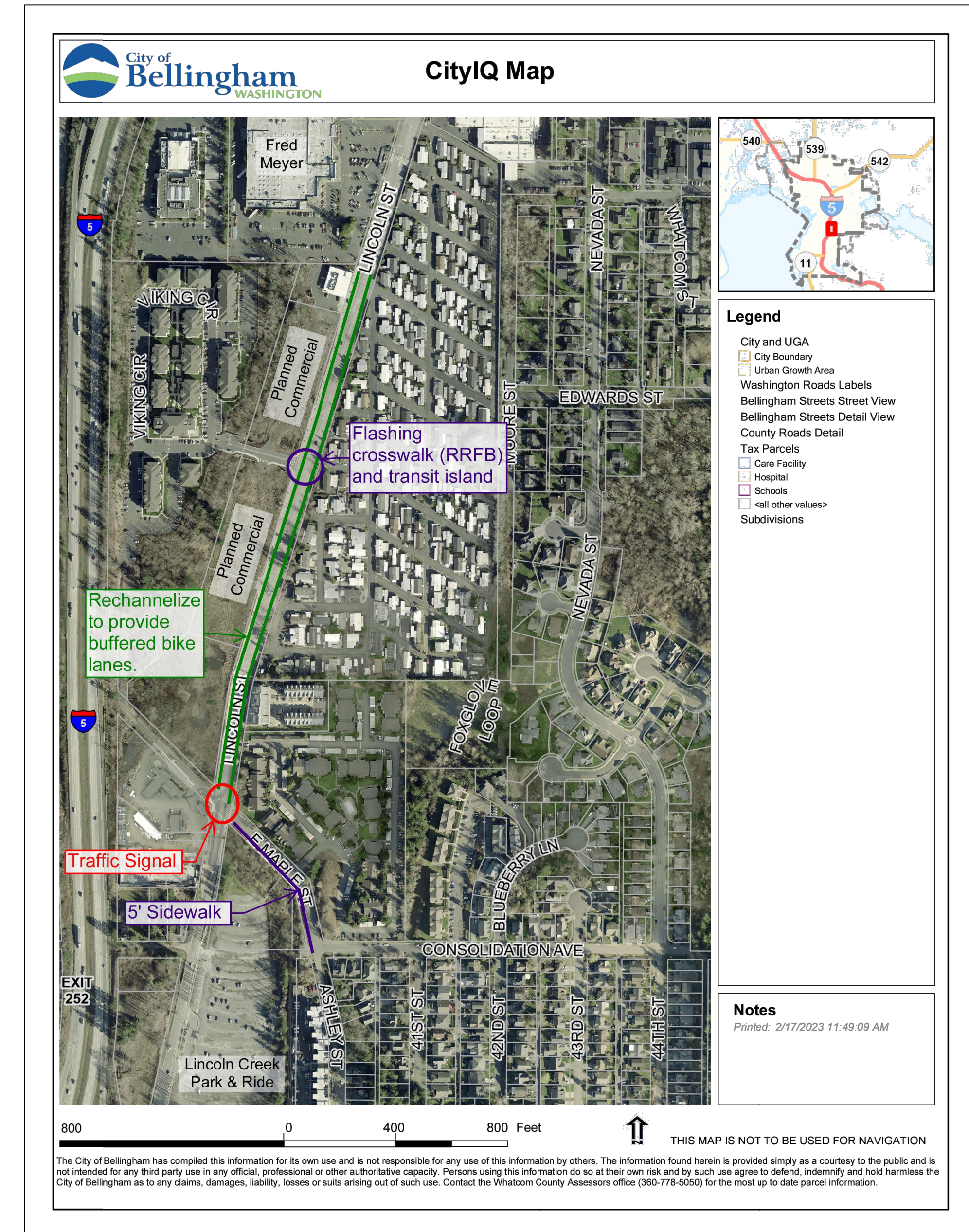


ET034 LINCOLN ST./E MAPLE ST. SIGNAL & NON-MOTORIZED IMPROVEMENTS

CITY OF BELLINGHAM, WASHINGTON

SHEET INDEX

1. COVER
2. GENERAL NOTES AND LEGEND
3. SURVEY CONTROL SHEET (1)
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5. STORMWATER POLLUTION PREVENTION PLAN
6. DEMO & TESC E MAPLE ST STA 10+00 TO 15+50
7. DEMO & TESC LINCOLN ST STA 20+25 TO 30+25
8. TYPICAL ROAD SECTIONS
9. E MAPLE ST - STA 10+00 TO STA 15+50
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13. LINCOLN ST & E MAPLE ST SIGNAL
14. CHANNELIZATION DETAILS
15. MISCELLANEOUS DETAILS
16. RRFB DETAILS
17. TRAFFIC SIGNAL DETAILS
18. CITY OF BELLINGHAM DETAILS
19. WSDOT DETAILS



60% REVIEW

PRELIMINARY

4 3 2 1	Revision	By	PROJECT ENGINEER <u>JB</u>	DIRECTOR PUBLIC WORKS <u>E.C.J.</u>	CITY OF BELLINGHAM, WASHINGTON	SCALE	DATUM	Job. No. <u>ET034</u>	LINCOLN / E. MAPLE SIGNAL & N.M.I. COVER	SHEET	
Date	No	Inspector	DESIGNED/DRAWN <u>JB/JAM</u>	CITY ENGINEER <u>C.M.A.S.</u>	PUBLIC WORKS DEPARTMENT	Horiz. <u>1"=N/A</u>	NAD 83/98	Date <u>xx</u>		1	OF
			INSPECTOR <u>TBD</u>	ASSISTANT DIRECTOR <u>M.A.O.</u>	ENGINEERING DIVISION	Vert. <u>1"=N/A</u>	NAVD 88	Field Bk. <u>xx</u>		19	

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED
RIGHT OF WAY LINE	- - - - -	- - - - -	UNDERGROUND POWER	- P -	- P -
PROPERTY LINE	= = = = =	= = = = =	UTILITY POLE	○	●
CENTER LINE	- - - - -	- - - - -	SIDEWALK	= = = = =	= = = = =
WATER MAIN	- W -	- W -	CURB & GUTTER	= = = = =	= = = = =
WATER SERVICE	- W -	- W -	EDGE OF PAVEMENT	- - - - -	- - - - -
WATER VALVE	⊙	●	EDGE OF GRAVEL/DIRT	- - - - -	- - - - -
FIRE HYDRANT	⊙	●	WHEELCHAIR RAMP	↘ ↙	↘ ↙
SANITARY SEWER MAIN	- S -	- S -	BUILDING LINE	- - - - -	- - - - -
SANITARY SEWER SERVICE	- SS -	- SS -	TREE LINE	~ ~ ~ ~ ~	~ ~ ~ ~ ~
STORM SEWER MAIN	- D -	- D -	FENCE LINE	- X -	- X -
STORM SEWER SERVICE	- D -	- D -	WALL LINE (ROCK)	○ ○ ○ ○	○ ○ ○ ○
SEWER MANHOLE	○	●	WALL LINE	/ / / /	/ / / /
STORM MANHOLE	⊙	●	SHRUBS	⊙	⊙
CATCH BASIN	□	■	TREES	⊙	⊙
CULVERT	= = = = =	= = = = =	RIP RAP	⊙	⊙
DRAINAGE DITCH	- - - - -	- - - - -	STREET LIGHT JUNCTION BOX	□	□
CREEK	- - - - -	- - - - -	TRAFFIC JUNCTION BOX	⊙	⊙
GAS MAIN	- G -	- G -	LUMINAIRE (STREET LIGHT)	⊙	⊙
GAS SERVICE	- G -	- G -	SIGNAL POLE	⊙	⊙
UNDERGROUND TELEPHONE	- T -	- T -	PEDESTRIAN SIGNAL	⊙	⊙
FIBER OPTIC LINE	- FO -	- FO -			
MONUMENT	⊙	⊙			

ASBUILT	
SANITARY SEWER MAIN	- S -
SANITARY SEWER MANHOLE	●
(0+50) INDICATES STATION FROM LAST MANHOLE	

GENERAL NOTES

ALL WORK SHALL CONFORM TO THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" CURRENT EDITION (WSDOT) AND THE "CITY OF BELLINGHAM DEVELOPMENT GUIDELINES AND IMPROVEMENT STANDARDS" UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THE REGULATORY SPECIFICATIONS OR STANDARDS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL. ALL REFERENCES TO "SPECIFICATION SECTIONS" REFER TO THE "STANDARD SPECIFICATIONS FOR ROAD BRIDGE AND MUNICIPAL CONSTRUCTION" UNLESS OTHERWISE NOTED.

THE BEDDING FOR PVC PIPE SHALL BE PEA GRAVEL, ACCORDING TO CITY OF BELLINGHAM STANDARD PLAN No. SS-750.

ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL FOR TRENCH BACKFILL AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (MODIFIED PROCTOR).

PLUG ALL CULVERTS, SEWERS, AND CONDUITS PRIOR TO ABANDONMENT. AS PER STANDARD SPECIFICATIONS SECTION 7-08.3(4)

ALL LAWN AND VEGETATED AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY CONSTRUCTION EQUIPMENT, VEHICLES OR PERSONNEL SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTORS EXPENSE.

THIS PROJECT MAY REQUIRE VARIOUS PERMITS AS OUTLINED IN THE PROJECT SPECIFICATION'S GENERAL PROVISIONS. ALL WORK SHALL BE PERFORMED IN A MANNER WHICH ENSURES CONFORMANCE WITH ANY PERMIT REQUIREMENTS.

THE CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF BELLINGHAM ENGINEERING DIVISION PRIOR TO BEGINNING CONSTRUCTION.

UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN THE AREA OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY OWNERS FOR LOCATIONS AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE ONE-CALL NUMBER FOR UNDERGROUND UTILITIES IS: 1-800-424-5555.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING.

THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO THE PROJECT.

PUBLIC RIGHTS-OF-WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEEPED AND REMOVED WITH A VACUUM SWEEPER.

PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO, OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING, MAINTAINING, & REMOVING EROSION CONTROL MEASURES (SILT FENCE, ROCK CHECK DAMS, SILT PONDS, CATCH BASIN FILTERS, ETC...) THROUGHOUT THE DURATION OF THE PROJECT. ALL EROSION CONTROL WORK IS CONSIDERED INCIDENTAL TO THE ITEMS OF WORK IN THE CONTRACT FOR THIS PROJECT. REFER TO THE "STORM WATER POLLUTION PREVENTION PLAN" SHEETS AND BID ITEMS NOTED IN THE CONTRACT PORTION OF THE PROJECT SPECIFICATIONS FOR SPECIFIC EROSION CONTROL NOTES.

STORM NOTES

BEDDING AND BACKFILL FOR PVC STORM MAIN PIPE SHALL CONFORM TO CITY OF BELLINGHAM STANDARD PLAN No. DR-538.

STORM MAIN CLEANOUTS SHALL CONFORM TO CITY OF BELLINGHAM STANDARD NO. SS-720

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES (SILT FENCE, ROCK CHECK DAMS, SILT PONDS, ETC..., AS DIRECTED BY THE ENGINEER) THROUGHOUT THE DURATION OF THE PROJECT.

DURING CONSTRUCTION, CATCH BASIN INSERTS OR ACCEPTABLE ALTERNATIVES MUST BE PLACED UNDER ALL EXISTING AND NEWLY CONSTRUCTED CATCH BASIN GRATES WITHIN THE PROJECT SITE.

ALL CATCH BASINS WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT AT THE COMPLETION OF THE PROJECT AND ANY MATERIAL REMOVED SHALL BE PROPERLY DISPOSED OF.

DURING ANY DITCH, CREEK & DRAINAGE WORK, WATER SHALL BE DIVERTED AROUND THE PROJECT WITH A CITY ENGINEER APPROVED METHOD.

ANY MISCELLANEOUS DRAINAGE FOUND WILL BE REQUIRED TO BE REMOVED OR CONNECTED TO THE NEW DRAINAGE SYSTEM UNDER THE DIRECTION OF THE ENGINEER.

STORM WATER POLLUTION PREVENTION PLAN AND STORM WATER PERMIT APPLICATION (SWPPP) SHALL BE SUBMITTED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT DETAILS ON CONSTRUCTION TIMING, HAUL ROUTES, CONSTRUCTION ENTRANCES AND GROUND STABILIZATION. THE SWPPP AND PERMIT SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO COMMENCEMENT OF WORK.

SURVEY NOTES

CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ALL EXISTING SURVEY MONUMENTS DURING CONSTRUCTION. ALL SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE IDENTIFIED, REFERENCED AND REPLACED IN ACCORDANCE WITH RECOGNIZED SURVEYING PRACTICES BY A LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER PRIOR TO DESTRUCTION.

EROSION CONTROL LEGEND

<p>VG WSECY BMP C101 PRESERVE NATURAL VEGETATION</p> <p>IP WSECY BMP C220 STORM DRAIN INLET PROTECTION</p> <p>TP TREE PROTECTION FENCE PARKS STANDARD DETAIL</p>	<p>CD WSECY BMP C207, C208, OR C208 = (GEOTEXTILE CHECK DAM)</p> <p>SF WSECY BMP C233 SILT FENCE AT CLEARING LIMITS</p> <p>← DRAINAGE FLOW DIRECTION ARROWS (SHEET FLOW OR SHALLOW CHANNEL FLOW)</p>
---	--

DEMOLITION LEGEND

— — —	SAWCUT LINE
- - - - -	REMOVE CURB AND GUTTER
▨	ASPHALT REMOVAL
▩	CONCRETE REMOVAL
▧	REMOVE SOD AND NATIVE SOIL

PRELIMINARY

4					
3					
2					
1					
Date	No	Revision	By		

PROJECT ENGINEER JB
 DESIGNED/DRAWN JB/JAM
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"=N/A
 Vert. 1"=N/A

DATUM
 NAD 83/98
 NAVD 88

Job. No. ET034
 Date xx
 Field Bk. xx

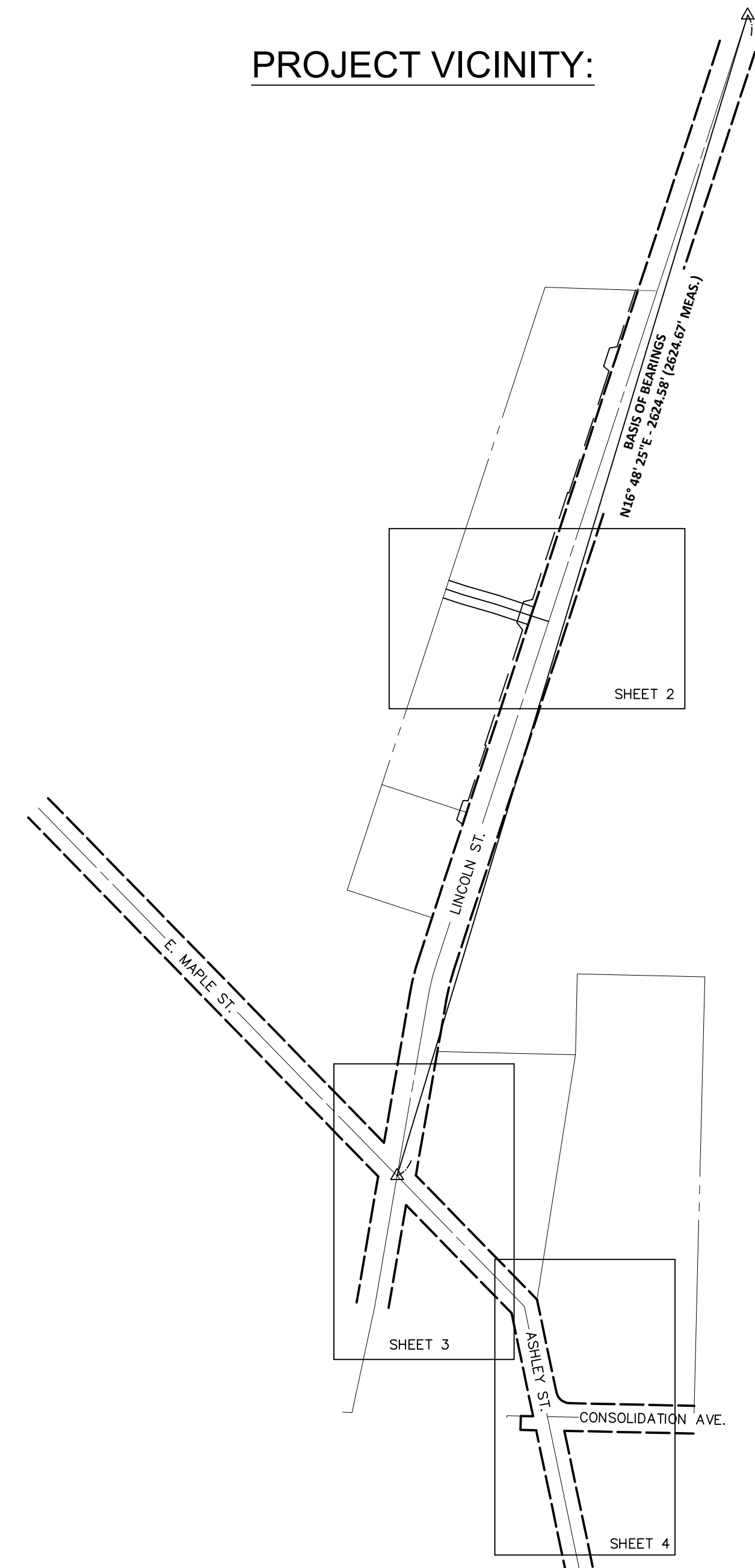
LINCOLN / E. MAPLE SIGNAL & N.M.I.
 GENERAL NOTES AND LEGEND

SHEET
 2 OF
 19

LINCOLN ST / E MAPLE ST TRAFFIC SIGNAL

CITY OF BELLINGHAM PUBLIC WORKS PROJECT #ET034
TOPOGRAPHIC EXISTING CONDITIONS SURVEY

PROJECT VICINITY:



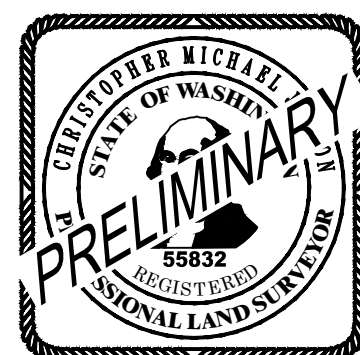
SURVEYOR'S NOTES:

- HORIZONTAL DATUM:** RELATED TO WASHINGTON COORDINATE SYSTEM (NAD83/98), NORTH ZONE
BASIS OF BEARINGS: CITY OF BELLINGHAM SURVEY WORKSHEET #5403 (SIDEWALK IMPROVEMENT PROGRAM ES-0504)
LINE HELD: **N16°48'25"E 2624.58'** (2624.67' MEAS.) BETWEEN FOUND BRASS DISK (COB 967) AT THE INTERSECTION OF LINCOLN ST. AND E. MAPLE ST., AND FOUND BRASS PIN (COB 3223) AT LINCOLN ST. P.I.
- VERTICAL DATUM:** NAVD88
METHOD: CLOSED LOOP DIFFERENTIAL LEVELING
PROJECT BENCHMARKS:

COB 5915	BRASS DISK BM	EL=162.34' (PT #916)
COB 967	BRASS DISK C/L INTERSECTION	EL=170.86' (PT #908)
COB 5916	BRASS DISK BM	EL=161.48'
- DATE OF SURVEY: **FEBRUARY 6-7, 13, 15-17, 23, & 28, AND MARCH 3, 2023**
- PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET FORTH BY WAC 332-130-145: TOPOGRAPHIC ELEMENTS ON MAPS.
- THE PURPOSE OF THIS SURVEY WAS TO COLLECT TOPOGRAPHIC DATA WITHIN THE RIGHT OF WAY OF THE SCOPED AREA.
- THIS SURVEY WAS ACCOMPLISHED USING A COMBINATION OF RELATIVE GNSS OBSERVATIONS WITH A BASE/ROVER RTK CONFIGURATION AND STANDARD FIELD TRAVERSE PROCEDURES WITH A TOTAL STATION. VERTICAL CONTROL WAS ESTABLISHED USING CLOSED LOOP DIFFERENTIAL LEVELING. ALL MONUMENTS SHOWN WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- SURFACE CONTOURS DEPICTED WITH 1' (MINOR) AND 5' (MAJOR) INTERVALS WERE GENERATED FROM FIELD OBSERVATIONS USING AUTOCAD CIVIL 3D (VERSION 2019) AND ARE TYPICALLY ACCURATE TO WITHIN APPROXIMATELY 0.5±.
- JEPSON AND ASSOCIATES ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST WHICH WERE UNDETECTABLE OR NOT VIABLE AT THE TIME OF THIS SURVEY AND THEREAFTER.
- THIS IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS SUCH, SEE A RECORD OF SURVEY OR PLAT MAP.

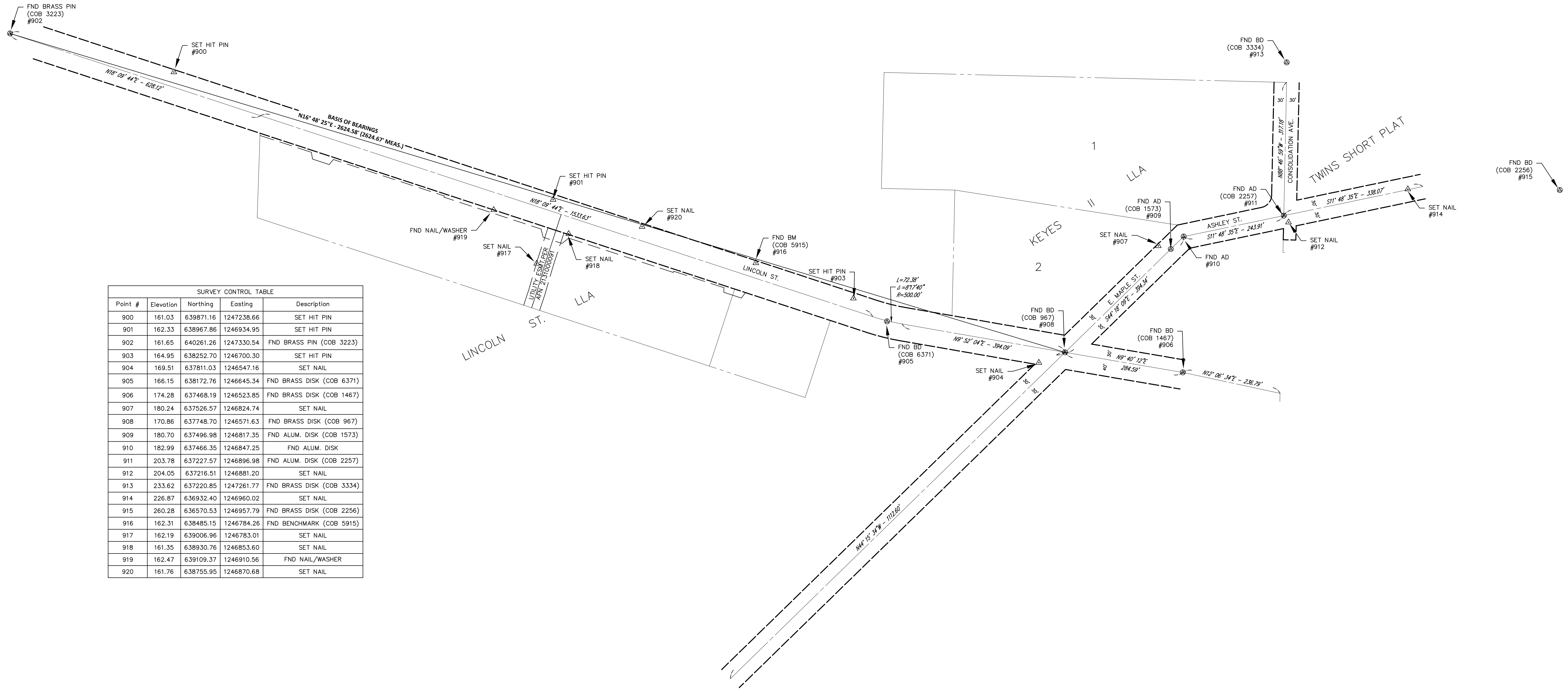
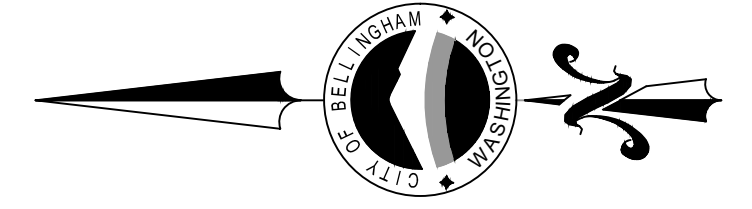
LEGEND:

- △ SURVEY CONTROL
- ⊙ FOUND CENTERLINE MON.



