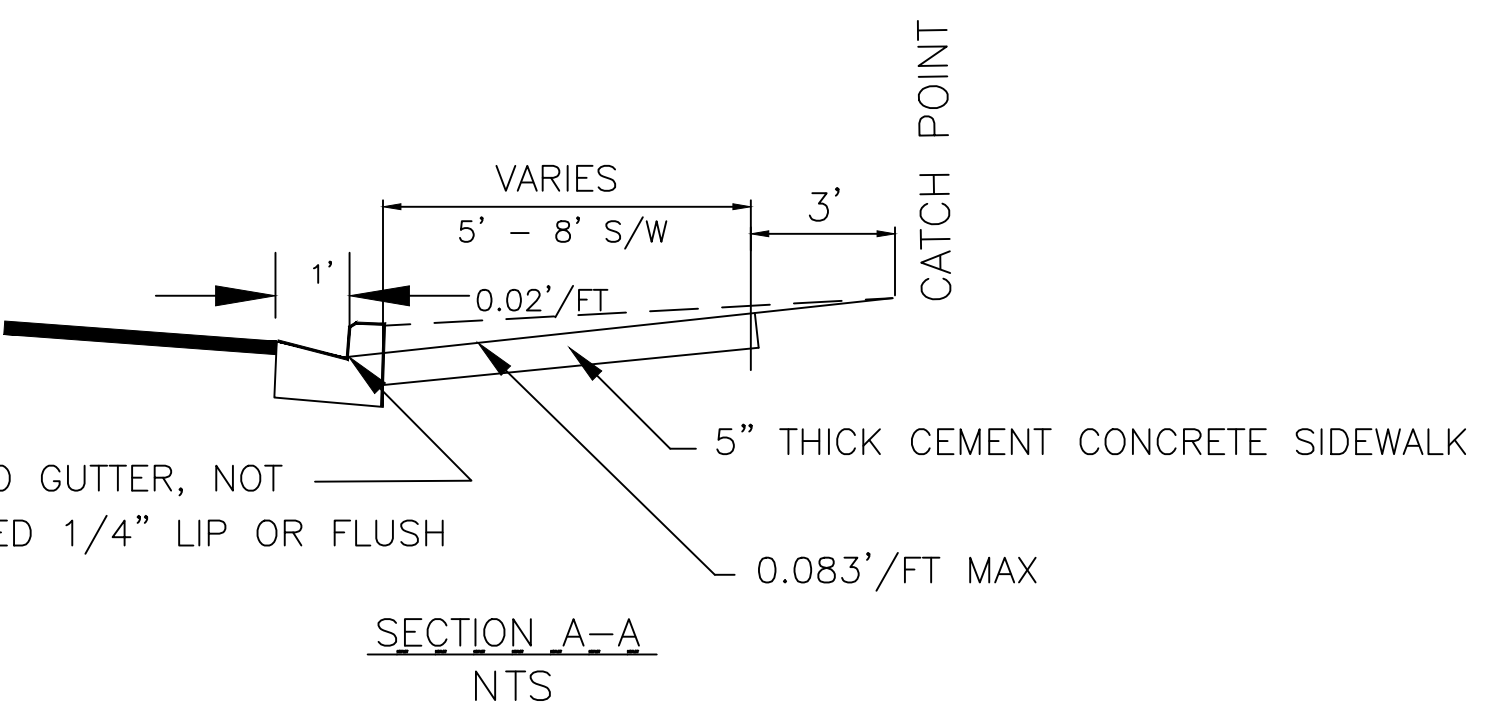
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SW 356TH STREET PRESERVATION PROJECT
SURVEY CONTROL AND ALIGNMENT
SW 356TH STREET PRESERVATION PROJECT

CITY PROJECT #:
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 OF **25**



Street	Planing Width @ Curb & Gutter	Asphalt Overlay Thickness
SW 356TH ST STATION	10'	2.5"

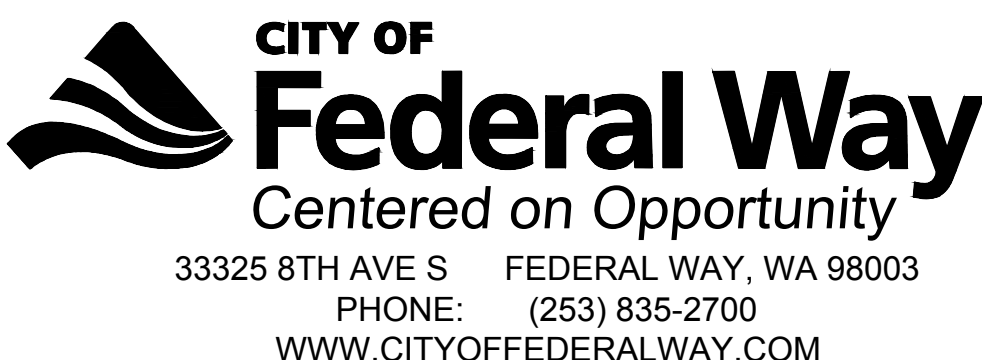


NOTES FOR CURB RAMP REMOVAL AND REPLACEMENT:

- EXISTING CURB RAMPS LOCATED AT INTERSECTIONS WITHIN THE LIMITS OF THE OVERLAY AREA SHALL BE REMOVED AND REPLACED WITH NEW CURB RAMPS CONFORMING TO THE REVISED STATE AND FEDERAL CRITERIA, AND THE DETAIL SHOWN.
- THE CITY OF FEDERAL WAY SHALL DESIGNATE THOSE RAMPS TO BE REMOVED AND RECONSTRUCTED. REMOVAL SHALL BE TO THE NEAREST JOINT. SAWCUT AT EXPANSION JOINT AS REQUIRED. REMOVE SIDEWALK AND CURB AND GUTTER AS REQUIRED TO OBTAIN ADEQUATE SPACING FOR NEW RAMP, TRANSITION, AND WARNING STRIP.
- FOR DIMENSIONS OF CURB RAMPS, REFER TO RAMP SHEETS. SPECIFICATIONS.

RAMP NOTES:

- RAMP AND APPROACHES SHALL BE CLEAR OF ALL OBSTACLES, INCLD HYDRANTS, POLES, AND INLETS.
- RAMP CENTERLINE SHALL BE PERPENDICULAR (OR RADIAL) TO CURB RETURNS.
- ON ARTERIAL STREETS, IN GENERAL CASE CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLY ADJACENT TO THE MAIN PEDESTRIAN PATHS, AND SHALL BE ALIGNED WITH THE CROSSWALKS.
- ON RESIDENTIAL STREETS AND/OR WHEN UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.



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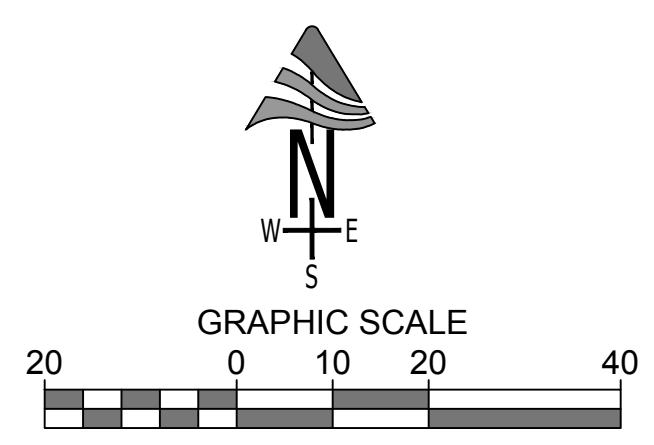
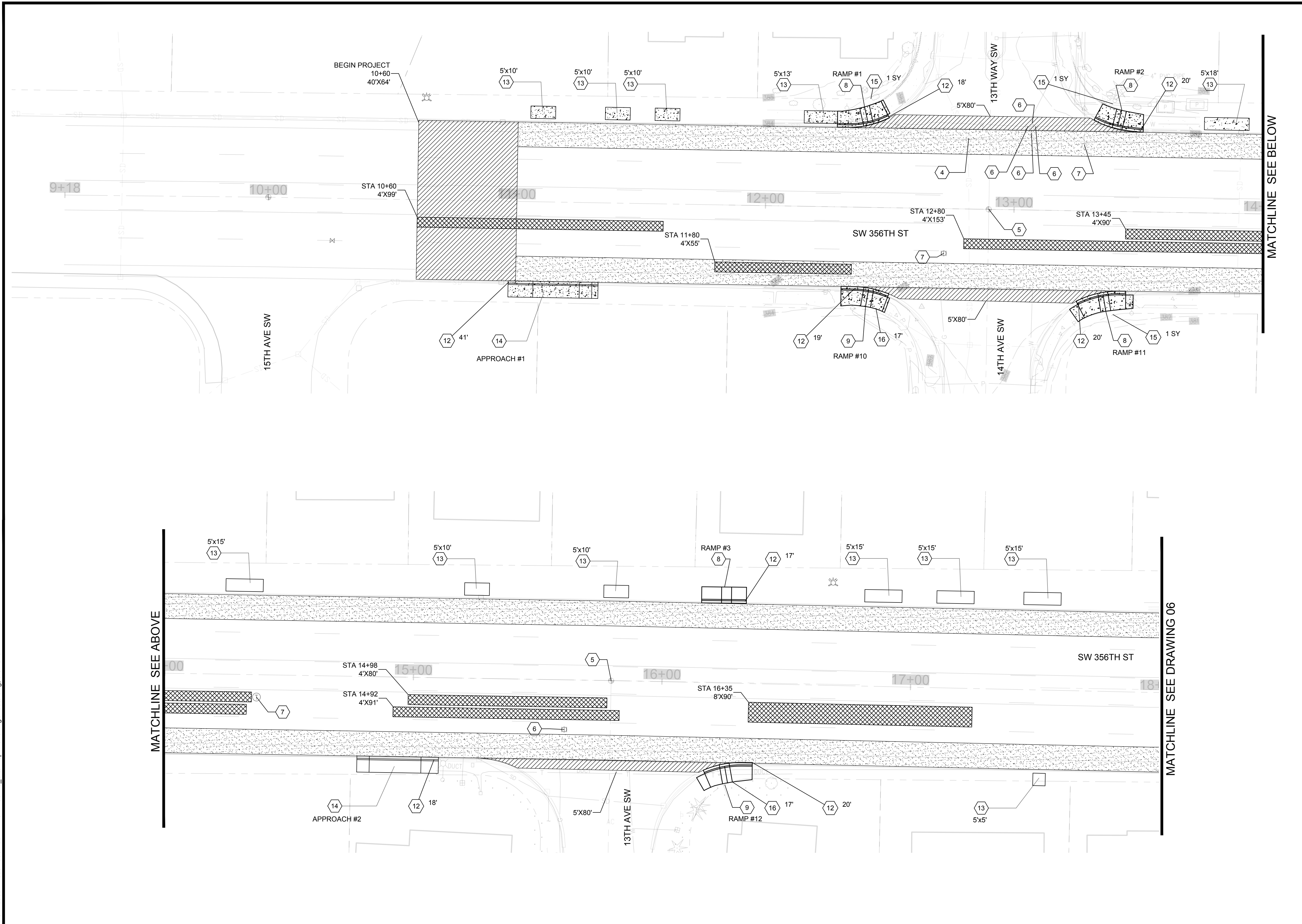
SW 320TH STREET PRESERVATION PROJECT

SECTIONS AND DETAILS

CITY PROJECT #:
 36215

SHT. 04
 OF 25

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- CONSTRUCTION NOTES:**
- = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER
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 - 15 SOD, INCL. 4" TOPSOIL
 - 16 CEMENT CONCRETE BARRIER CURB

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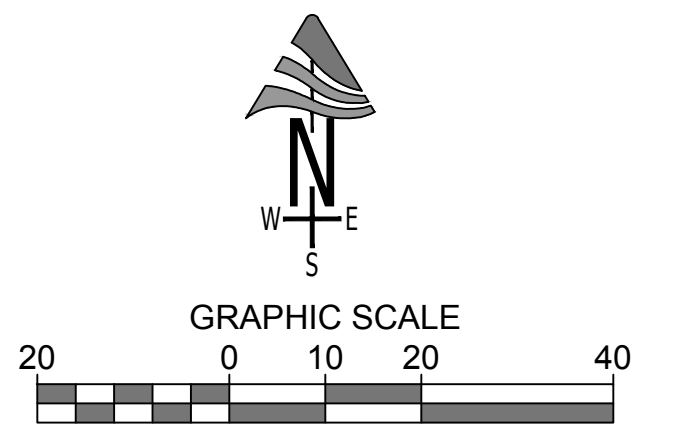
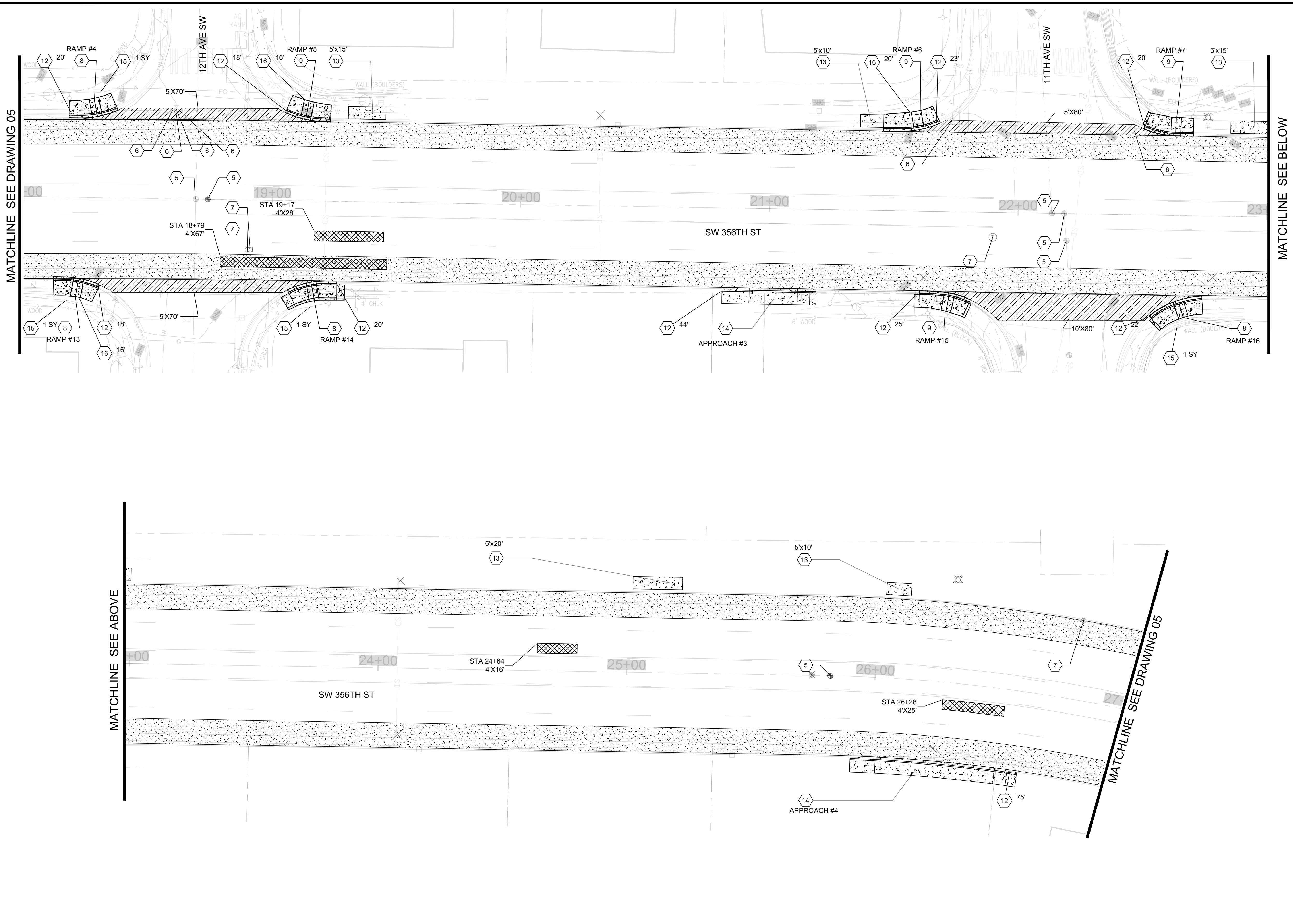
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SW 356TH STREET PRESERVATION PROJECT
SITE PREP AND PAVING PLAN
STA 10+60 TO 18+00

CITY PROJECT #:
36215
SHT. **05**
OF **25**

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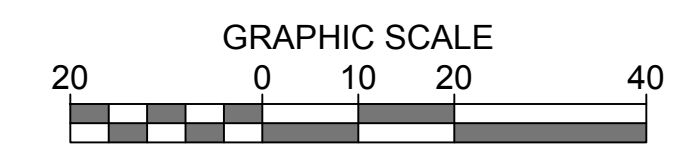
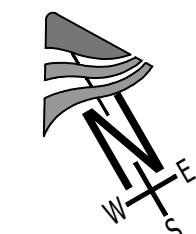
SW 356TH STREET PRESERVATION PROJECT

SITE PREP AND PAVING PLAN




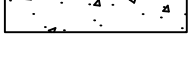
STA 18+00 TO 27+00

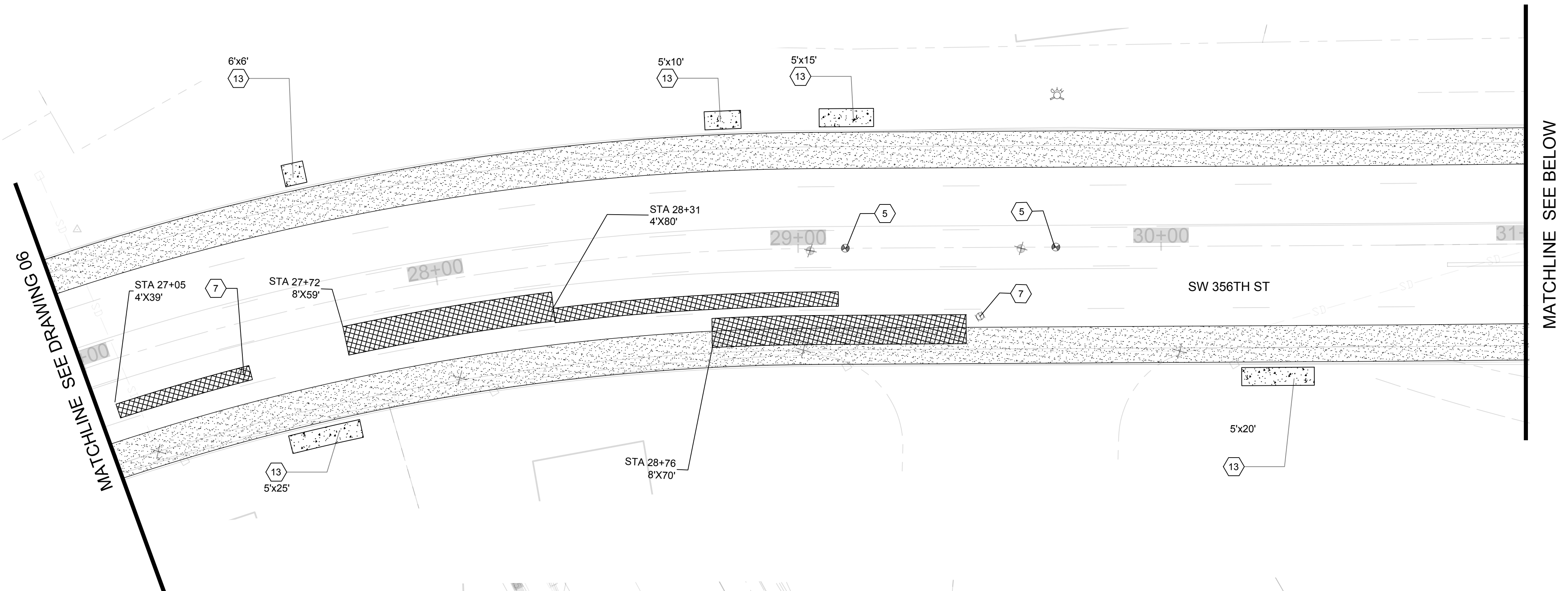
CITY PROJECT #:
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SHT. **06**
 OF **25**



