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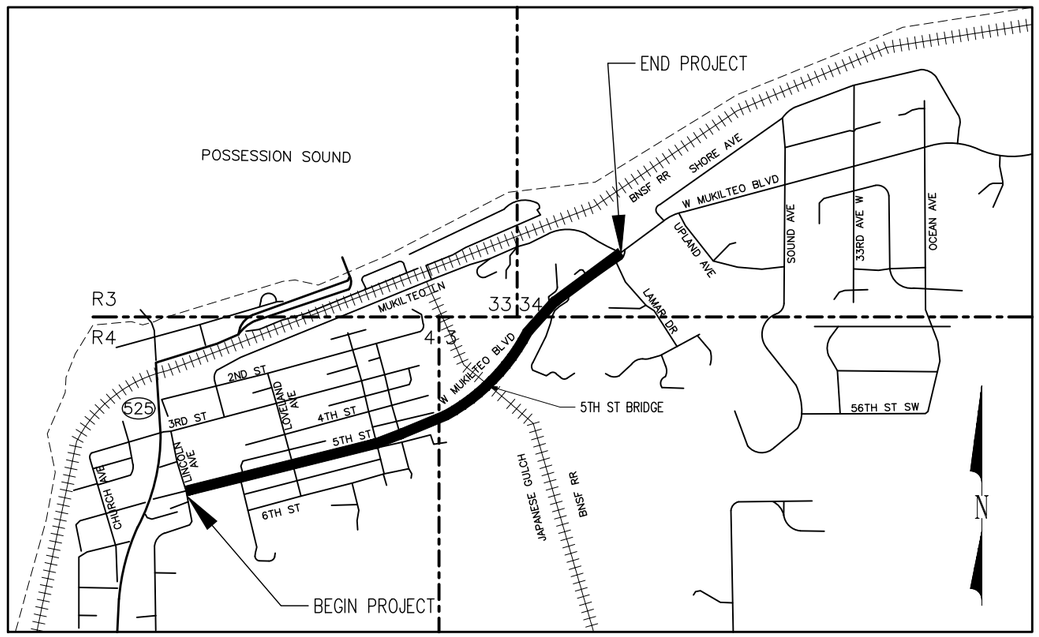
CITY OF MUKILTEO

5TH STREET BICYCLE & PEDESTRIAN PROJECT



VICINITY MAP
SCALE: 1" = 500'

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NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. :2000722

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CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

COVER SHEET & TABLE OF CONTENTS

SHT. 1 OF 123

CV01

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Aug 19, 2022 - 6:53pm

LEGEND

- CONTROL POINT
- STREET LIGHT
- LIGHT JUNCTION BOX
- LIGHT STANDARD
- POWER VAULT
- POWER METER
- POWER POLE
- SERVICE POLE
- ANCHOR
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- HYDRANT
- WATER VAULT
- WATER METER
- IRRIGATION VALVE
- WATER VALVE
- GAS VALVE
- GAS METER
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- CONIFEROUS TREE
- DECIDUOUS TREE
- BUSH
- POST
- SIGN AS NOTED
- BOLLARD
- MAILBOX
- WATER
- FENCE
- GATE
- GUARD RAIL
- GAS
- UNDERGROUND POWER
- LANDSCAPE
- GRAVEL
- SANITARY SEWER
- STORM DRAIN
- UNDERGROUND TELECOMMUNICATION
- ASPHAULT
- OVERHEAD UTILITIES
- ROCK WALL
- CONCRETE
- BUILDING
- BRICK CROSSWALK

ABBREVIATIONS

A	ALIGNMENT
AC	ACRE
ACP	ASPHALT CONCRETE PAVEMENT
ADA	AMERICANS WITH DISABILITY ACT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APPR	APPROVED
AVE	AVENUE
ASPH	ASPHALT
B	BOTTOM
BOC	BACK OF CURB
BLDG	BUILDING
BLVD	BOULEVARD
C	CUT
CB	CATCH BASIN
CF	CUBIC FOOT
CFS	CUBIC FEET PER SECOND
CIP	CAST IN PLACE
CL	CLASS
CLR	CLEAR
℄, C/L	CENTERLINE
CHAN	CHANNELIZATION
CHD	CHECKED
CMP	CORRUGATED METAL PIPE
COM	CITY OF MUKILTEO
COMM	COMMUNICATION
CONC	CONCRETE
CP	CONTROL POINT
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CTRS	CENTERS
CW	CONCRETE WALKWAY
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIP	DUCTILE IRON PIPE
DR	DRIVEWAY, DRIVE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST, EASTING
EA	EACH
EF	EACH FACE
EG	EXISTING GRADE
EL, ELEV	ELEVATION
ELL	ELBOW
EQ	EQUAL
ESMT	EASEMENT
EX, EXIST	EXISTING
F	FILL
FC	FLOW CONTROL
FG	FINISHED GRADE
FL	FLOW LINE
FND	FOUND
FT	FOOT, FEET
G	GAS
GA	GAUGE
GB	GRADE BREAK LINE
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITIONING SYSTEM
H, HORIZ	HORIZONTAL, HEIGHT
HDPE	HIGH-DENSITY POLYETHELENE
HH	HANDHOLE
HMA	HOT MIXED ASPHALT
HMN	HARDENED MAG NAIL
HP	HIGH POINT
HYD	HYDRANT (FIRE)
IE	INVERT ELEVATION
IN	INCHES
JUT	JOINT UTILITY TRENCH
L	LENGTH
LB	POUNDS
LCPE	LINED CURRUGATED POLYTHYLENE
LF	LINEAR FEET
LT	LEFT
LN	LANE
LSCAPE	LANDSCAPE
M	MERIDIAN
MAX	MAXIMUM
MFGR	MANUFACTURER
MH	MAINTENANCE HOLE
MIC	MONUMENT IN CASE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MMA	METHYL METHACRYLATE
MN	MAG NAIL
MON	MONUMENT
MP	MILEPOST
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MWS	MODULAR WETLAND SYSTEM
N	NORTH, NORTHING
N/A	NOT APPLICABLE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NC	NORTH CONTROL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	POWER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PE	POLYETHYLENE
PG	PROPOSED GRADE, PERFORMANCE GRADE
PI	POINT OF INTERSECT
PK	SURVEY CONTROL NAIL
PL	PLACE, PLATE
PMJF	PREMOLDED JOINT FILLER
PNT	POINT
POB	POINT OF BEGINNING
POE	POINT OF END
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PSE	PUGET SOUND ENERGY
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE (PIPE)
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	PONT OF VERTICAL TANGENCY
PWR	POWER
QTY	QUANTITY
R	RADIUS, RANGE
RD	ROAD
ROW,R/W	RIGHT-OF-WAY
RP	RADIUS POINT
RPM	RAISED PAVEMENT MARKER
RT	RIGHT
RTS	ROADWAY TYPICAL SECTION
S	SOUTH
SCHED	SCHEDULE
SC	SOUTH CONTROL
SD	STORM DRAIN PIPE
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SEC	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATIONS
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
STR	STORM
SVC	SERVICE
SW	SOUTHWEST
SWPE	SMOOTH WALL POLYTHELYNE
T/	TOP OF
T	TELEPHONE, TOWNSHIP, TANGENT DISTANCE, TOP
TBD	TO BE DETERMINED
TOC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCS	TRAFFIC CONTROL SUPERVISOR
TEMP	TEMPORARY
TPZ	TREE PROTECTION ZONE
TYP	TYPICAL
UD	UNDERDRAIN
V, VERT	VERTICAL
VC	VERTICAL CURVE
W	WEST, WATER, WIDTH
W/	WITH
WAC	WASHINGTON ADMINISTRATION CODE
WM	WILLAMETTE MERIDIAN
WWD	WATER AND WASTEWATER DISTRICT
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WTR	WATER
WQ	WATER QUALITY

BASIS OF MERIDIAN

WASHINGTON STATE PLANE COORDINATE SYSTEM, NAD 83/11, NORTH ZONE 4601, PER WSDOT CONTROL POINT DESIGNATIONS "NEW MUCK" AND GP31525-133

VERTICAL DATUM

NAVD 88 -CONSTRAINED TO WSDOT CONTROL POINT GP31525-133

UTILITY NOTE

NOTE: LOCAL CONTROL POINTS SHOWN HEREON WERE DERIVED FROM THE ABOVE MENTIONED CONTROL. CONTRACTOR TO VERIFY VERTICAL DATUM TO ON SITE TOPOGRAPHY AND CONTROL POINTS PROVIDED PRIOR TO CONSTRUCTION.

UTILITIES SHOWN HEREON ARE PER KPFF AS-BUILT OF SITE SURFACE FEATURES IN CONJUNCTION WITH UNDERGROUND UTILITY LOCATES PERFORMED BY KPFF, AND RECORD INFORMATION PROVIDED BY THE CITY OF MUKILTEO, ALL UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE ONLY AND VERIFIED PRIOR TO EXCAVATION.

BOUNDARY NOTE

BOUNDARY AND RIGHT OF WAY SHOWN HERE ON IS BASED ON BEST AVAILABLE RECORD INFORMATION.

METHOD OF SURVEY

CONTROL SURVEY PERFORMED WITH THE USE OF TOPCON GR5 GPS RECEIVERS, TOPOGRAPHIC AND SUPPLEMENTAL CONTROL SURVEY PERFORMED USING CONVENTIONAL GROUND METHODS USING A TOPCON PS-103 ROBOTIC TOTAL STATION.

THE WORK PERFORMED DURING THE COURSE OF THIS SURVEY MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.

COMPLETED IN JUNE OF 2021.

Point	Northing	Easting	Elevation	Description
1	348103.076	1280256.379	116.62	SET MN
2	348141.516	1280438.483	117.23	SET MN+W
3	348178.944	1280573.615	116.27	SET HMN
4	348183.949	1280770.066	115.13	FND MN+W
5	348259.299	1280914.545	113.70	SET HMN
6	348302.839	1281086.127	110.73	SET MN
7	348330.066	1281208.037	108.40	SET MN
8	348368.626	1281385.212	105.71	SET MN
9	348379.954	1281618.265	105.03	SET MN
10	348416.800	1281772.162	107.16	SET MN
11	348524.284	1282027.969	113.12	SET MN
12	348545.409	1282254.425	117.88	SET MN
13	348685.908	1282482.788	119.61	SET MN
14	348735.043	1282706.735	122.84	SET MN
15	348851.528	1282827.560	122.60	SET MN
16	348982.542	1282990.806	123.82	SET MN
17	349130.378	1283185.598	125.07	FND MN+W
18	349326.383	1283268.280	121.39	FND HMN
19	349809.272	1283700.316	125.91	SET MN
20	349965.419	1284000.097	124.01	SET HMN
21	350137.627	1284166.574	121.67	SET MN
22	350211.455	1284342.137	121.11	SET MN

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www.kpff.com

JEREMY F. CHAPMAN
STATE OF WASHINGTON
49770
REGISTERED
PROFESSIONAL LAND SURVEYOR

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
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DATE 08/2022
J O B No. : 2000722

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MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

GENRAL NOTES

GN01

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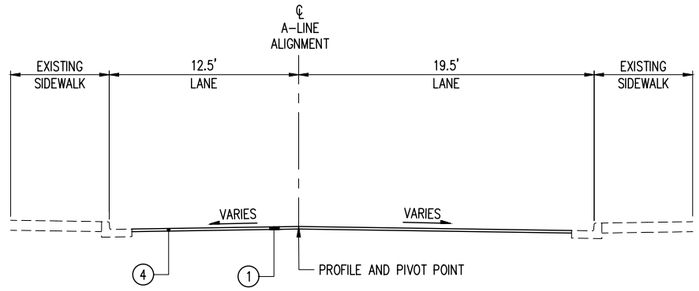
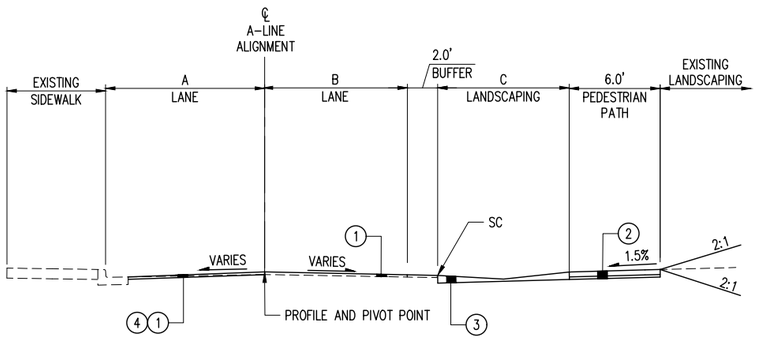
Aug 19, 2022 - 6:53pm