<table border="1"> <tr><td>4</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>Date</td><td>No</td></tr> </table>	4		3		2		1		Date	No	<table border="1"> <tr><td>Revision</td><td>By</td></tr> </table>	Revision	By	<table border="1"> <tr><td>PROJECT ENGINEER</td><td>_____</td></tr> <tr><td>DESIGNED/DRAWN</td><td>_____</td></tr> <tr><td>INSPECTOR</td><td>_____</td></tr> </table>	PROJECT ENGINEER	_____	DESIGNED/DRAWN	_____	INSPECTOR	_____	<table border="1"> <tr><td>DIRECTOR PUBLIC WORKS E.C.J.</td><td>_____</td></tr> <tr><td>CITY ENGINEER C.M.A.S.</td><td>_____</td></tr> <tr><td>ASSISTANT DIRECTOR M.A.O.</td><td>_____</td></tr> </table>	DIRECTOR PUBLIC WORKS E.C.J.	_____	CITY ENGINEER C.M.A.S.	_____	ASSISTANT DIRECTOR M.A.O.	_____	<p>CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p>	<p>SCALE Horiz. 1"=250' Vert. N/A</p>	<p>DATUM NAD 83/98 NAVD 88</p>	<p>Job. No. <u>ET034</u> Date <u>03/17/2023</u> Field Bk. <u>1068-1</u></p>	<p>LINCOLN ST / E MAPLE ST TRAFFIC SIGNAL SURVEY CONTROL</p>	<p>SHEET <u>3</u> OF <u>19</u></p>
4																																	
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CITY ENGINEER C.M.A.S.	_____																																
ASSISTANT DIRECTOR M.A.O.	_____																																

SURVEY CONTROL MAP LINCOLN ST. & MAPLE ST.



SURVEY CONTROL TABLE				
Point #	Elevation	Northing	Easting	Description
900	161.03	639871.16	1247238.66	SET HIT PIN
901	162.33	638967.86	1246934.95	SET HIT PIN
902	161.65	640261.26	1247330.54	FND BRASS PIN (COB 3223)
903	164.95	638252.70	1246700.30	SET HIT PIN
904	169.51	637811.03	1246547.16	SET NAIL
905	166.15	638172.76	1246645.34	FND BRASS DISK (COB 6371)
906	174.28	637468.19	1246523.85	FND BRASS DISK (COB 1467)
907	180.24	637526.57	1246824.74	SET NAIL
908	170.86	637748.70	1246571.63	FND BRASS DISK (COB 967)
909	180.70	637496.98	1246817.35	FND ALUM. DISK (COB 1573)
910	182.99	637466.35	1246847.25	FND ALUM. DISK
911	203.78	637227.57	1246896.98	FND ALUM. DISK (COB 2257)
912	204.05	637216.51	1246881.20	SET NAIL
913	233.62	637220.85	1247261.77	FND BRASS DISK (COB 3334)
914	226.87	636932.40	1246960.02	SET NAIL
915	260.28	636570.53	1246957.79	FND BRASS DISK (COB 2256)
916	162.31	638485.15	1246784.26	FND BENCHMARK (COB 5915)
917	162.19	639006.96	1246783.01	SET NAIL
918	161.35	638930.76	1246853.60	SET NAIL
919	162.47	639109.37	1246910.56	FND NAIL/WASHER
920	161.76	638755.95	1246870.68	SET NAIL



Date	No.	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER _____
 DESIGNED/DRAWN _____
 INSPECTOR _____

DIRECTOR PUBLIC WORKS E.C.J. _____
 CITY ENGINEER C.M.A.S. _____
 ASSISTANT DIRECTOR M.A.O. _____

CITY OF BELLINGHAM, WASHINGTON
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

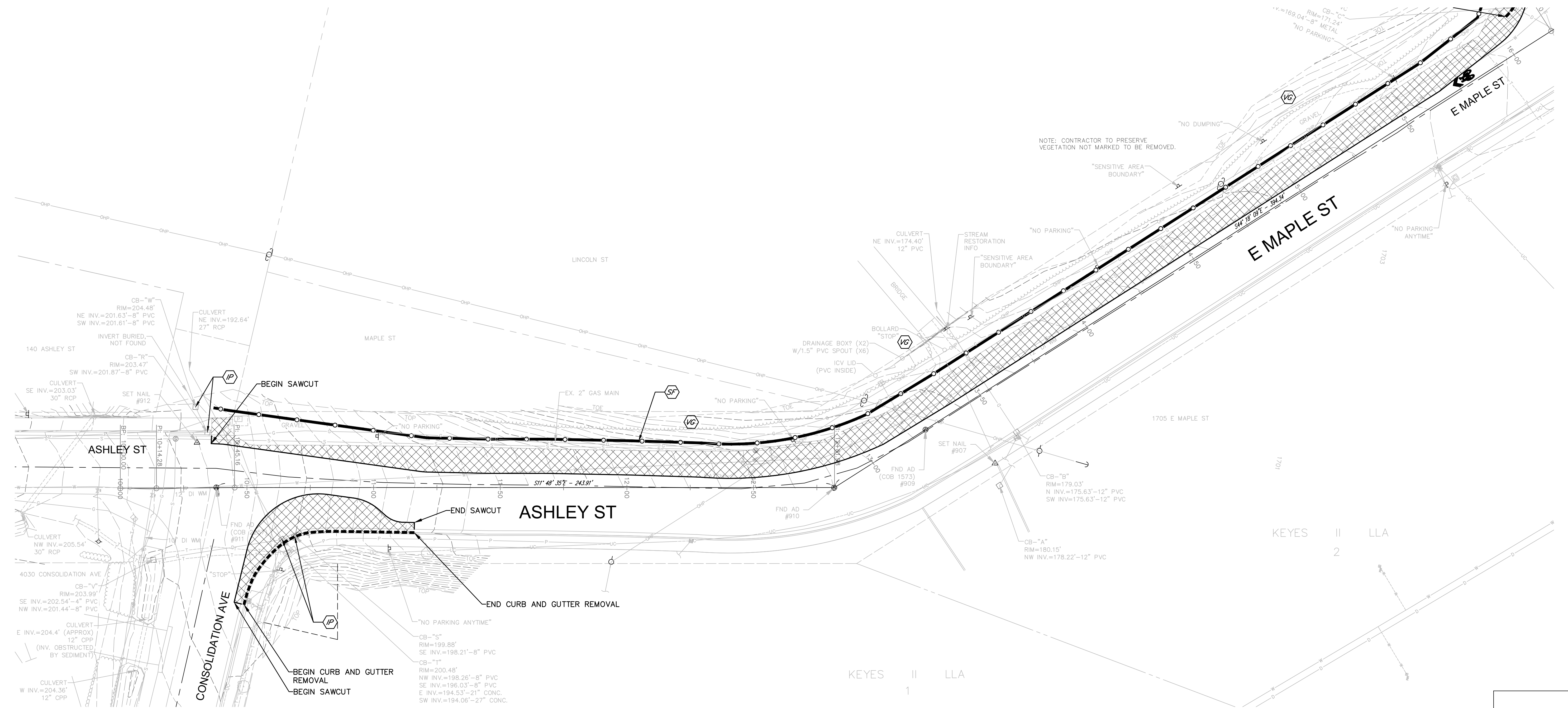
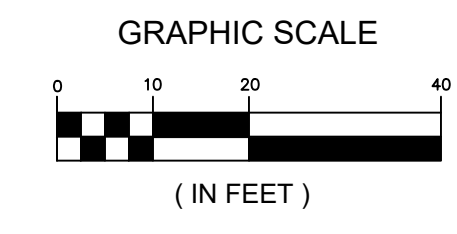
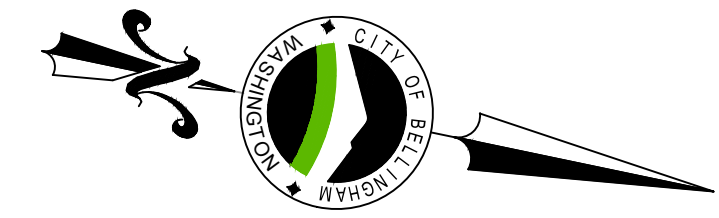
SCALE
 Horiz. 1" = 120'
 Vert. N/A

DATUM
 NAD 83/98
 NAVD 88

Job No. ET034
 Date 03/17/2023
 Field Bk. 1068-1

LINCOLN ST / E MAPLE ST TRAFFIC SIGNAL
 SURVEY CONTROL

SHEET 4 OF 19



PRELIMINARY

4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
 DESIGNED/DRAWN JB/JAM
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"=20'
 Vert. 1"=NA

DATUM
 NAD 83/98
 NAVD 88

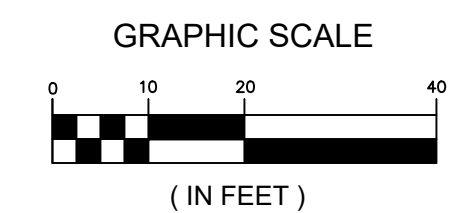
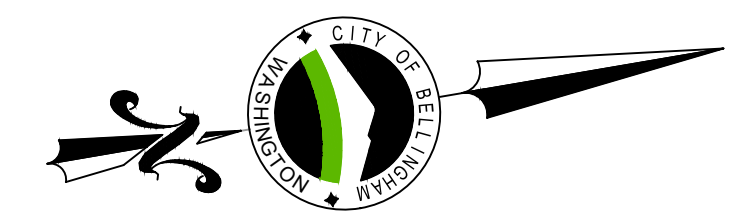
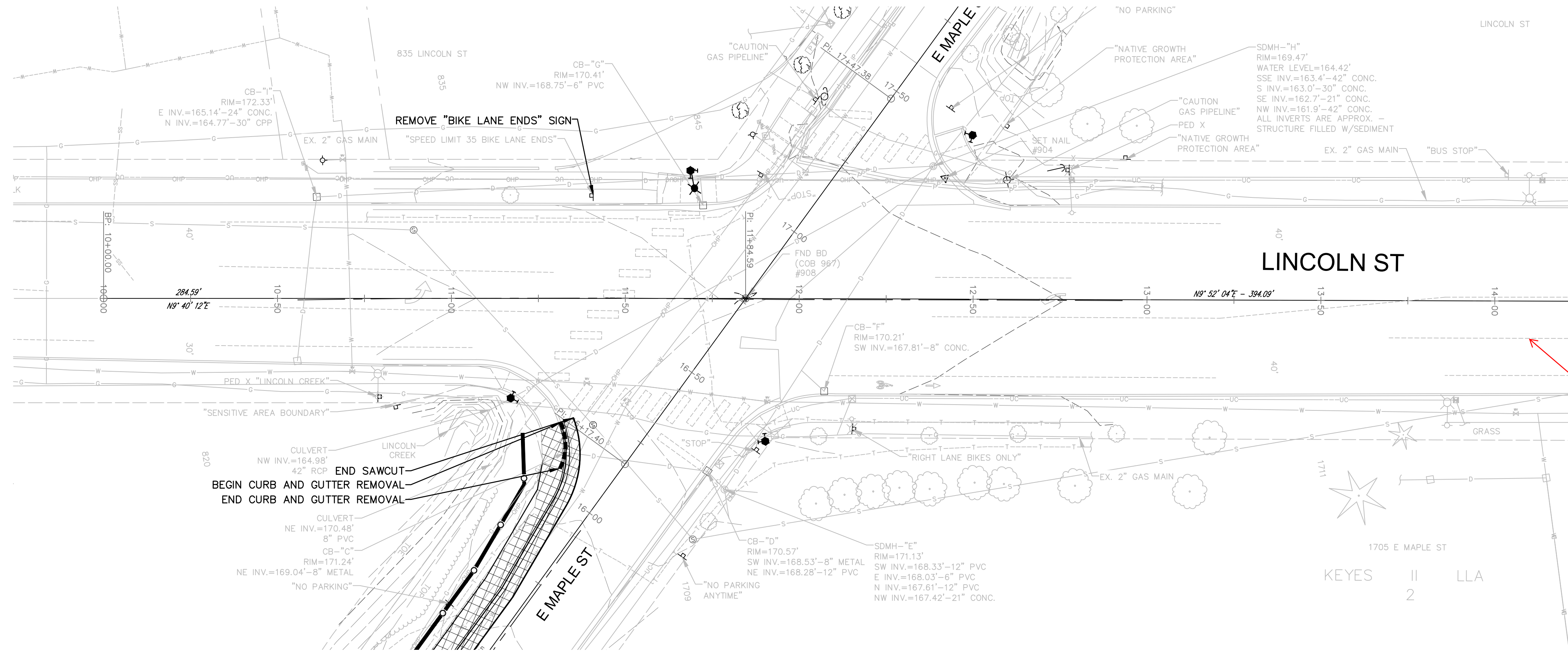
Job. No. ET034
 Date xx
 Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
DEMO & TESC E MAPLE ST STA 10+00 TO 15+50

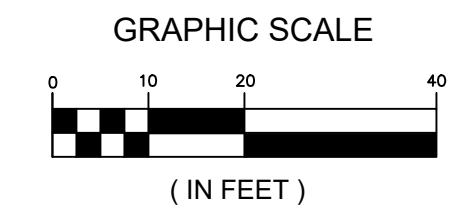
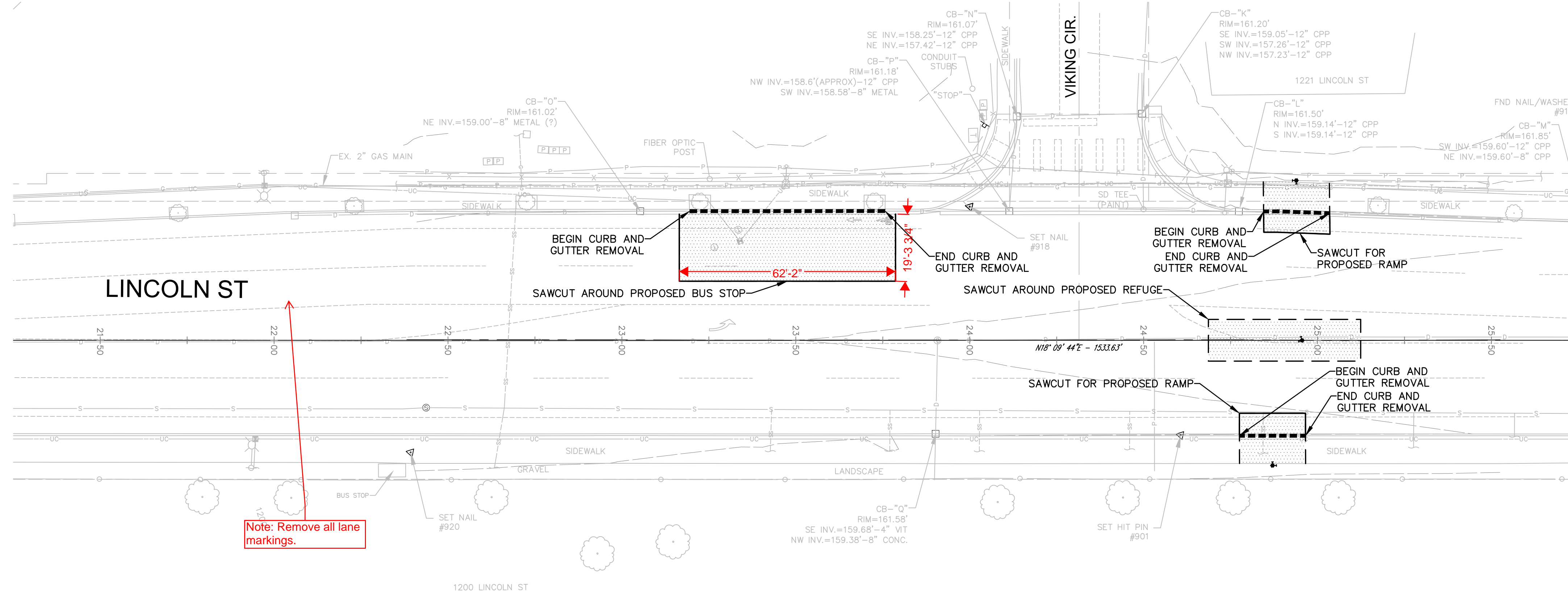
SHEET 6 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

M:\PW\Bellingham\Engineering\Section\Maple\Maple_Signal\ET034_Lincoln-Maple_Signal\ET034_PLAN.dwg, 6/28/2023 4:00:39 PM



Note: Remove all lane markings.



Note: Remove all lane markings.

PRELIMINARY

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3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
 DESIGNED/DRAWN JB/JAM
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"=20'
 Vert. 1"=NA

DATUM
 NAD 83/98
 NAVD 88

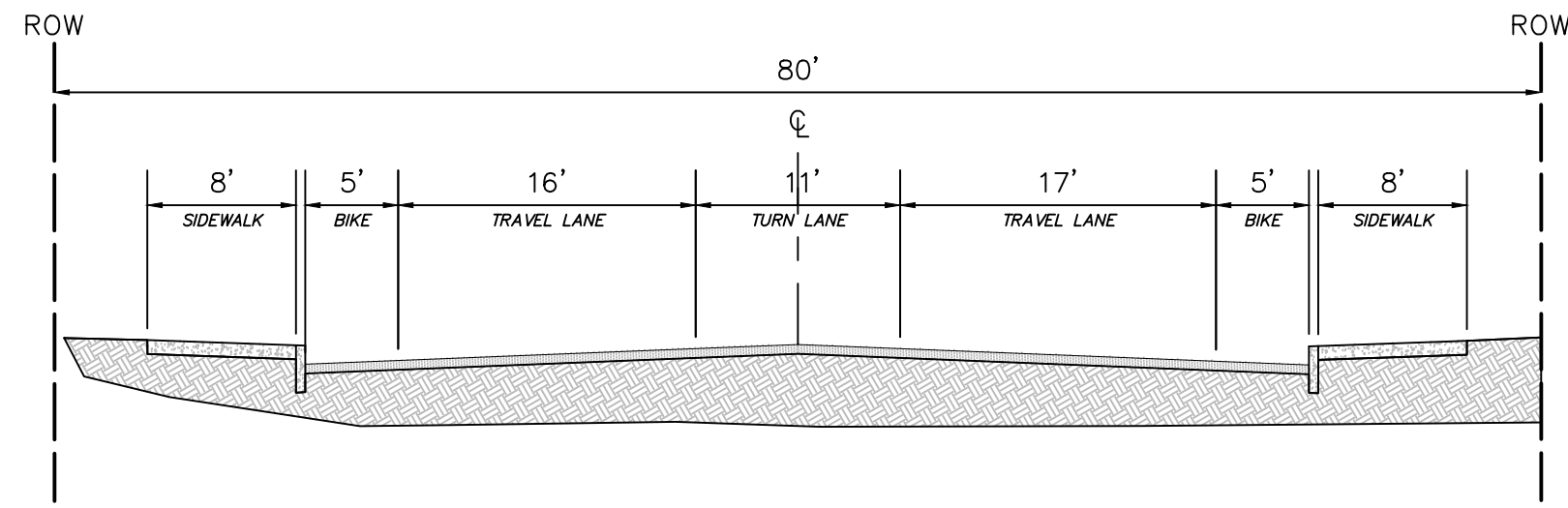
Job. No. ET034
 Date xx
 Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
 DEMO & TESC LINCOLN ST STA 20+25 TO 30+25

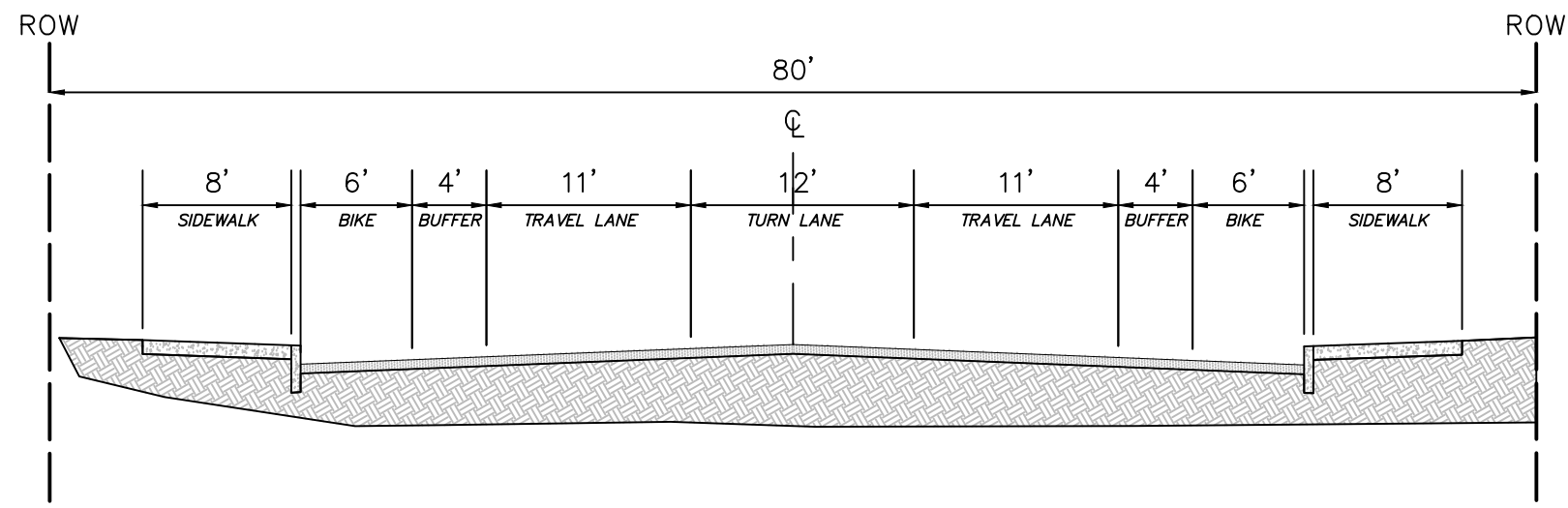
SHEET 7 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