CONSTRUCTION NOTES:

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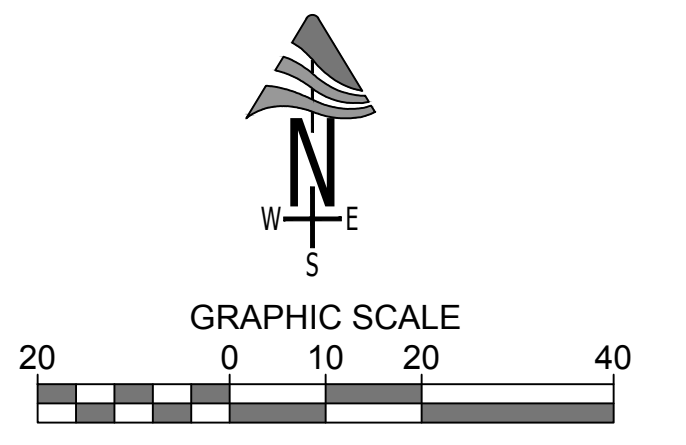
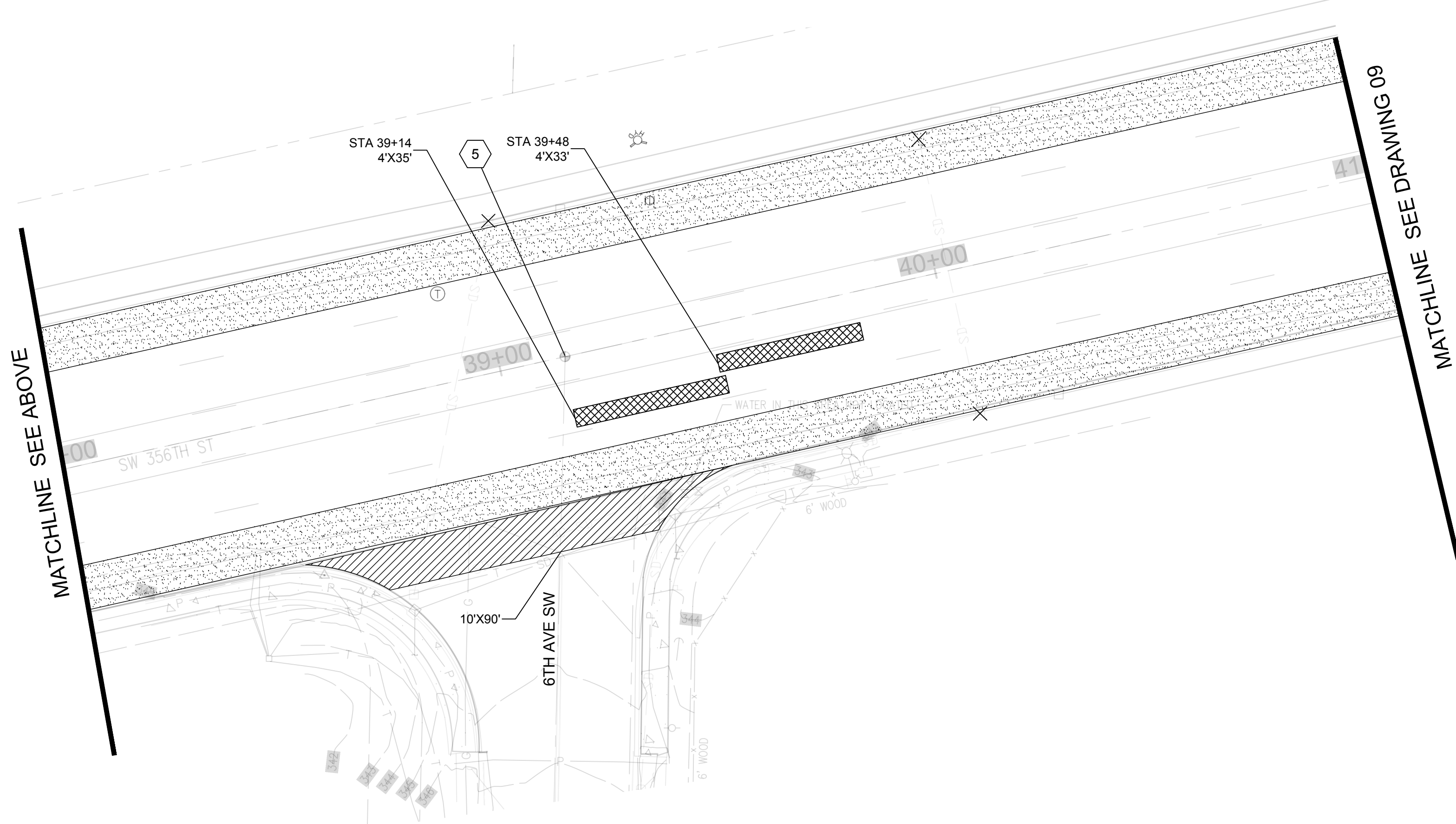
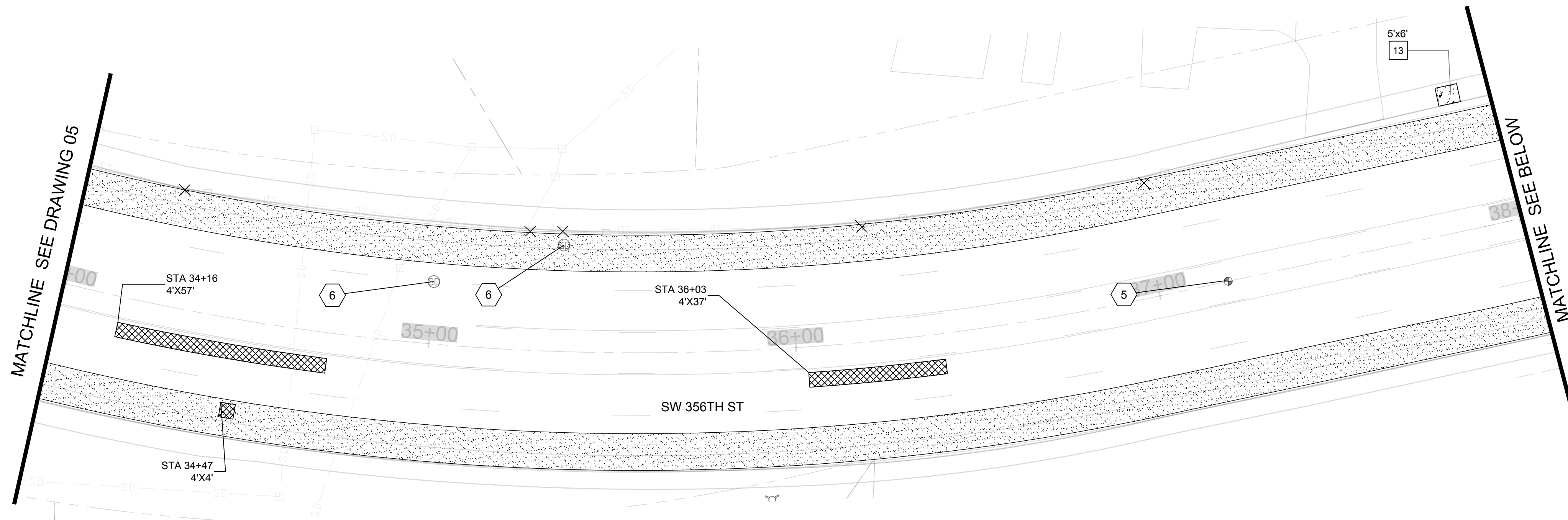
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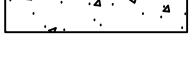


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SW 356TH STREET PRESERVATION PROJECT
SITE PREP AND PAVING PLAN
STA 27+00 TO 34+00

CITY PROJECT #:
36215
SHT. **07**
OF **25**



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 - 3 ADJUST CATCH BASIN
 - 4 INSTALL HEAVY DUTY FRAME AND LID PER SECTION 7-XX OF THE SPECIAL PROVISIONS
 - 5 ADJUST MONUMENT CASE AND COVER
 - 6 ADJUST UTILITY
 - 7 ADJUST UTILITY BY OTHERS
 - 8 CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 9 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 10 CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. CURB AND GUTTER
 - 13 CEMENT CONC. SIDEWALK
 - 14 CEMENT CONC. APPROACH
 - 15 sod, INCL. 4" TOPSOIL
 - 16 CEMENT CONCRETE BARRIER CURB

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DESIGNED: J. MULKEY
REVIEWED: S. HAMEL
APPROVED: D. WINKLER



SARAH L. HAMEL
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
09/09/2020

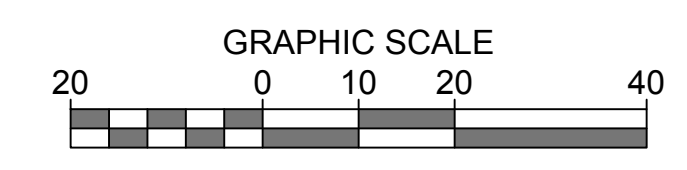
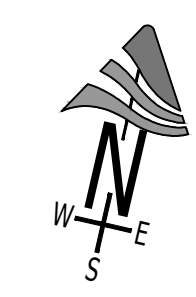
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NO.	DATE	REVISION

SW 356TH STREET PRESERVATION PROJECT




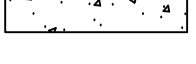
SITE PREP AND PAVING PLAN
STA 34+00 TO 41+00

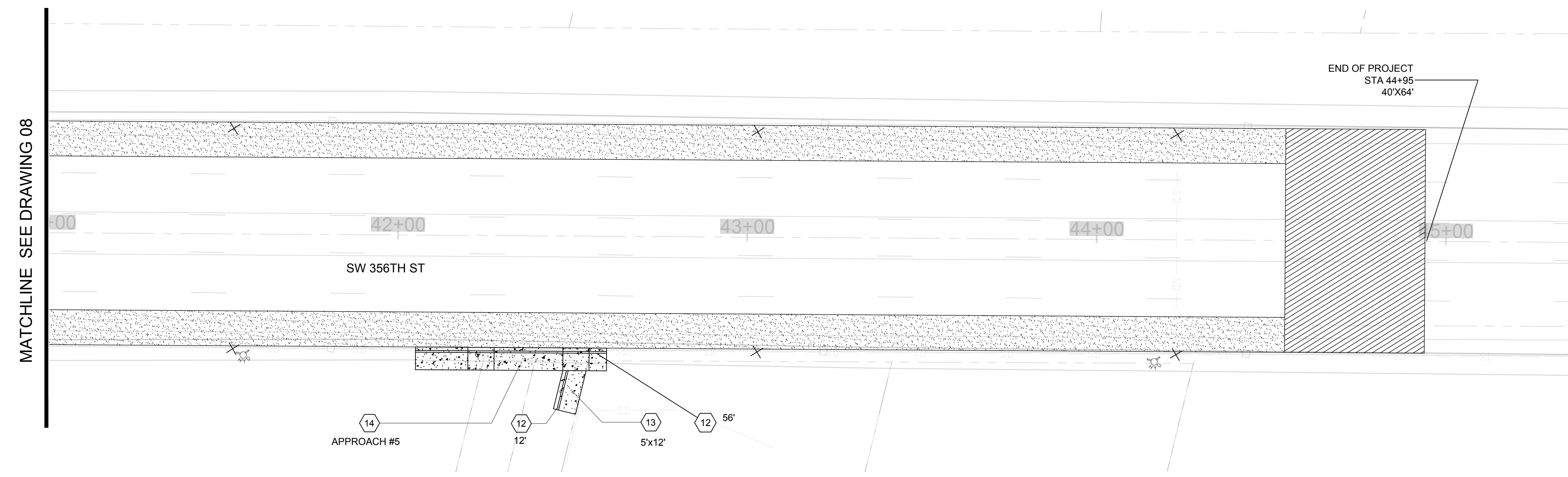
CITY PROJECT #:
36215

SHT. **08**
OF **25**



CONSTRUCTION NOTES:


-  = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER
 -  = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER
 -  = DIG OUT AND REPAIR ROAD SECTION PER SECTIONS & DETAILS SHEET 42 OF 44
 -  = CONCRETE WORK
- 1 SAWCUT ASPHALT PAVEMENT OR CONCRETE
 - 2 ADJUST MANHOLE
 - 3 ADJUST CATCH BASIN
 - 4 INSTALL HEAVY DUTY FRAME AND LID PER SECTION 7-XX OF THE SPECIAL PROVISIONS
 - 5 ADJUST MONUMENT CASE AND COVER
 - 6 ADJUST UTILITY
 - 7 ADJUST UTILITY BY OTHERS
 - 8 CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 9 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 10 CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. CURB AND GUTTER
 - 13 CEMENT CONC. SIDEWALK
 - 14 CEMENT CONC. APPROACH
 - 15 SOD, INCL. 4" TOPSOIL
 - 16 CEMENT CONCRETE BARRIER CURB



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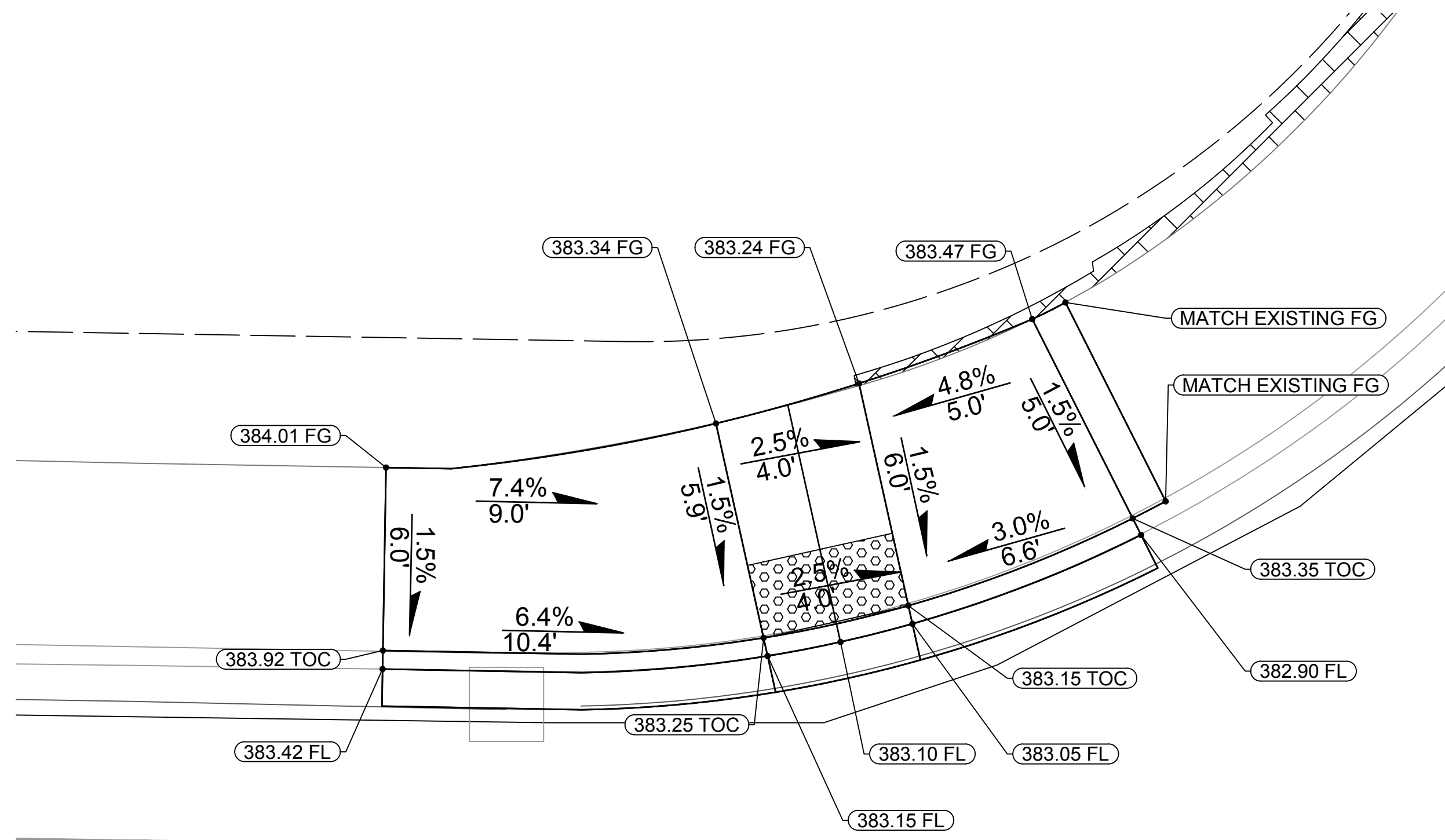
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SW 356TH STREET PRESERVATION PROJECT

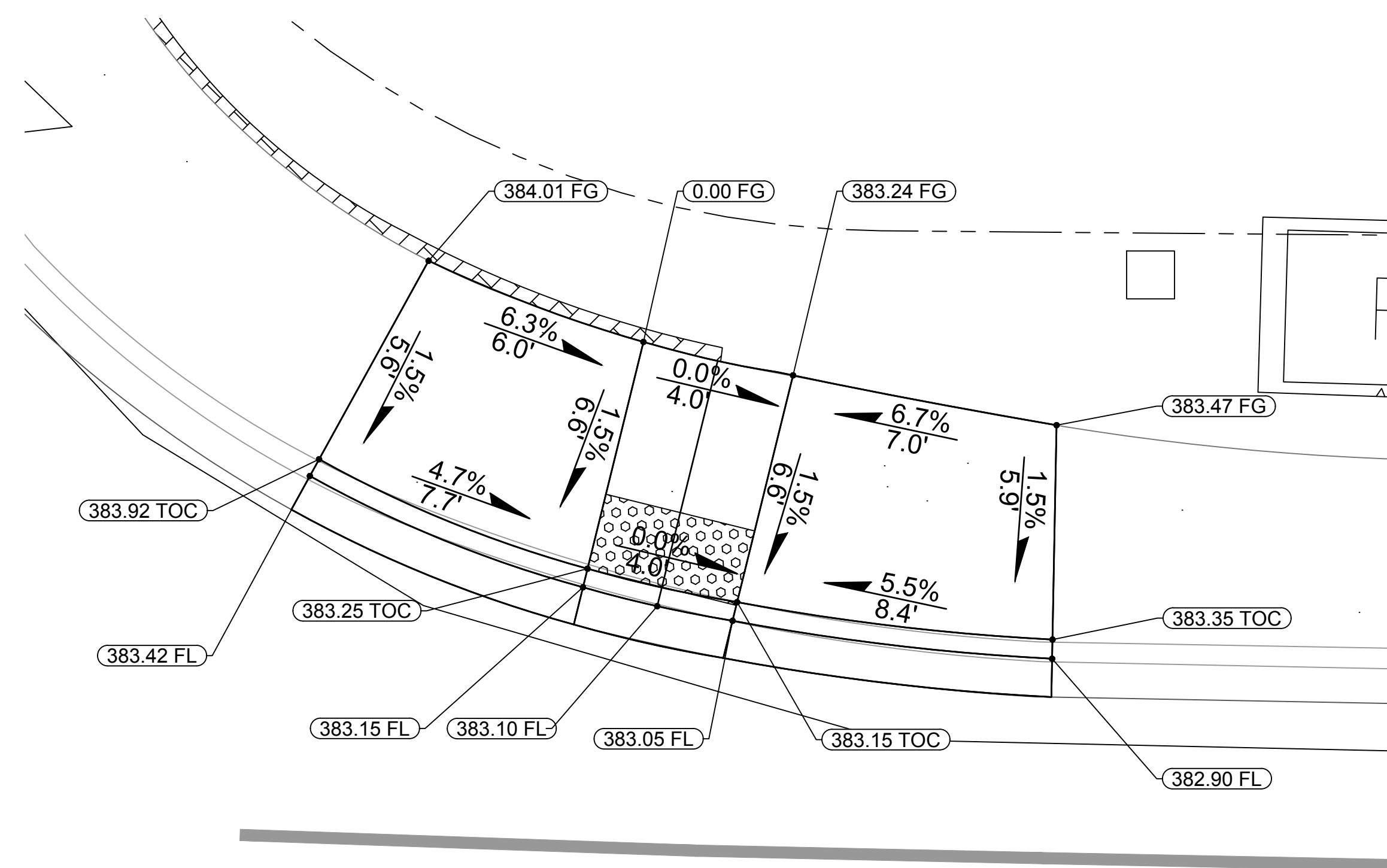
SITE PREP AND PAVING PLAN
STA 41+00 TO 44+95