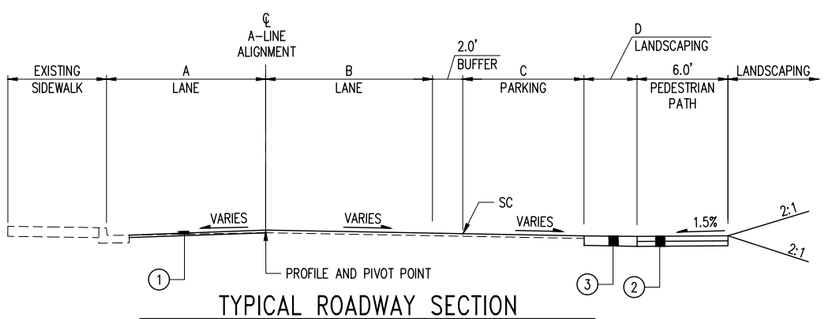
TYPICAL ROADWAY SECTION

A STA 101+91 TO STA A 102+30



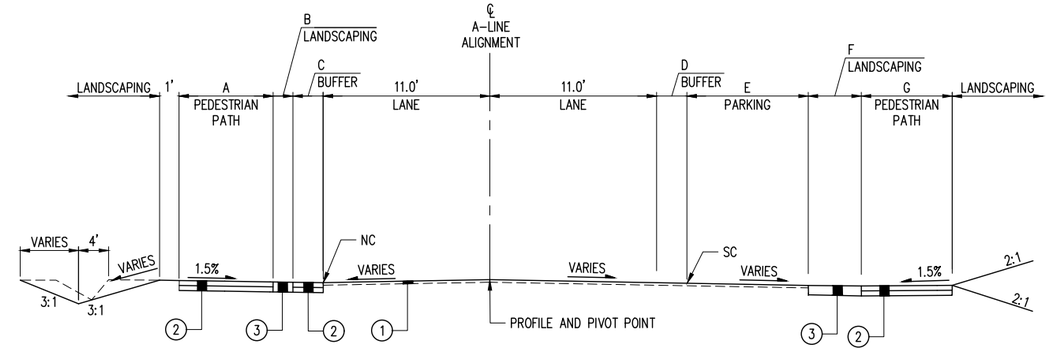
TYPICAL ROADWAY SECTION

STATION	A	B	C
A 102+30 TO A 102+52	12.7'–14.2'	16.4'–15.0'	6.5'–8.3'
A 102+52 TO A 102+81	14.2'–14.3'	15.0'–14.2'	8.3'–8.8'
A 102+81 TO A 102+89	14.3'	14.2'–14.0'	8.8'–0.0'
A 102+89 TO A 103+34	14.3'–14.4'	14.0'–12.7'	0.0'



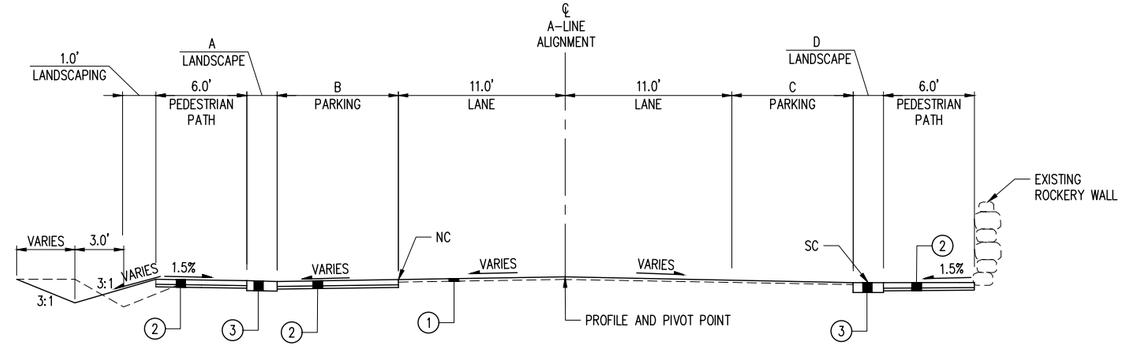
TYPICAL ROADWAY SECTION

STATION	A	B	C	D
A 103+34 TO A 103+60	14.4'	12.0'–12.7'	6.5'–7.0'	2.0'



TYPICAL ROADWAY SECTION

STATION	A	B	C	D	E	F	G
A 103+60 TO A 103+65	6.0'	0.0'–1.5'	0.0'	2.0'	7.0'–7.2'	2.0'	6.0'
A 103+65 TO A 103+73	6.0'	1.5'	0.0'–2.0'	2.0'	7.2'–7.3'	2.0'	6.0'
A 103+73 TO A 103+94	6.0'	1.5'	2.0'	2.0'	7.3'–8.0'	2.0'	6.0'
A 103+94 TO A 104+32	6.0'	1.5'	2.0'	2.0'	8.0'–0.0'	2.0'	6.0'
A 104+32 TO A 104+85	6.0'	1.5'	2.0'	2.0'	0.0'	10.0'–0.0'	6.0'
A 104+85 TO A 105+02	6.0'	1.5'	2.0'	2.0'	0.0'	0.0'	6.0'–5.0'
A 105+02 TO A 105+12	6.0'	1.5'	2.0'	2.0'	0.0'	0.0'	5.4'–4.6'
A 105+12 TO A 105+40	6.0'–5.0'	0.0'	2.0'	2.0'–0.0'	0.0'	0.0'	5.0'
A 105+40 TO A 105+55	5.0'	0.0'	2.0'	0.0'	0.0'	0.0'–8.0'	5.0'–6.0'
A 105+55 TO A 105+98	5.0'	0.0'	2.0'	0.0'	0.0'	8.0'	6.0'
A 105+98 TO A 106+08	5.0'	0.0'	2.0'	0.0'	0.0'–6.0'	8.0'–2.0'	6.0'
A 106+08 TO A 106+38	5.0'	0.0'	2.0'	0.0'–2.0'	0.0'	0.0'–8.0'	6.0'
A 106+38 TO A 107+05	5.0'	0.0'	2.0'	2.0'	0.0'	8.0'	6.0'
A 107+55 TO A 104+14	5.0'	0.0'	2.0'	2.0'	0.0'	8.0'	6.0'
A 107+14 TO A 107+44	5.0'–6.0'	0.0'	2.0'	2.0'	0.0'	8.0'	6.0'
A 107+44 TO A 107+66	6.0'	0.0'	2.0'	2.0'	0.0'–6.0'	8.0'–2.0'	6.0'
A 107+66 TO A 108+51	6.0'	0.0'	2.0'	2.0'	6.0'	2.0'	6.0'



TYPICAL ROADWAY SECTION

STATION	A	B	C	D
A 108+51 TO A 110+65	2.0'	2.0'–8.0'	8.0'	2.0'
A 108+65 TO A 109+86	2.0'	8.0'	8.0'	2.0'
A 109+86 TO A 110+08	2.0'	8.0'–2.0'	8.0'	2.0'
A 110+08 TO A 110+87	2.0'	2.0'	8.0'	2.0'
A 110+87 TO A 111+21	2.0'–3.0'	2.0'	8.0'–7.0'	2.0'
A 111+21 TO A 111+37	3.0'–3.6'	2.0'	7.0'–2.0'	2.0'–6.5'

CONSTRUCTION NOTES:

1. 2" OVERLAY
2. 2" HMA OVER 4" CSBC
3. SEEDING AND FERTILIZING WITH 4" TOPSOIL
4. GRIND TO 2" BELOW FINISHED GRADE

GENERAL NOTES:

1. SEE GRADING PLANS FOR PROFILE AND VERTICAL CONTROL

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MUKILTEO, WA

TYPICAL SECTIONS

SHT. 3 OF 123

TS01

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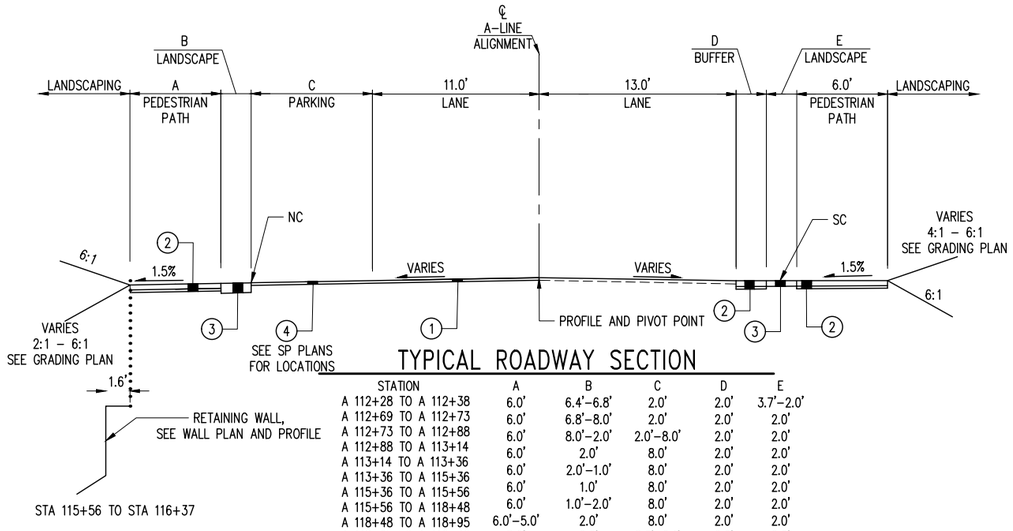
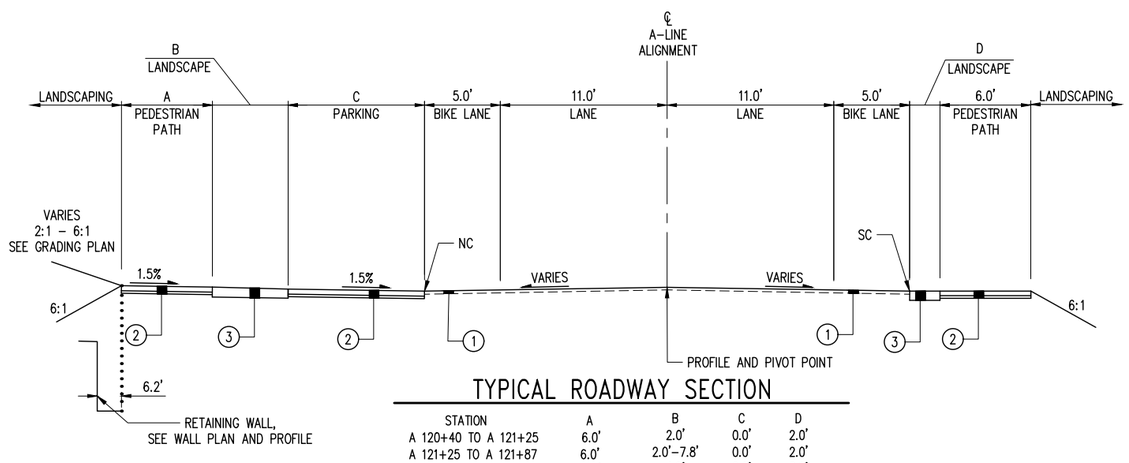


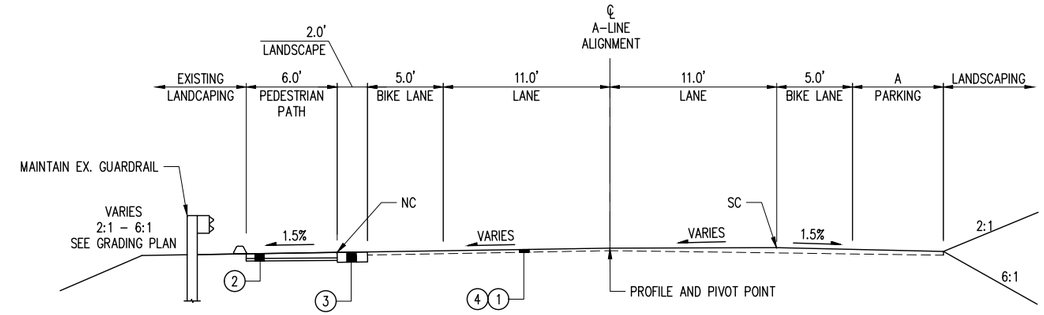
TYPICAL ROADWAY SECTION

STATION	A	B	C	D	E
A 112+28 TO A 112+38	6.0'	6.4'–6.8'	2.0'	2.0'	3.7'–2.0'
A 112+69 TO A 112+73	6.0'	6.8'–8.0'	2.0'	2.0'	2.0'
A 112+73 TO A 112+88	6.0'	8.0'–2.0'	2.0'–8.0'	2.0'	2.0'
A 112+88 TO A 113+14	6.0'	2.0'	8.0'	2.0'	2.0'
A 113+14 TO A 113+36	6.0'	2.0'–1.0'	8.0'	2.0'	2.0'
A 113+36 TO A 115+36	6.0'	1.0'	8.0'	2.0'	2.0'
A 115+36 TO A 115+56	6.0'	1.0'–2.0'	8.0'	2.0'	2.0'
A 115+56 TO A 118+48	6.0'–5.0'	2.0'	8.0'	2.0'	2.0'
A 118+48 TO A 118+95	5.0'	2.0'	8.0'–6.1'	2.0'	2.0'
A 118+95 TO A 119+42	5.0'–6.0'	2.0'–4.1'	6.1'–2.0'	2.0'	2.0'