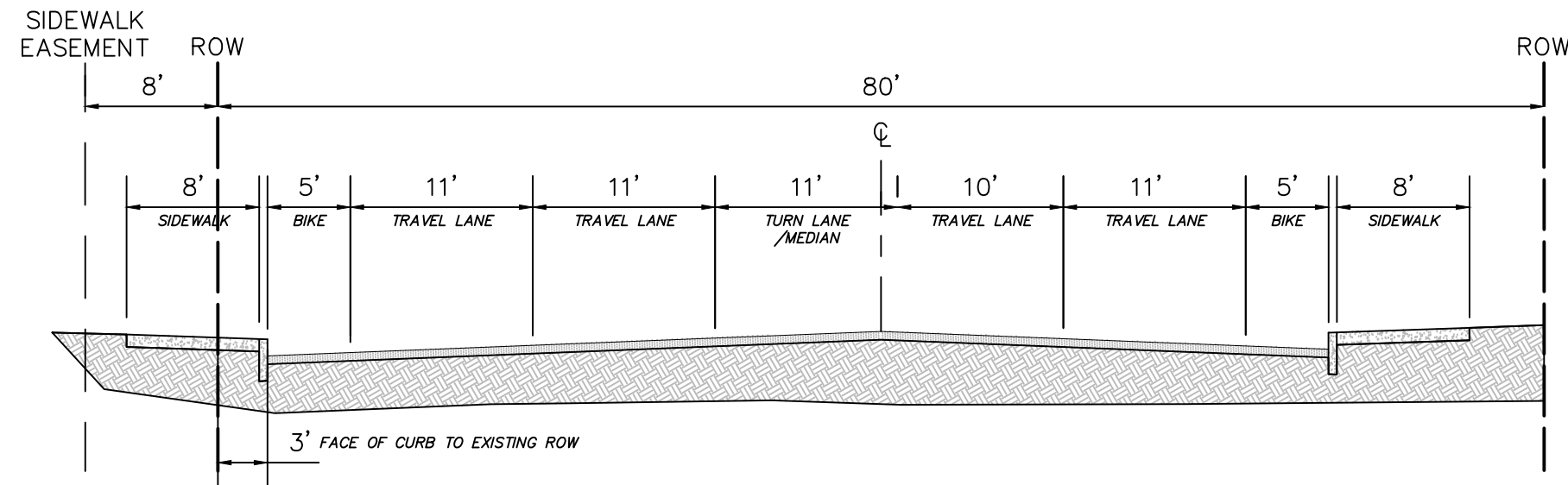
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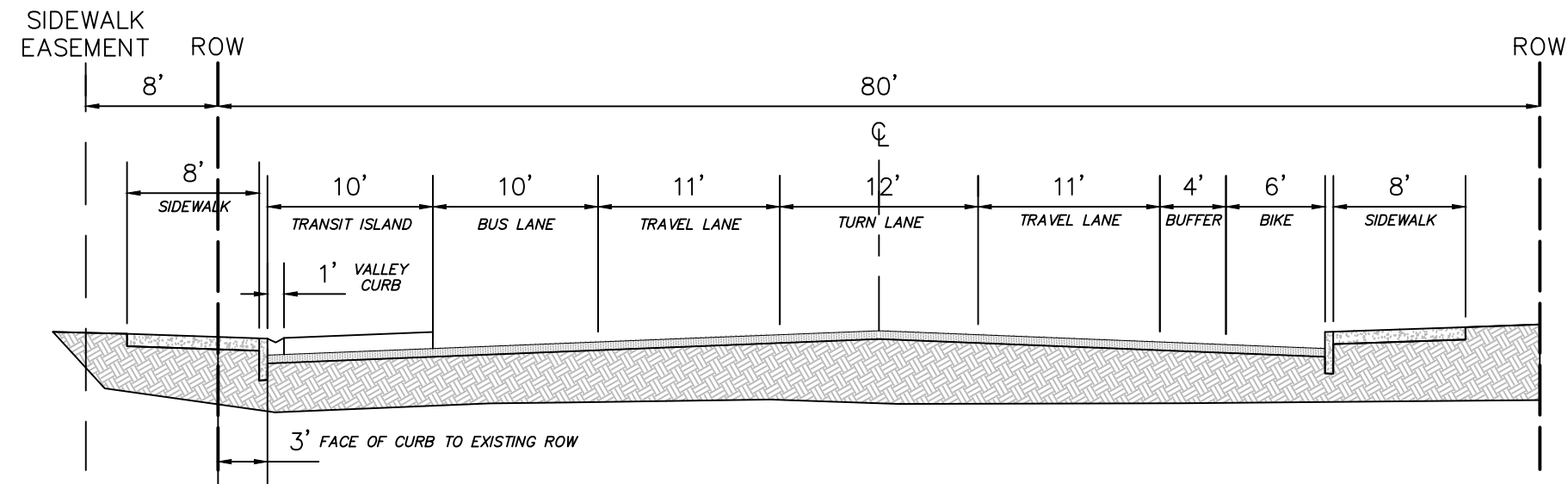
EXISTING - LINCOLN NORTH OF EAST MAPLE STA 13+00
NTS



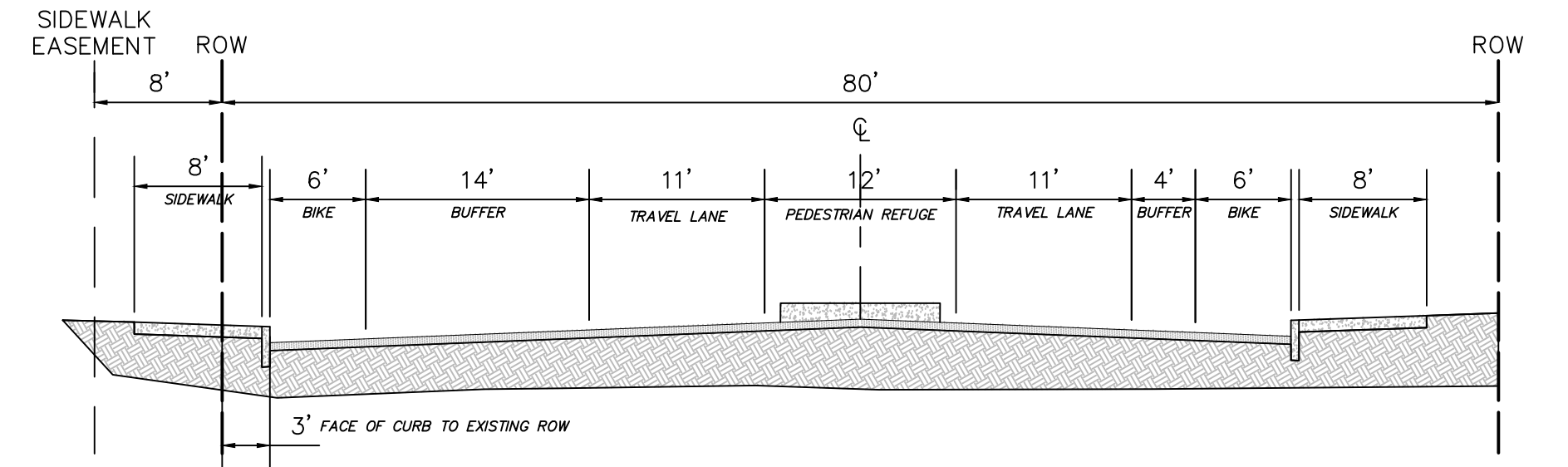
PROPOSED - LINCOLN NORTH OF EAST MAPLE STA 13+00
NTS



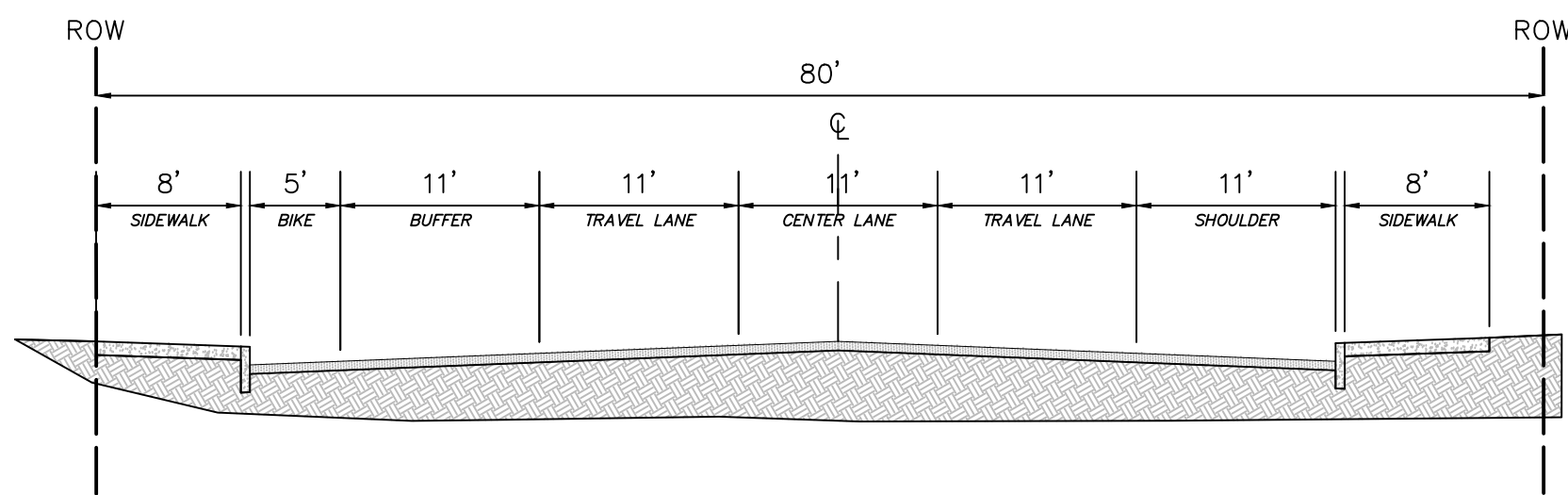
EXISTING - LINCOLN ST STA 22+75 - STA 24+75
NTS



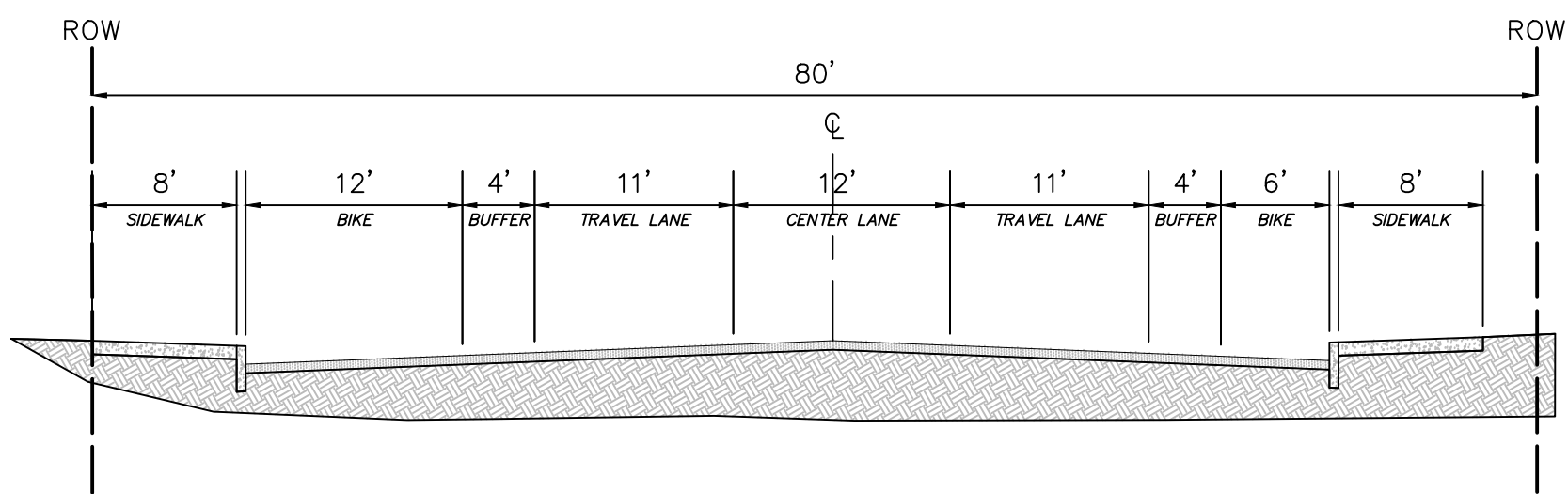
PROPOSED - SOUTH OF VIKING CIRCLE STA 23+75
NTS



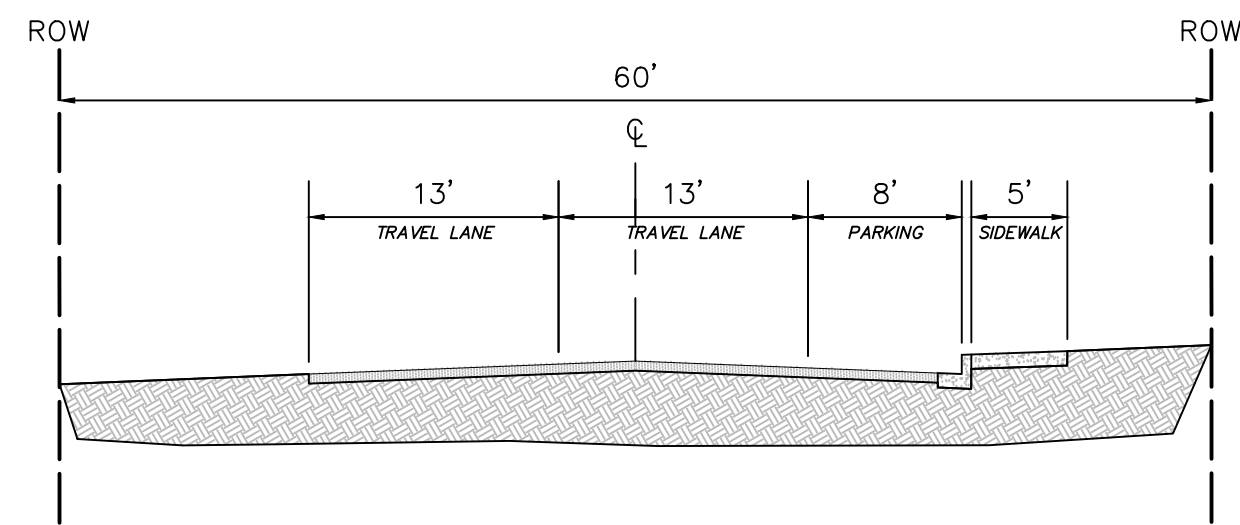
PROPOSED - NORTH OF VIKING CIRCLE STA 24+75
NTS



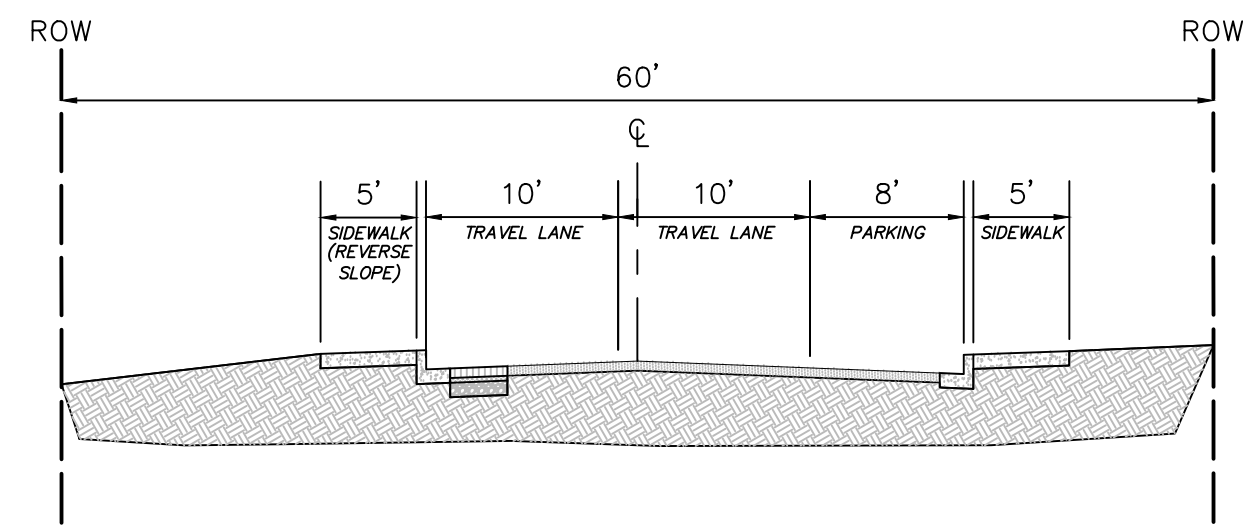
EXISTING - LINCOLN ST AT STA 30+25
NTS



PROPOSED - LINCOLN ST AT STA 23+75
NTS



EXISTING - E. MAPLE ST.
NTS



PROPOSED - E. MAPLE ST.
NTS

NOTE FOR 60% REVIEWERS:

- THE FOLLOWING WILL BE SHOWN ON THE 90% PLANS:
THERE WILL BE THREE SIDEWALK CONDITIONS ALONG THE E. MAPLE ST SECTION.
- CONDITION 1 (APPROX. STA 10+15 TO STA 11+50 & STA 13+00 TO STA 14+75):
5-FT SIDEWALK W/ REVERSE SLOPE
STANDARD CURB AND GUTTER
1.5-FT FILL SECTION AT SIDEWALK SLOPE
2:1 CATCH SLOPE FROM 1.5-FT WIDE SECTION TO EXISTING GRADE
- CONDITION 2 (APPROX. STA 11+50 TO STA 13+00):
5.5-FT SIDEWALK W/ REVERSE SLOPE
STANDARD CURB AND GUTTER
THICKENED EDGE AT BACK OF WALK
PEDESTRIAN HANDRAIL AT BACK OF WALK
- CONDITION 3 (APPROX. STA 14+75 TO LINCOLN INTERSECTION):
5-FT SIDEWALK W/ STANDARD SLOPE (SLOPE TOWARD ROADWAY)

PRELIMINARY

4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
DESIGNED/DRAWN JB/JAM
INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

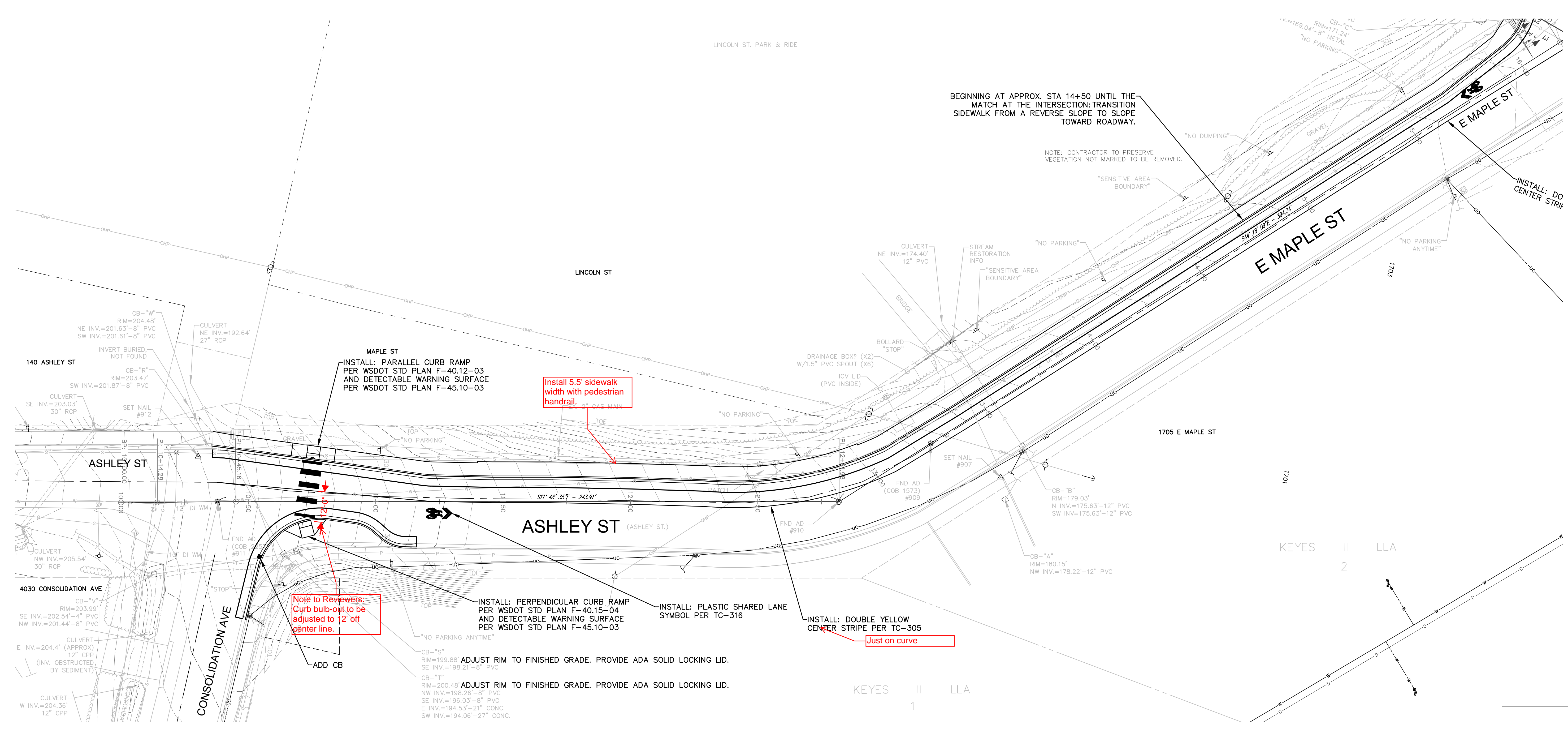
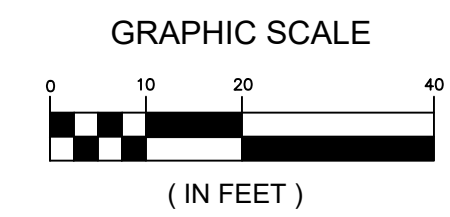
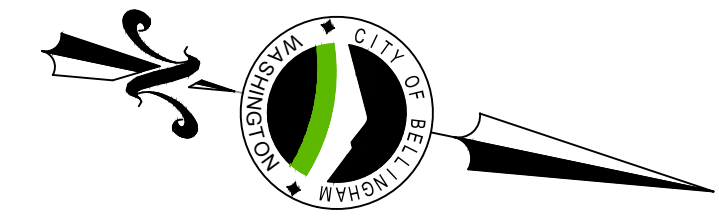
SCALE
Horiz. 1"=N/A
Vert. 1"=N/A

DATUM
NAD 83/98
NAVD 88

Job. No. ET034
Date xx
Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
TYPICAL ROAD SECTIONS

SHEET 8 OF 19



Note to Reviewers:
Curb bulb-out to be
adjusted to 12' off
center line.

Install 5.5' sidewalk
width with pedestrian
handrail.