CITY PROJECT #:
36215

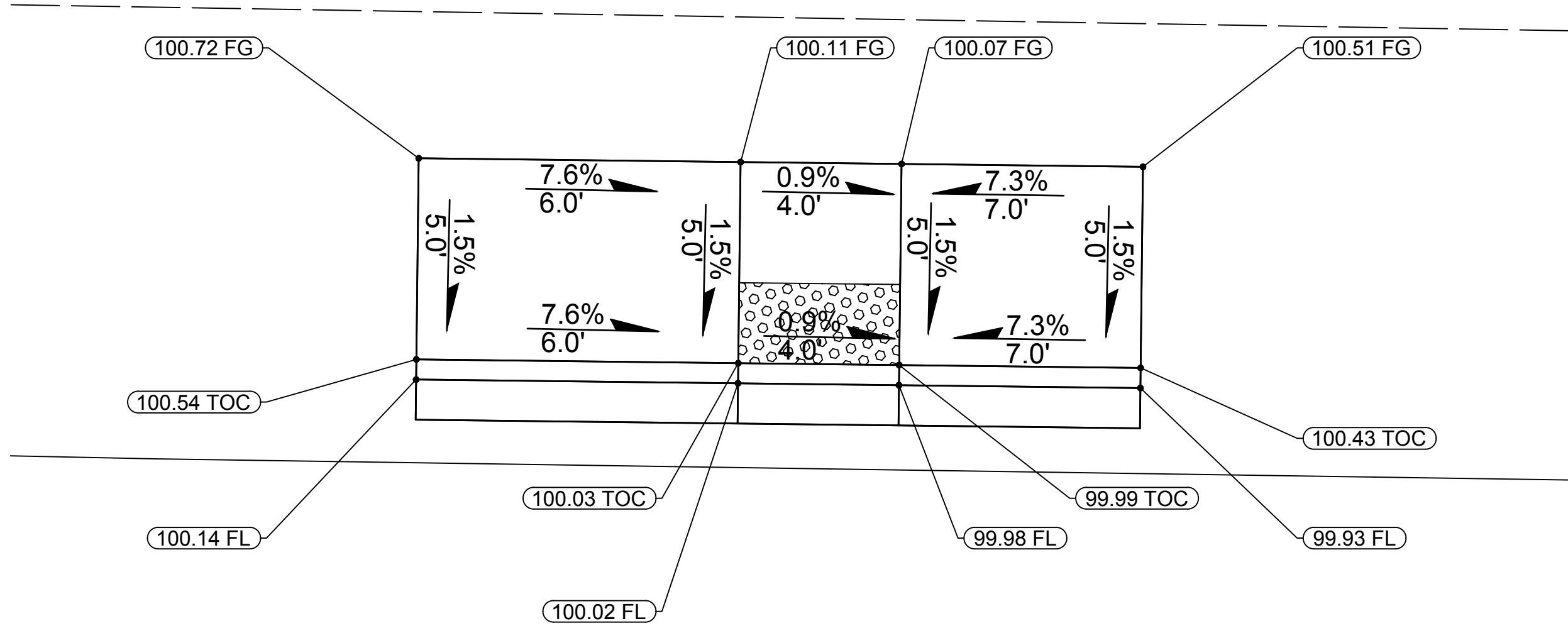
SHT. **09**
OF **25**



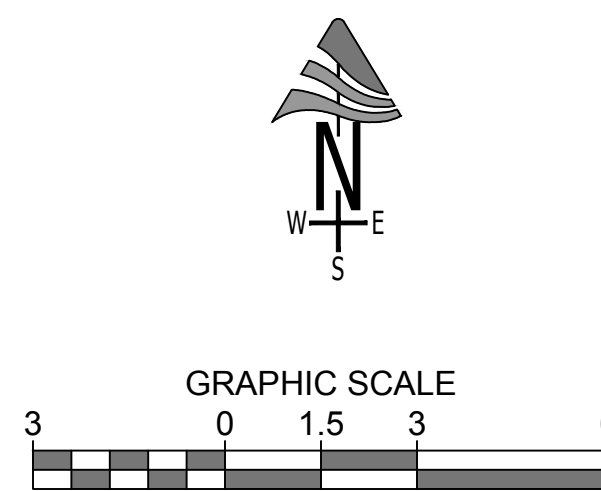
#1 SW 356TH STREET 12+41 LT



#2 SW 356TH STREET 13+40 LT



#3 SW 356TH STREET 16.25 LT



FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

CURB RAMP NOTES

- SLOPES SHOWN IN PLAN VIEW, RAMP LAYOUT AND RAMP LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT CURB RAMPS TO MEET ADA REQUIREMENTS.
- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ANY PART OF THE CURB RAMP OR LANDING.
- SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE WSDOT STD PLAN F-10.12-03 FOR DEPRESSED CURB SECTION AND CEMENT CONCRETE PEDESTRIAN CURB DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-02.
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- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

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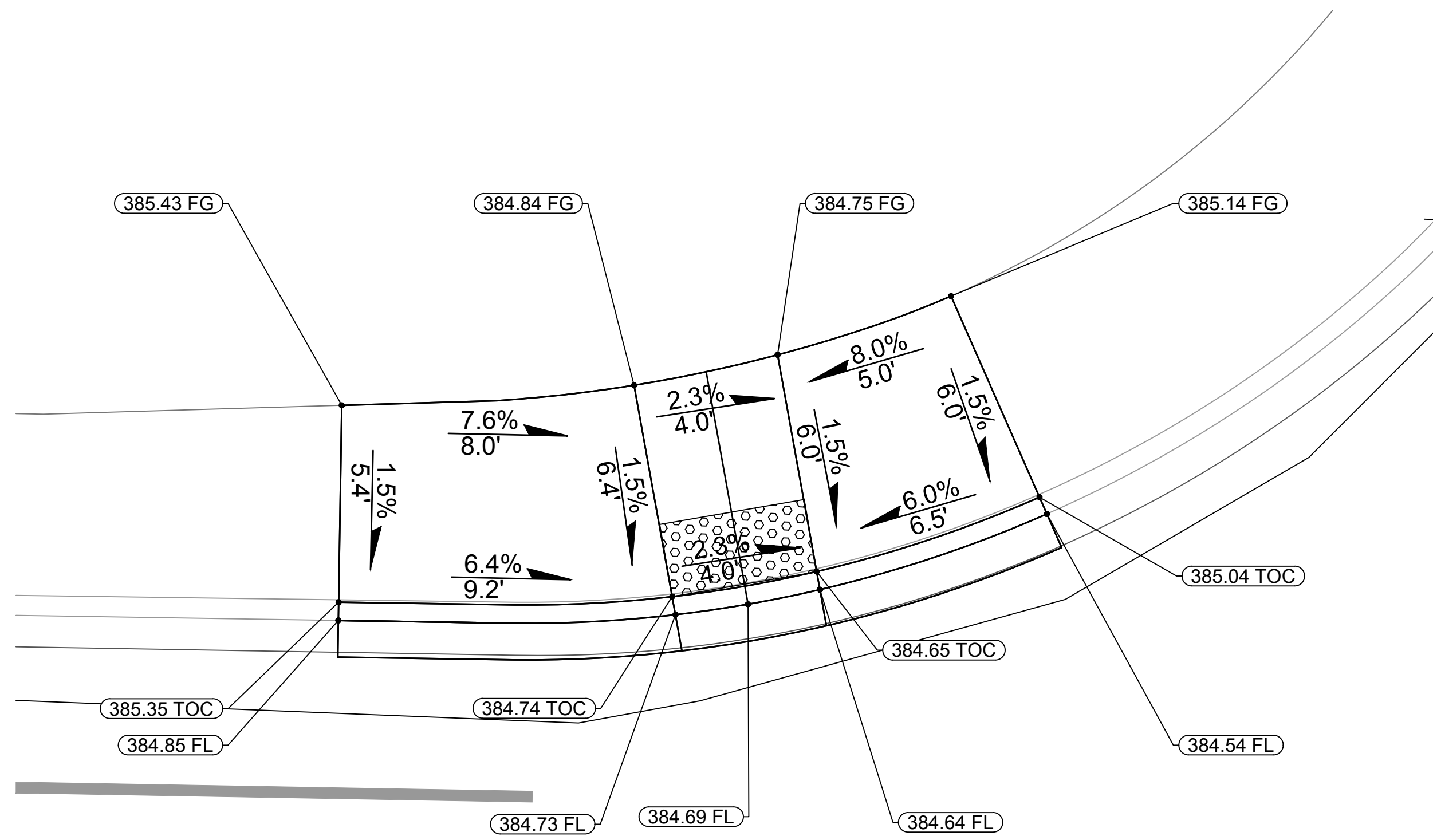
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 APPROVED: D. WINKLER



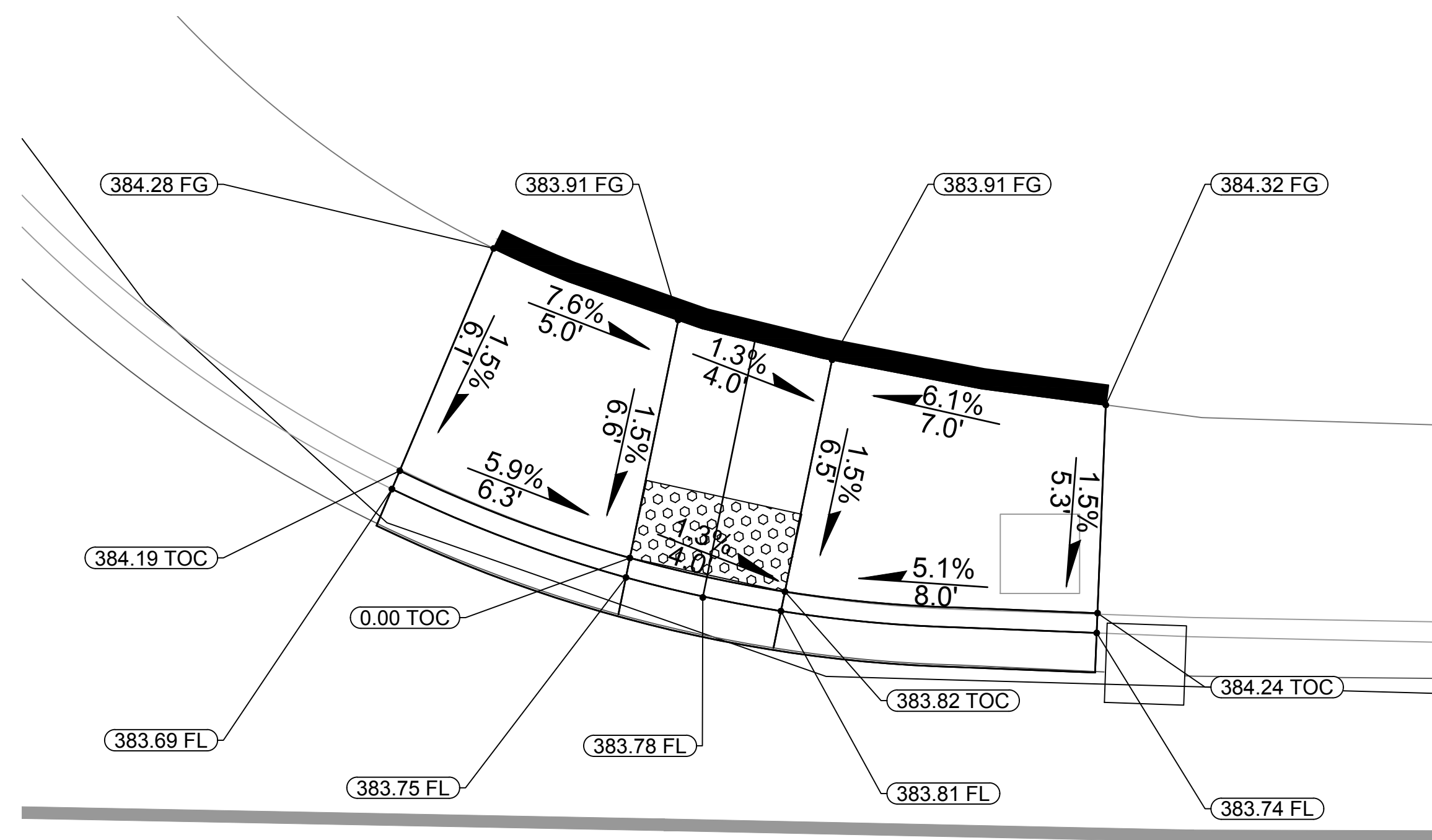
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SW 356TH STREET PRESERVATION PROJECT
RAMP 1, 2, 3
RAMPS

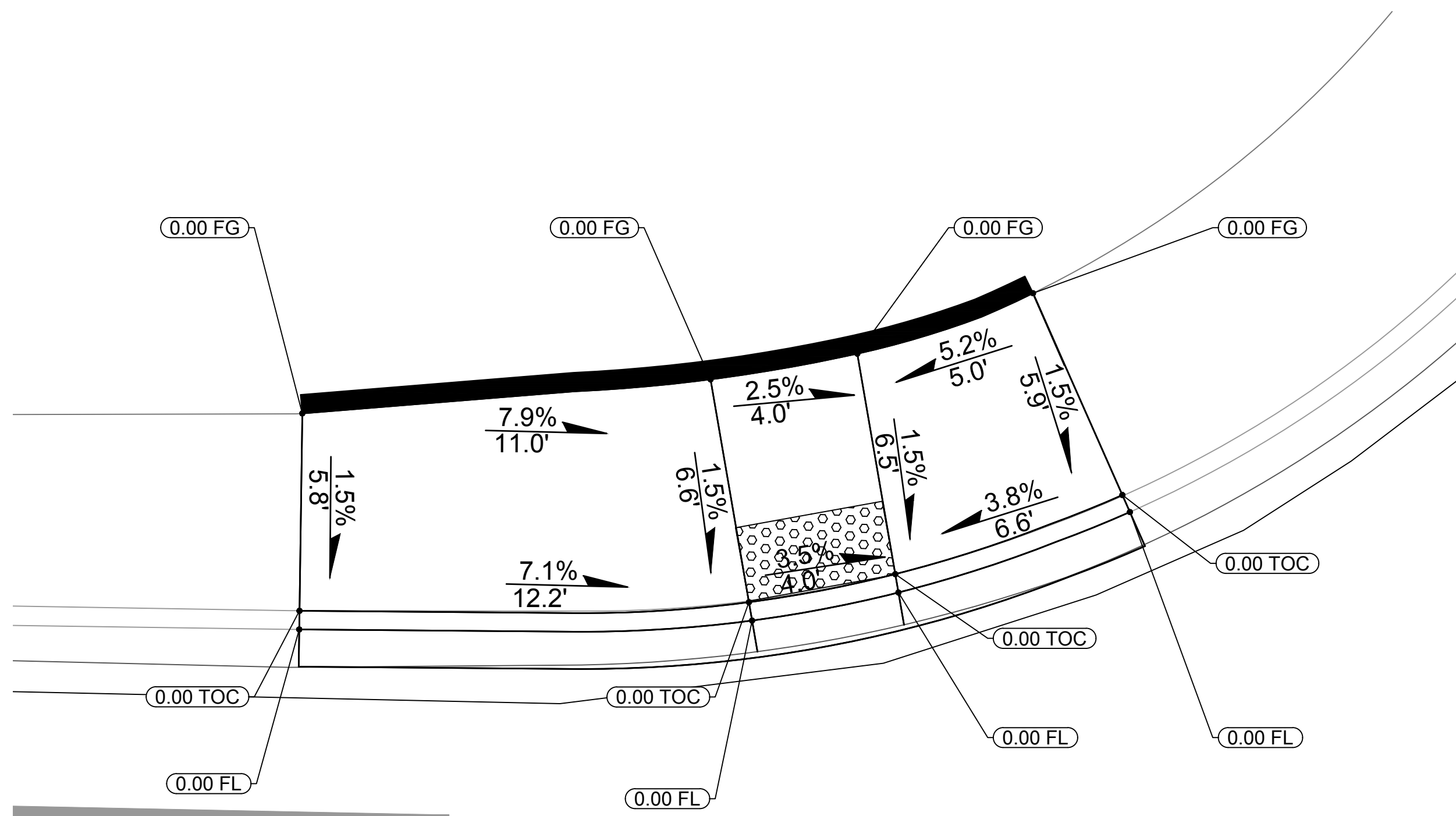
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36215
 SHT. **10**
 OF **25**



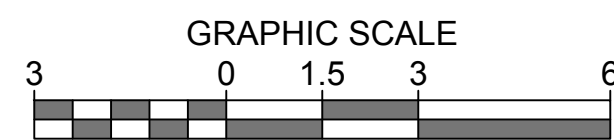
#4 SW356TH STREET 18+29 LT



#5 SW 356th STREET 19+13 LT



#6 SW 356TH STREET 21+59 LT



FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

CURB RAMP NOTES

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- INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-02.
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- CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).
- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

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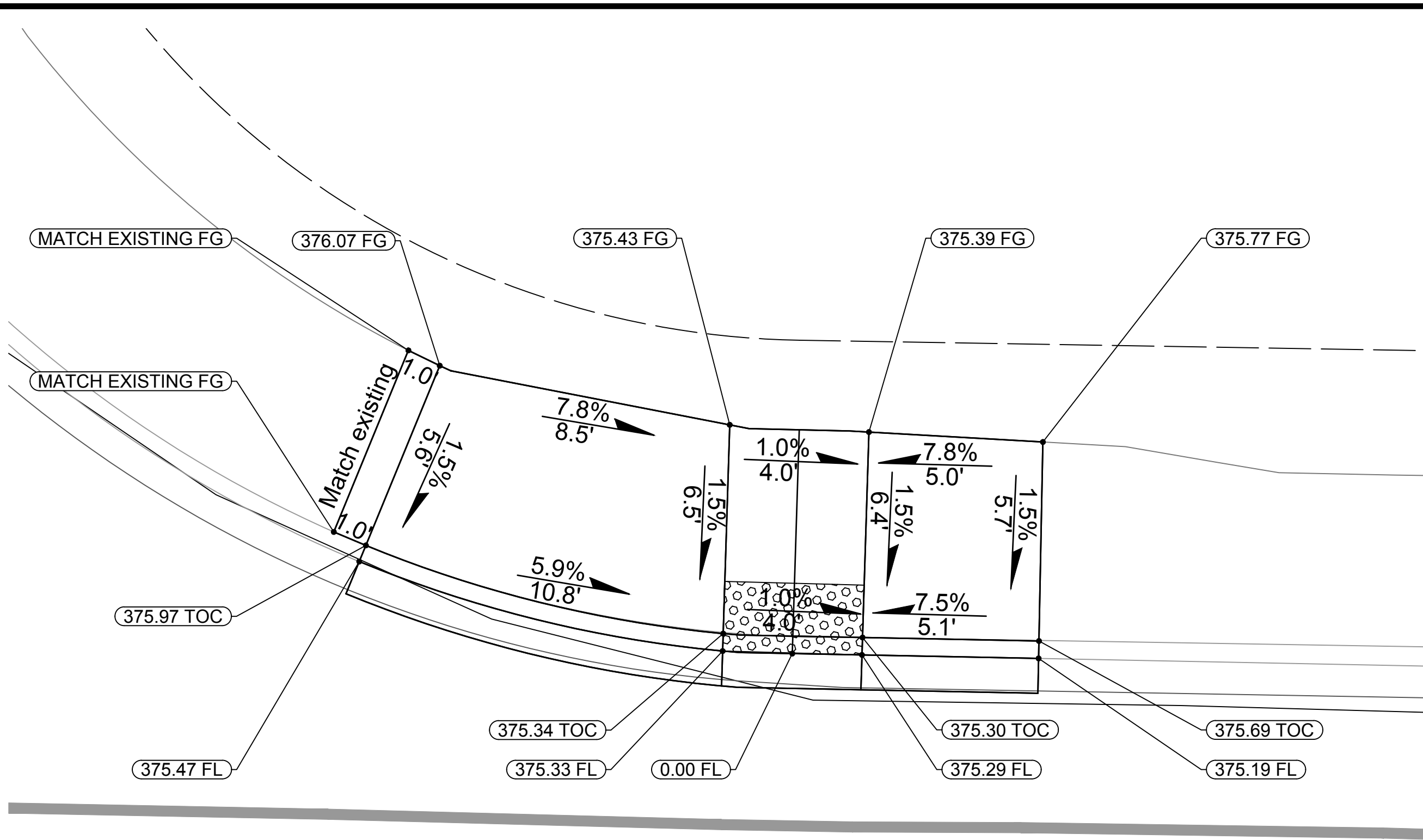
SW 356TH STREET PRESERVATION PROJECT