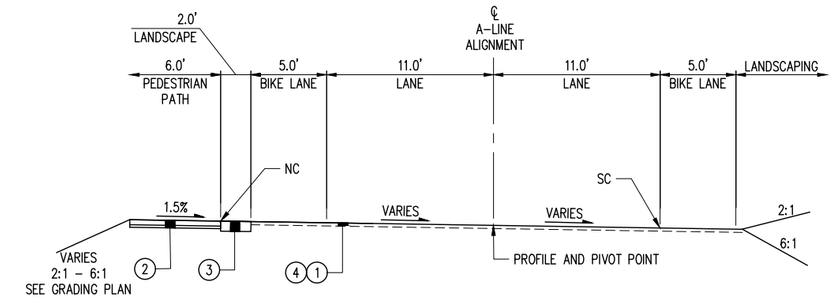
TYPICAL ROADWAY SECTION

STATION	A	B	C	D
A 120+40 TO A 121+25	6.0'	2.0'	0.0'	2.0'
A 121+25 TO A 121+87	6.0'	2.0'–7.8'	0.0'	2.0'
A 122+67 TO A 122+82	10.0'	4.0'	0.0'	2.0'
A 122+82 TO A 123+12	10.0'	4.0'–16.5'	0.0'	2.0'
A 123+12 TO A 123+44	10.0'	16.5'–17.0'	0.0'	2.0'
A 123+44 TO A 123+51	10.0'	17.0'–12.0'	0.0'–5.0'	2.0'
A 123+51 TO A 123+91	10.0'	12.0'–12.4'	5.0'	2.0'
A 123+91 TO A 123+95	10.0'	12.4'–8.3'	5.0'–9.0'	2.0'
A 123+95 TO A 125+14	10.0'	8.3'–4.3'	9.0'	2.0'
A 125+14 TO A 125+23	10.0'	4.3'–3.8'	9.0'	2.0'–1.8'
A 125+23 TO A 125+37	10.0'–12.5'	3.8'–6.4'	9.0'–0.0'	1.8'–1.4'
A 125+37 TO A 125+43	12.5'	6.0'–2.0'	0.0'	1.4'–1.2'
A 125+43 TO A 125+52	12.5'–6.0'	2.0'	0.0'	1.2'–0.9'
A 125+52 TO A 125+82	6.0'	2.0'	0.0'	0.9'–0.0'
A 125+82 TO A 126+41	6.0'	2.0'	0.0'	0.0'



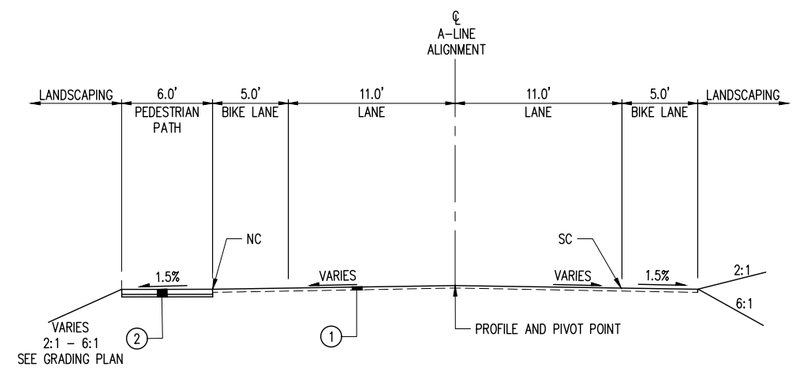
TYPICAL ROADWAY SECTION

STATION	A
A 126+41 TO A 134+53	0–0'
A 134+53 TO A 134+73	0.0'–9.0'
A 134+73 TO A 136+45	9.0'
A 136+45 TO A 136+65	9.0'–0.0'



TYPICAL ROADWAY SECTION

A STA 136+65 TO 141+48



TYPICAL ROADWAY SECTION

A STA 143+15 TO STA 148+58

GENERAL NOTES:

1. SEE GRADING PLANS FOR PROFILE AND VERTICAL CONTROL

CONSTRUCTION NOTES:

1. 2" OVERLAY
2. 2" HMA OVER 4" CSBC
3. SEEDING AND FERTILIZING WITH 4" TOPSOIL
4. GRIND TO 2" BELOW FINISHED GRADE

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. : 2000722

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TYPICAL SECTIONS

SHT. 4 OF 123

TS02

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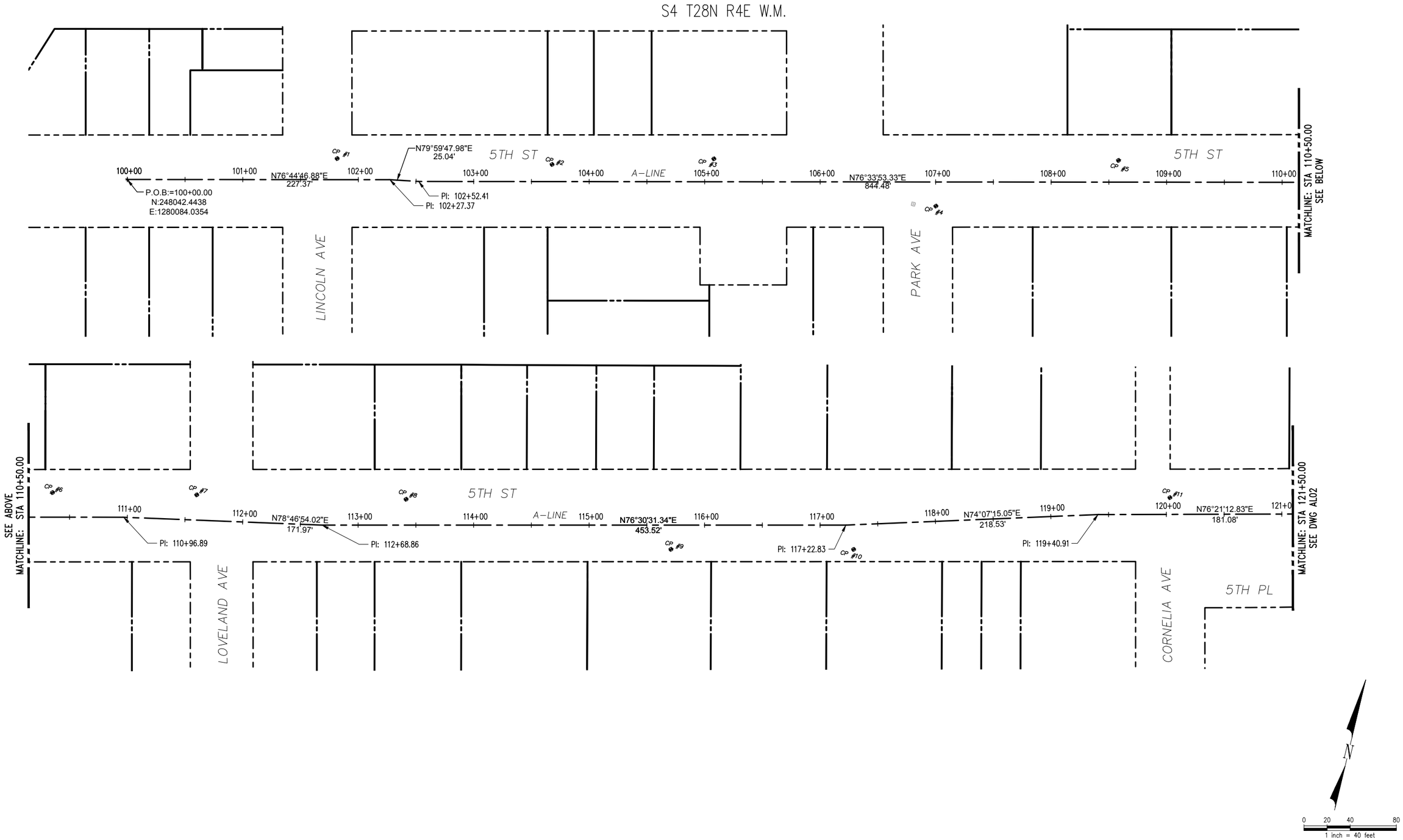

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S C A L E: 1" = 40'

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ALIGNMENT AND ROW PLAN

SHT. 5 OF 123

AL01

timg
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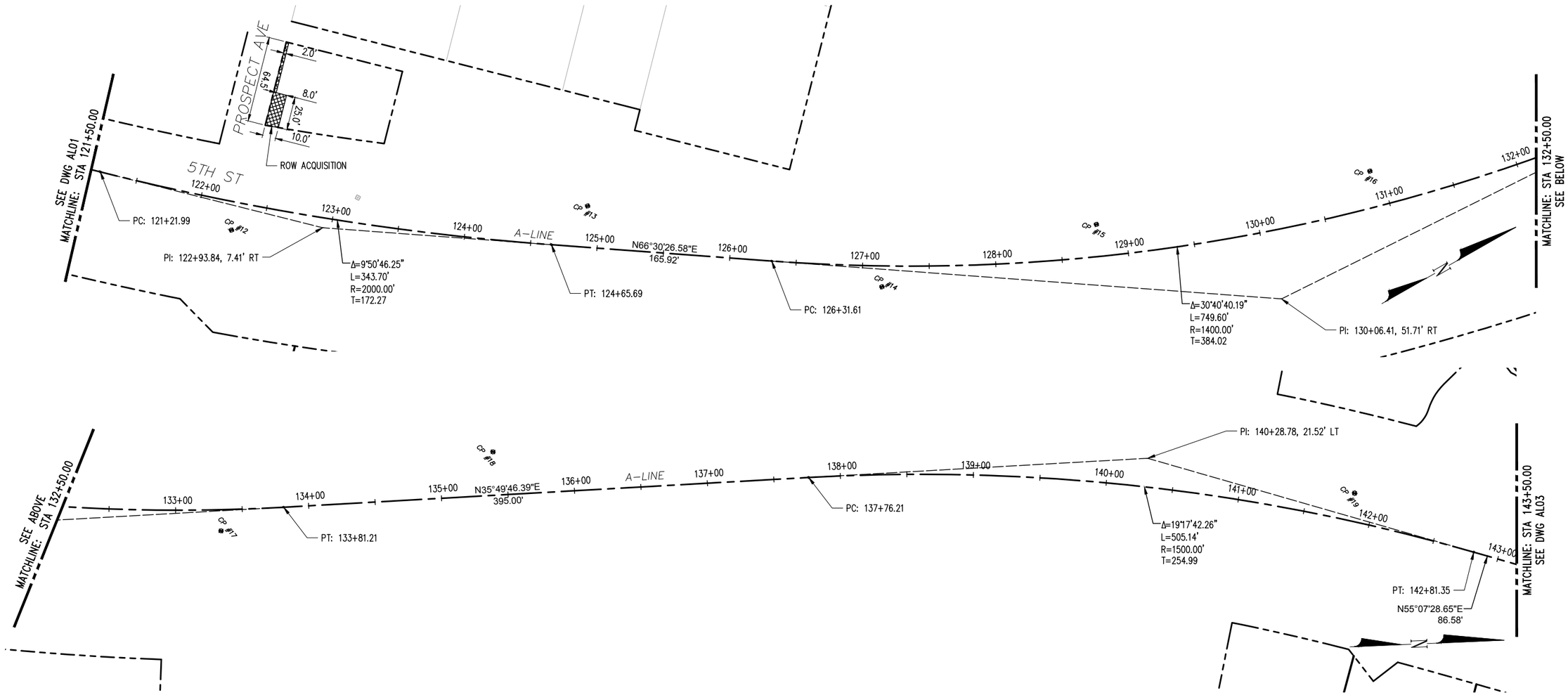