Just on curve

PRELIMINARY

4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
DESIGNED/DRAWN JB/JAM
INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=20'
Vert. 1"=NA

DATUM
NAD 83/98
NAVD 88

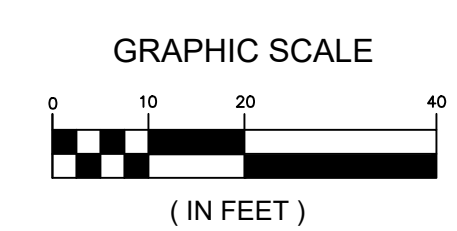
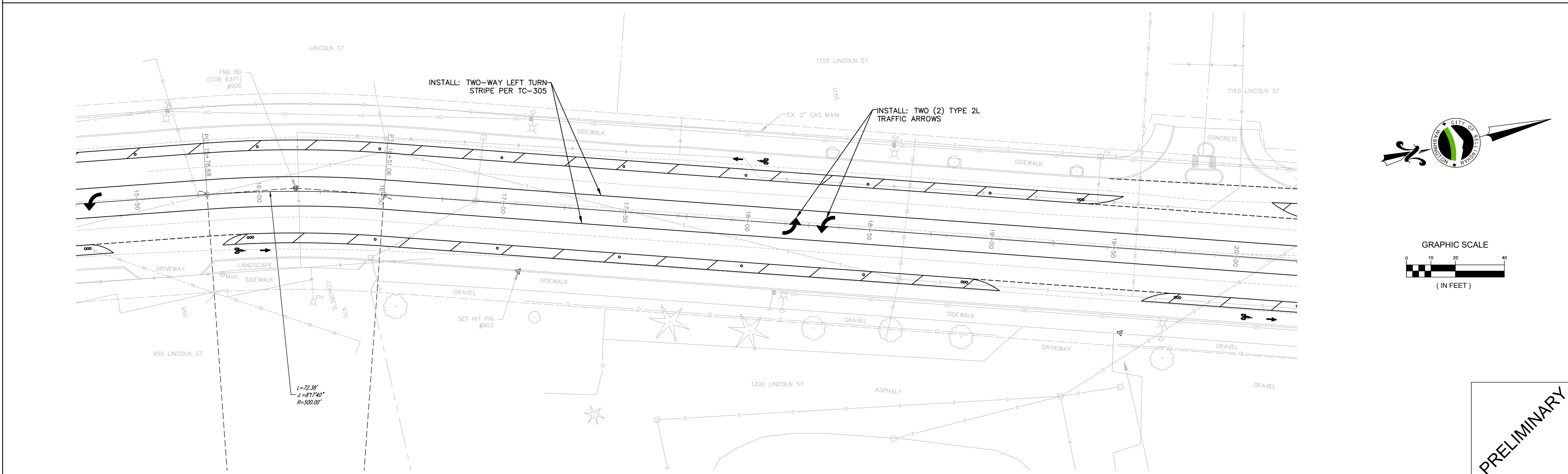
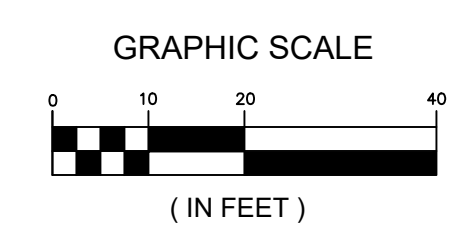
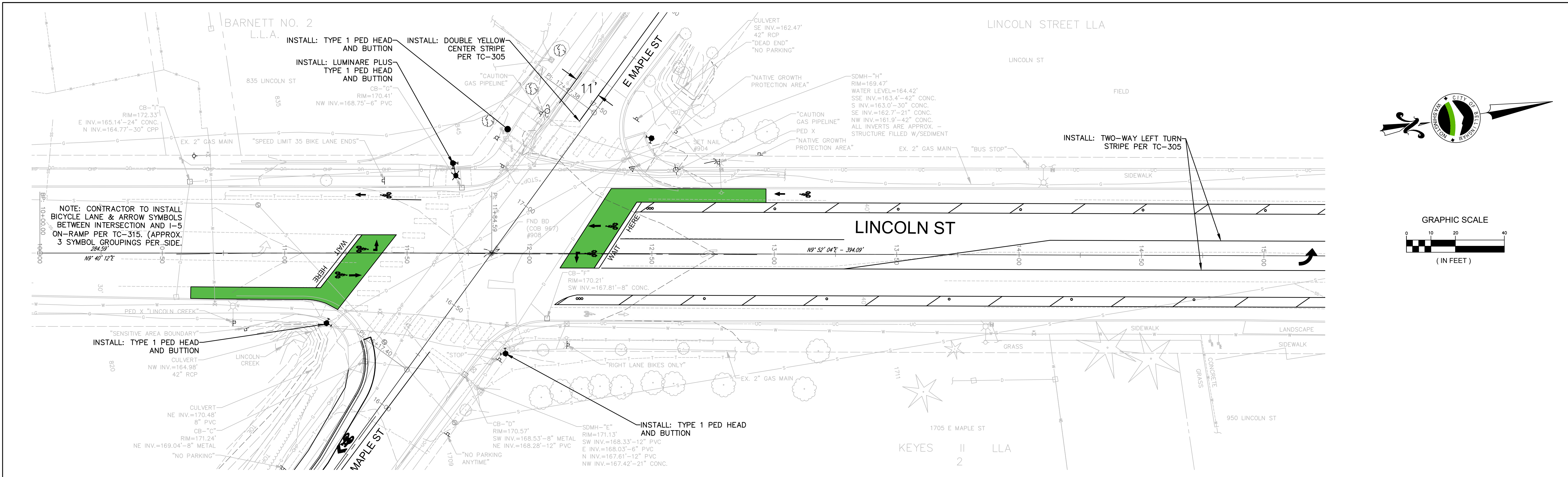
Job. No. ET034
Date xx
Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
E MAPLE ST - STA 10+00 TO STA 15+50

SHEET 9 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

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PRELIMINARY

4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
DESIGNED/DRAWN JB/JAM
INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=20'
Vert. 1"=NA

DATUM
NAD 83/98
NAVD 88

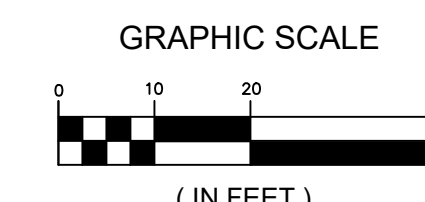
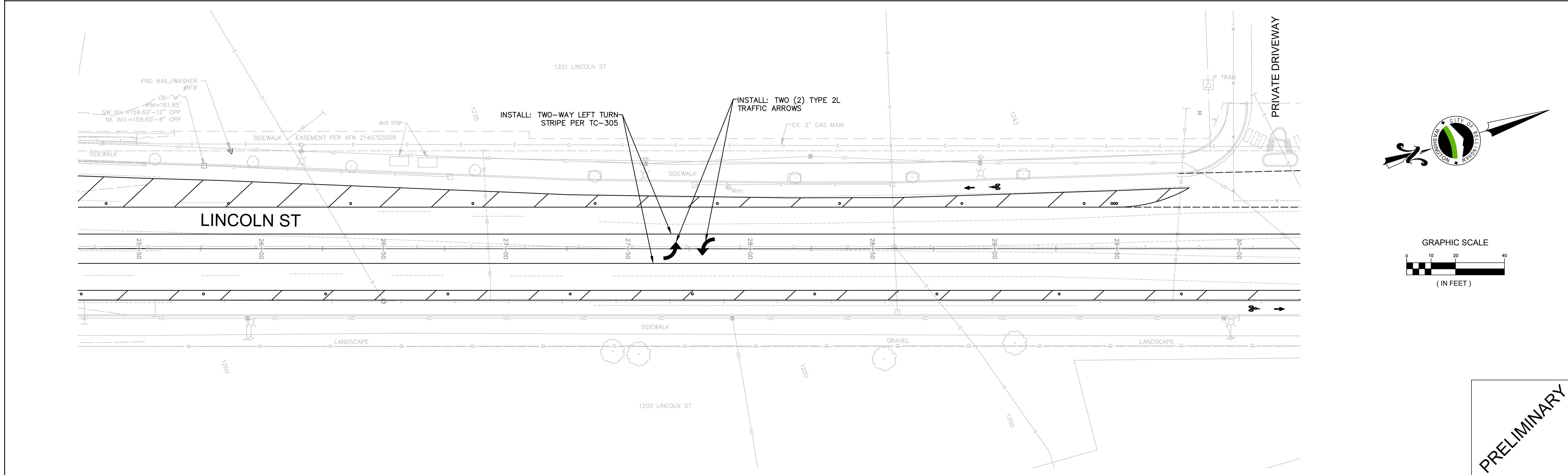
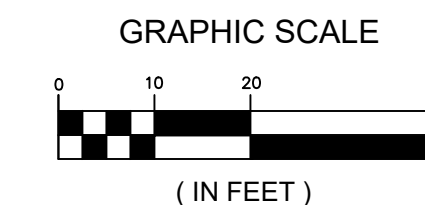
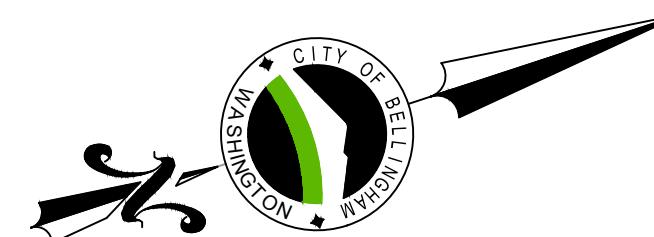
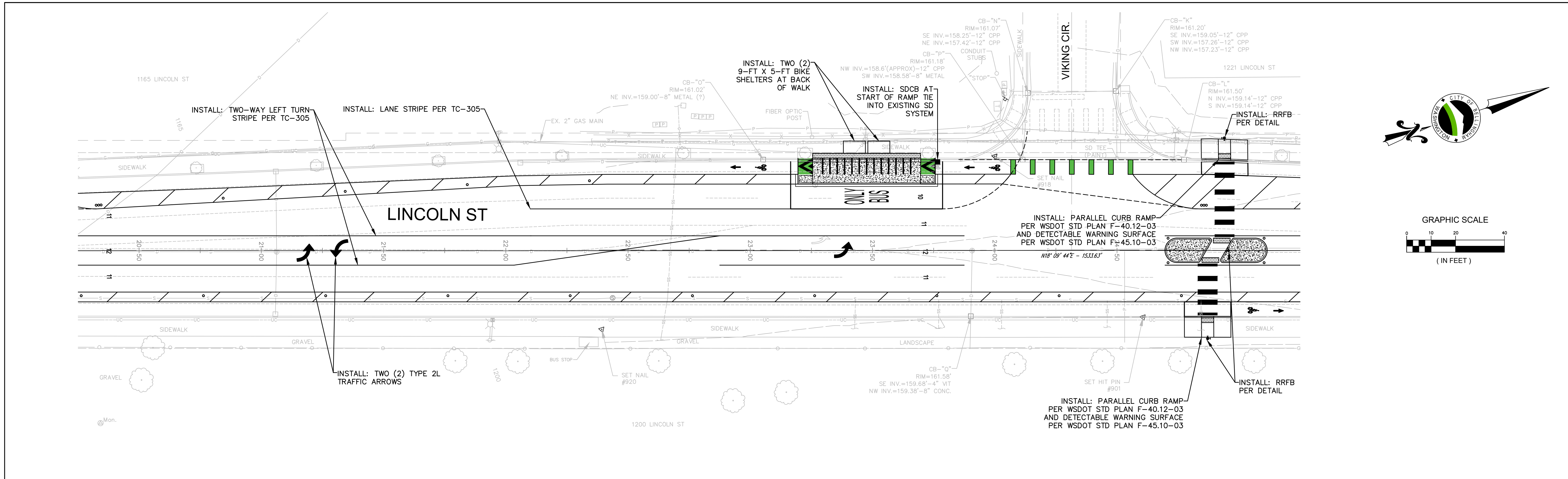
Job. No. ET034
Date xx
Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
LINCOLN ST - STA 10+00 TO STA 20+25

SHEET 10 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

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4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER TBD
 DESIGNED/DRAWN TB
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"=20'
 Vert. 1"=NA

DATUM
 NAD 83/98
 NAVD 88

Job No. ET034
 Date xx
 Field Bk. xx

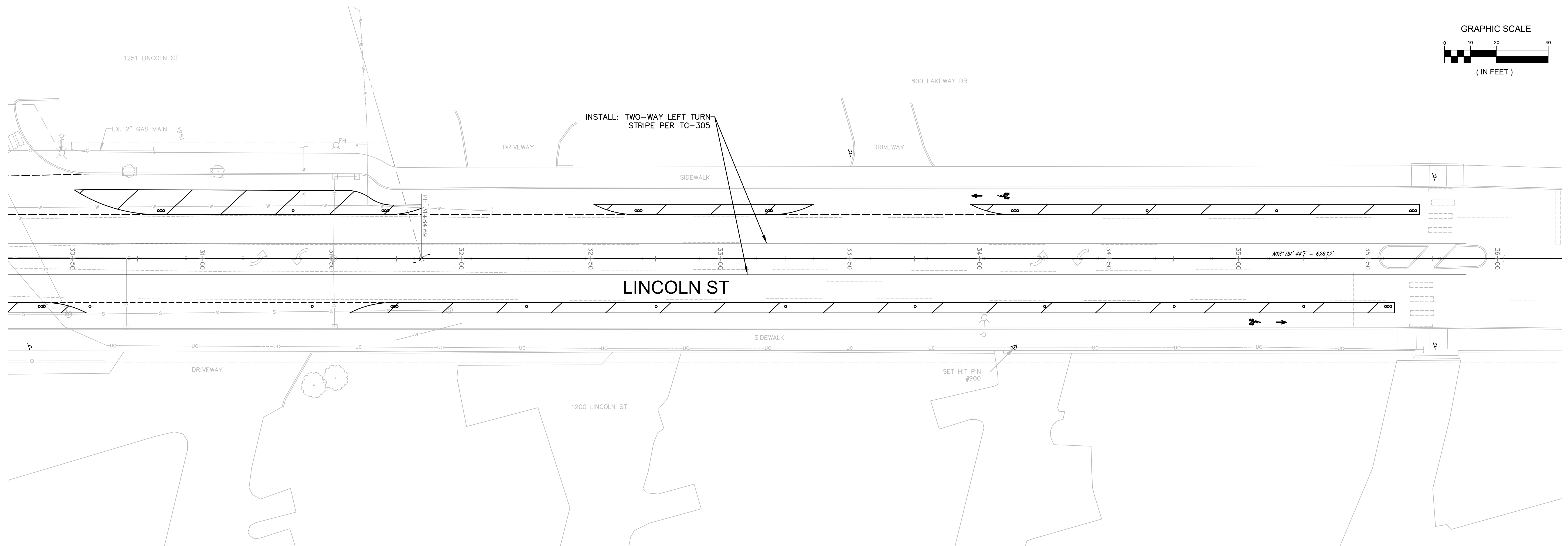
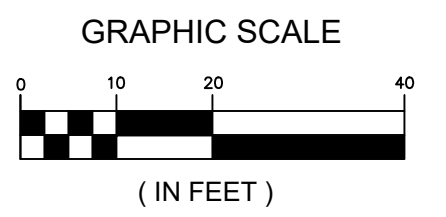
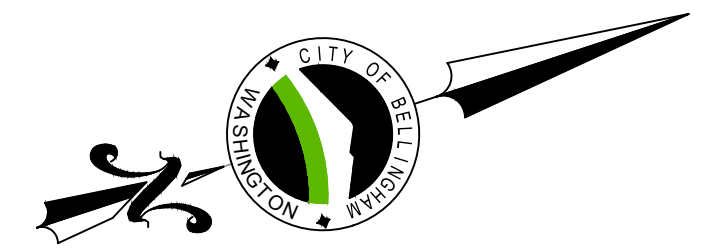
LINCOLN / E. MAPLE SIGNAL & N.M.I.
LINCOLN ST - STA 20+25 TO STA 30+25

SHEET 11 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

PRELIMINARY

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PRELIMINARY

Date	No	Revision	By
	4		
	3		
	2		
	1		

PROJECT ENGINEER JB
 DESIGNED/DRAWN JB/JAM
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SCALE
 Horiz. 1"=20'
 Vert. 1"=NA

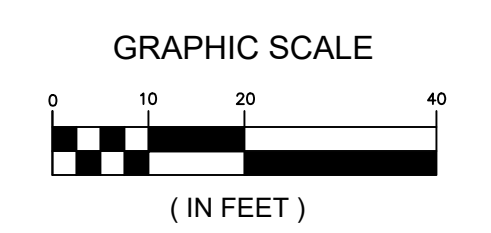
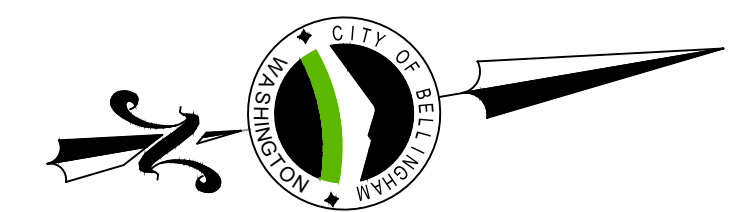
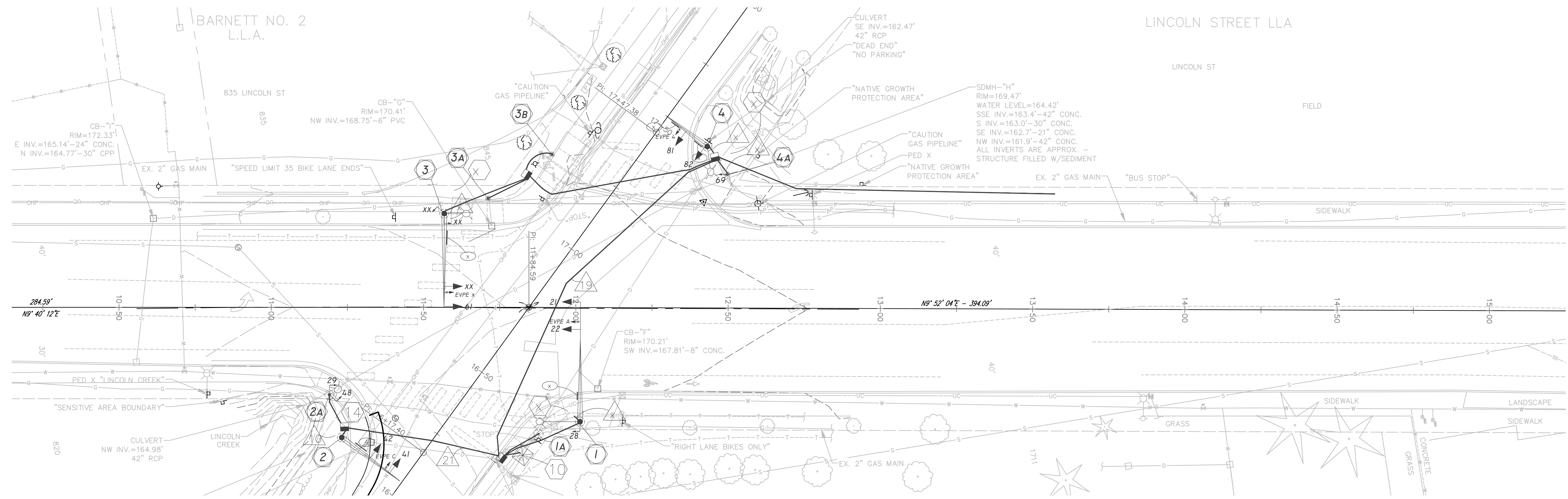
DATUM
 NAD 83/98
 NAVD 88

Job. No. ET034
 Date xx
 Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
 LINCOLN ST - STA 30+25 TO STA 36+25

SHEET 12 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900



SIGNAL CONSTRUCTION NOTES

- 1- CONSTRUCT 3' x 10' SIGNAL POLE FOUNDATION PER EL-432. INSTALL ONE TYPE III SIGNAL POLE WITH ONE 42' MAST ARM AND RECESSED TERMINAL COMPARTMENT PER EL-424. SUPPLY AND INSTALL NUMBERED TERMINAL STRIPS, THREE VEHICLE SIGNAL HEADS WITH TYPE "M" PLUMBIZERS, ONE MODEL 721 OPTICOM DETECTOR, TWO LED COUNTDOWN PEDESTRIAN SIGNAL HEADS WITH TYPE "E" CLAMSHELL MOUNTS, TWO PEDESTRIAN PUSHBUTTON ASSEMBLIES WITH SIGNS, ONE 250W HIGH PRESSURE SODIUM LUMINAIRE ON A 12' ARM AND TWO SIGNS.
- 2- CONSTRUCT 3' x 10' SIGNAL POLE FOUNDATION PER EL-432. INSTALL ONE TYPE III SIGNAL POLE WITH ONE 36' MAST ARM AND RECESSED TERMINAL COMPARTMENT PER EL-424. SUPPLY AND INSTALL NUMBERED TERMINAL STRIPS, TWO VEHICLE SIGNAL HEADS WITH TYPE "M" PLUMBIZERS, ONE MODEL 721 OPTICOM DETECTOR, TWO LED COUNTDOWN PEDESTRIAN SIGNAL HEADS WITH TYPE "E" CLAMSHHELL MOUNTS, TWO PEDESTRIAN PUSHBUTTON ASSEMBLIES WITH SIGNS, ONE 250W HIGH PRESSURE SODIUM LUMINAIRE ON A 6' ARM AND ONE SIGN.
- 3- CONSTRUCT 3' x 9' SIGNAL POLE FOUNDATION PER EL-432. INSTALL ONE TYPE II SIGNAL POLE WITH ONE 34' MAST ARM AND RECESSED TERMINAL COMPARTMENT PER EL-424. SUPPLY AND INSTALL NUMBERED TERMINAL STRIPS, THREE VEHICLE SIGNAL HEADS WITH TYPE "M" PLUMBIZERS, ONE MODEL 721 OPTICOM DETECTOR, ONE LED COUNTDOWN PEDESTRIAN SIGNAL HEADS WITH TYPE "E" CLAMSHHELL MOUNT, AND TWO SIGNS
- 3A- CONSTRUCT 3' x 9' SIGNAL POLE FOUNDATION PER EL-432. INSTALL ONE TYPE III SIGNAL POLE WITH ONE 32' MAST ARM AND RECESSED TERMINAL COMPARTMENT PER EL-424. SUPPLY AND INSTALL NUMBERED TERMINAL STRIPS, TWO VEHICLE SIGNAL HEADS WITH TYPE "M" PLUMBIZERS, ONE LED COUNTDOWN PEDESTRIAN SIGNAL HEAD WITH TYPE "E" CLAMSHHELL MOUNT, ONE 250W HPS LUMINAIRE ON A 12' ARM AND ONE SIGN
- 3B- CONSTRUCT PPB FOUNDATION PER WSDOT STD J-20.10-00. INSTALL PPB PER SAME.
- 4- CONSTRUCT 3' x 4.5' SIGNAL POLE FOUNDATION PER EL-432. INSTALL ONE LUMINAIRE POLE PER STD EL-404, SUPPLY AND INSTALL TWO LED COUNTDOWN PEDESTRIAN SIGNAL HEADS WITH TYPE "E" CLAMSHHELL MOUNTS, TWO PEDESTRIAN PUSHBUTTON ASSEMBLIES WITH SIGNS, ONE 250W HIGH PRESSURE SODIUM LUMINAIRE ON A 12' ARM

- 5- INSTALL TYPE I J-BOX PER WSDOT STD PLAN J-11a
- 6- INSTALL TYPE II J-BOX PER WSDOT STD PLAN J-11a
- 7- INSTALL TYPE 8 J-BOX PER WSDOT STD PLAN J-40.30-00, STAMPED WITH "TS".
- 8- INSTALL TYPE II INDUCTION LOOP PER BELLINGHAM STD PLAN EL-462
- 9- INSTALL TYPE I INDUCTION LOOP PER BELLINGHAM STD PLAN EL-460
- 10- CONSTRUCT FOUNDATION PER CITY STANDARD EL-436, INSTALL CITY SUPPLIED CABINET AND SEAL WITH SILICONE
- 11- INSTALL SERVICE CABINET PER CITY STD EL-444.
- 12- PROVIDE 20' PVC PIPE, STAND-OFFS AND STRAPS FOR PSE USE
- 13- REPLACE EXISTING JUNCTION BOX WITH A TYPE II JUNCTION BOX, RE-USE EXISTING 20C AND 3C CABLE IF DESIRED
- 14- COORDINATE WITH CITY TO REPLACE EXISTING CABINET WITH NEW CITY SUPPLIED CABINET. CITY FORCES WILL WIRE.