RAMP 4, 5, 6

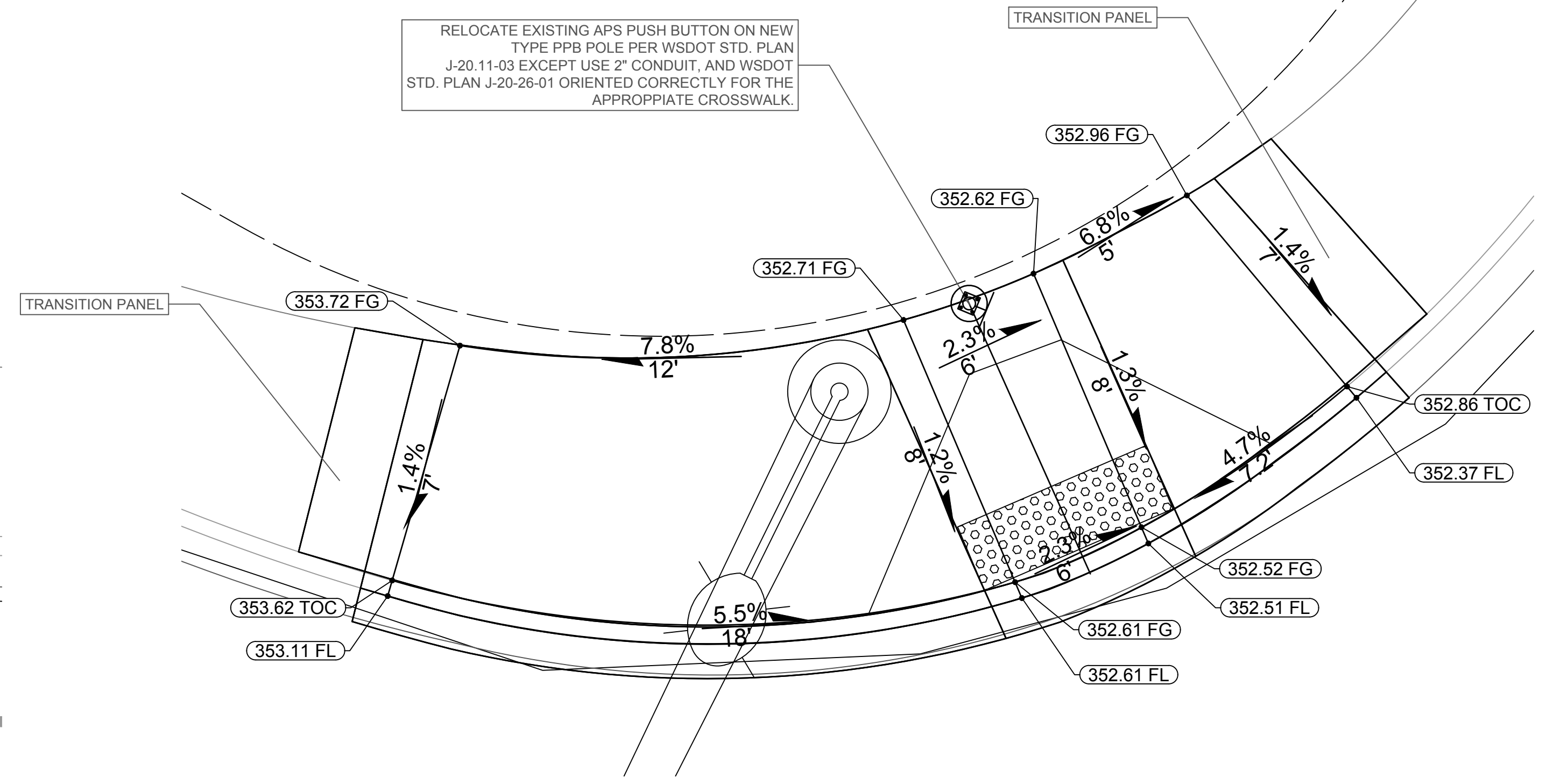
RAMPS

CITY PROJECT #:
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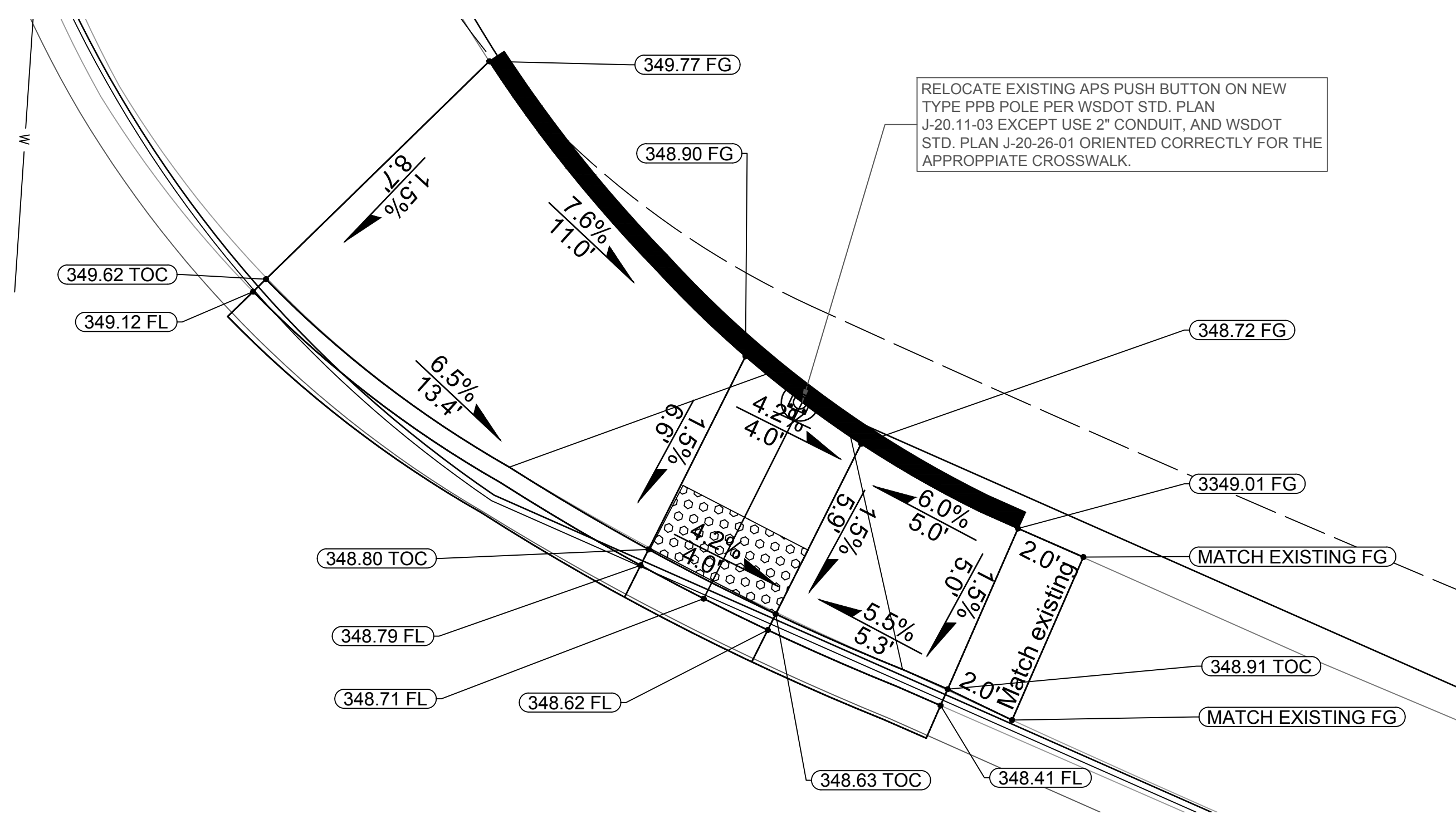
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 OF **25**



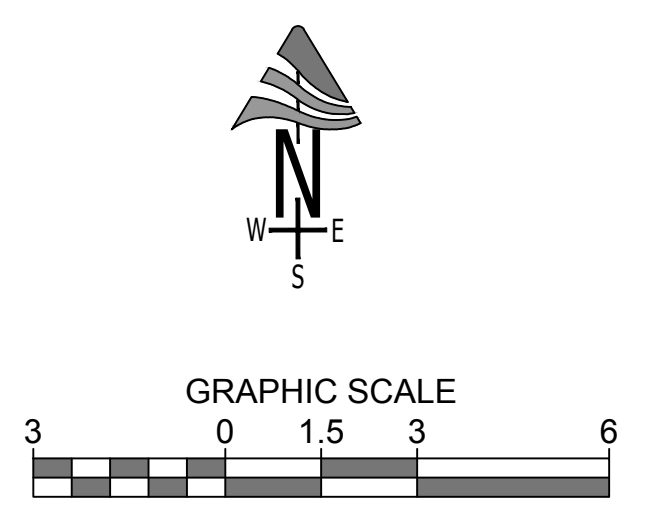
#7 SW 356TH STREET 22+63 LT



#8 SW 356TH STREET STA 31+75 LT



#9 SW 356TH STREET 32+76 LT



FL = GUTTER FLOW LINE
TOC = TOP OF CURB
FG = FINISH GRADE

CURB RAMP NOTES

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- CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).
- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

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REVIEWED: S. HAMEL
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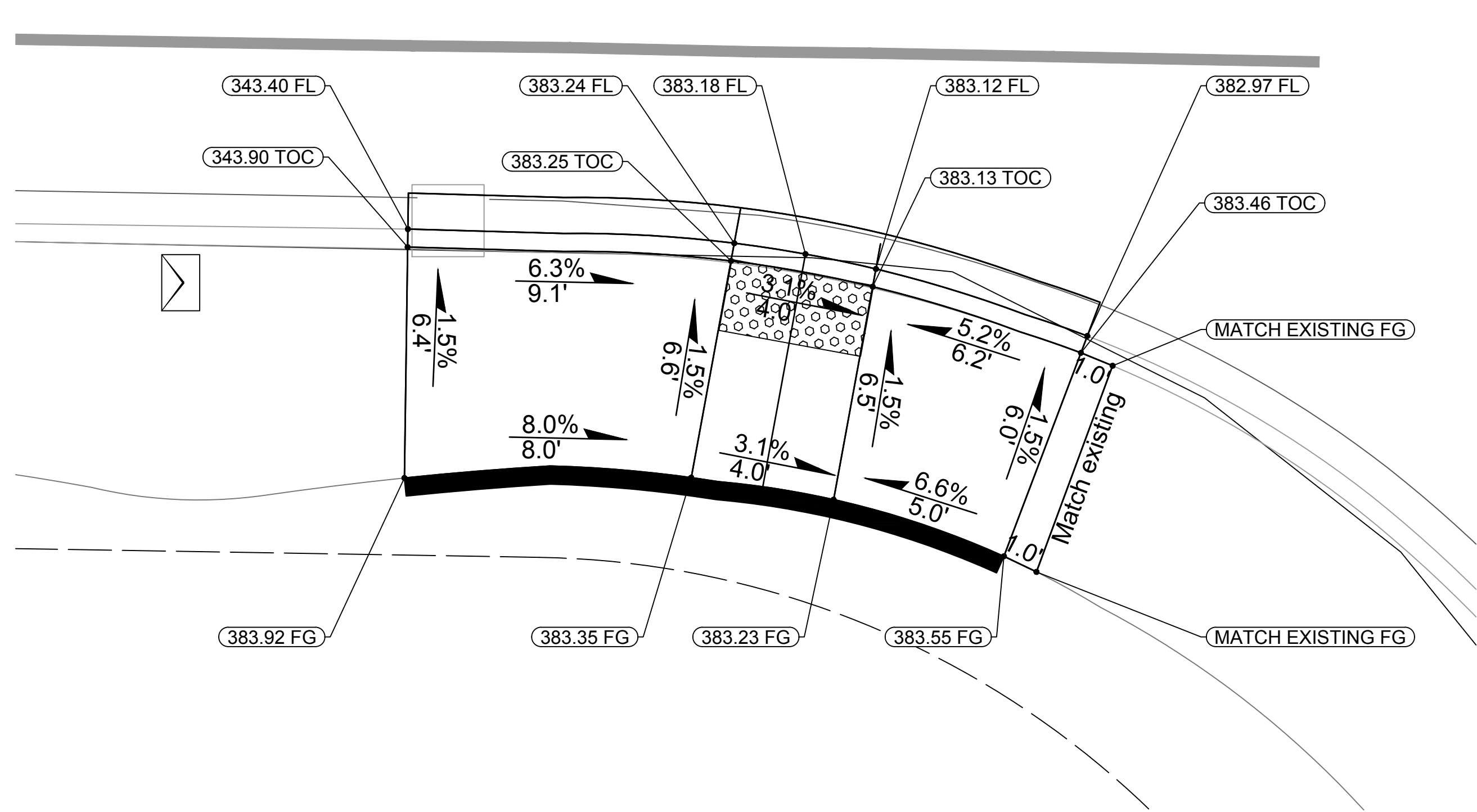
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SW 356TH STREET PRESERVATION PROJECT

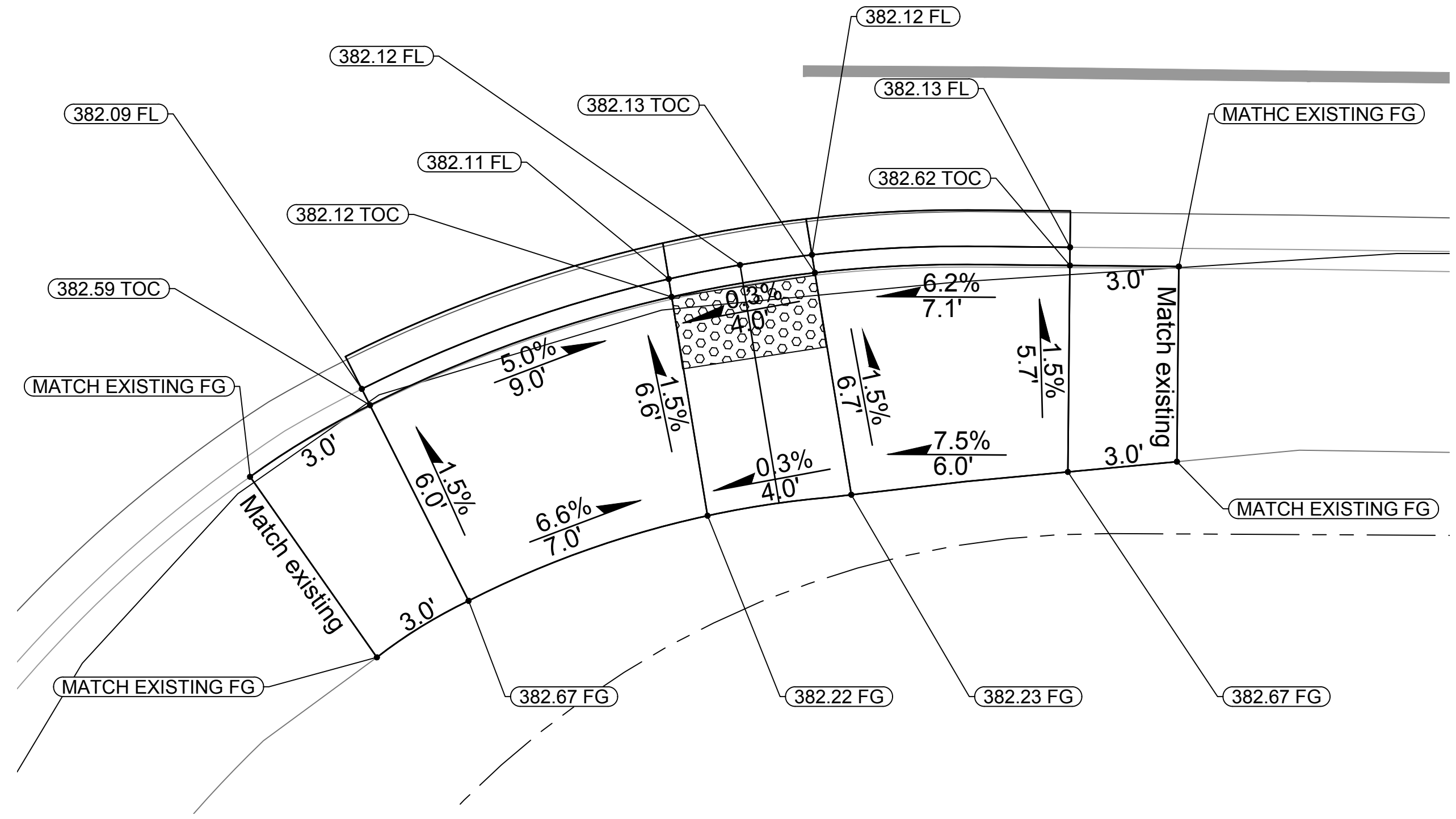
RAMP 7, 8, 9 RAMPS

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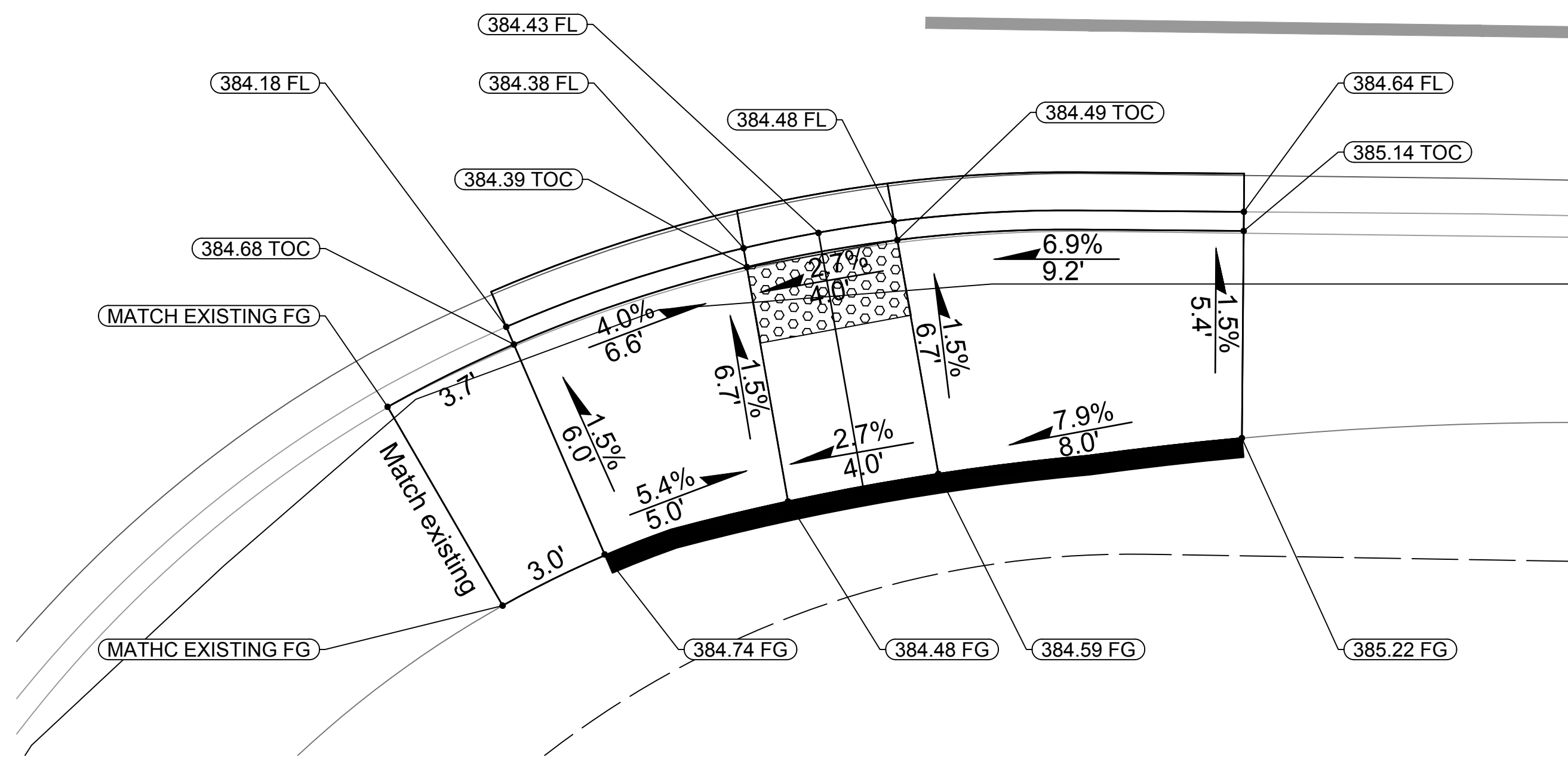
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OF **25**