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ALIGNMENT AND ROW PLAN

SHT. 6 OF 123

AL02

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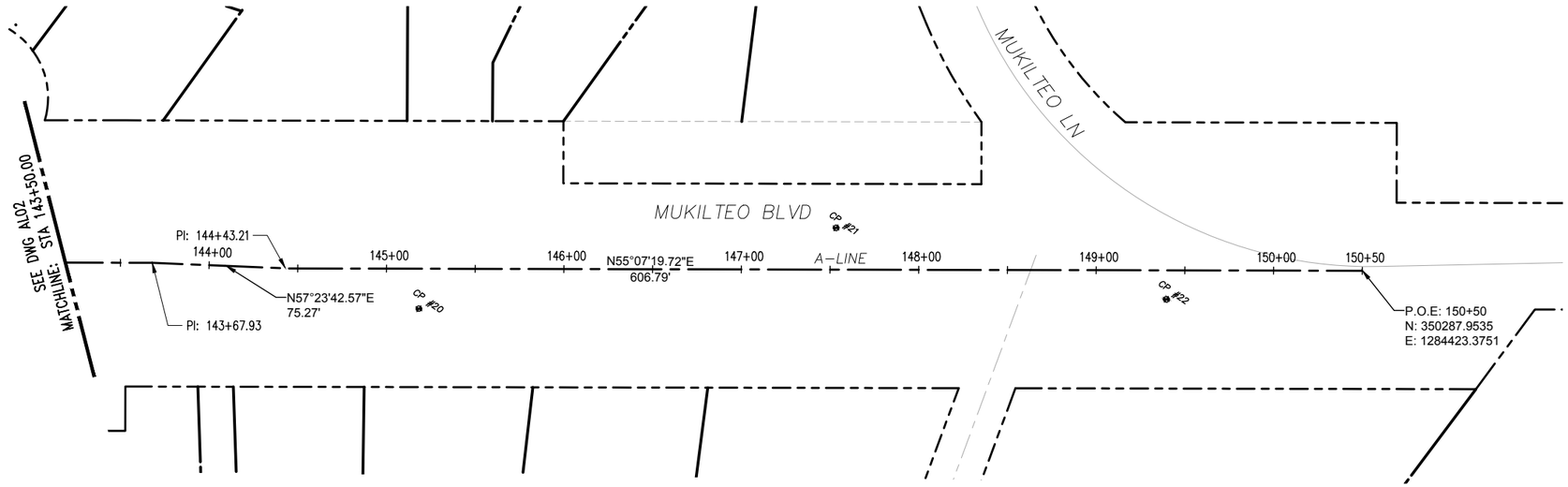

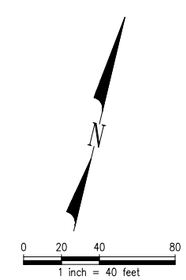

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ALIGNMENT AND ROW PLAN

AL03

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tmg
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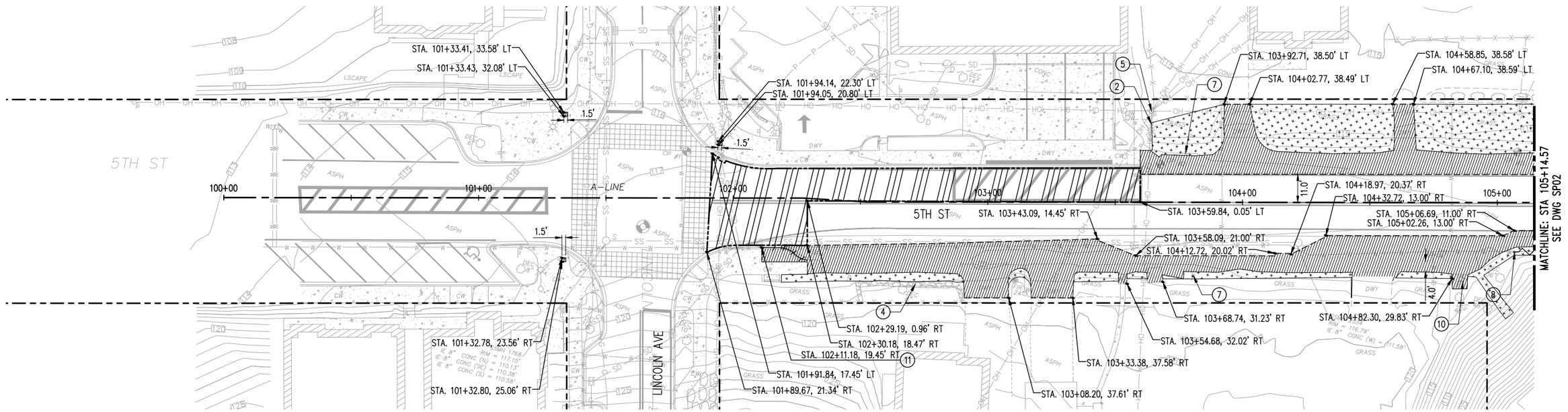

LEGEND

- RIGHT-OF-WAY
- SAWCUT
- REMOVE CURB OR CURB AND GUTTER
- REMOVE STORM DRAIN PIPE
- REMOVE STRUCTURE OR OBSTRUCTION NOTED
- ROADWAY EXCAVATION INCL. HAUL
- CLEARING AND GRUBBING
- PLANING BITUMINOUS PAVEMENT HATCH

CONSTRUCTION NOTES

1. REMOVE FENCE
2. REMOVE LUMINAIRE
3. REMOVE CEMENT CONCRETE STAIRS
4. PROTECT EX. WALL
5. PROTECT EX. POWER POLE
6. PROTECT EX. FENCE
7. REMOVE EX. SIGN
8. REMOVE GUARDRAIL
9. REMOVE PLASTIC LINE
10. RELOCATE EX. MAILBOX, SEE PAVING PLANS
11. REMOVE CURB AND GUTTER

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N

0 10 20 40
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SITE PREPARATION PLAN

SHT. 8 OF 123

SP01

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tmg
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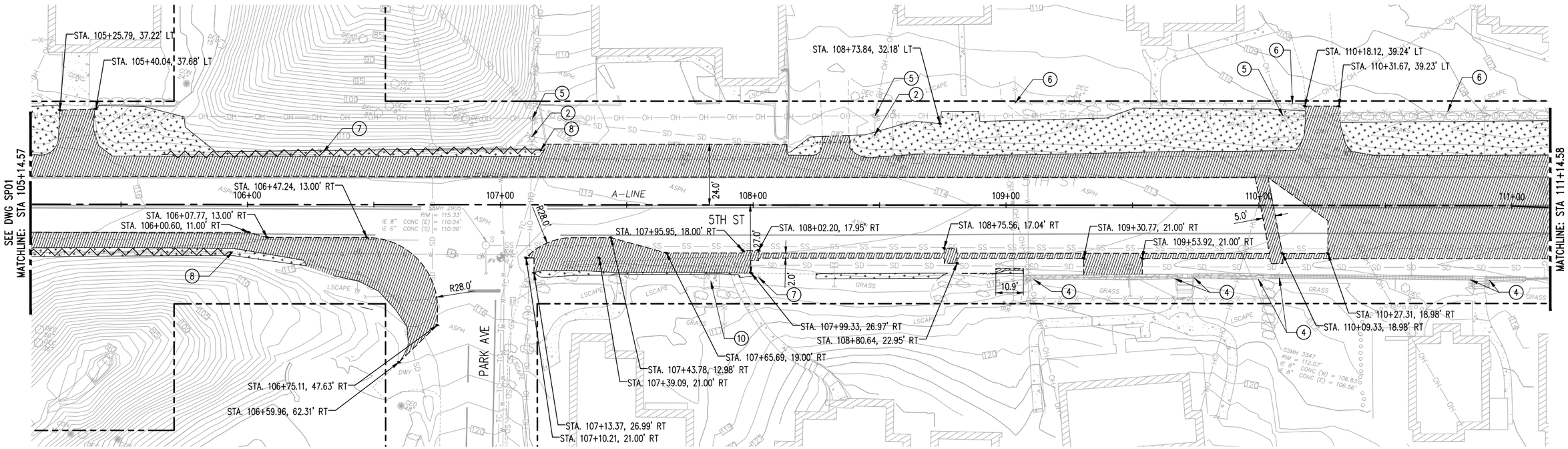

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SHT. 9 OF 123

SITE PREPARATION PLAN

SP02

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tzmg
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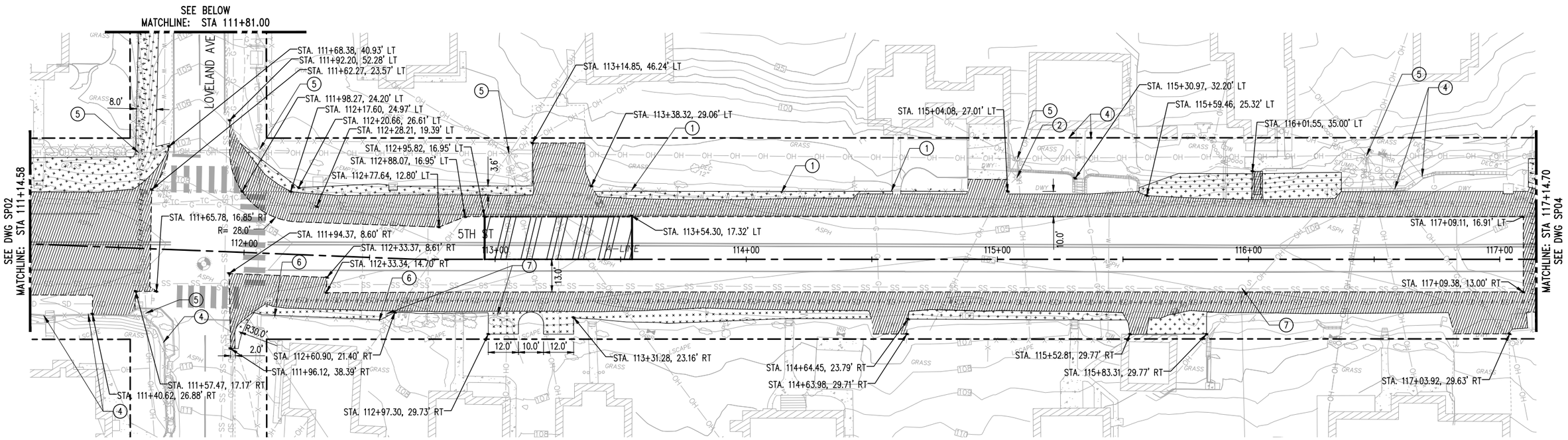

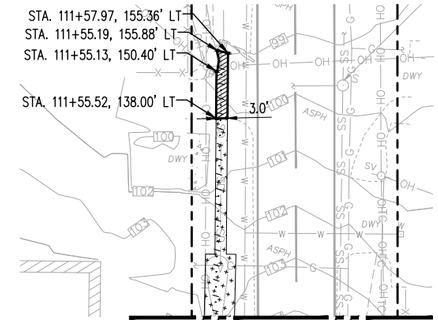

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N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90 PERCENT

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SCALE: 1" = 20'

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SITE PREPARATION PLAN

SHT. 10 OF 123

SP03

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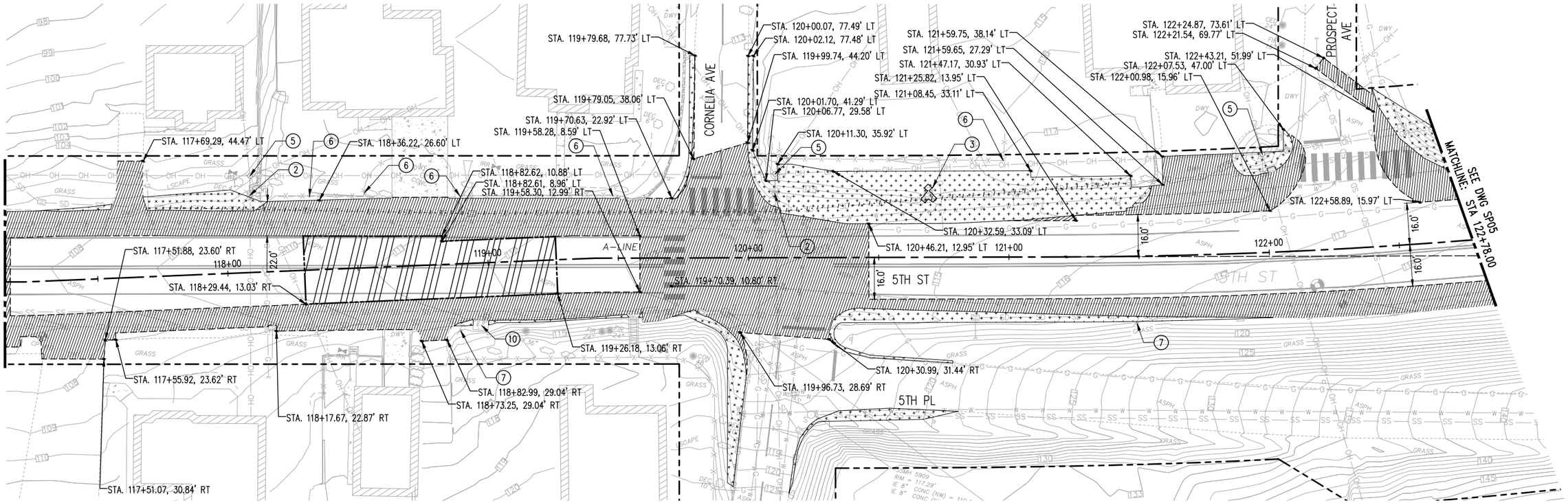