WIRE NOTES

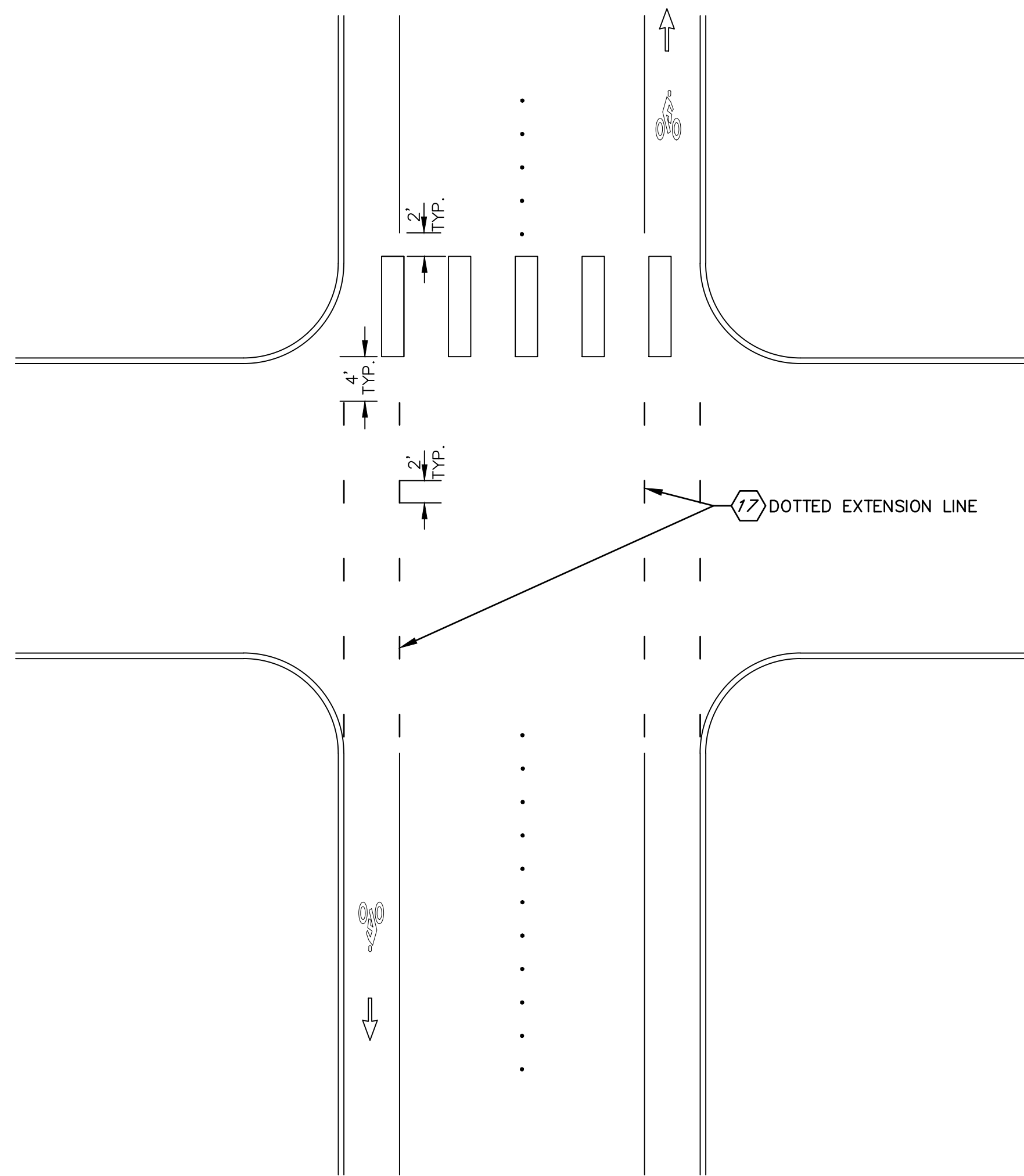
RUN NO.	CONDUCTORS						CONDUIT SIZE	COMMENTS
	1	2	3	4	5	6		
1							1.5	
2							1.5	
3							2	
4							2	
5							1.5	
6							2	
7							2	
8							2	
9							2	SIGNAL CABINET SERVICE
10	1	1					3	
11	2	2					4	
12	1	1					2	
13	1	1					4	
14							2	SERVICE
15							2	EMPTY (FOR FIBER)
16							4	
17	1	1					3	
18							1	
19	2	2					4	
20							2	
21	2	2					4	

PRELIMINARY

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4																																	
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Date	No	Revision	By																														

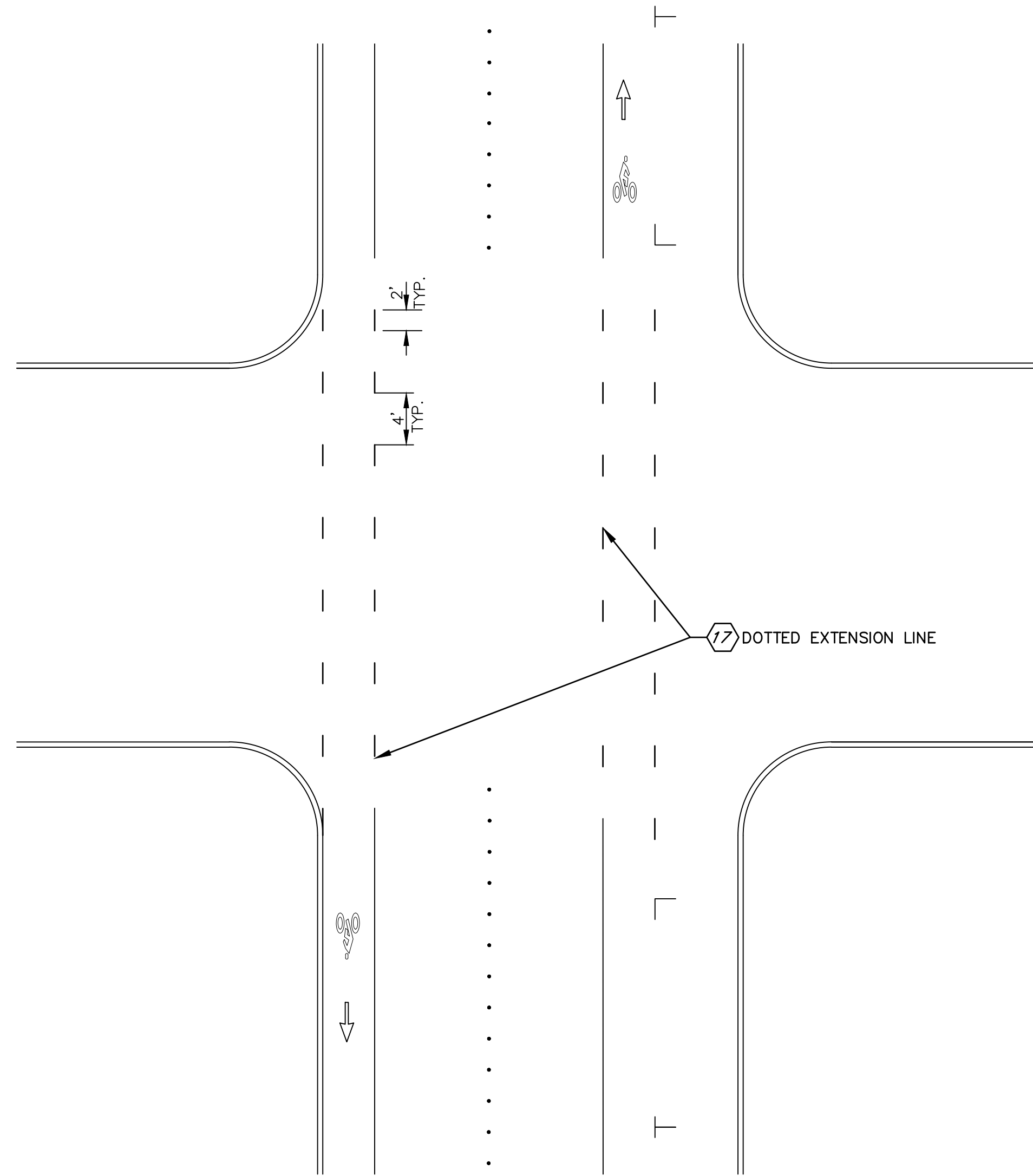
CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

M:\PW\Bellingham\Engineering\Section\Apps\Basis\Civil\3D\2023\Projects\ET034-Lincoln-Maple-Signal\Signal_ET034.dwg, 13 LINCOLN ST - E MAPLE SIGNAL, 4/28/2023 4:01:04 PM



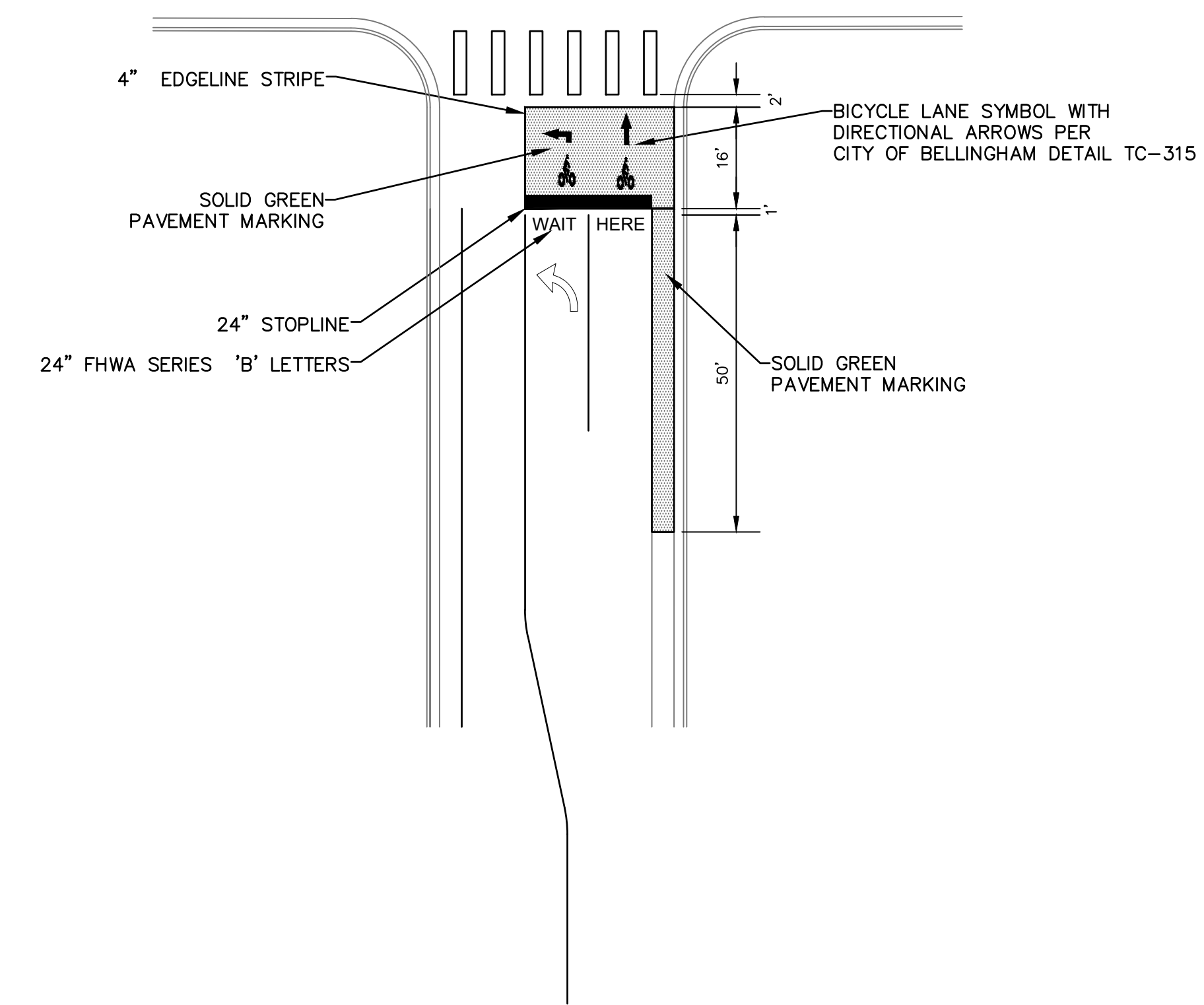
TYPICAL BIKE LANE EXTENSIONS DETAIL - AT CROSSWALK

NTS



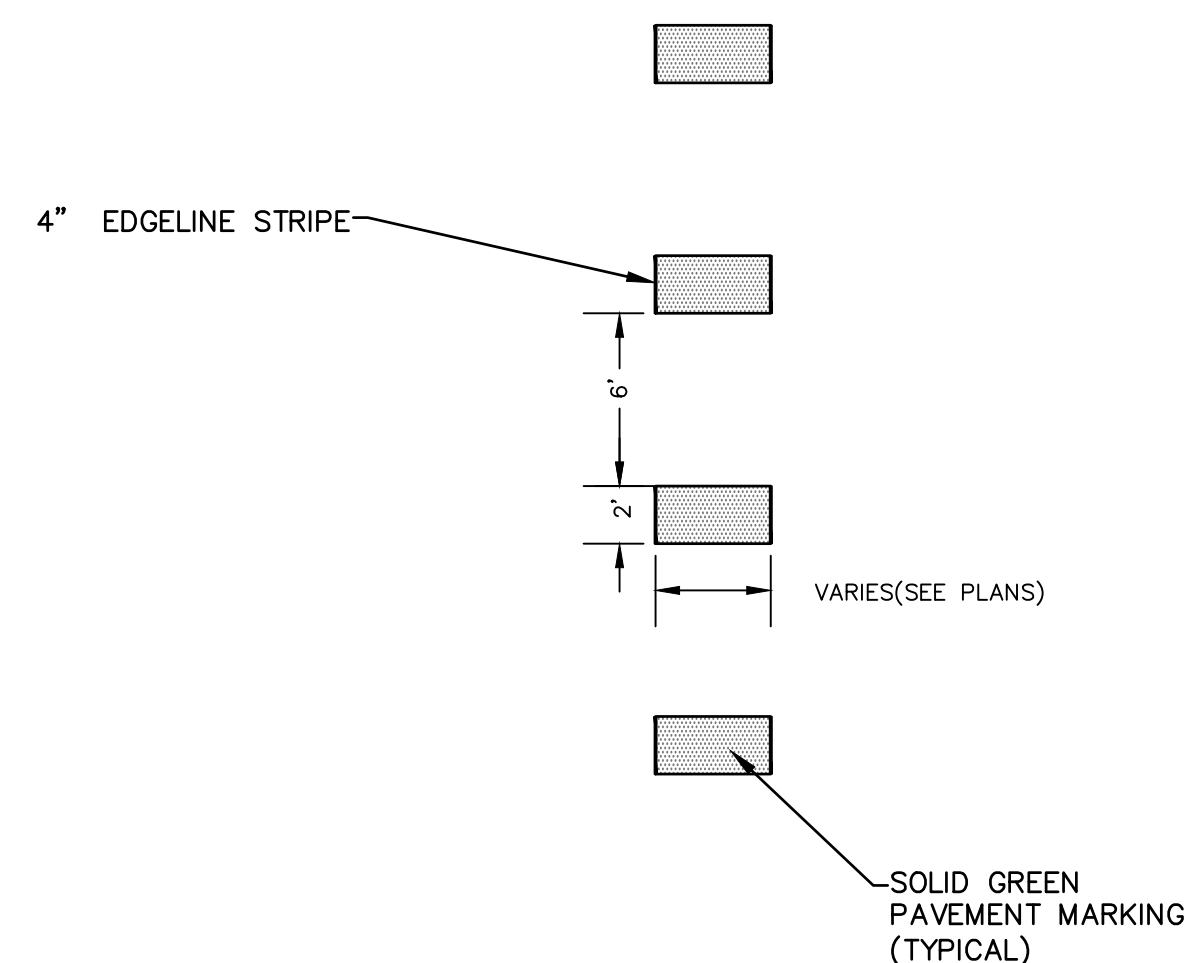
TYPICAL BIKE LANE EXTENSIONS DETAIL

NTS



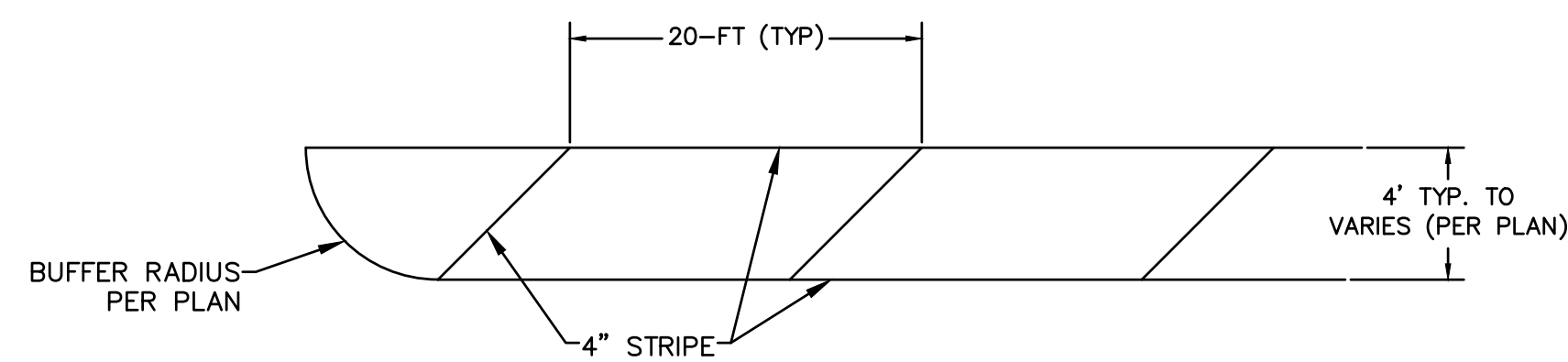
TYPICAL BIKE BOX DETAIL

NTS



PAVEMENT MARKING ACROSS DRIVEWAY

NTS



BUFFER STRIPE DETAIL

NTS

BIKE DELINEATOR DETAIL (PLACEHOLDER)

NTS

PRELIMINARY

4			
3			
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1			
Date	No	Revision	By

PROJECT ENGINEER JB
 DESIGNED/DRAWN JB/JAM
 INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
 CITY ENGINEER C.M.A.S.
 ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

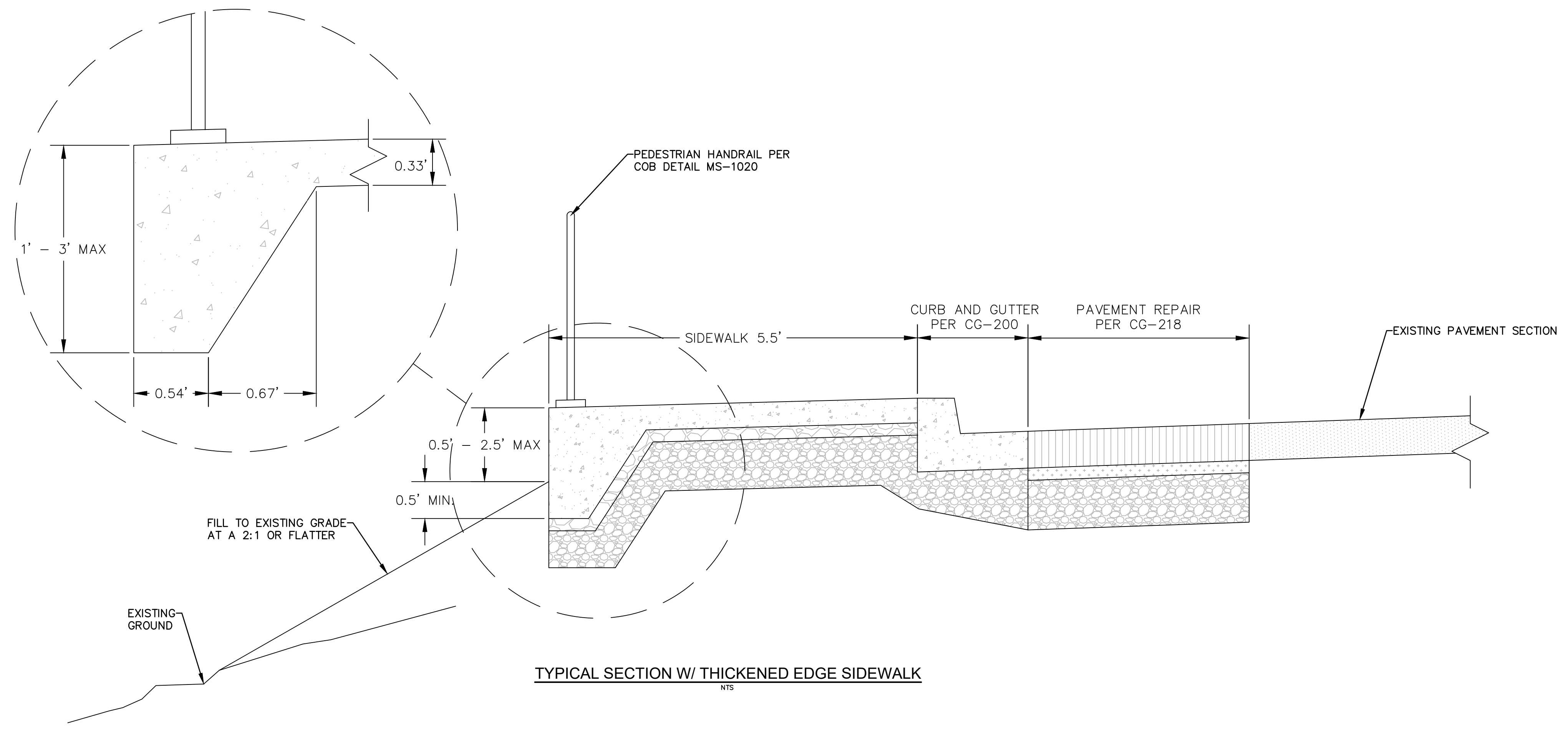
SCALE
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 Vert. 1"= N/A

DATUM
 NAD 83/98
 NAVD 88

Job. No. ET034
 Date xx
 Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
 CHANNELIZATION DETAILS

SHEET 14 OF 19



TYPICAL SECTION W/ THICKENED EDGE SIDEWALK
NTS

VALLEY GUTTER AT BUS STOP (PLACEHOLDER)
NTS

PRELIMINARY

	4		
	3		
	2		
	1		
Date	No	Revision	By

PROJECT ENGINEER JB
DESIGNED/DRAWN JB/JAM
INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"= N/A
Vert. 1"= N/A

DATUM
NAD 83/98
NAVD 88

Job. No. ET034
Date xx
Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
MISCELLANEOUS DETAILS

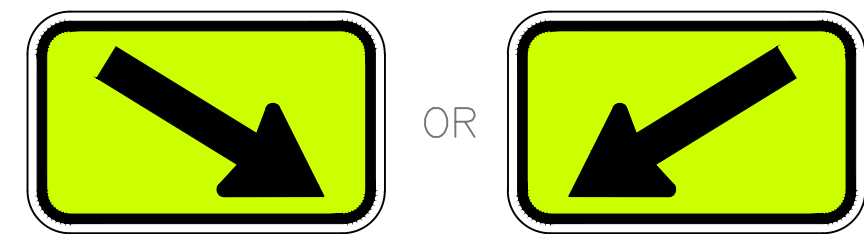
SHEET 15 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

M:\PW\Draws\Engineering_Section\Apps\Draw\Civil 3D 2023\Projects\ET034-Lincoln-Maple-Signal\ET034_COVER-DETAILS.dwg 15 MISC DETAILS 4/28/2023 4:01:09 PM