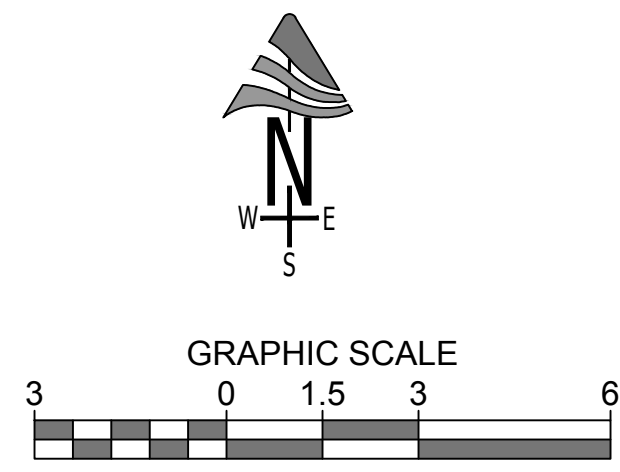
#10 SW 356TH STREET 12+42 RT



#11 SW 356TH STREET STA 13+35 RT



#12 SW 356TH STREET STA 16+25 RT



FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

CURB RAMP NOTES

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- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

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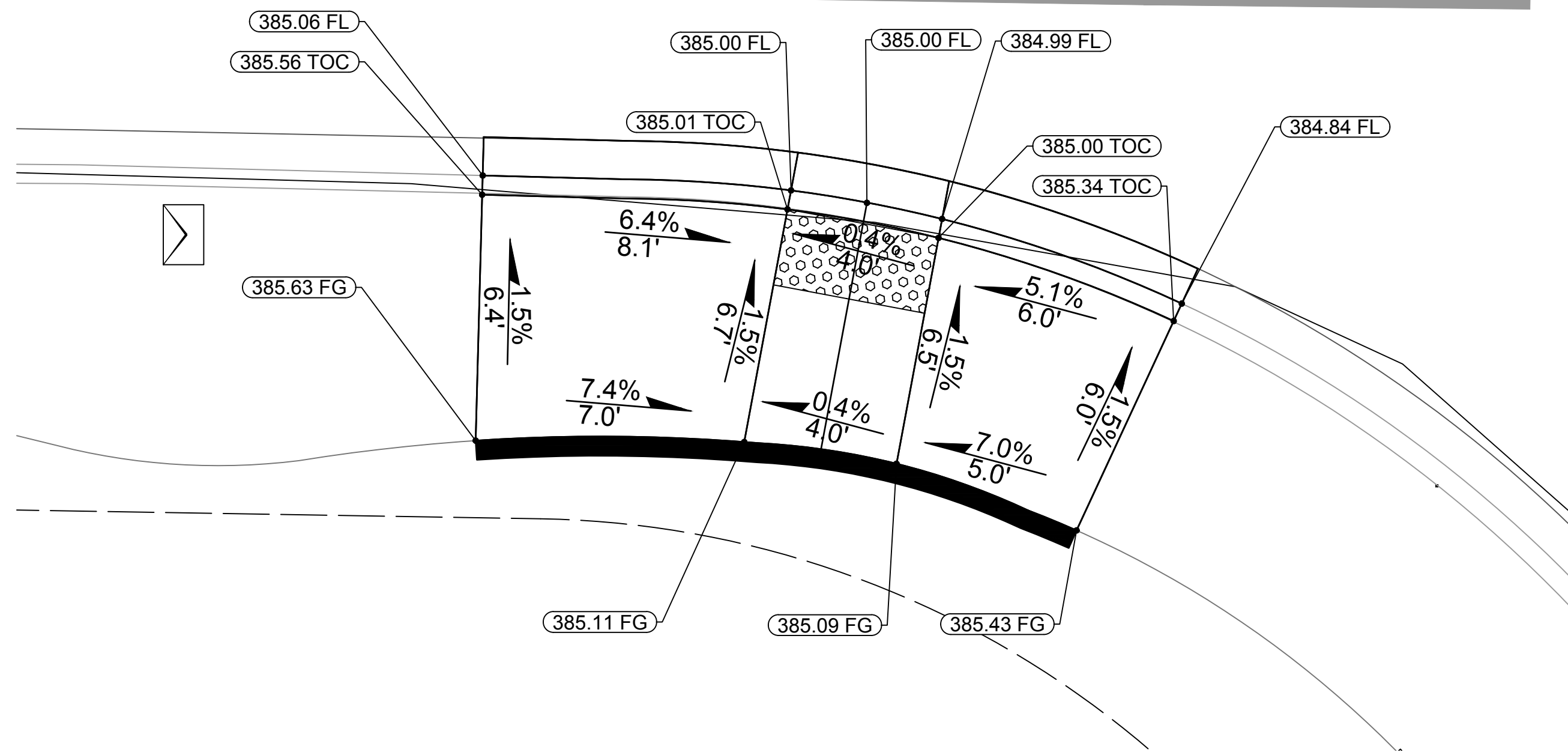
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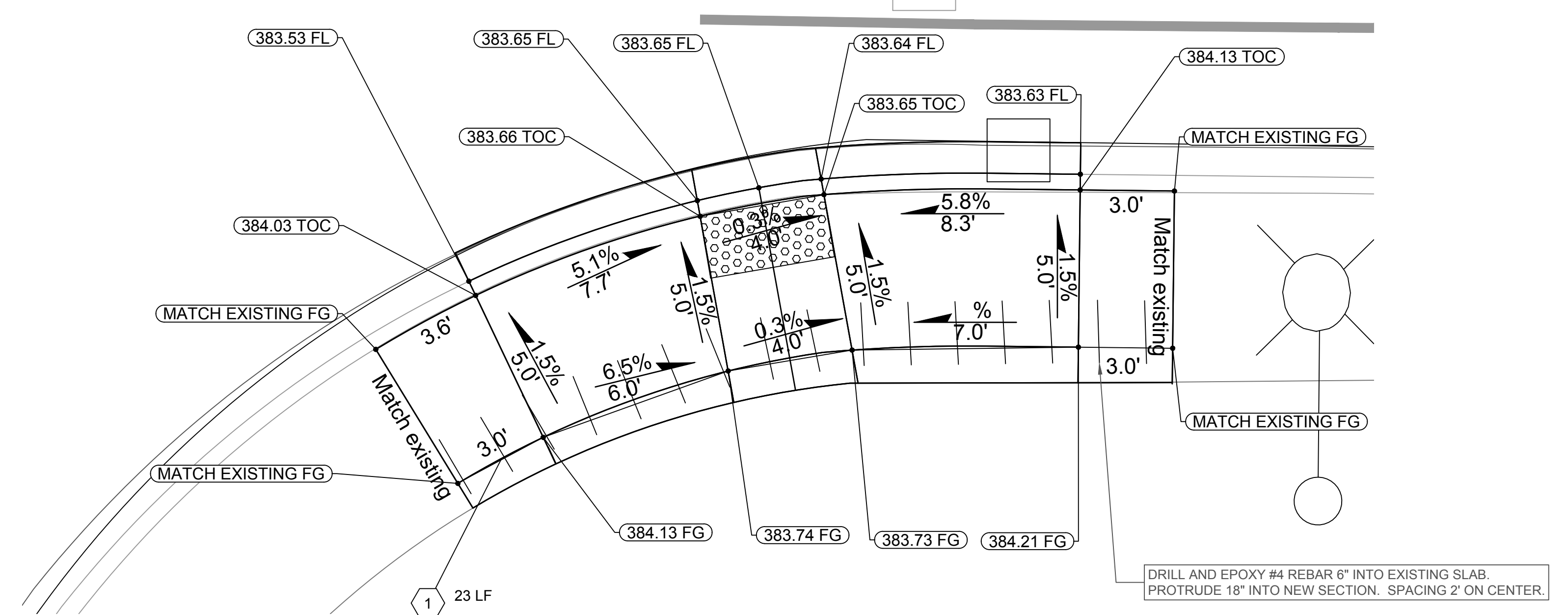
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SW 356TH STREET PRESERVATION PROJECT
RAMP 10, 11, 12
RAMPS

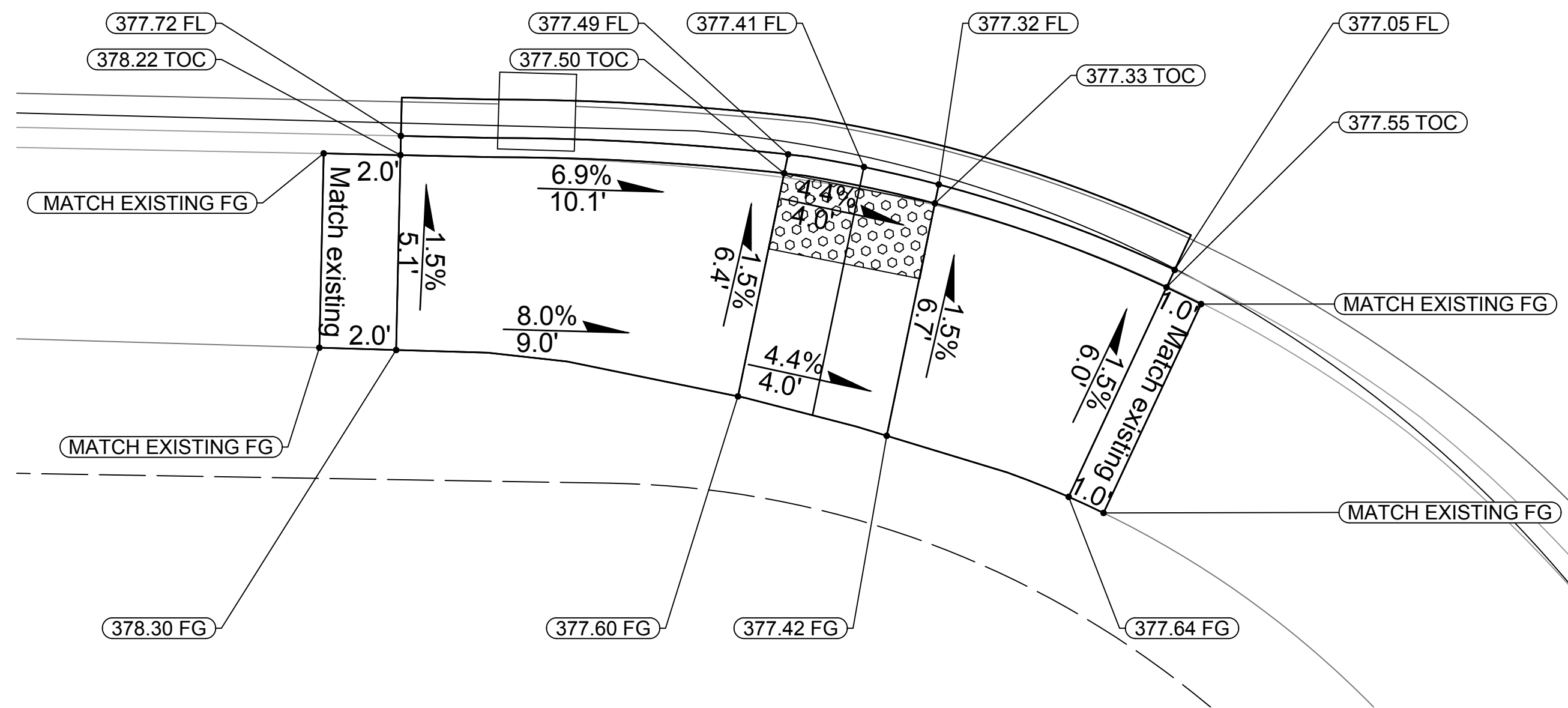
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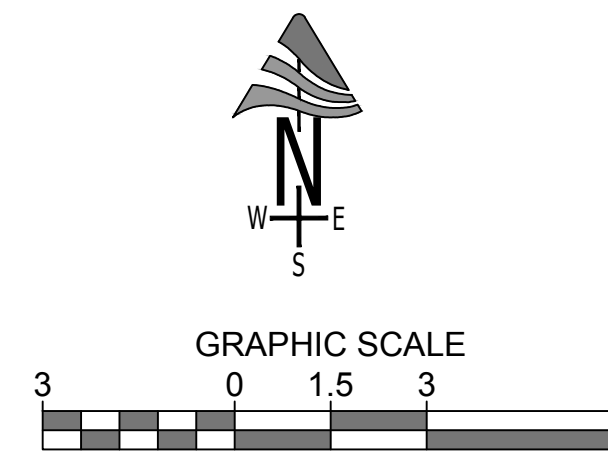
#13 SW 356TH STREET STA 18+22 RT



#14 SW 356TH STREET STA 19+16 RT



#15 SW 356TH STREET STA 21+73 RT



FL = GUTTER FLOW LINE
TOC = TOP OF CURB
FG = FINISH GRADE

CURB RAMP NOTES

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- INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

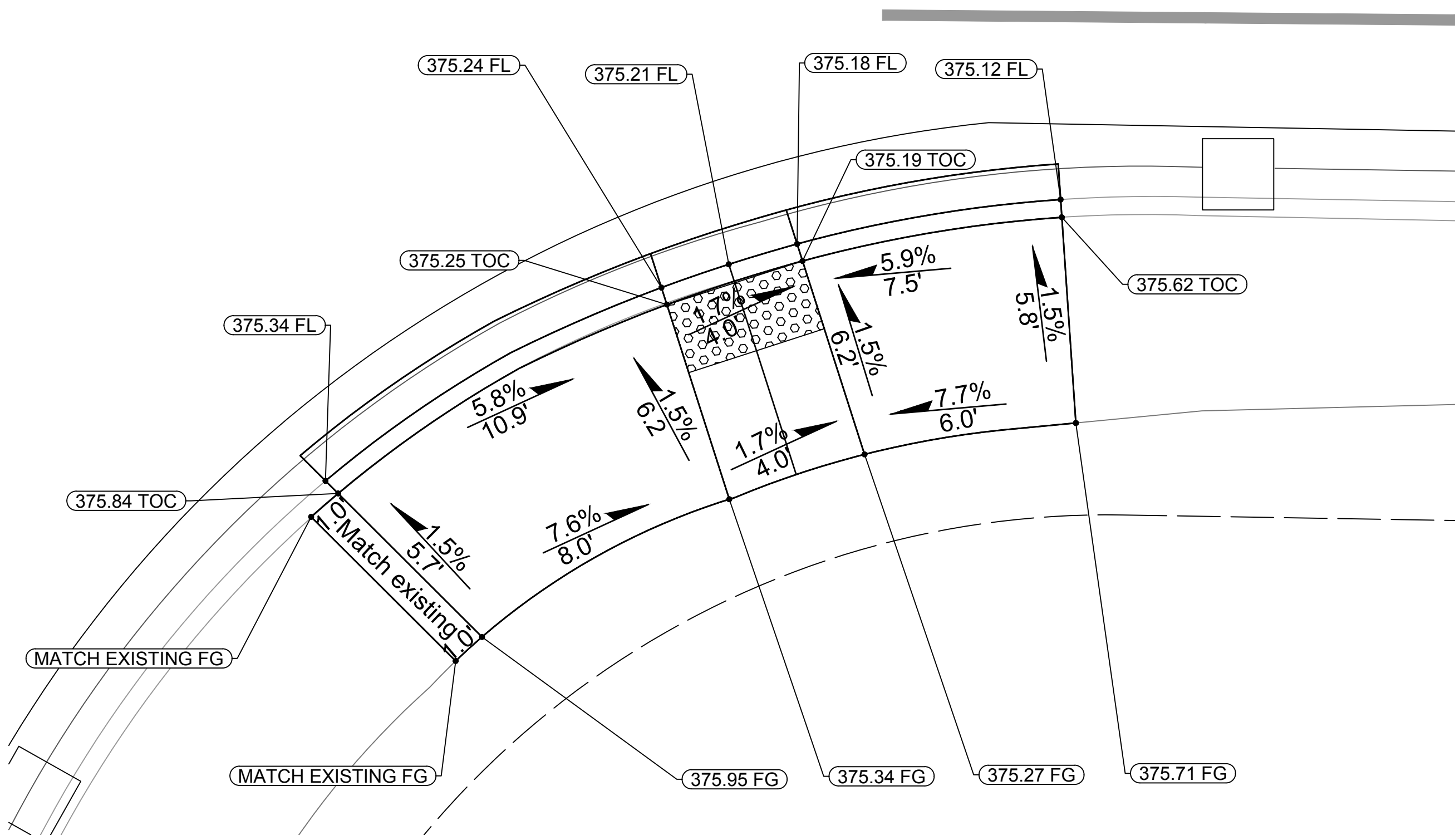
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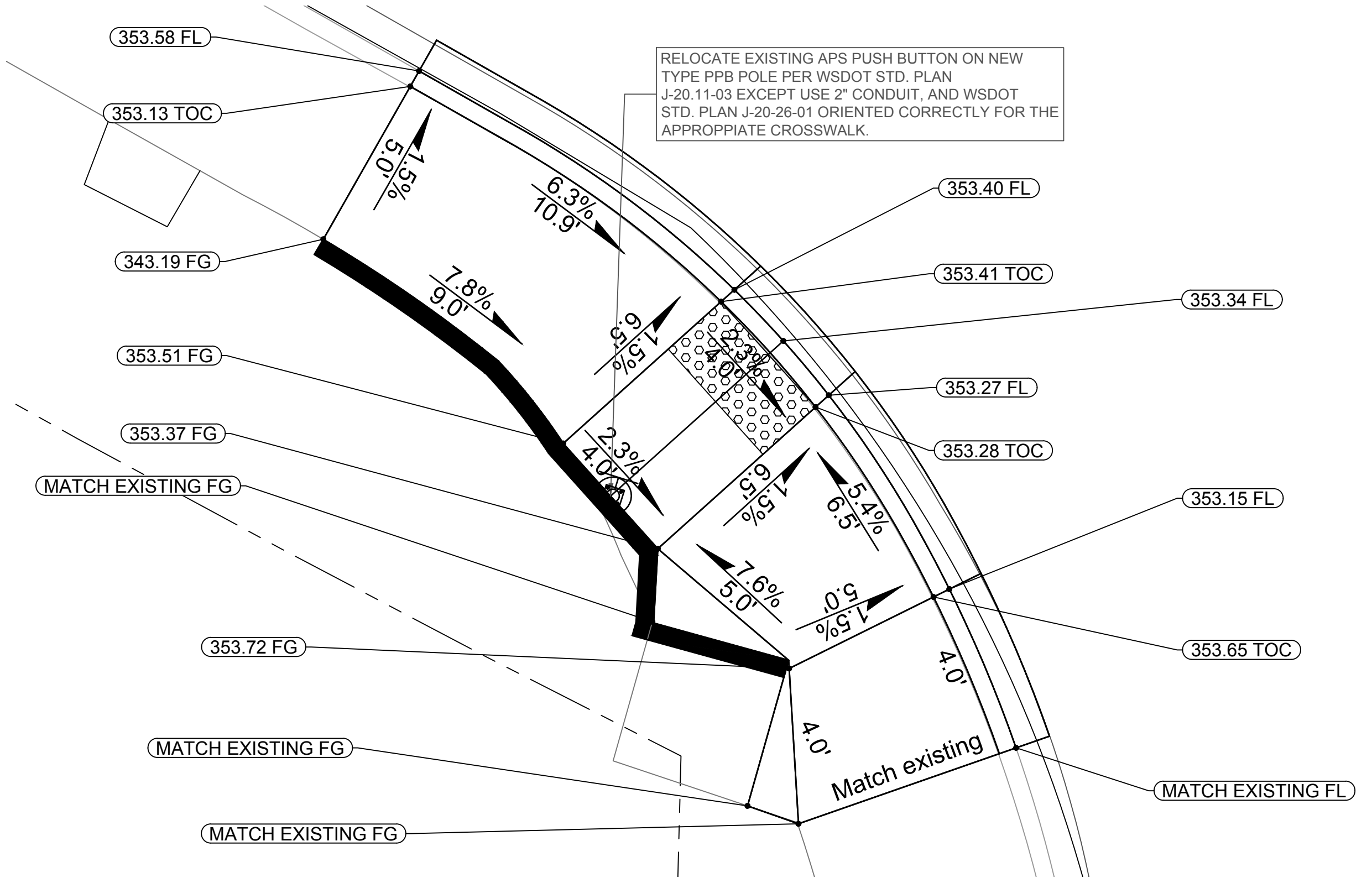
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SW 356TH STREET PRESERVATION PROJECT
RAMP 13, 14, 15
RAMPS