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SHT. 11 OF 123

SITE PREPARATION PLAN

SP04

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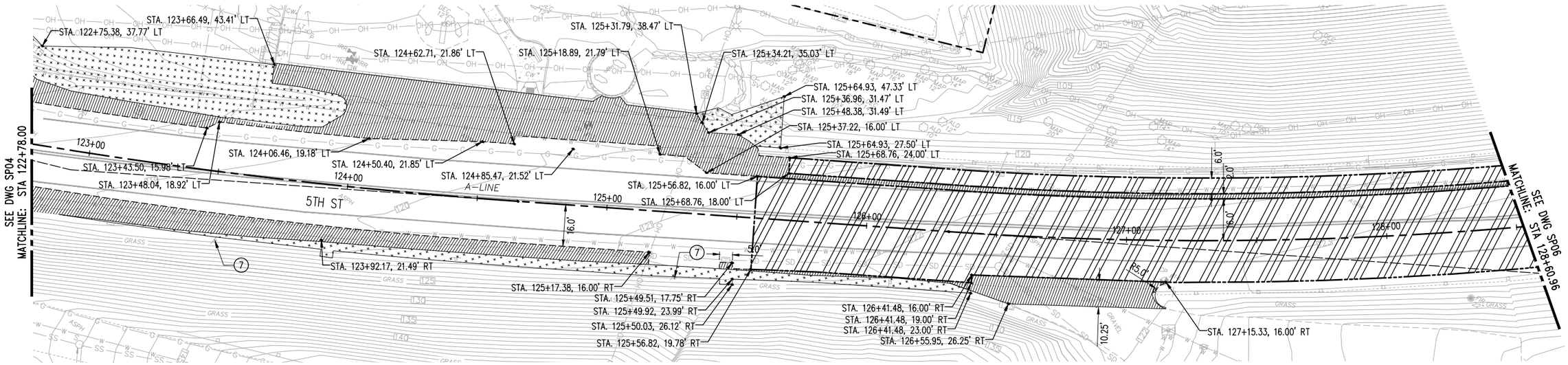

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SITE PREPARATION PLAN

SHT. 12 OF 123

SP05

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tmg
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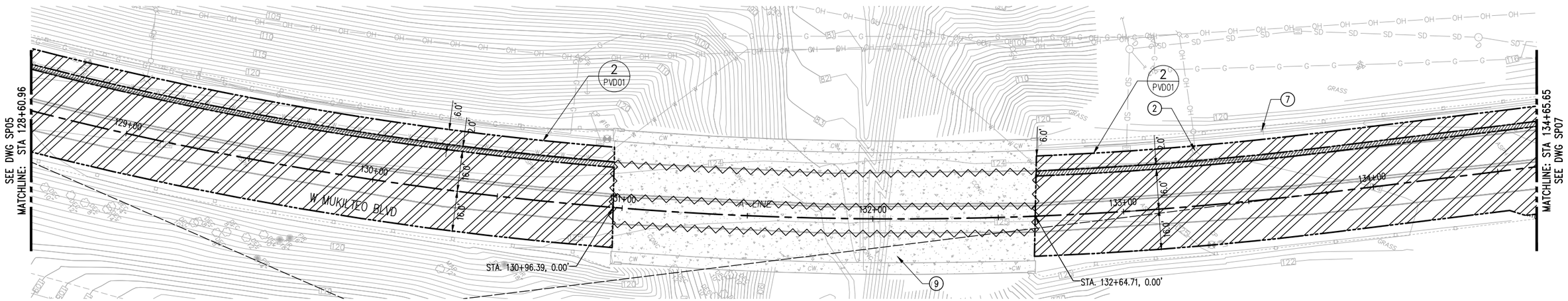

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SITE PREPARATION PLAN

SHT. 13 OF 123

SP06

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tmg
Aug 19, 2022 - 6:54pm

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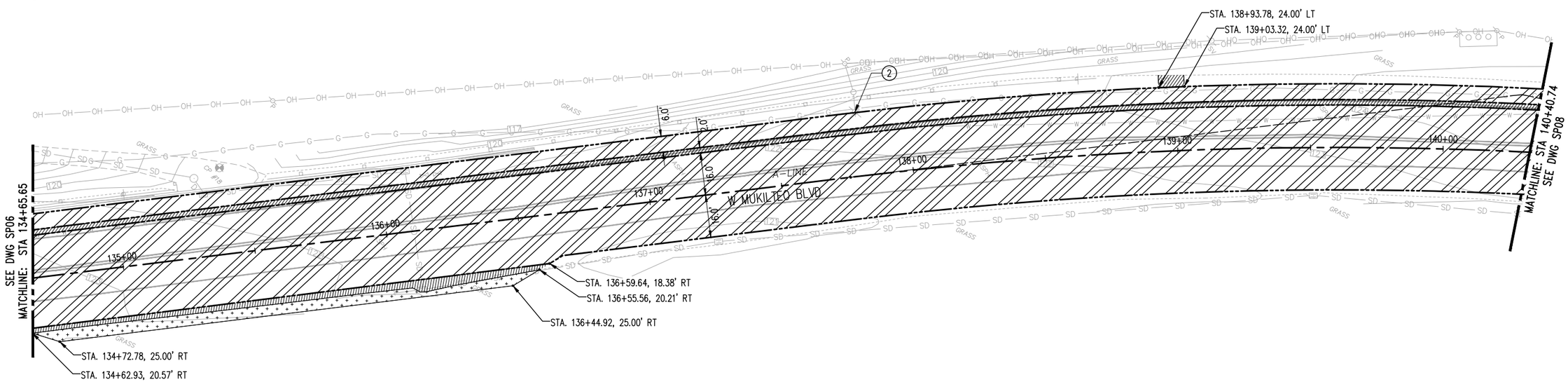

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7. TREES NOT CALLED OUT FOR REMOVAL SHALL BE PROTECTED

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
JOB No. :2000722

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SCALE: 1" = 20'

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MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

SITE PREPARATION PLAN

SP07

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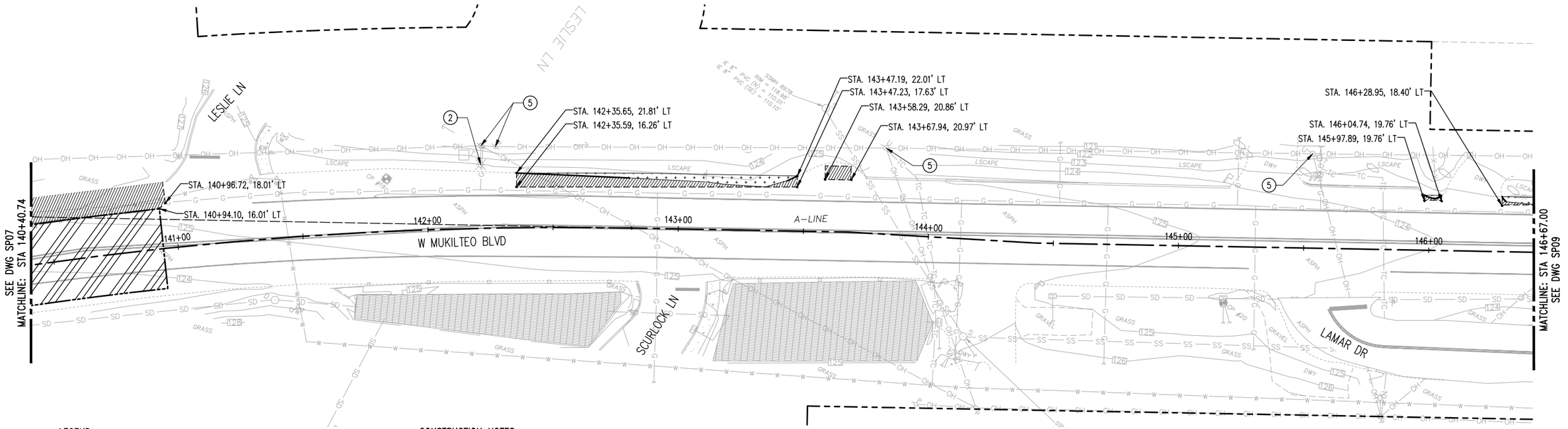
S34 T29N R4E W.M.



LEGEND

- RIGHT-OF-WAY
- SAWCUT
- REMOVE CURB OR CURB AND GUTTER
- REMOVE STORM DRAIN PIPE
- REMOVE STRUCTURE OR OBSTRUCTION NOTED
- ROADWAY EXCAVATION INCL. HAUL
- CLEARING AND GRUBBING
- PLANING BITUMINOUS PAVEMENT HATCH

CONSTRUCTION NOTES

1. REMOVE FENCE
2. REMOVE LUMINAIRE
3. REMOVE CEMENT CONCRETE STAIRS
4. PROTECT EX. WALL
5. PROTECT EX. POWER POLE
6. PROTECT EX. FENCE
7. REMOVE EX. SIGN
8. REMOVE GUARDRAIL
9. REMOVE PLASTIC LINE
10. RELOCATE EX. MAILBOX, SEE PAVING PLANS
11. REMOVE CURB AND GUTTER

GENERAL NOTES

1. FOR DRAINAGE REMOVAL, ADJUSTMENTS, AND RELOCATES, SEE DRAINAGE PLANS
2. TREE REMOVAL IS INCLUDED IN CLEARING AND GRUBBING
3. ALL UTILITY CASTINGS TO BE PROTECTED IN PLACE
4. TRIMMING EXISTING VEGETATION WITHIN THE PUBLIC ROW AS NEEDED TO PERFORM WORK IS ACCEPTABLE WITH PRIOR APPROVAL OF THE RESIDENT ENGINEER
5. EXISTING OVERHEAD UTILITY WIRES EXIST WITHIN THE PROJECT CORRIDOR
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SHT. 15 OF 123

SP08

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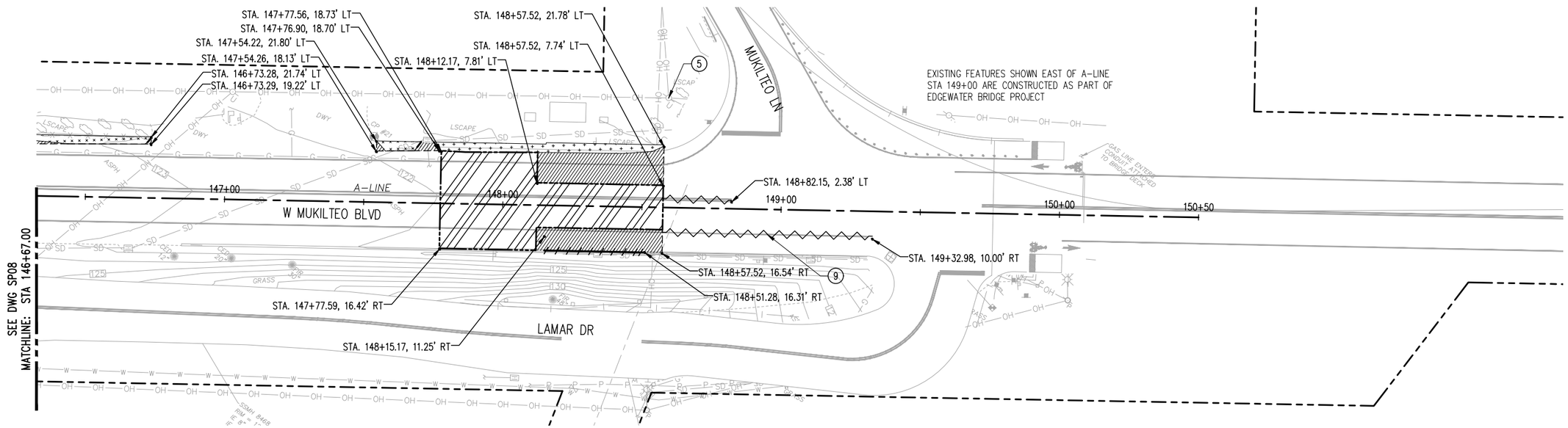

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3. REMOVE CEMENT CONCRETE STAIRS
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5. PROTECT EX. POWER POLE
6. PROTECT EX. FENCE
7. REMOVE EX. SIGN
8. REMOVE GUARDRAIL
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SP09

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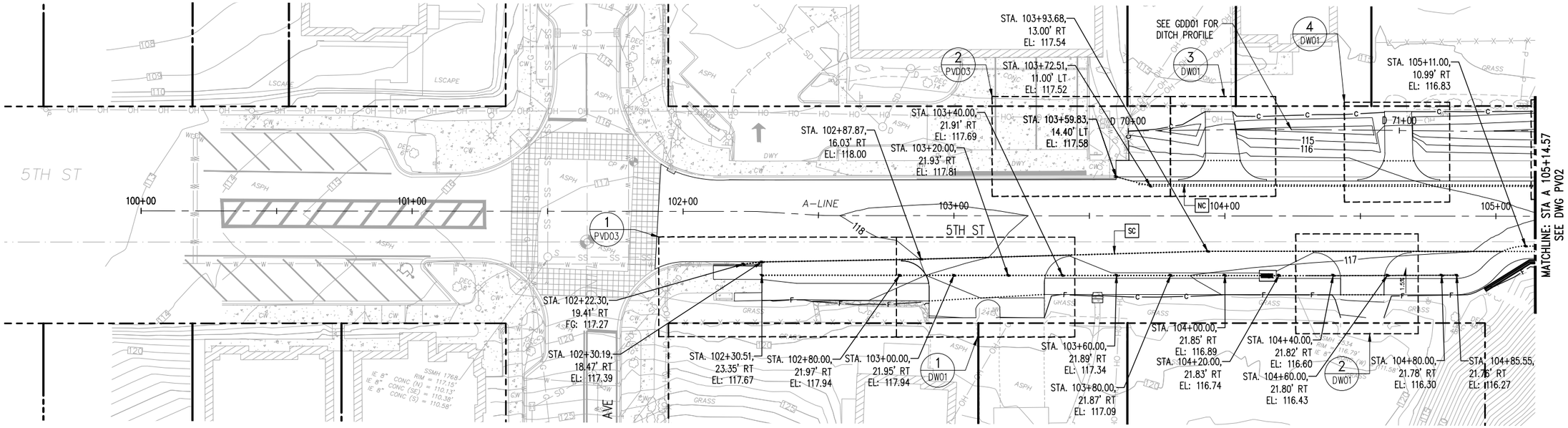