W11-2
30"x30"
FLUORESCENT
YELLOW-GREEN



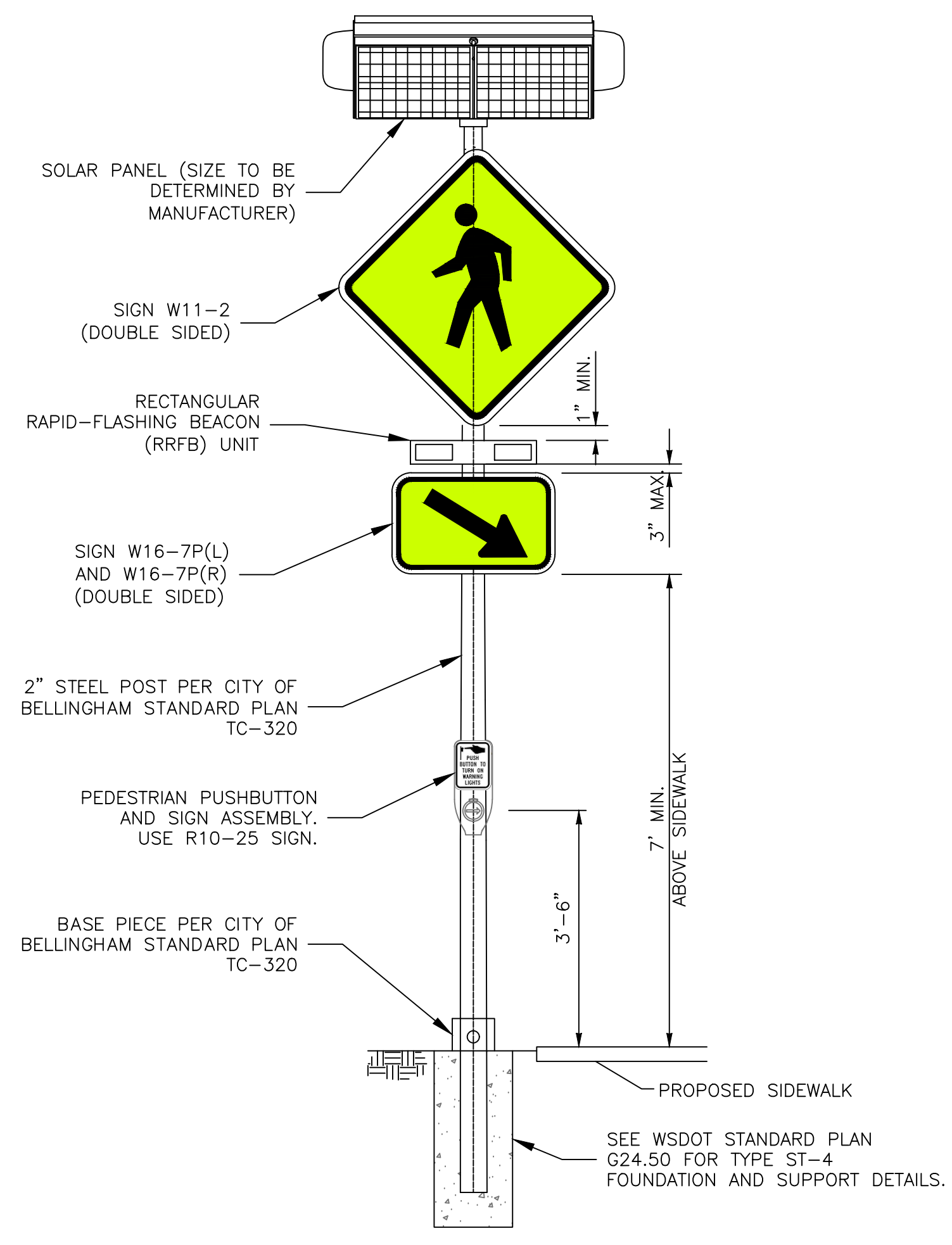
W16-7P(L OR R)
24"x12"
FLUORESCENT
YELLOW-GREEN



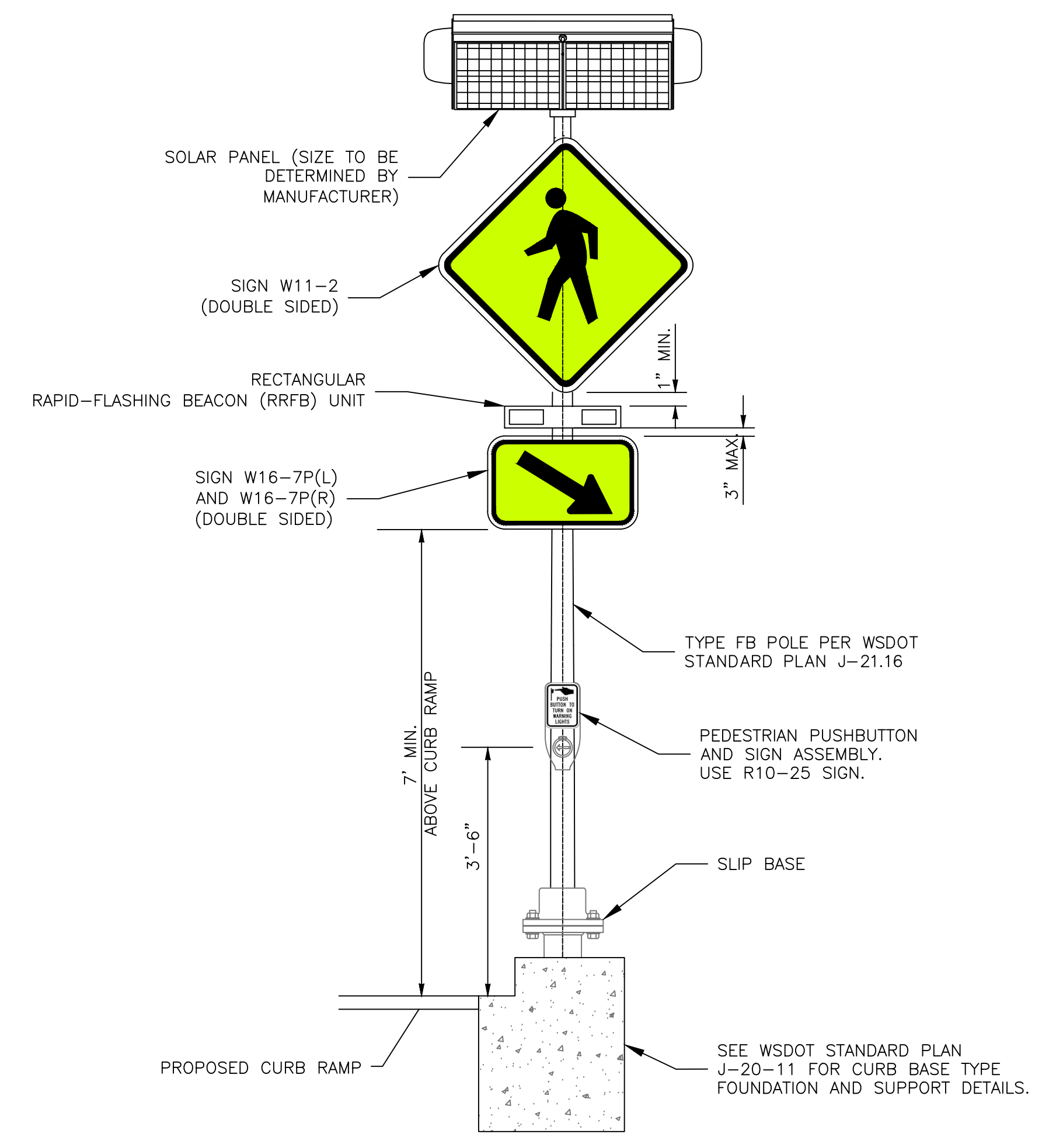
R10-25
(9"x12")
LEGEND - BLACK
BACKGROUND - WHITE

SIGN DETAIL NOTES:

- RRFB SIGNS, AS SHOWN ON THIS DETAIL AND THE PLANS, SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL OTHER GROUND-MOUNTED SMALL SIGNS SHALL BE PROVIDED BY THE CITY OF BELLINGHAM.
- ORIENT SOLAR PANEL PER MANUFACTURER'S RECOMMENDATION.



TYPICAL INSTALLATION



CURB BASE TYPE INSTALLATION

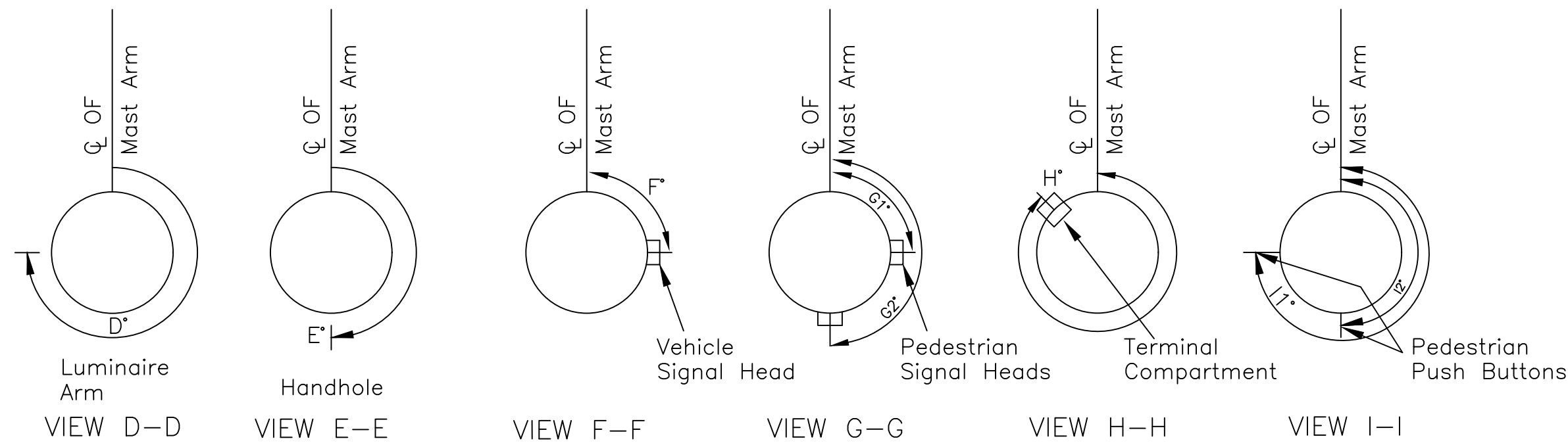
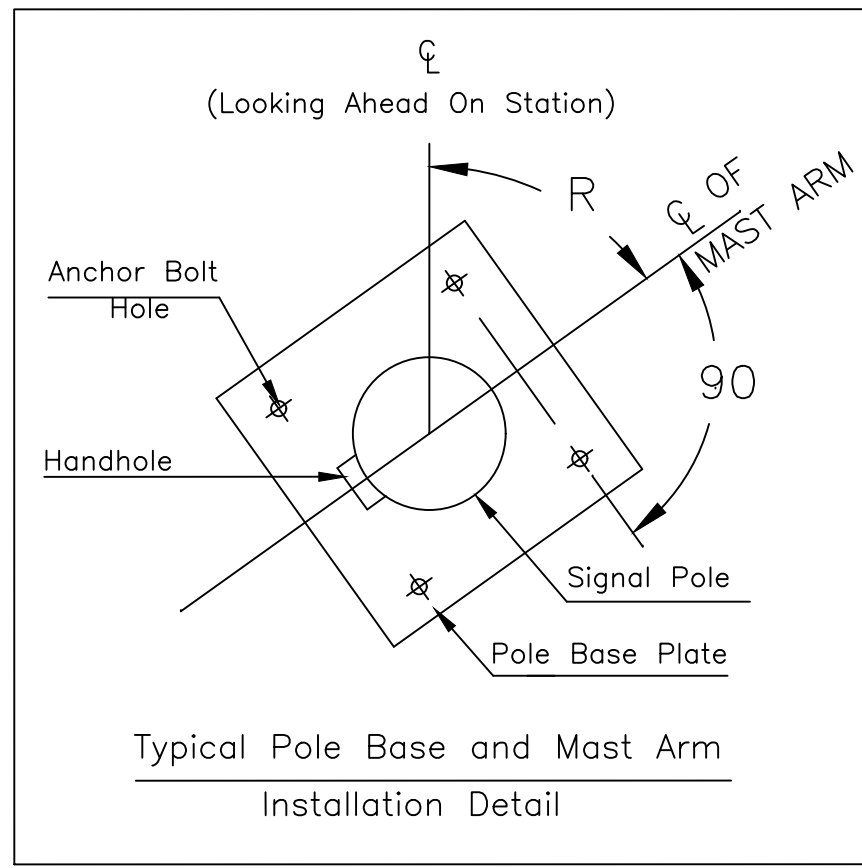
RECTANGULAR RAPID FLASHING BEACON (RRFB) AND SIGN DETAIL

N.T.S.

PRELIMINARY

4				PROJECT ENGINEER	JB	DIRECTOR PUBLIC WORKS	E.C.J.	CITY OF BELLINGHAM, WASHINGTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	SCALE Horiz. 1"=N/A Vert. 1"=N/A	DATUM NAD 83/98 NAVD 88	Job. No. ET034 Date xx Field Bk. xx	LINCOLN / E. MAPLE SIGNAL & N.M.I. RRFB DETAILS	SHEET 16 OF 19
3			DESIGNED/DRAWN	JAM	CITY ENGINEER	C.M.A.S.							
2			INSPECTOR	TBD	ASSISTANT DIRECTOR	M.A.O.							
1													
Date	No	Revision	By	CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900									

M:\PW\Draws\Engineering_Section\Apps\Draw\Civil\3D\2023\Projects\ET034-Lincoln-Maple_Signals\ET034_COVER_DETAILS.dwg 16 RRFB DETAILS 4/28/2023 4:01:10 PM

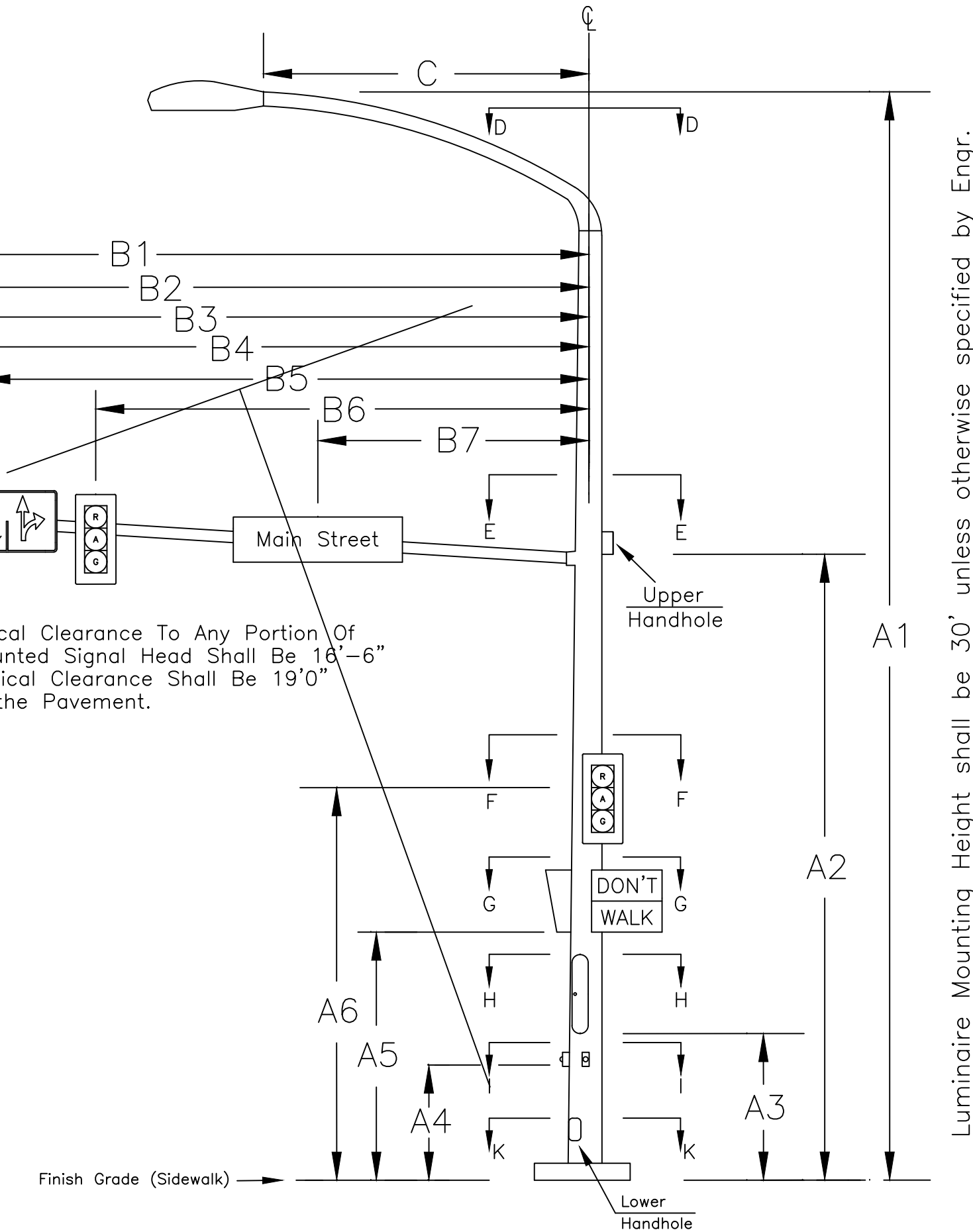


POLE NO.	STATION	OFFSET	ARM ROTATION	POLE ATTACHMENT HEIGHT						MAST ARM ATTACHMENT OFFSET												LUMINAIRE ARM (FT.)	ATTACHMENT ANGLE CLOCKWISE FROM MAST ARM C										
				A1	A2	A3	A4	A5	A6	B1	Area S.F.	B2	Area S.F.	B3	Area S.F.	B4	Area S.F.	B5	Area S.F.	B6	Area S.F.		B7	Area S.F.	C	D	E	F	G1	G2	H	I1	I2
#1	20+41.18	29.99R	270	30	18	*4	3	*8		30	11	27	5.0	21		18	9.2				8	12	12	0	180	0	90	315	0	270	315		
#2	19+73.03	54.01R	0		18	*4				23	9.2	20	6.0	17		15	9.2				8	12	12	0	180			315			315		
#2A	19+60.10	27.58R		30			3	*8															12	0		270		0		180			
#3	19+67.85	29.37L	90	30	18	*4	3	*8		30	11	27	5.0	20		18	9.2				8	12	12	0	180	0		315	270	315			
#4	20+22.26	72.90L	180		18	*4				23	9.2	19	6.0	21		12	9.2						12	0	180			315		315			
#4A	20+41.03	23.95L		30			3	*8													0	12	12	**158		**0	**270	**90	**180	**158			

* MEASURED TO THE BOTTOM

** MEASURED CLOCKWISE FROM STATIONING

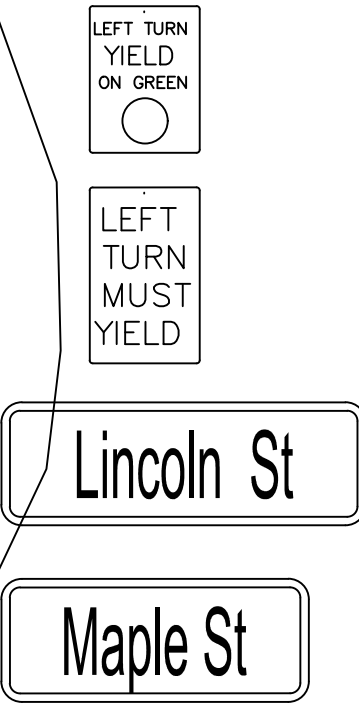
Note: The Minimum Vertical Clearance To Any Portion Of Any Mast Arm Mounted Signal Head Shall Be 16'-6" And Maximum Vertical Clearance Shall Be 19'0" From the Top of the Pavement.



Luminaire Mounting Height shall be 30' unless otherwise specified by Engr.

SIGN NOTES
 ALL SIGNS SHALL CONFORM TO WSDOT SIGN FABRICATION MANUAL
 ALL SIGNS SHALL HAVE 3M VIP REFLECTIVE GRADE SHEETING

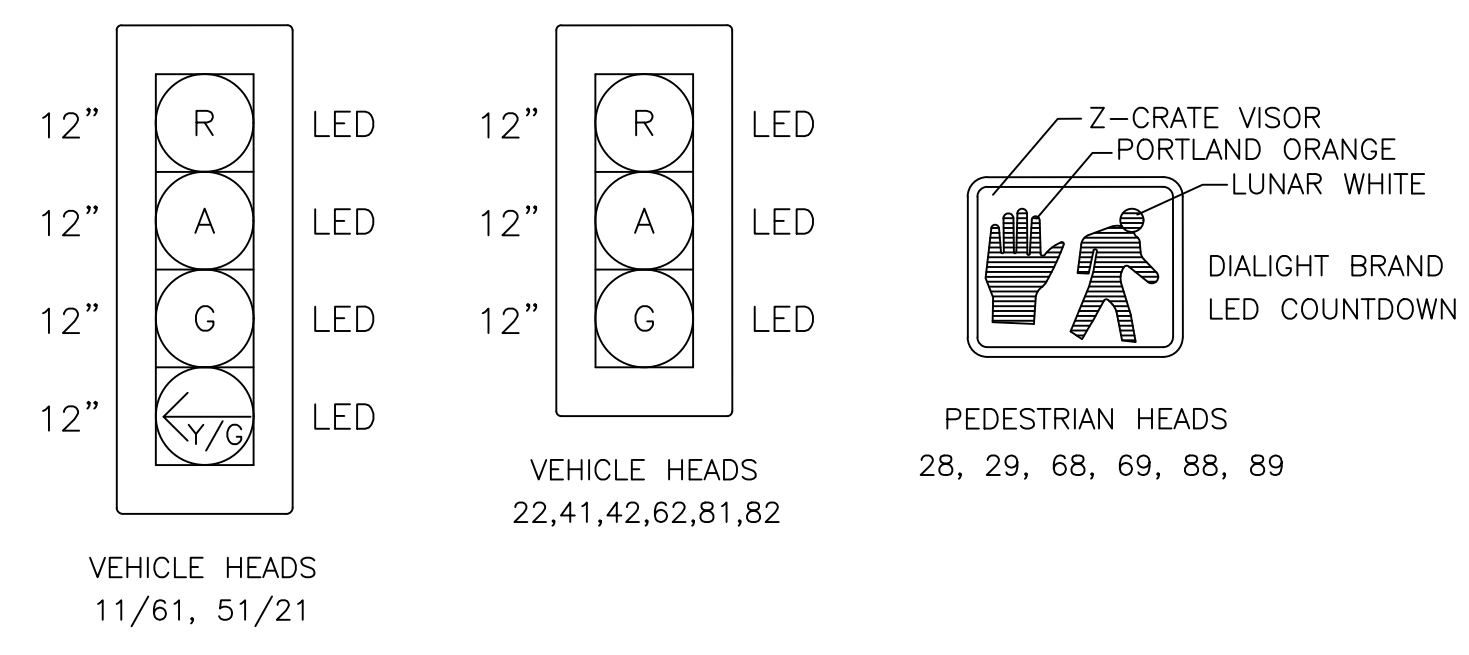
- ① R10-12 24" X 30" LEFT TURN YIELD ON GREEN BALL SIGN
- ② R10-1201 24" X 36" LEFT TURN MUST YIELD SIGN
- ③ D3-101 18" X VARIES LINCOLN ST STREET NAME SIGN (USE 8" UPPER CASE/ 6" LOWER CASE LETTERING)
- ④ D3-101 18" X VARIES MAPLE ST STREET NAME SIGN (USE 8" UPPER CASE/ 6" LOWER CASE LETTERING)