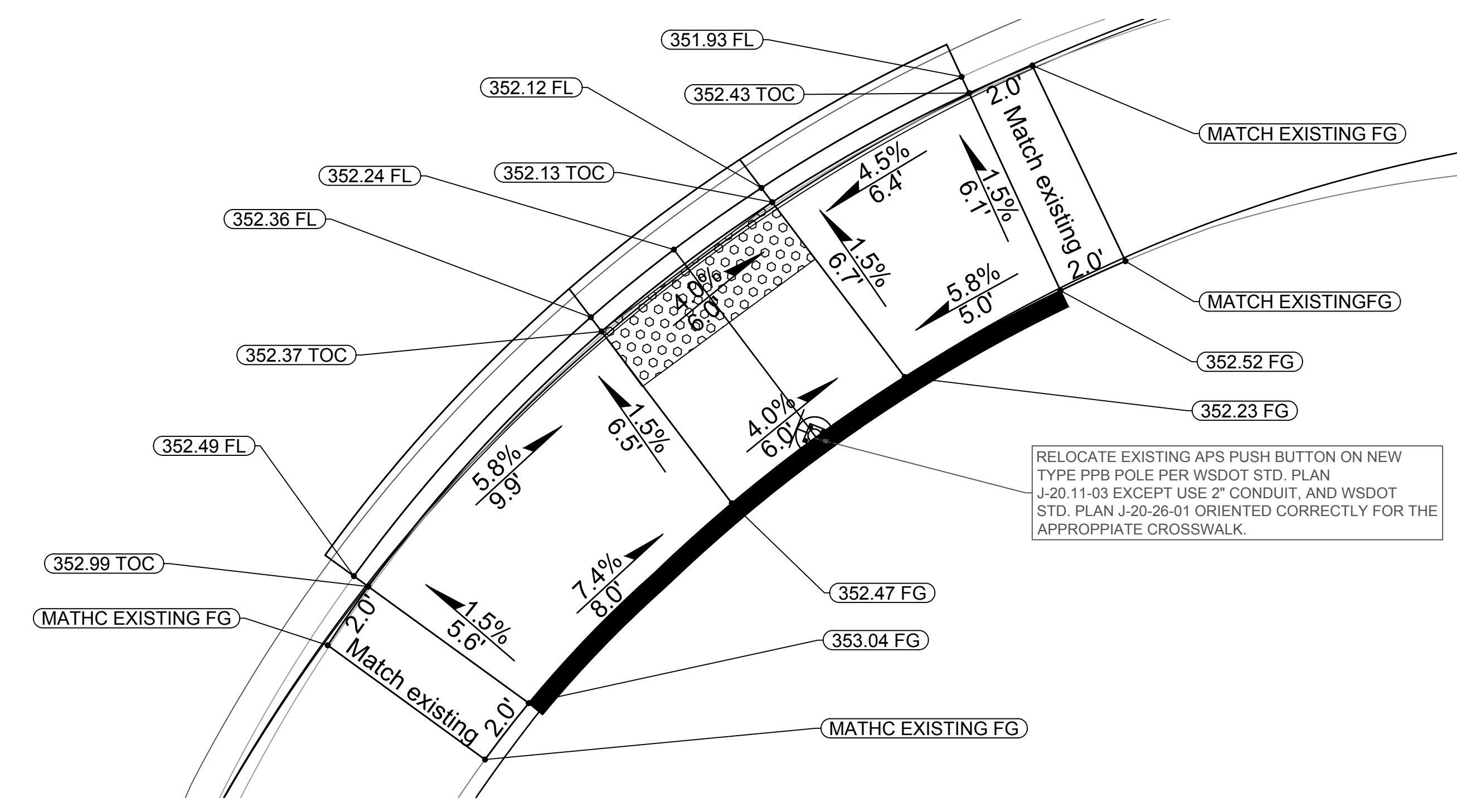
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OF **25**



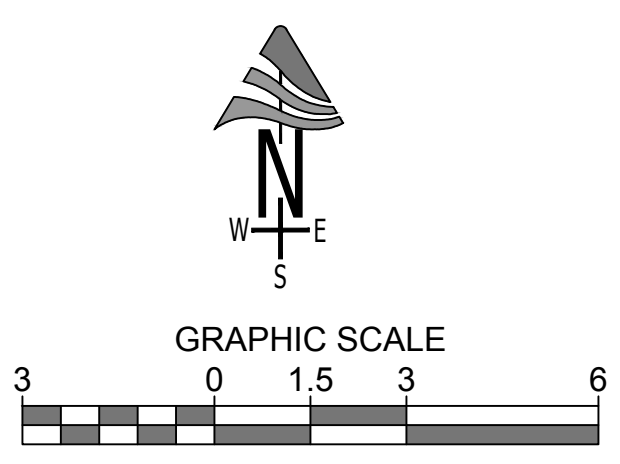
#16 SW 356TH STREET 22+65 RT



#17 SW 356TH STREET 32+28 RT



#18 SW 356TH STREET 33+00 RT



FL = GUTTER FLOW LINE
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 FG = FINISH GRADE

CURB RAMP NOTES

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4. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-02.
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6. CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS IS INCIDENTAL TO CURB RAMP BID ITEM(S).
7. INSTALL CEMENT CONCRETE BARRIER CURB PER COFW DETAIL 3-4.

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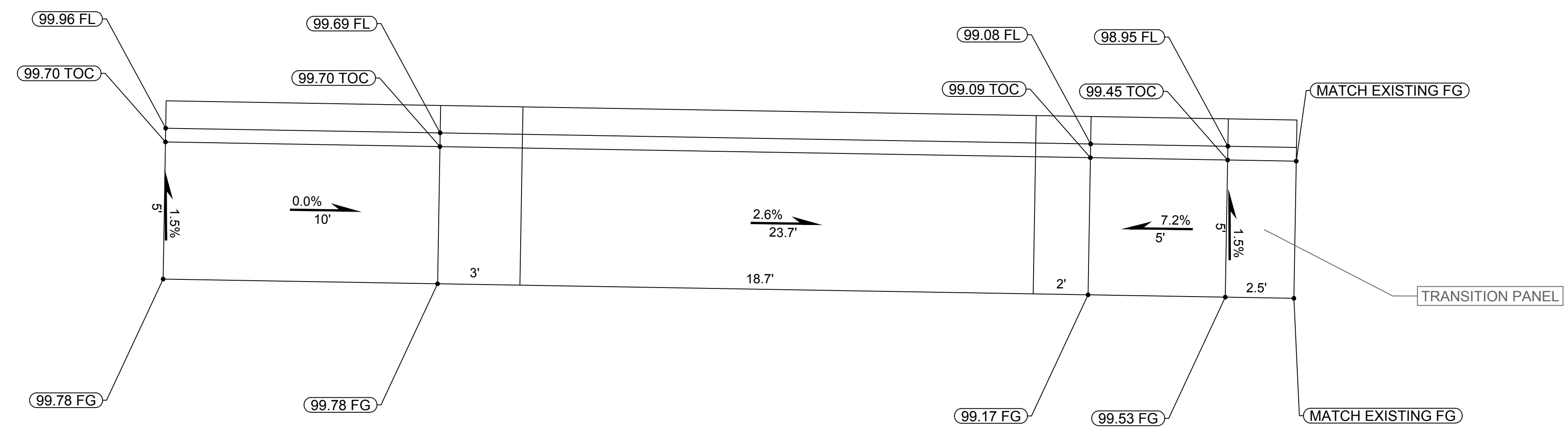
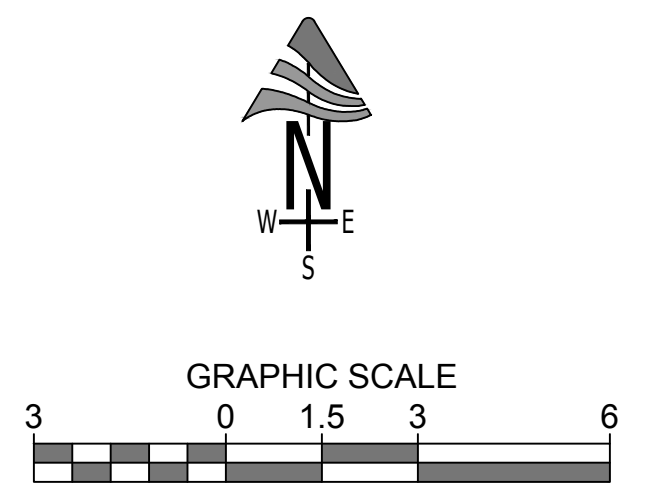
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SW 356TH STREET PRESERVATION PROJECT
RAMP 16, 17, 18
RAMPS

CITY PROJECT #:
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 OF **25**

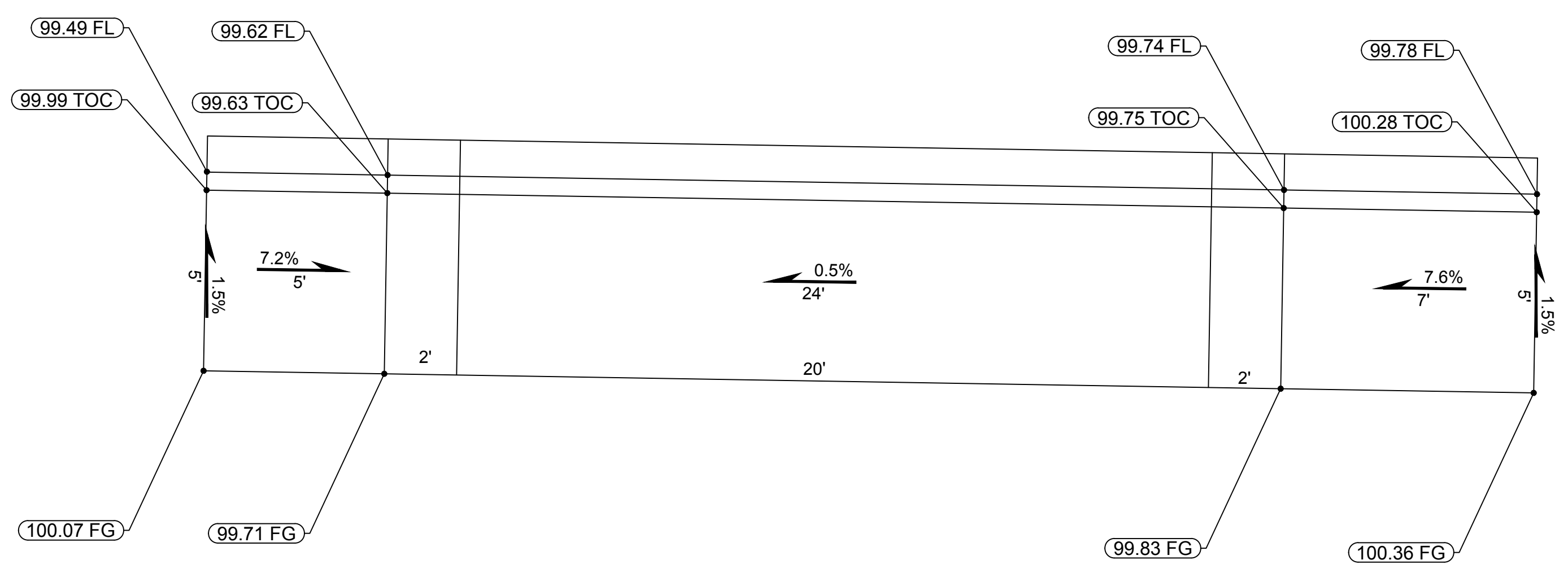


#1 SW 356TH STREET 10+93 RT

FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

DRIVEWAY NOTES

1. SLOPES SHOWN IN PLAN VIEW, APPROACH LAYOUT AND LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT APPROACH TO MEET ADA REQUIREMENTS.
2. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE CFW STD DETAIL 3-06 OR 3-06A FOR DRIVEWAY DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
3. APPROACH SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.



#2 SW 356TH STREET 14+75 RT

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 APPROVED: D. WINKLER



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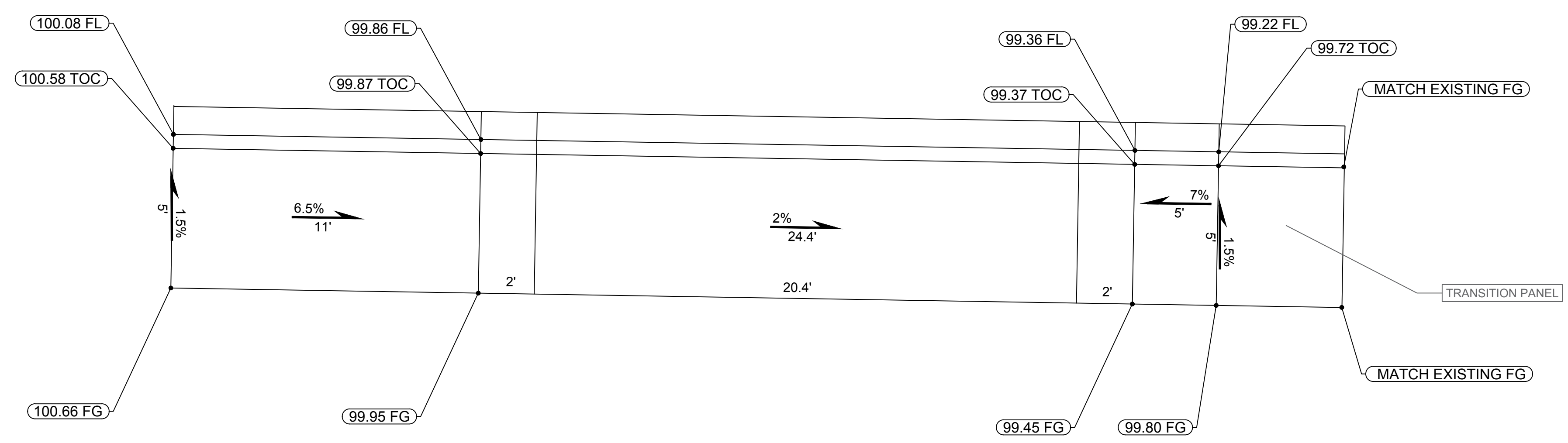
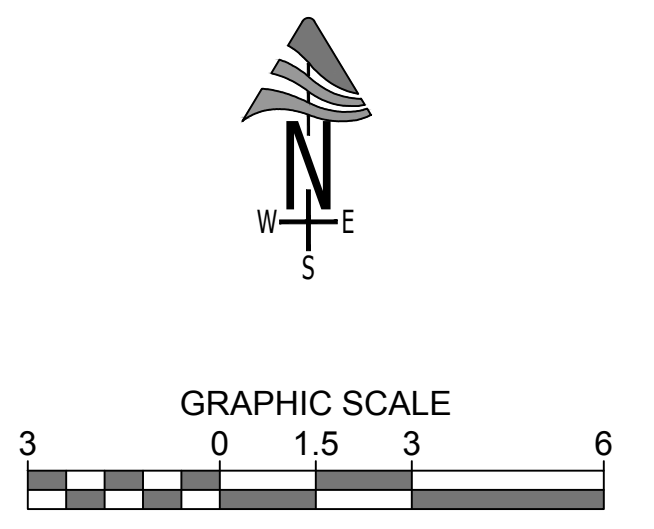
SW 356TH STREET PRESERVATION PROJECT

DRIVEWAYS 1 AND 2

DRIVEWAYS

CITY PROJECT #:
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SHT. 16
 OF 25

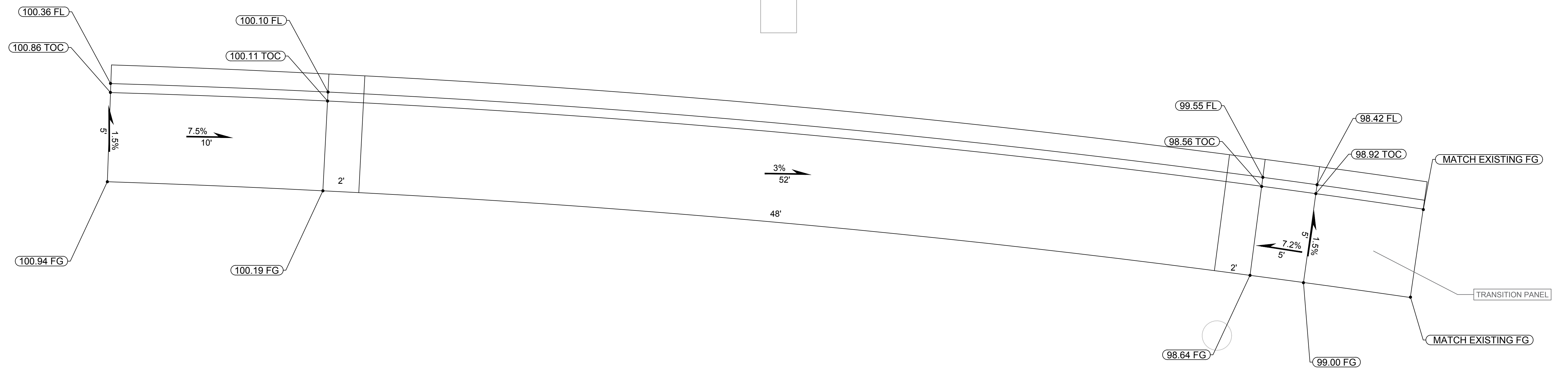


#3 SW 356TH STREET 20+79 RT

FL = GUTTER FLOW LINE
TOC = TOP OF CURB
FG = FINISH GRADE

DRIVEWAY NOTES

1. SLOPES SHOWN IN PLAN VIEW, APPROACH LAYOUT AND LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT APPROACH TO MEET ADA REQUIREMENTS.
2. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE CFW STD DETAIL 3-06 OR 3-06A FOR DRIVEWAY DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
3. APPROACH SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.