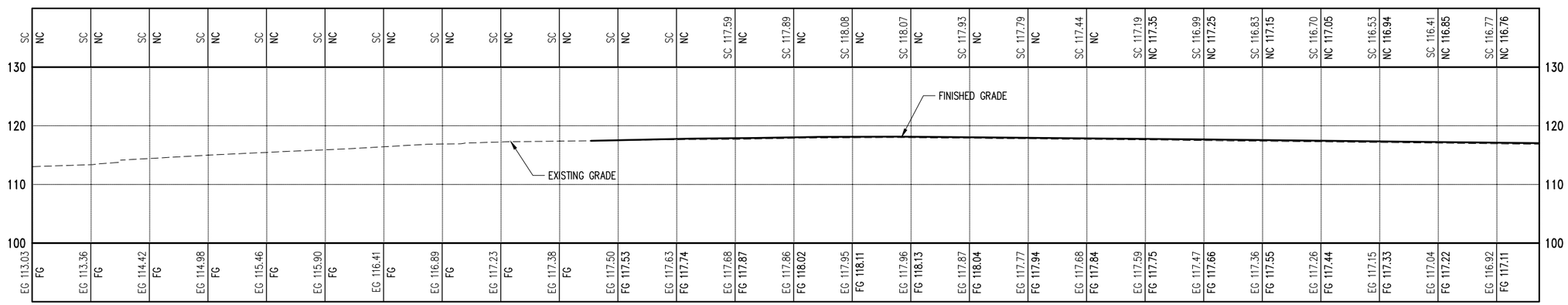

LEGEND

..... GRADE BREAK LINE (GB)

NOTES

1. SEE PAVING PLANS FOR PAVING LIMITS
2. SEE DRIVEWAY DETAILS FOR DRIVEWAY GRADING
3. SEE INTERSECTION DETAILS FOR INTERSECTION GRADING

N

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GD01

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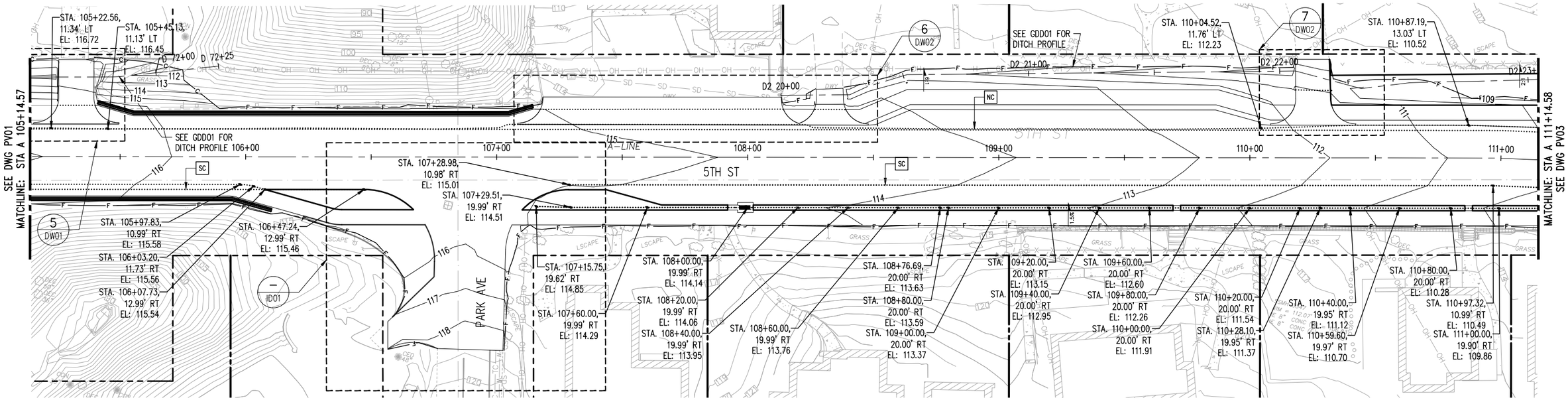

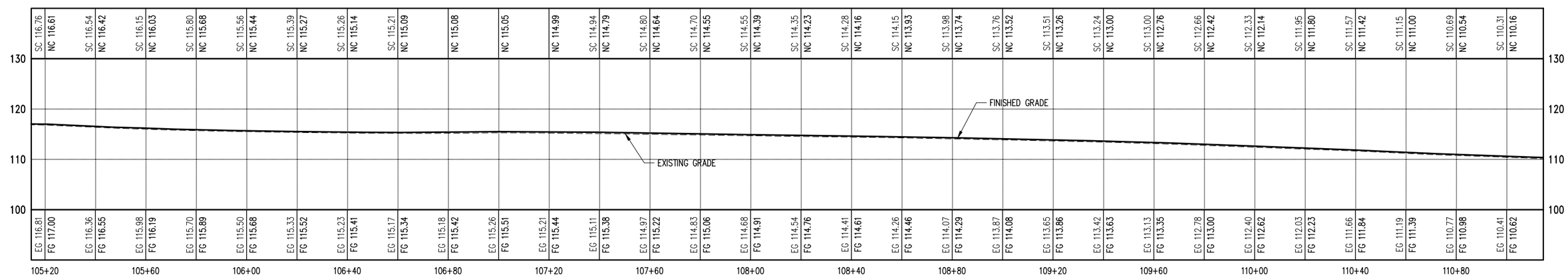

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GD02

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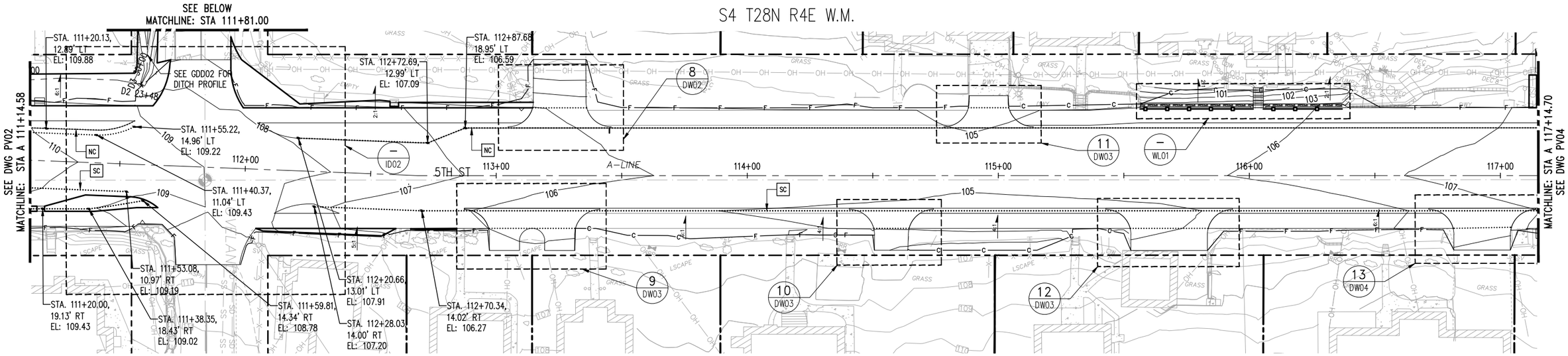

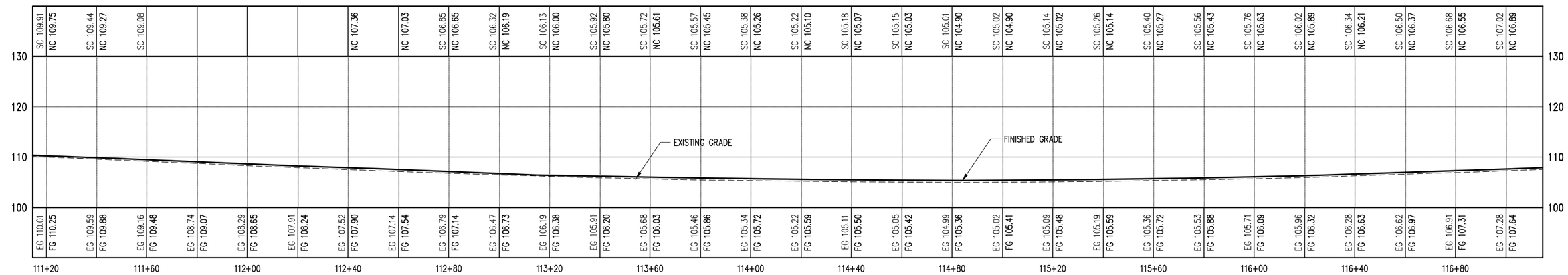

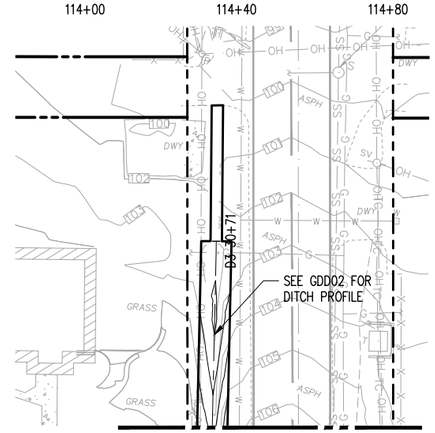

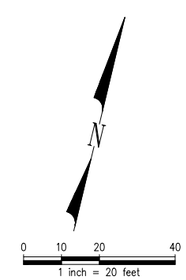

LEGEND

..... GRADE BREAK LINE (GB)

NOTES

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GD03

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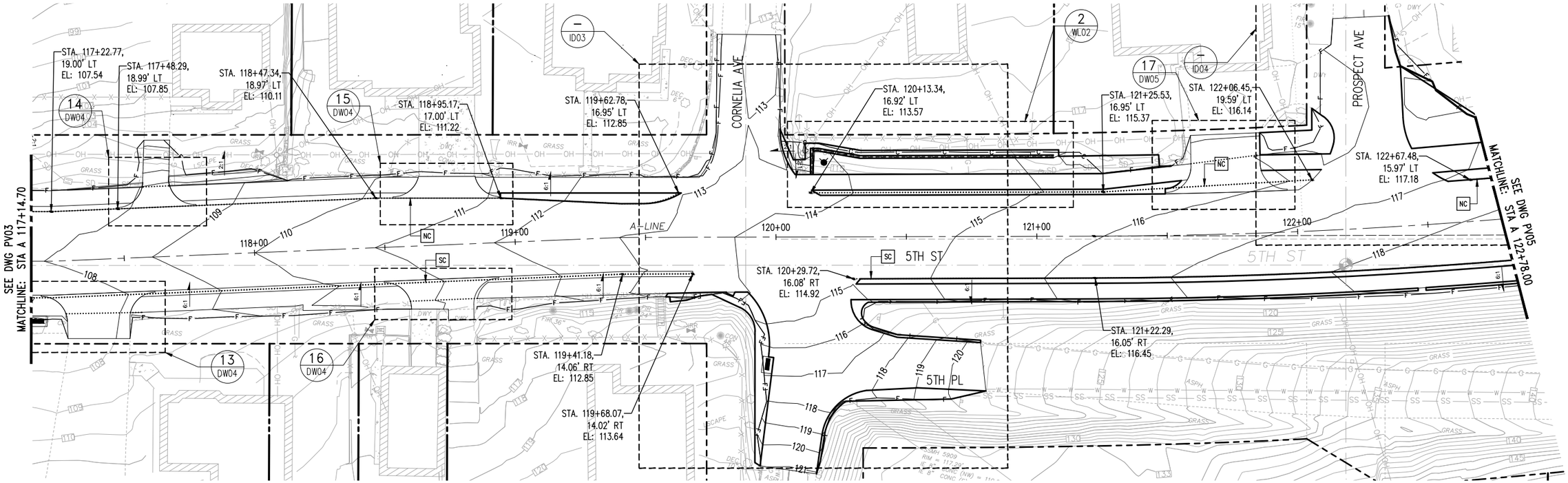