SIGNAL DISPLAY NOTES

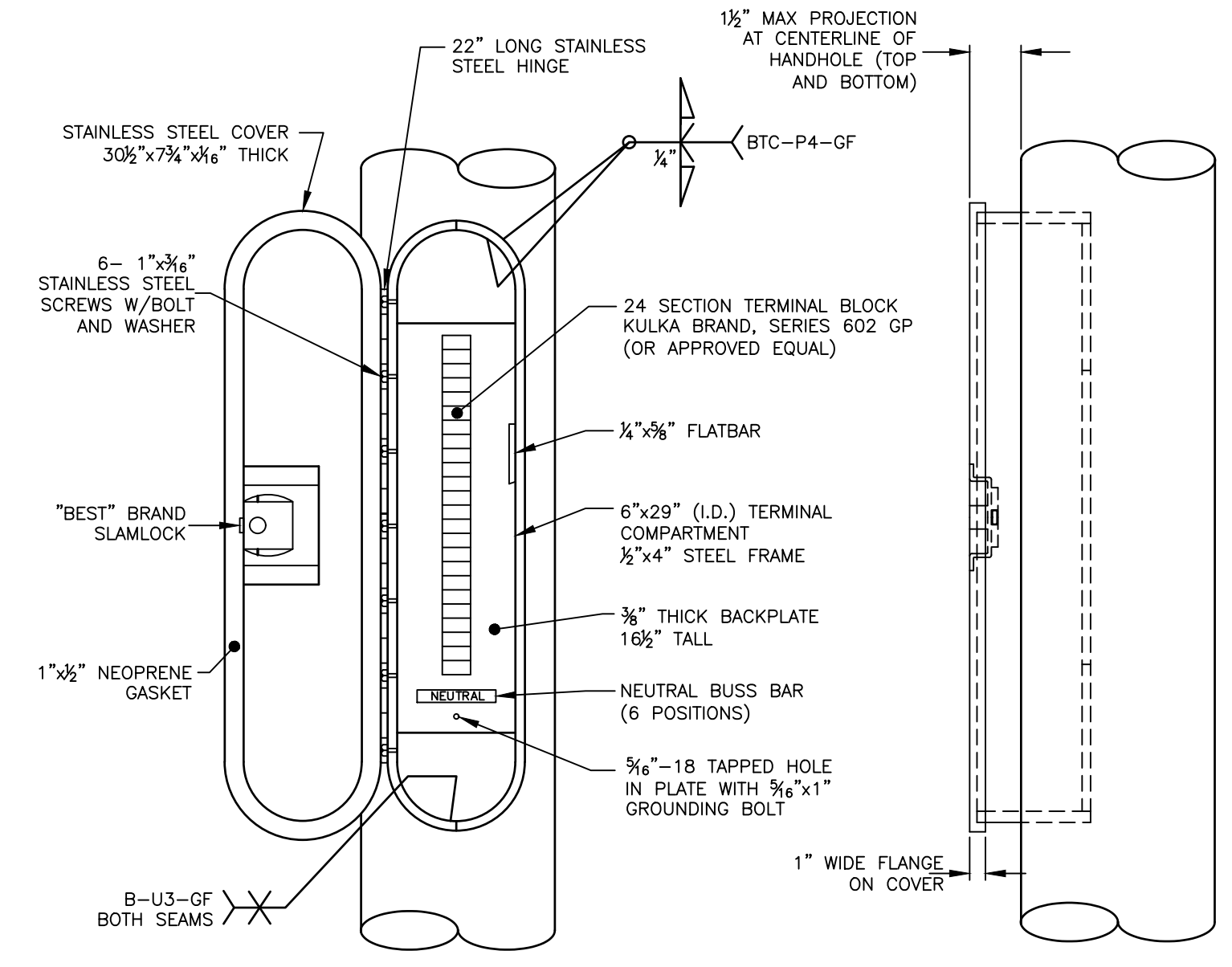
- VEHICLE HEADS SHALL BE CONVENTIONAL TYPE, POWDER COATED DARK OLIVE GREEN, 5" BACKPLATES, TUNNEL VISORS, AND SQUARE DOORS. ALL SECTIONS SHALL UTILIZE DIALIGHT BRAND 433 SERIES LED DISPLAYS
- MAST ARM VEHICLE HEADS SHALL HAVE TYPE "M" PLUMBIZERS LOCATED BETWEEN THE RED AND AMBER SECTIONS, AND UTILIZE STAINLESS STEEL MOUNTING HARDWARE PER CITY STANDARD EL-420.
- ALL PEDESTRIAN HEADS SHALL BE DIALIGHT BRAND COUNTDOWN LED AND HAVE TYPE "E" CLAMSHELL MOUNTS
- PEDESTRIAN PUSHBUTTON ASSEMBLIES SHALL BE PER WSDOT STD PLAN J-5 PPB-M EXCEPT THEY SHALL UTILIZE A POLARA BRAND "BULLDOG" PLUNGER AND INCLUDE R10-4000 SERIES SIGNS

SIGNAL DISPLAY

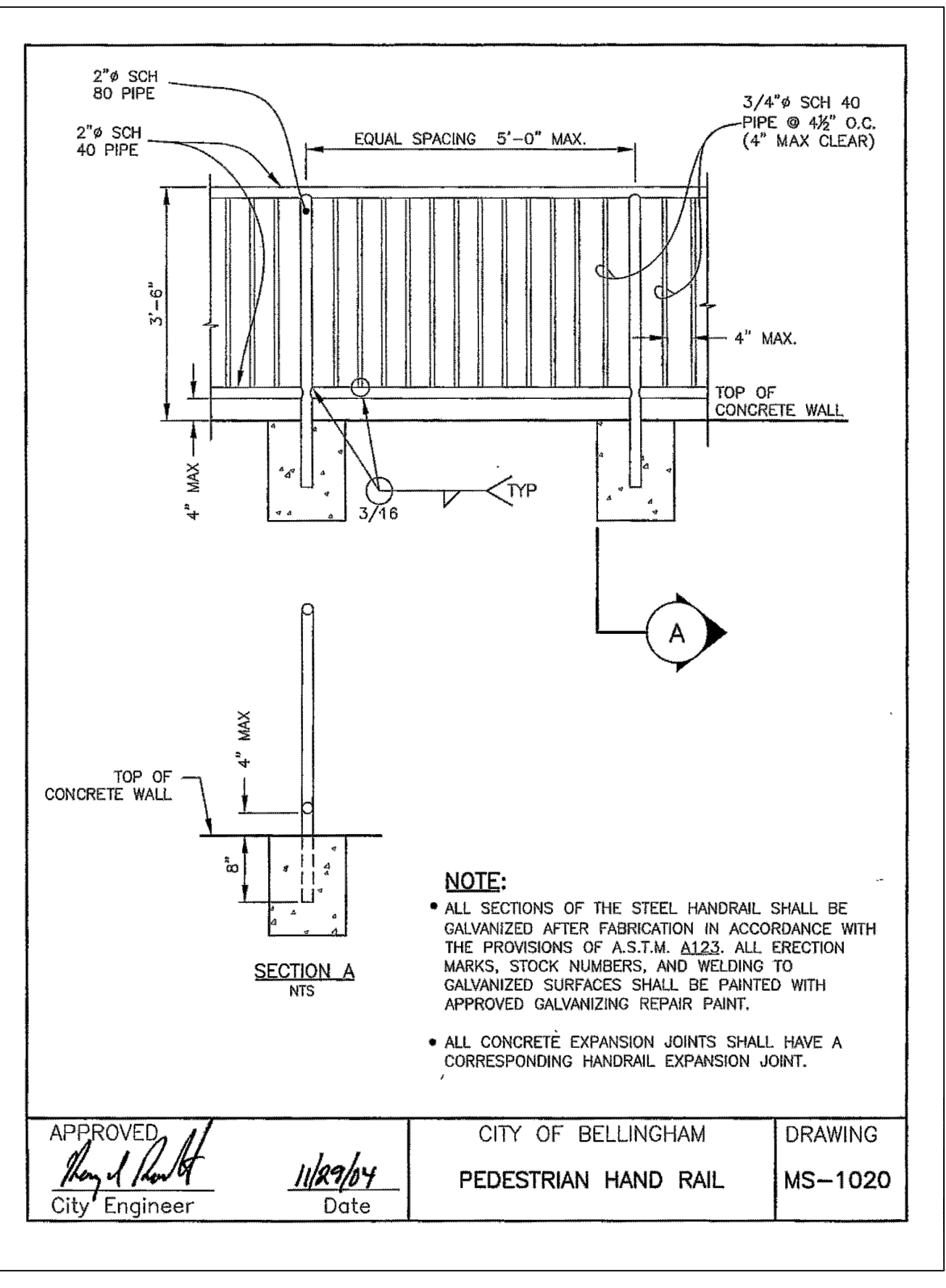
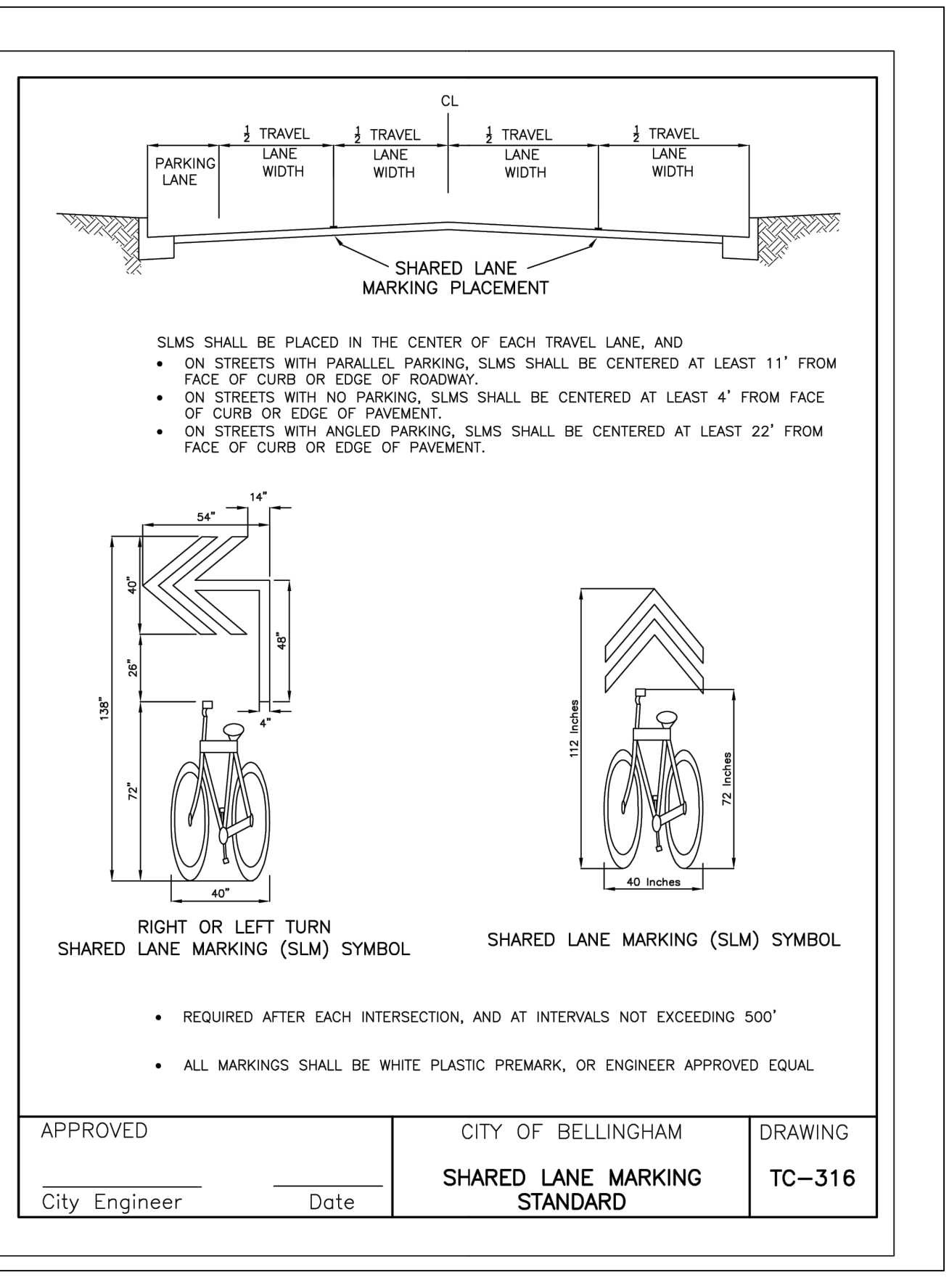
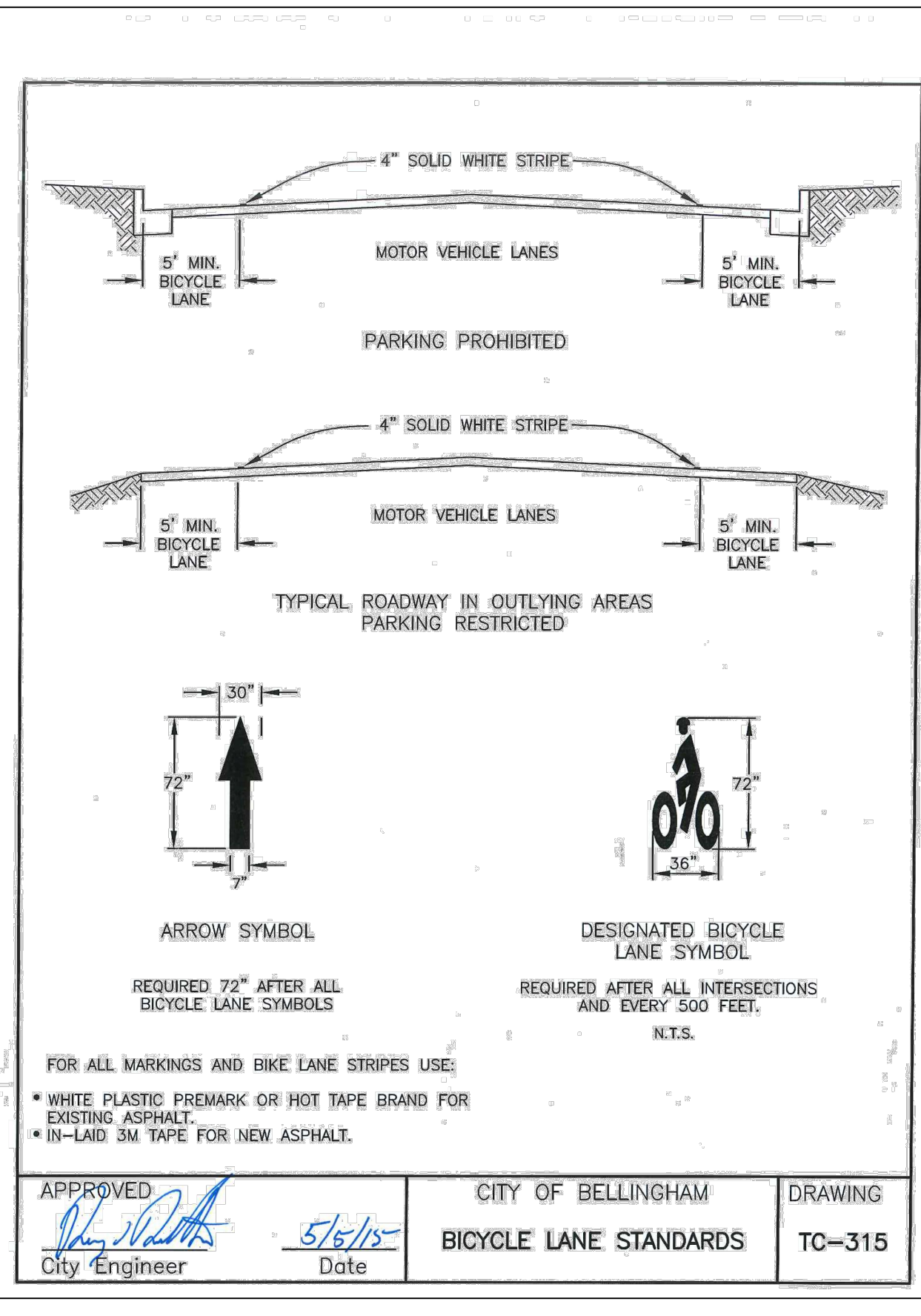
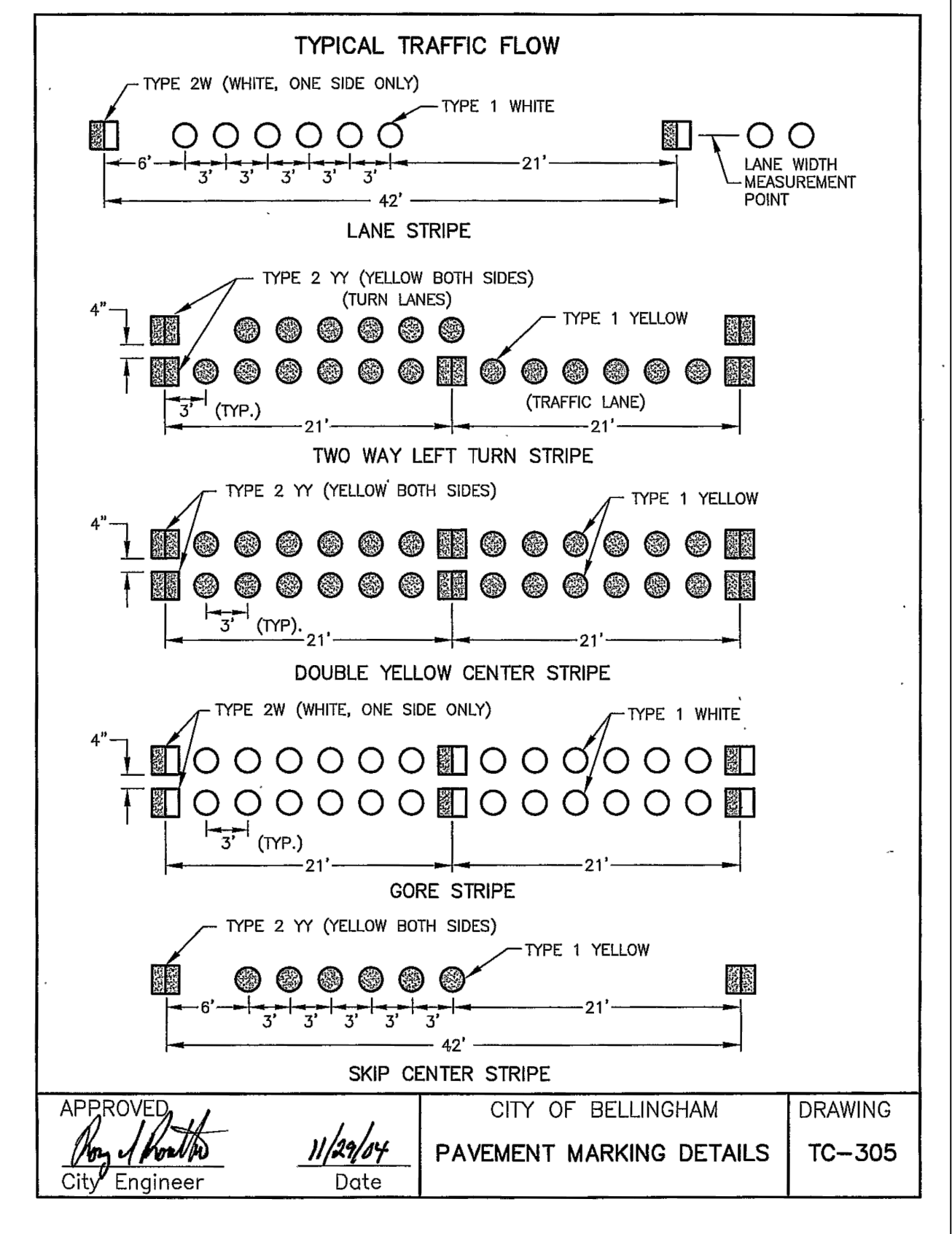
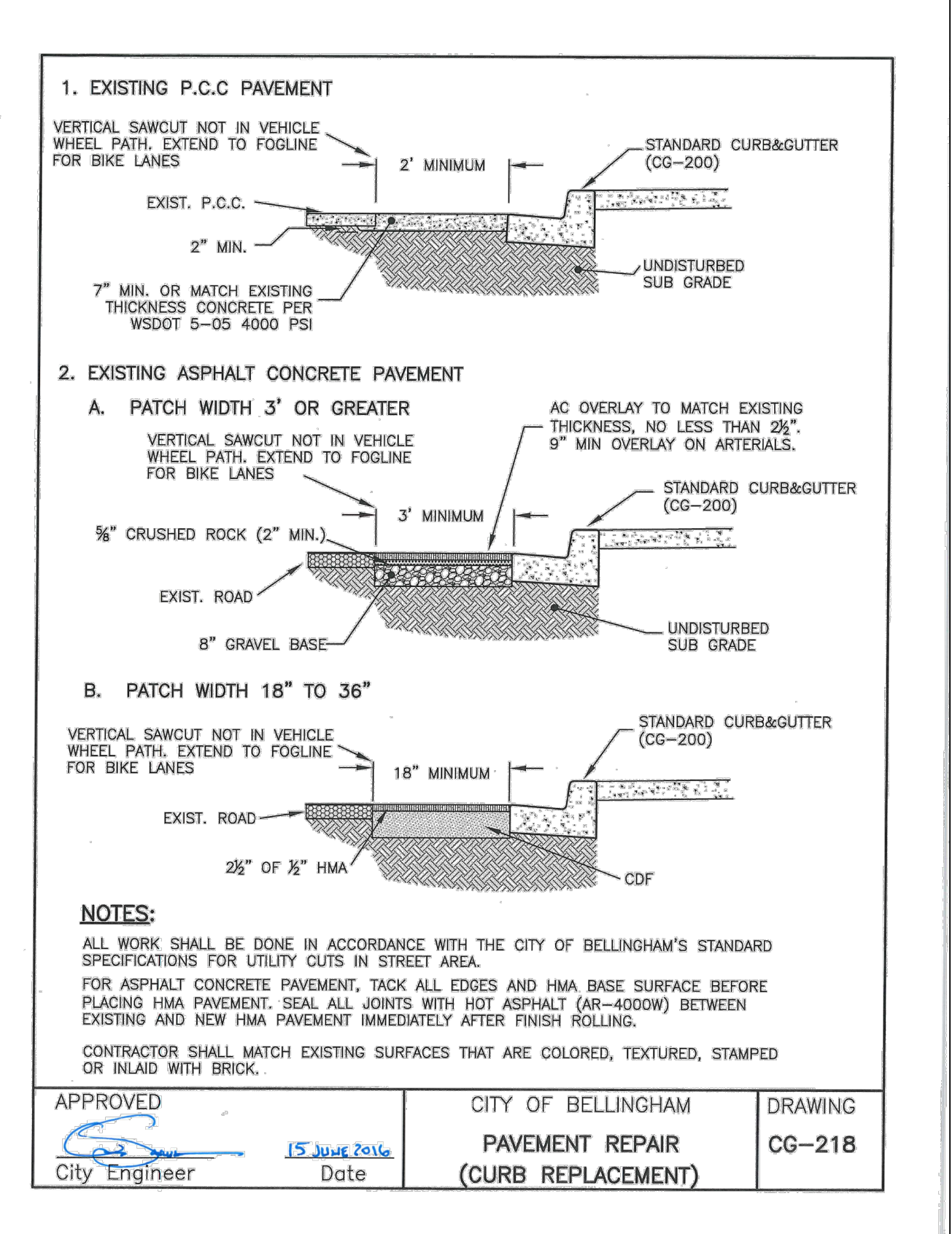
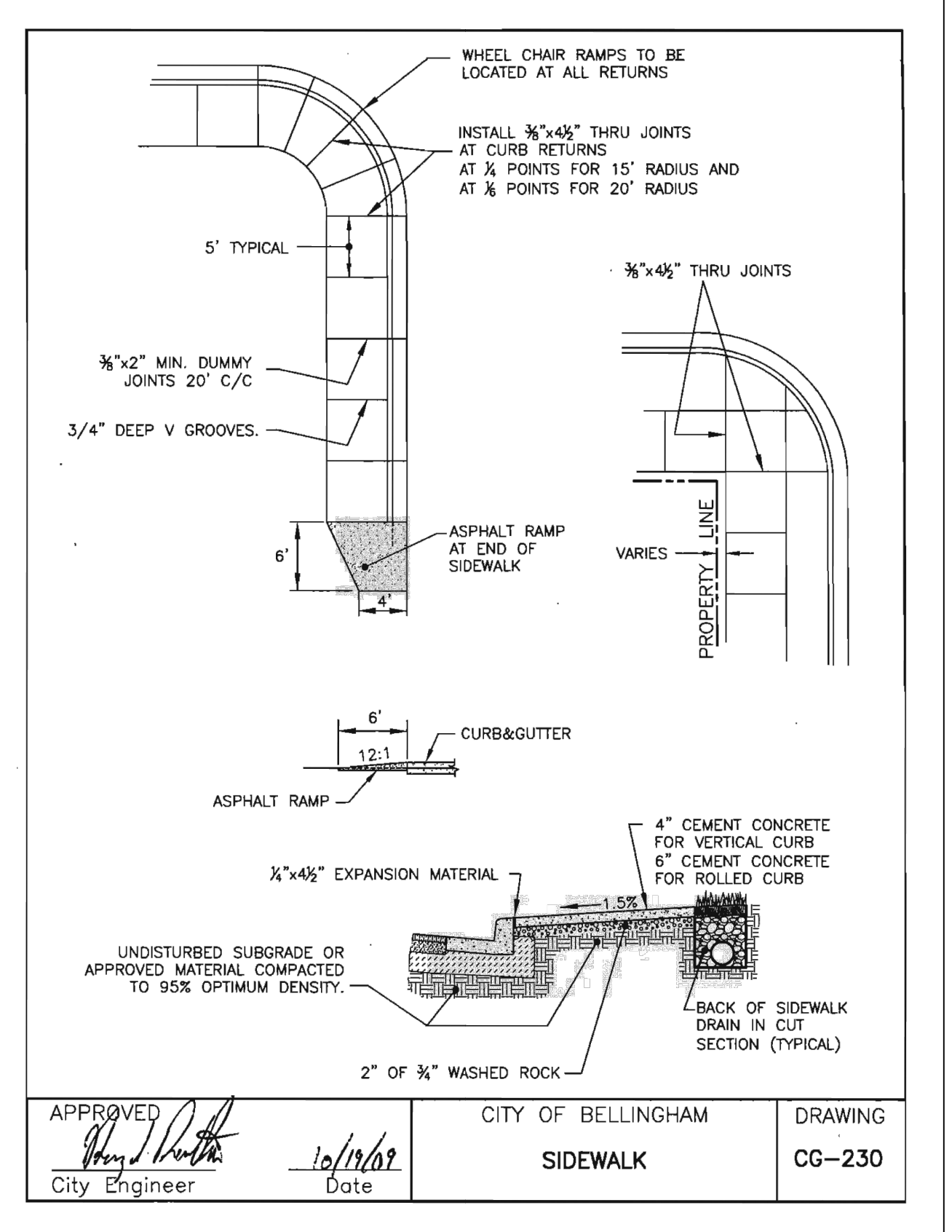
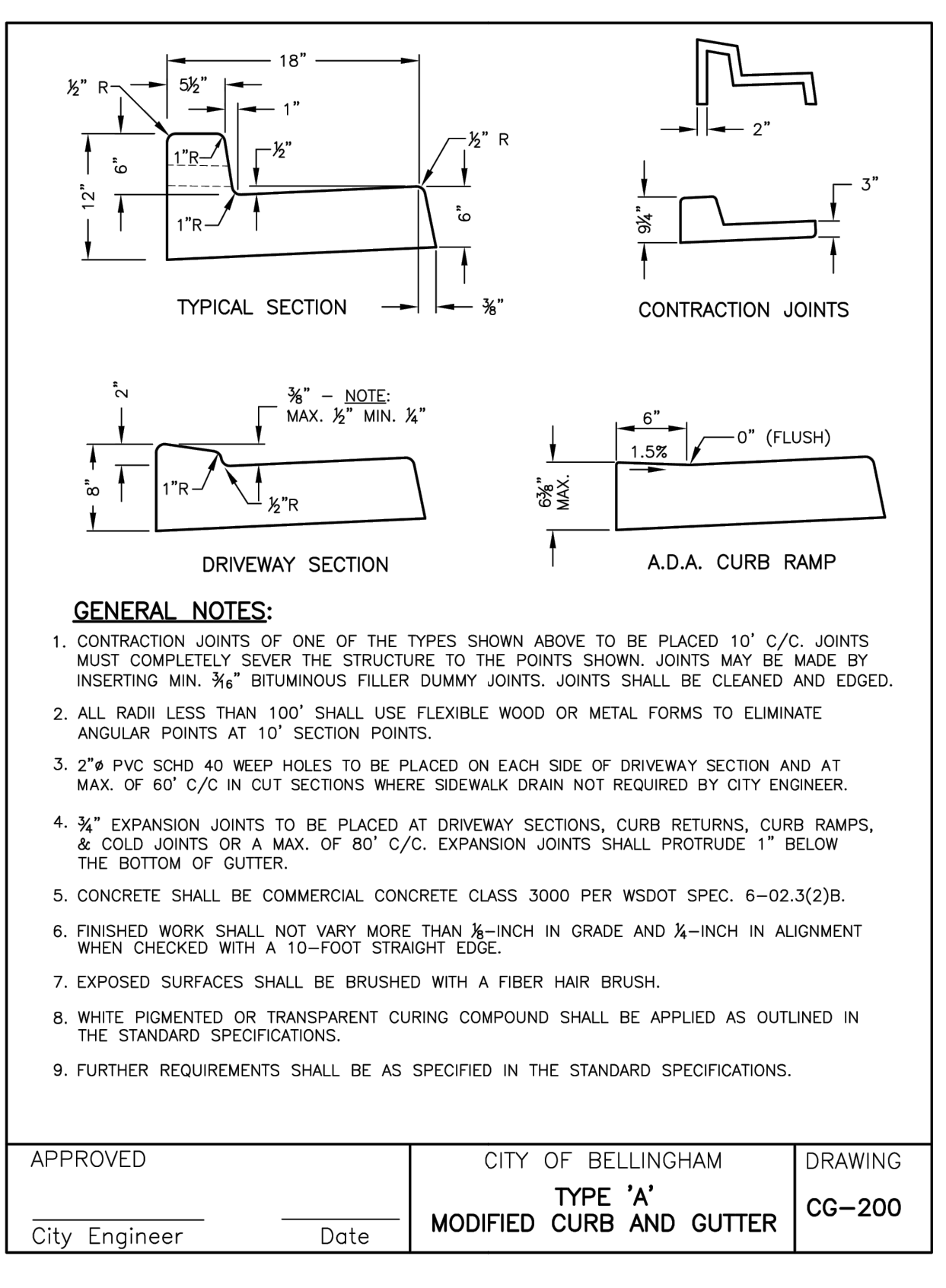