#4 SW 356TH STREET 25+85 RT

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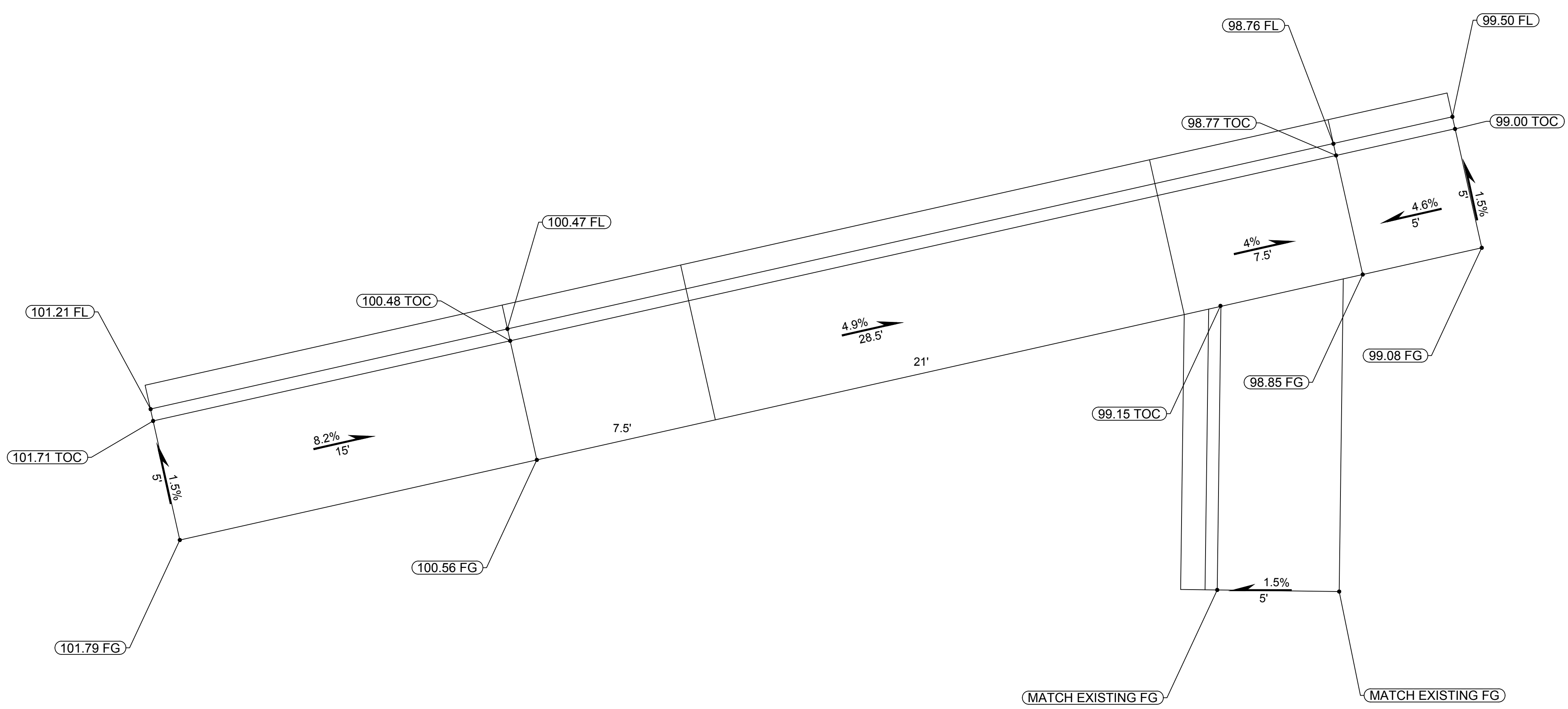
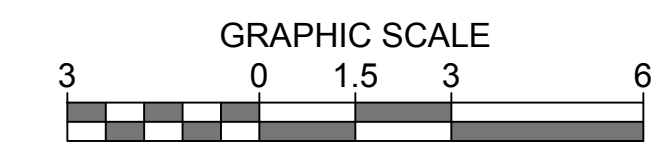
DRAFTED: J. MULKEY
 DESIGNED: J. MULKEY
 REVIEWED: S. HAMEL
 APPROVED: D. WINKLER

SARAH L. HAMEL
 STATE OF WASHINGTON
 40716 REGISTERED
 PROFESSIONAL ENGINEER
 09/09/2020

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SW 356TH STREET PRESERVATION PROJECT
DRIVEWAYS 3 AND 4
DRIVEWAYS

CITY PROJECT #:
36215
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 OF **25**



FL = GUTTER FLOW LINE
 TOC = TOP OF CURB
 FG = FINISH GRADE

DRIVEWAY NOTES

1. SLOPES SHOWN IN PLAN VIEW, APPROACH LAYOUT AND LENGTH FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS AND CONSTRUCT APPROACH TO MEET ADA REQUIREMENTS.
2. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE CFW STD DETAIL 3-06 OR 3-06A FOR DRIVEWAY DETAILS. SEE CFW STD DET 3-4 FOR CURB AND GUTTER AND CEMENT CONCRETE BARRIER CURB DETAILS.
3. APPROACH SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.

#5 SW 356TH STREET 42+60 RT

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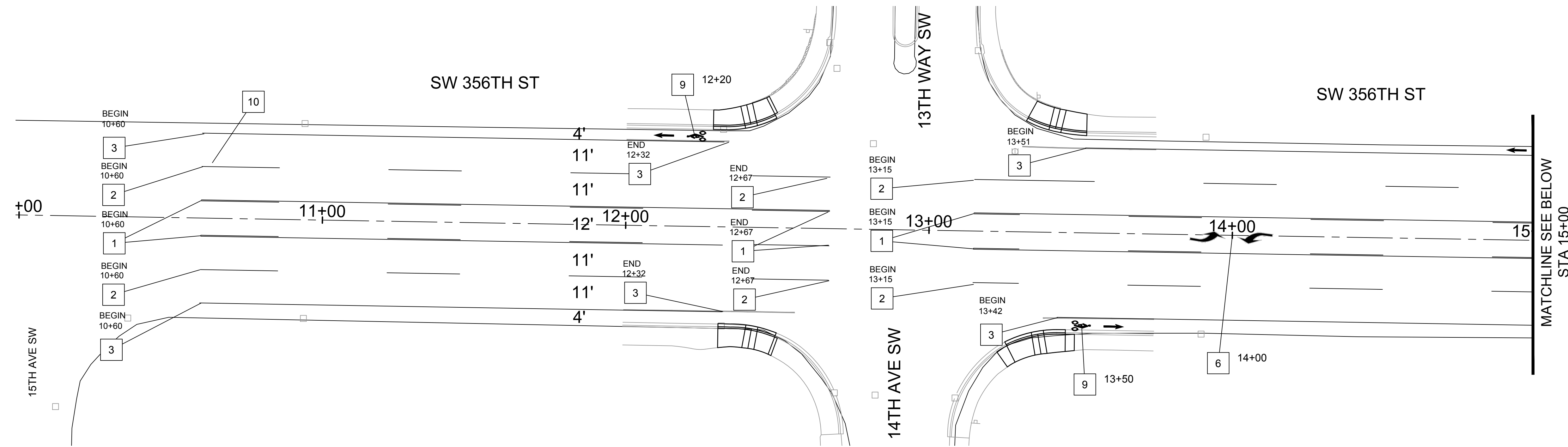
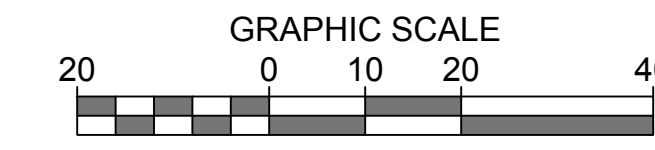
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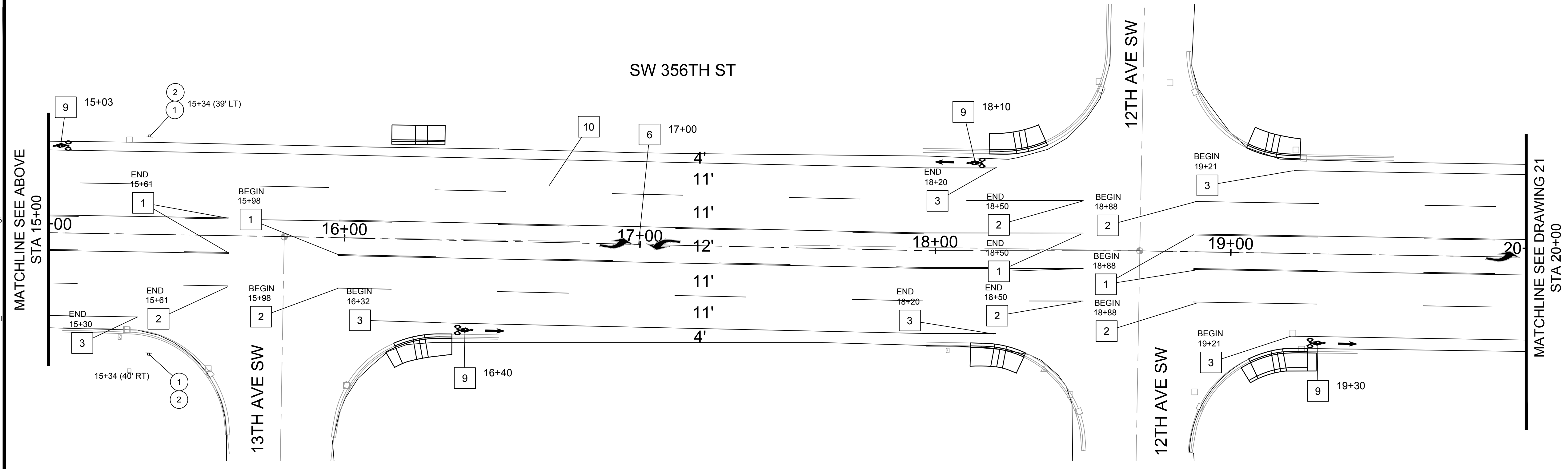
**DRIVEWAY 5
 DRIVEWAYS**

CITY PROJECT #:
36215

SHT. **18**
 OF **25**



- SIGN NOTES:**
- ① NO PEDESTRIAN CROSSING, R9-3A
 - ② USE CROSSWALK (PLAQUE), R9-3BL
 - ③ USE CROSSWALK (PLAQUE), R9-3BR



- PAVEMENT MARKING CONSTRUCTION NOTES:**
- ① 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
 - ② 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
 - ③ 4" PLASTIC LINE (MATERIAL TYPE D)
 - ④ 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
 - ⑤ 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
 - ⑥ PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
 - ⑦ PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - ⑧ PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - ⑨ PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02
 - ⑩ HYDRANT MARKER TYPE 2B

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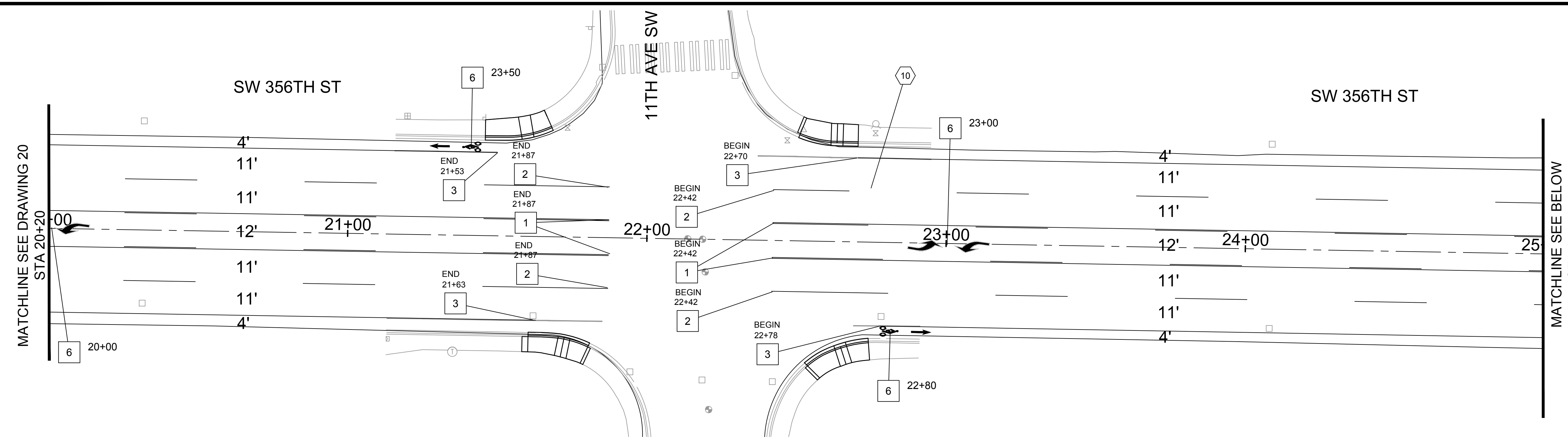
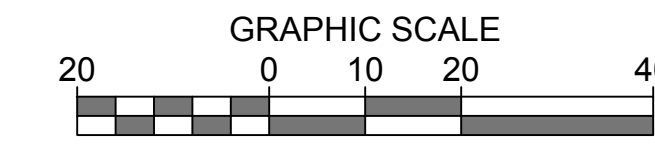
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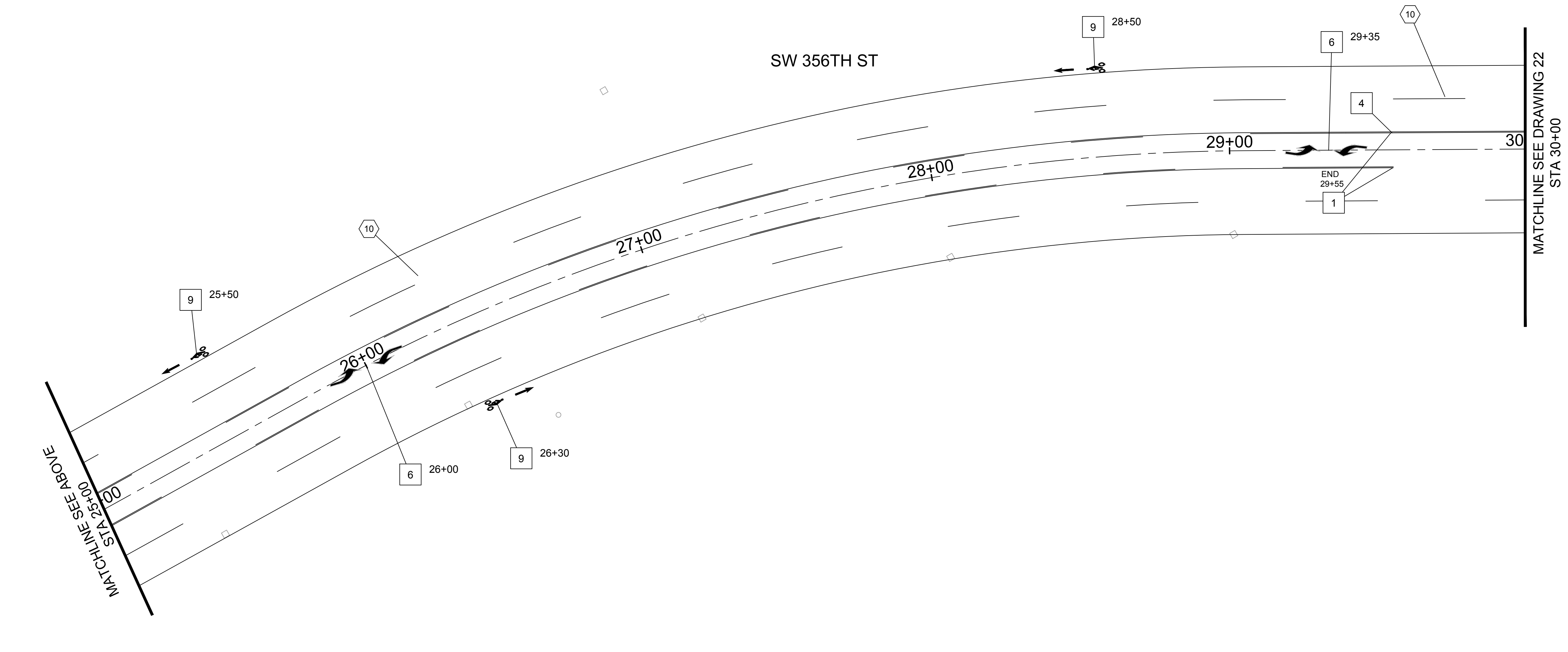
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SW 356TH STREET PRESERVATION PROJECT
PAVEMENT MARKING PLAN
 STA 10+60 TO 20+00

CITY PROJECT #:
36215
 SHT. **19**
 OF **25**



- SIGN NOTES:
- 1 NO PEDESTRIAN CROSSING, R9-3A
 - 2 USE CROSSWALK (PLAQUE), R9-3BL
 - 3 USE CROSSWALK (PLAQUE), R9-3BR



- PAVEMENT MARKING CONSTRUCTION NOTES:
- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
 - 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
 - 3 4" PLASTIC LINE (MATERIAL TYPE D)
 - 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
 - 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
 - 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
 - 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - 9 PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02
 - 10 HYDRANT MARKER TYPE 2B

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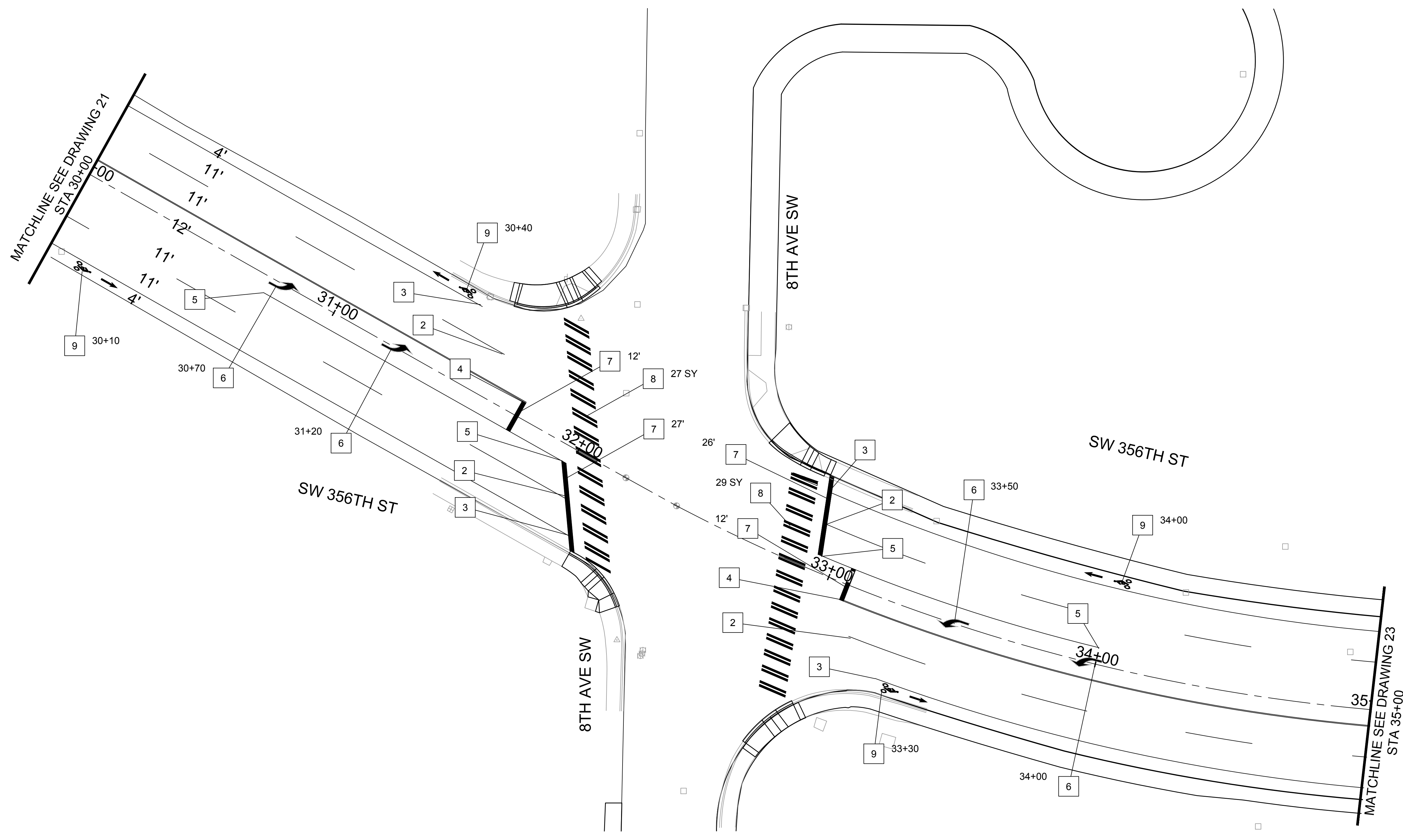
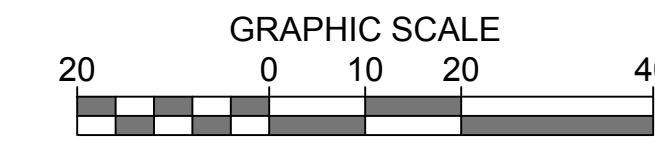
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SW 356TH STREET PRESERVATION PROJECT