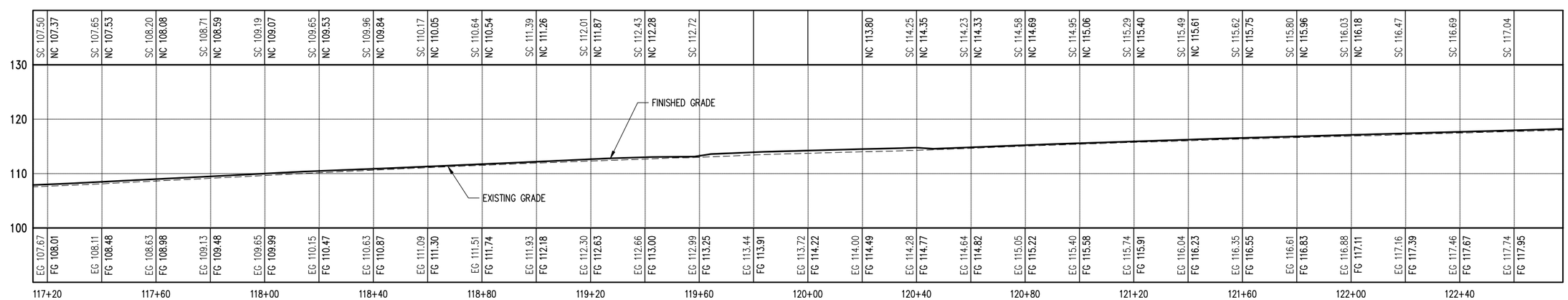

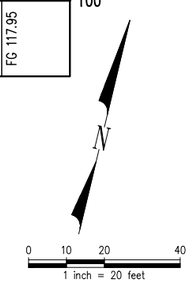

LEGEND

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NOTES

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SCALE: 1" = 20'

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GD04

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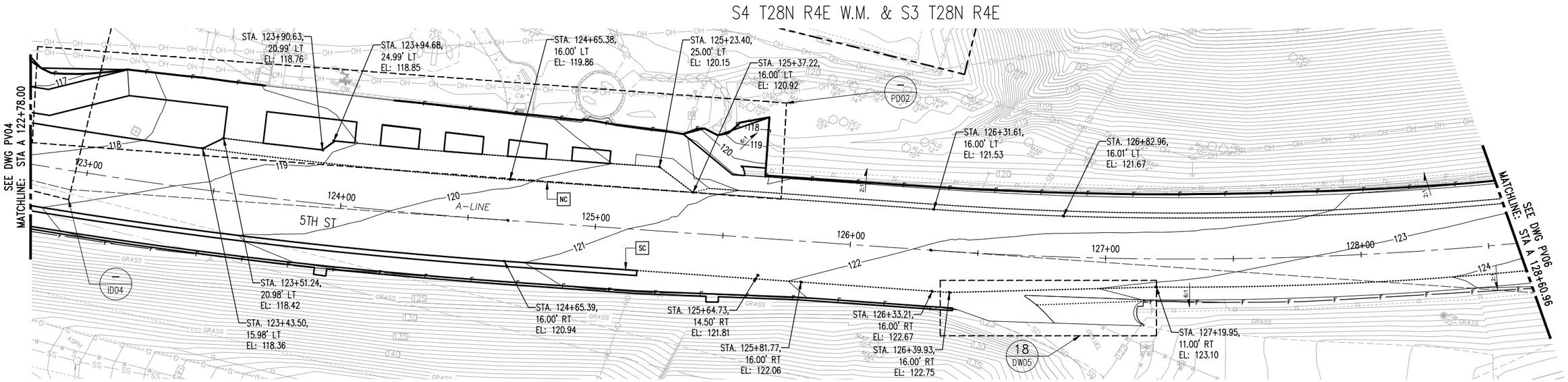

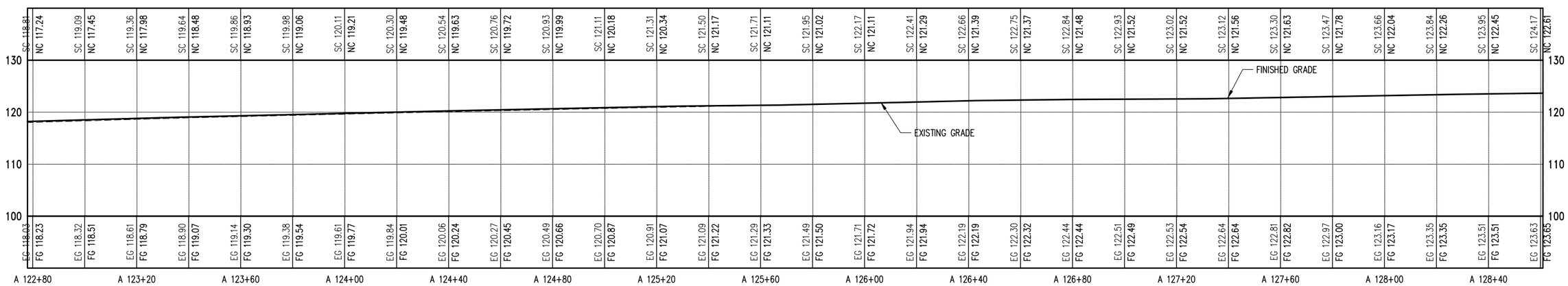

LEGEND

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GD05

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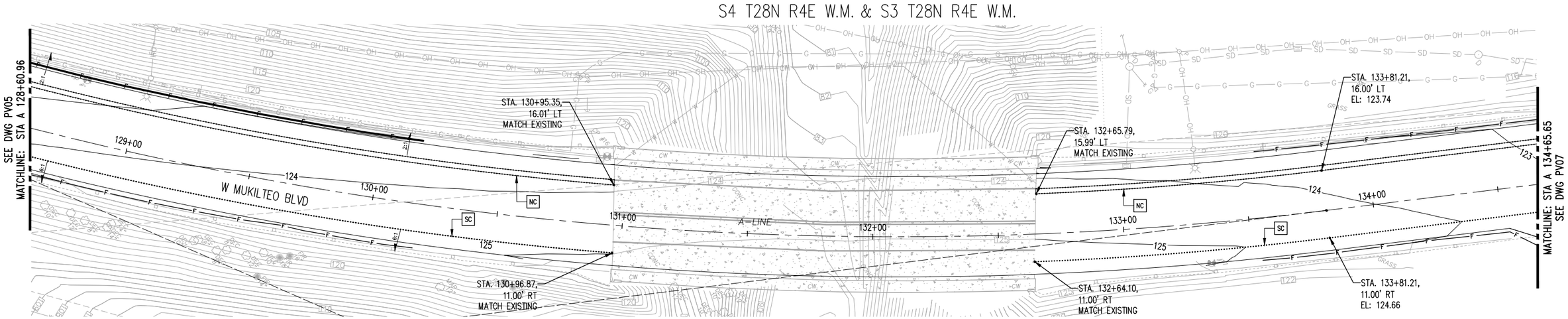

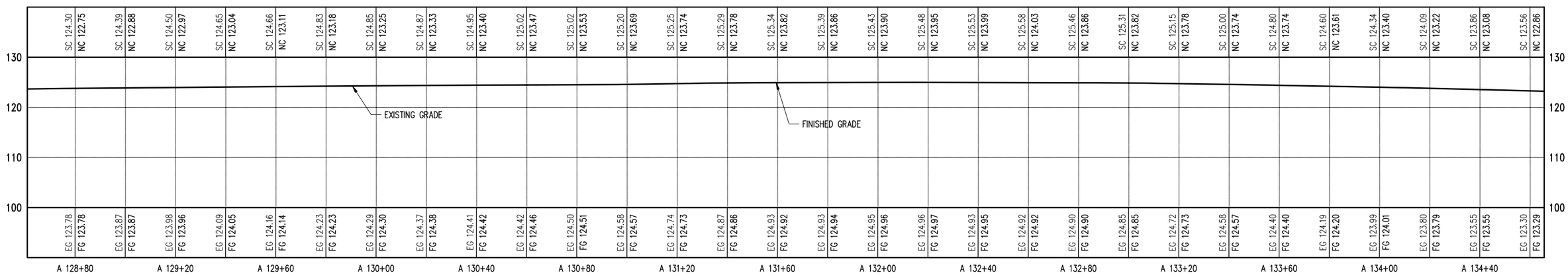

LEGEND

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GD06

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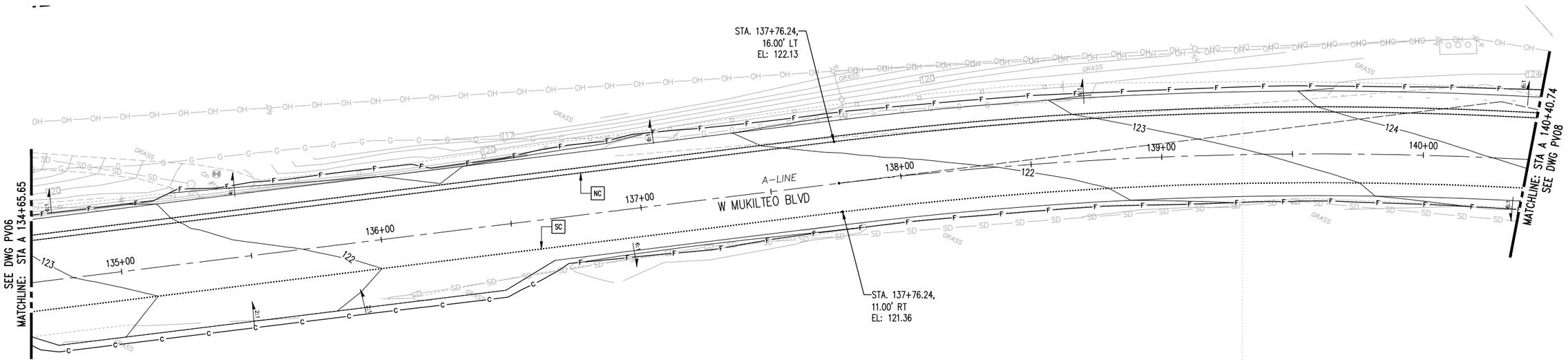

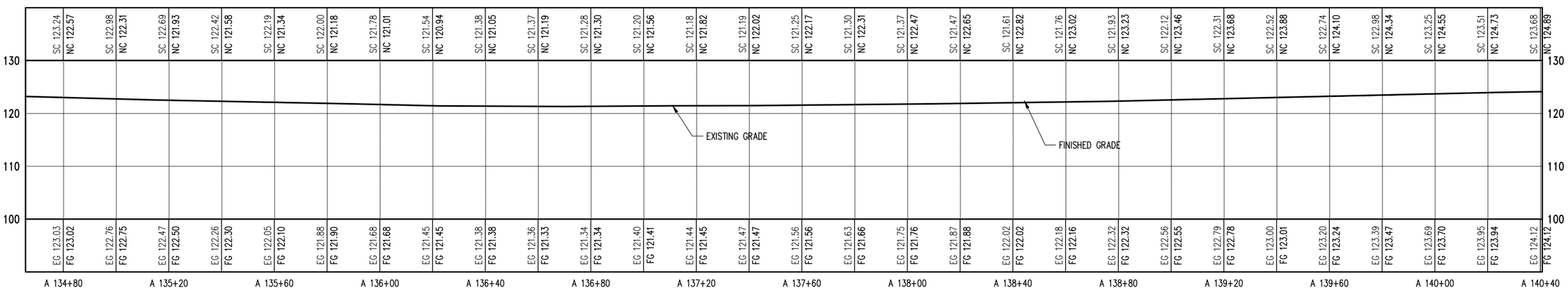

LEGEND

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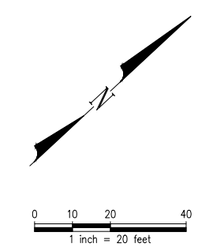