NOTES

- ALL DIMENSIONS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE FIELD VERIFIED PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO THE ENGINEERING DEPT.
- THE POLE MANUFACTURER SHALL INSTALL ALL TENONS AS REQUIRED FOR THE INSTALLATION OF THE VEHICLE SIGNAL HEADS
- CONTRACTOR SHALL ENSURE THAT THE SIGNAL POLE FOUNDATION IS SQUARE WITH THE RESPECTIVE POLE BASE PLATE.
- EACH POLE SHALL INCORPORATE A RECESSED TERMINAL COMPARTMENT PER THE BELOW DRAWING (CITY STD EL-424). (SEE A3, H)

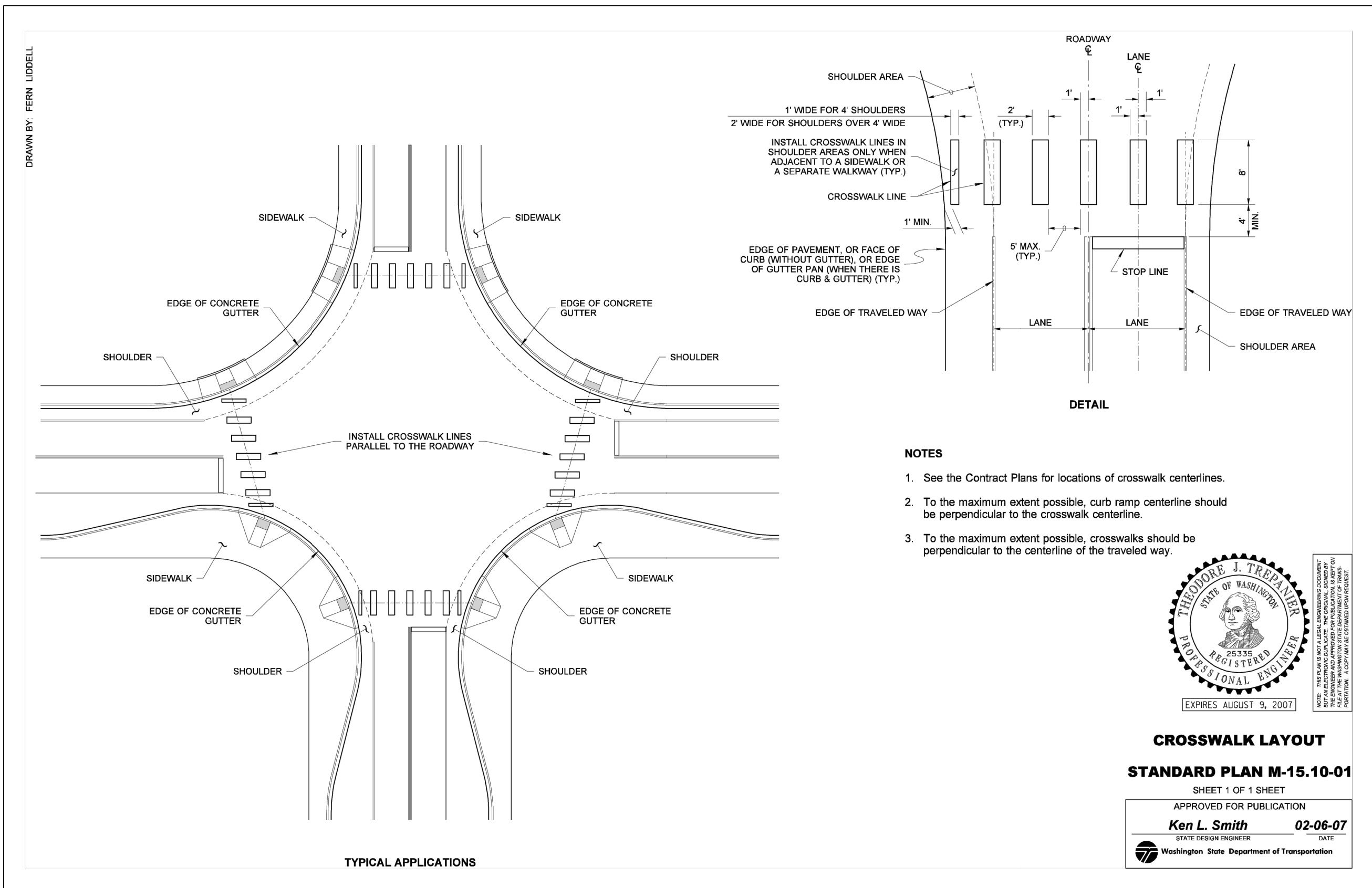
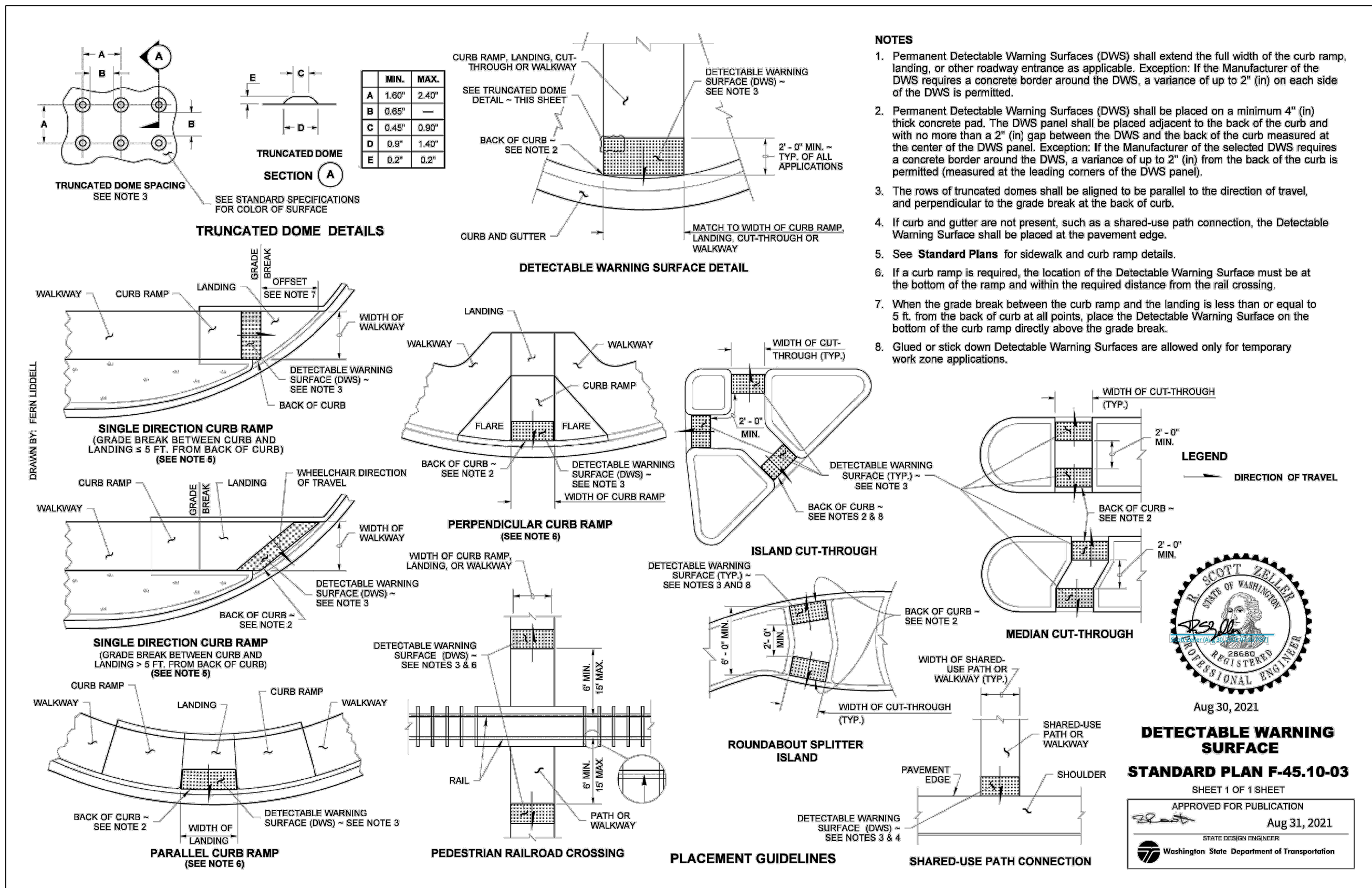
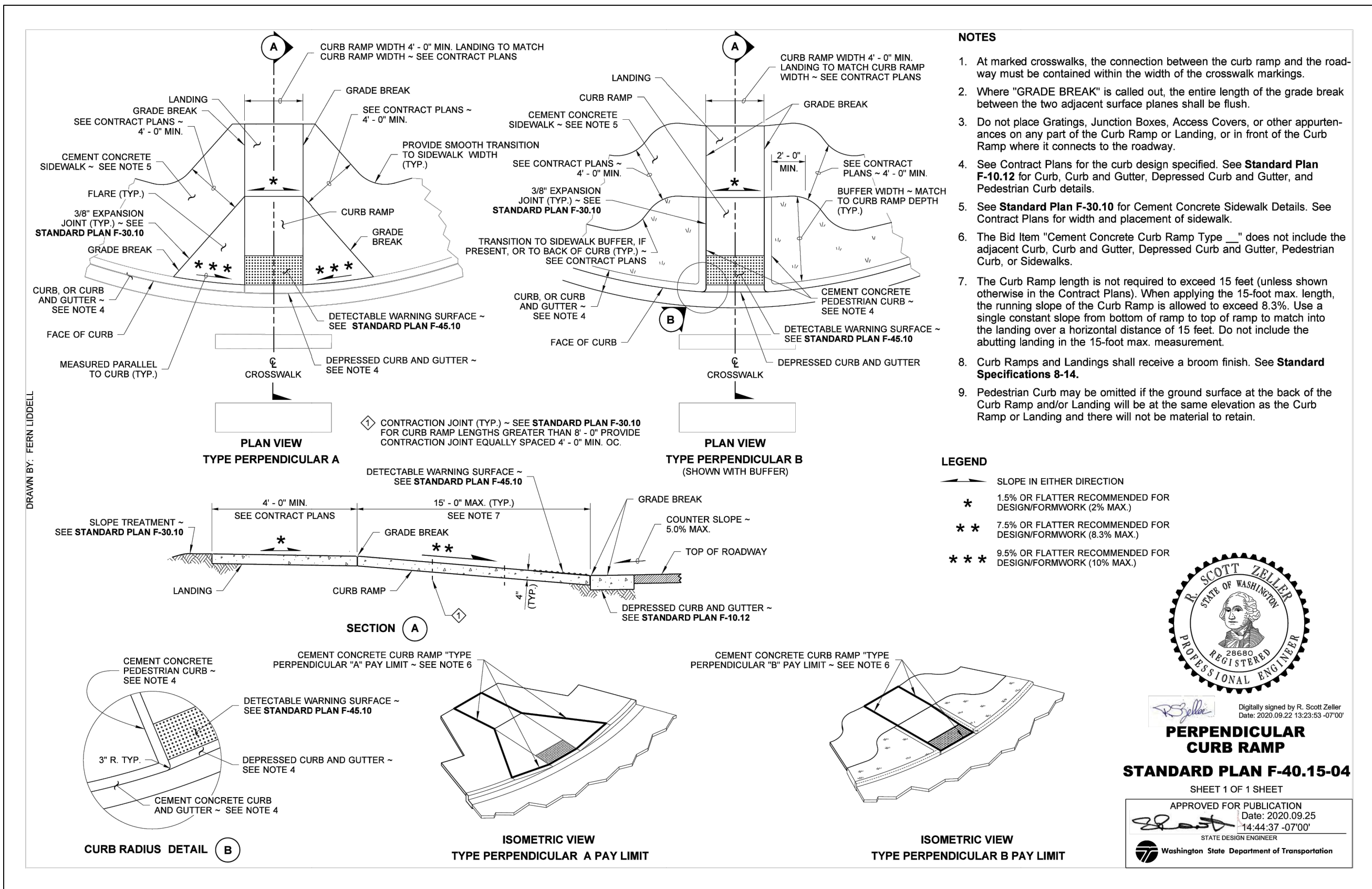
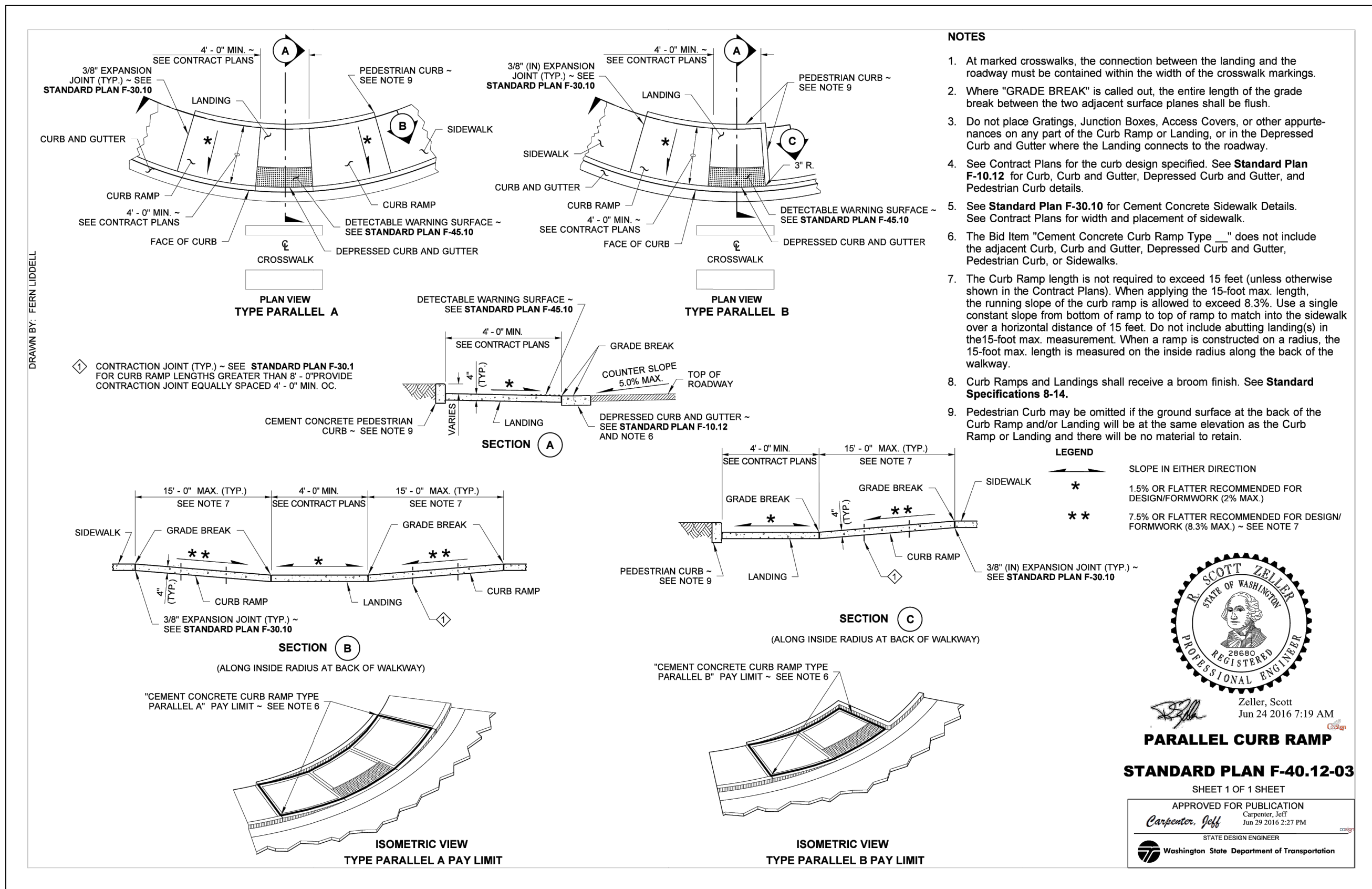


PRELIMINARY



PRELIMINARY

M:\PW\Drawings\Engineering\Section\Maple\Signal\Lincoln-Maple-Signal\ET034-Cover-Details.dwg 18 COB DETAILS 4/29/2023 4:01:12 PM



4			
3			
2			
1			
Date	No	Revision	By

PROJECT ENGINEER JB
DESIGNED/DRAWN JB/JAM
INSPECTOR TBD

DIRECTOR PUBLIC WORKS E.C.J.
CITY ENGINEER C.M.A.S.
ASSISTANT DIRECTOR M.A.O.

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. 1"=N/A
Vert. 1"=N/A

DATUM
NAD 83/98
NAVD 88

Job No. ET034
Date xx
Field Bk. xx

LINCOLN / E. MAPLE SIGNAL & N.M.I.
WSDOT DETAILS

SHEET 19 OF 19

CONTACT PERSON: _____, PROJECT ENGINEER AT 778-7900

PRELIMINARY