PAVEMENT MARKING PLAN
STA 20+00 TO 30+00

CITY PROJECT #:
36215

SHT. **20**
OF **25**



- SIGN NOTES:**
- ① NO PEDESTRIAN CROSSING, R9-3A
 - ② USE CROSSWALK (PLAQUE), R9-3BL
 - ③ USE CROSSWALK (PLAQUE), R9-3BR

- PAVEMENT MARKING CONSTRUCTION NOTES:**
- ① 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
 - ② 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
 - ③ 4" PLASTIC LINE (MATERIAL TYPE D)
 - ④ 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
 - ⑤ 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
 - ⑥ PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
 - ⑦ PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - ⑧ PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
 - ⑨ PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02
 - ⑩ HYDRANT MARKER TYPE 2B

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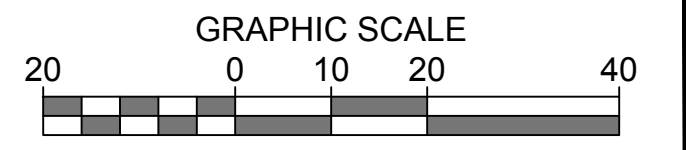
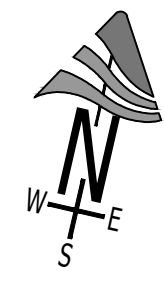
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SW 356TH STREET PRESERVATION PROJECT

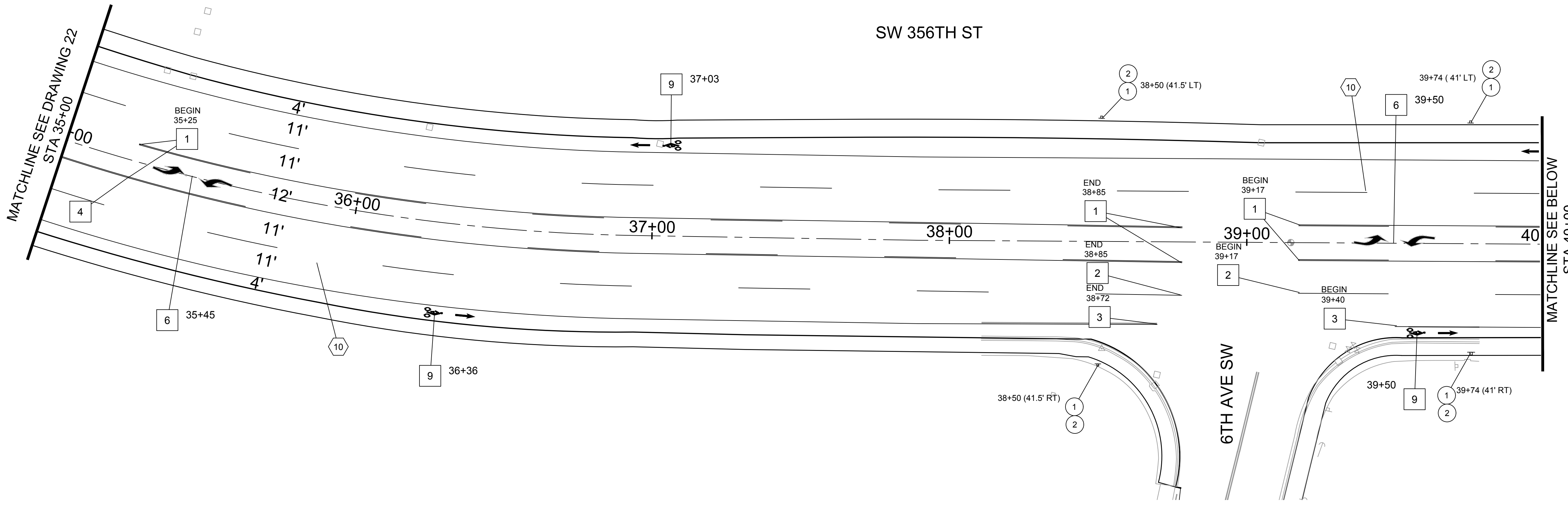
PAVEMENT MARKING PLAN
STA 30+00 TO 35+00

CITY PROJECT #:
36215

SHT. **21**
OF **25**



SW 356TH ST



SIGN NOTES:

- 1 NO PEDESTRIAN CROSSING, R9-3A
- 2 USE CROSSWALK (PLAQUE), R9-3BL
- 3 USE CROSSWALK (PLAQUE), R9-3BR

SW 356TH ST



PAVEMENT MARKING CONSTRUCTION NOTES:

- 1 4" PROFILED PLASTIC TWO WAY LEFT TURN LANE LINE (MATERIAL TYPE D)
- 2 4" PROFILED PLASTIC LANE LINE (MATERIAL TYPE D)
- 3 4" PLASTIC LINE (MATERIAL TYPE D)
- 4 4" PROFILED PLASTIC DOUBLE YELLOW CENTERLINE (MATERIAL TYPE D)
- 5 8" PROFILED PLASTIC WIDE LINE (MATERIAL TYPE D)
- 6 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD. PLAN M-24.40-02 (MATERIAL TYPE A)
- 7 PLASTIC STOP LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 8 PLASTIC CROSSWALK LINE PER CFW DETAIL 3-21 (MATERIAL TYPE A)
- 9 PAINT BIKE LANE SYMBOL PER WSDOT STD. PLAN M-9.50-02
- 10 HYDRANT MARKER TYPE 2B

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SW 356TH STREET PRESERVATION PROJECT

PAVEMENT MARKING PLAN
STA 35+00 TO 44+95

CITY PROJECT #:
36215

SHT. **22**
OF **25**

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

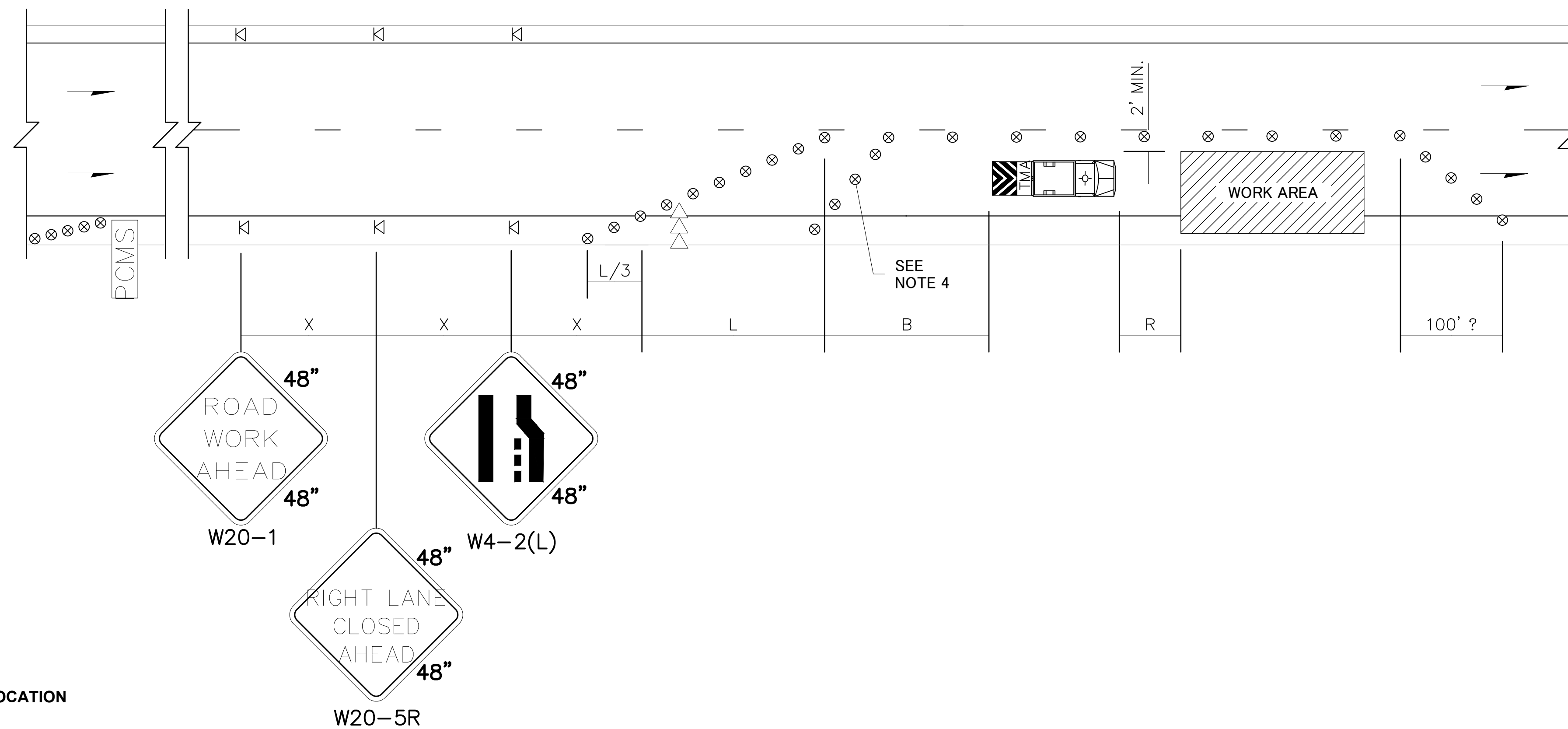
SIGN SPACING = X (1)		
FREeways & EXPRESSWAYS	55 / 70 MPH	1500' ?
RURAL HIGHWAYS	60 / 65 MPH	800' ?
RURAL ROADS	45 / 55 MPH	500' ?
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ?
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ? (2)
URBAN STREETS	25 MPH OR LESS	100' ? (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE IN ADVANCE OF LANE CLOSURE SIGNING.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN

SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCR OACH INTO THE ADJACENT LANE.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS ARE BLACK ON ORANGE.

85% DRAWINGS

DRAWING VERSION / REVISION LOG		
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MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ?
RURAL HIGHWAYS	60 / 65 MPH	800' ?
RURAL ROADS	45 / 55 MPH	500' ?
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ?
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ? (2)
URBAN STREETS	25 MPH OR LESS	100' ? (2)

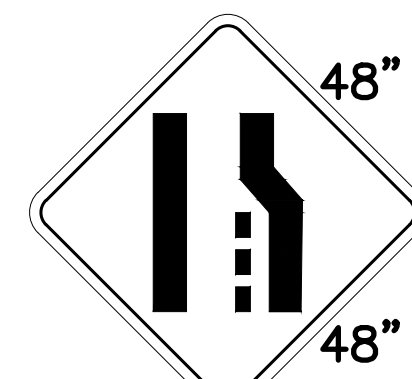
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

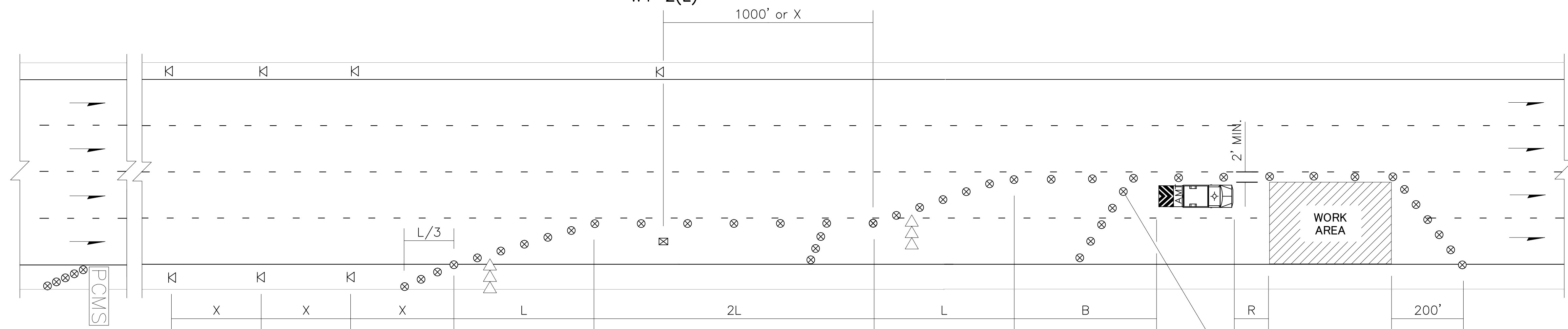
PCMS	
1	2
2 LANES CLOSED AHEAD	WATCH FOR SLOW TRAFFIC
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE IN ADVANCE OF LANE CLOSURE SIGNING.

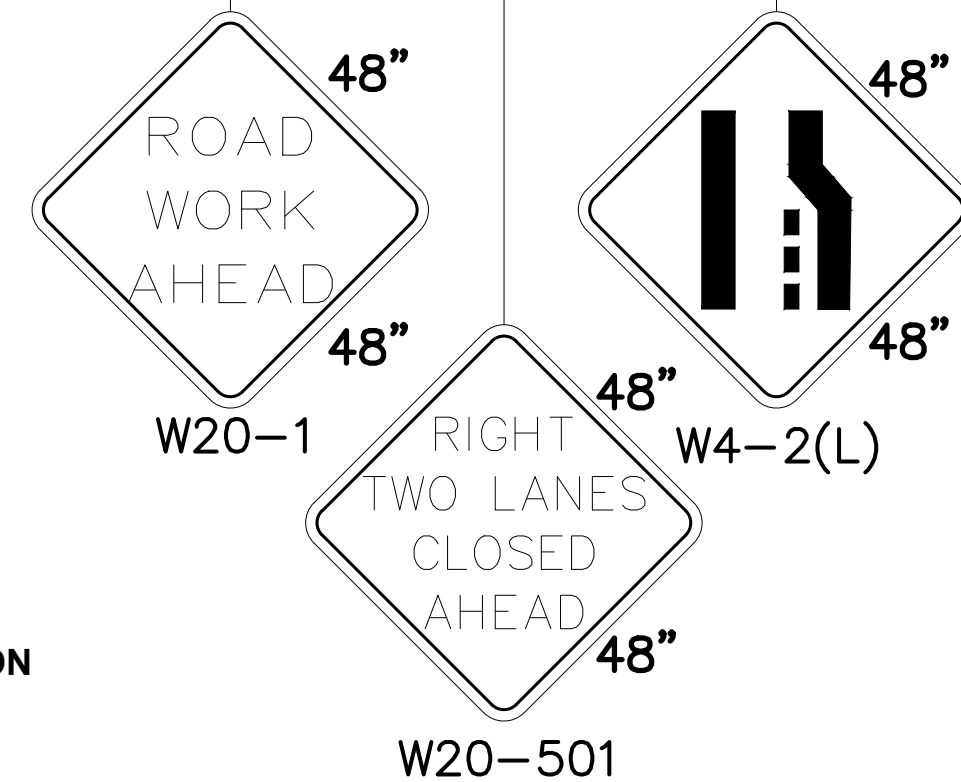
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FEET MAX.



W4-2(L)



SEE NOTE 4



LEGEND

- ⊗ TRAFFIC SAFETY DRUM
- ⊠ TEMPORARY SIGN LOCATION
- ⇨⇨⇨ SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)

DOUBLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANES.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS ARE BLACK ON ORANGE.

85% DRAWINGS

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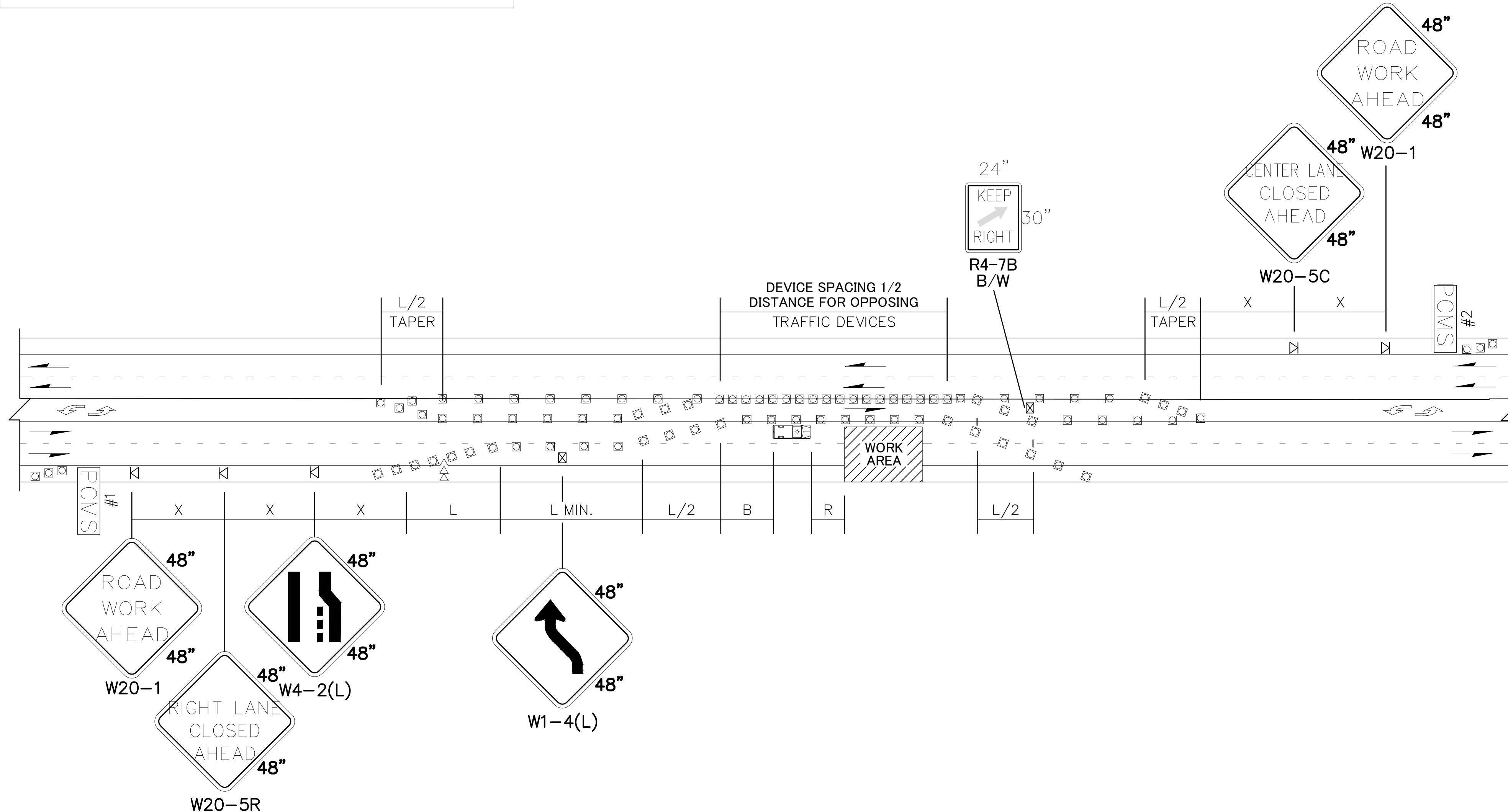
SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' ?
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ?
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ? (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ? (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)											
LANE WIDTH (feet)	Posted Speed (mph)										
	25	30	35	40	45	50	55	60	65	70	
10	105	150	205	270	450	500	-	-	-	-	
11	115	165	225	295	495	550	-	-	-	-	
12	125	180	245	320	540	600	-	-	-	-	

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B											
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70	
LENGTH (feet)	155	200	250	305	360	425	-	-	-	-	
BUFFER VEHICLE ROLL AHEAD DISTANCE = R											
TRANSPORTABLE ATTENUATOR										30 FEET MIN. TO 100 FEET MAX.	
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.											
PROTECTIVE VEHICLE										NO SPECIFIED DISTANCE REQUIRED	
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.											



PCMS #1		PCMS #2	
1	2	1	2
RIGHT LANE CLOSURE	1 MILE AHEAD	CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- LEGEND**
- ⊠ TEMPORARY SIGN LOCATION
 - ⊠ CHANNELIZING DEVICES
 - ⇌ SEQUENTIAL ARROW SIGN
 - ☐ PROTECTIVE VEHICLE
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY
NOT TO SCALE

- NOTES:
- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
 - RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
 - FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

85% DRAWINGS

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DESIGNED: J. MULKEY
REVIEWED: S. HAMEL
APPROVED: D. WINKLER

SARAH L. HAMEL
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
09/09/2020

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SW 320TH STREET PRESERVATION PROJECT
TRAFFIC CONTROL PLAN

CITY PROJECT #:
214
SHT. **25**
OF **25**