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GD07

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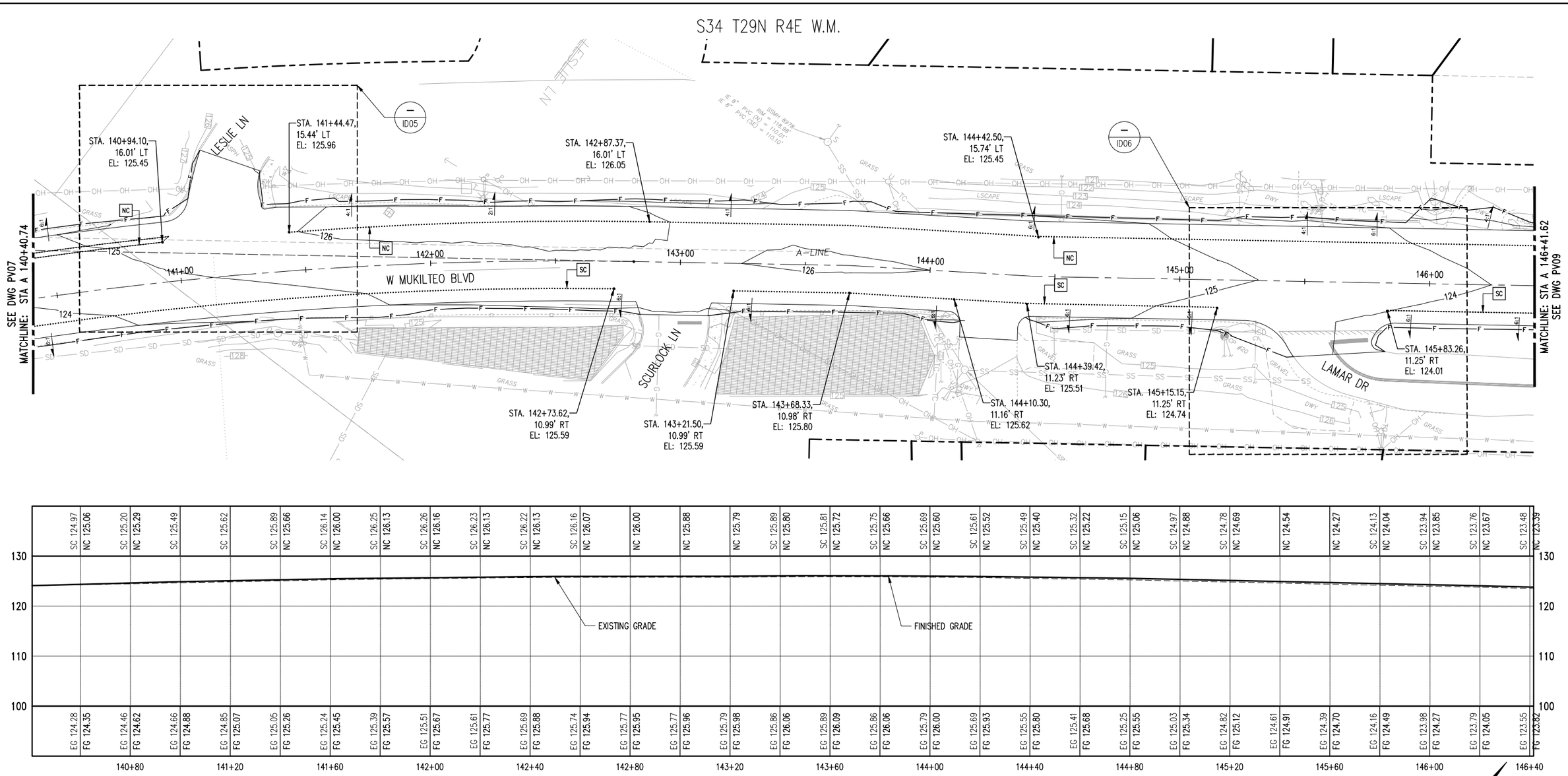

LEGEND

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GD08

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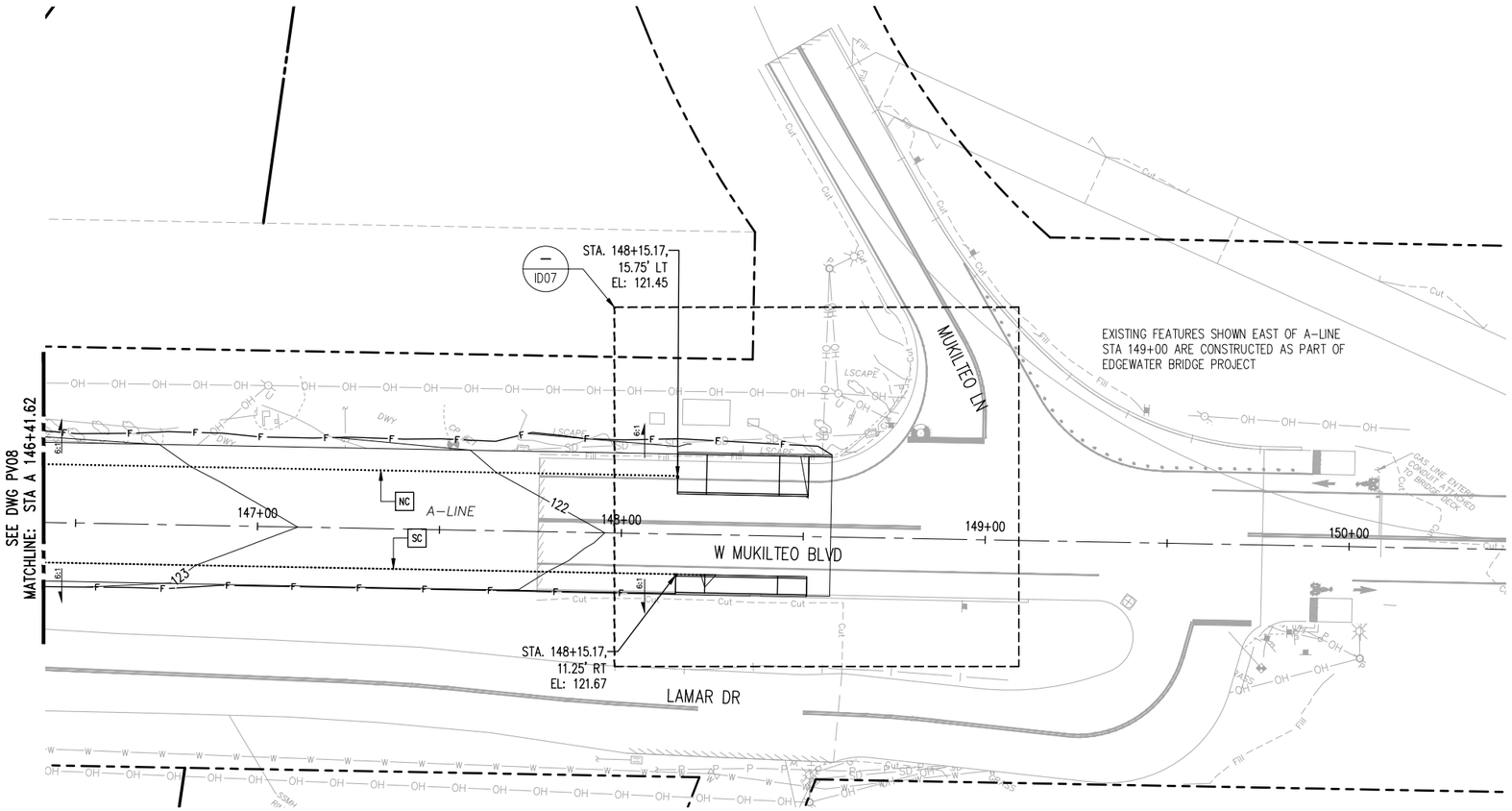

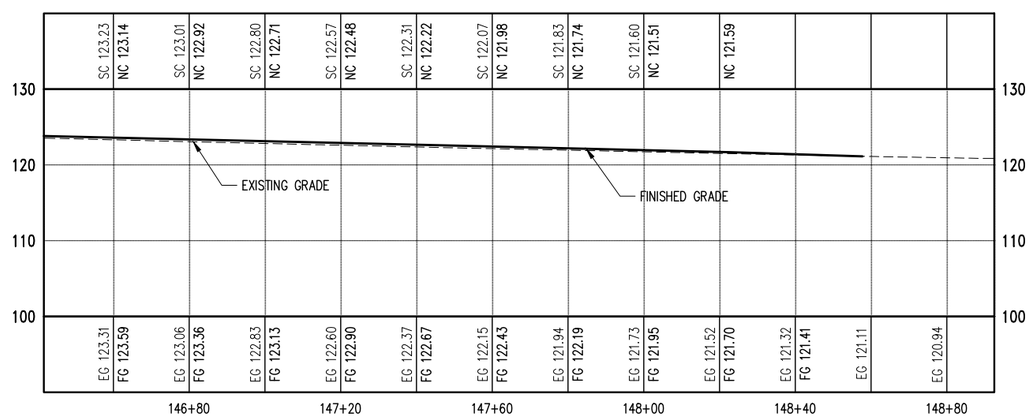

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GRADING PLAN

SHT. 25 OF 123

GD09

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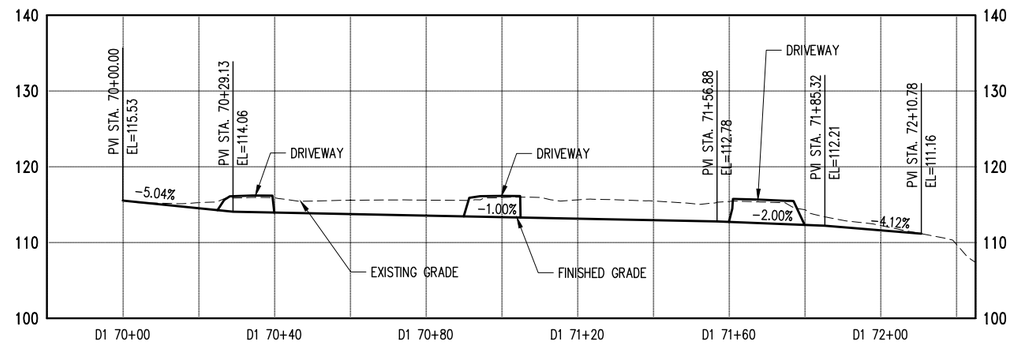
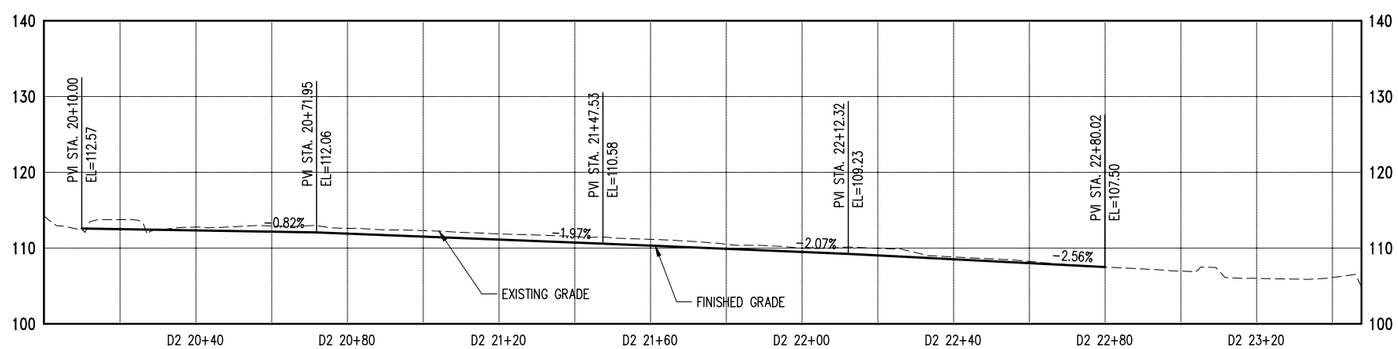


DITCH-1 (1)
H: 20' V: 10'
GD01-GD02



DITCH-2 (2)
H: 20' V: 10'
GD02-GD03

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY JMM | APPROVED BY JGM
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JOB No. :2000722

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SCALE: 1" = 20'

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GRADING DETAILS

SHT. 26 OF 123

GDD01

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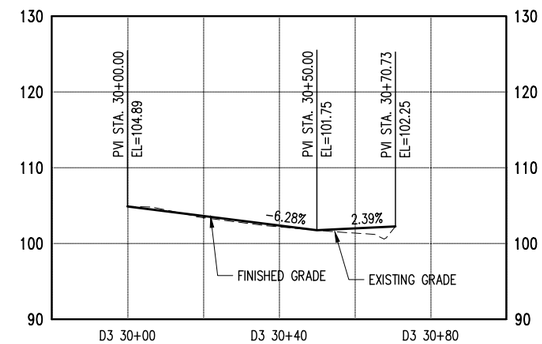

DITCH-3
H: 20' V: 10'

3
GD03

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GRADING DETAILS

SHT. 27 OF 123

GDD02

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EROSION AND SEDIMENT CONTROL NOTES

1. APPROVAL OF THIS EROSION/SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESGIN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).
2. THE IMPLEMENTATION OF THIS ESC PLAN AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BMPS IS THE RESPONSIBILITY OF THE APPLICANT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. CLEARLY FLAG THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THE SITE PREP PLAN IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT FOR THE DURATION OF CONSTRUCTION.
4. CONSTRUCT THE ESC BMPS SHOWN ON THIS PLAN IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC BMPS SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE ESC BMPS AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. THE APPLICANT SHALL INSPECT THE ESC BMPS DAILY AND MAINTAIN THEM AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. INSPECT AND MAINTAIN THE ESC BMPS ON INACTIVE SITE A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT (I.E. 24-HOUR STORM EVENT WITH A 10-YR OR GREATER RECURRANCE INTERVAL).
8. AT NO TIME SHALL THE SEDIMENT EXCEED 60-PERCENT OF THE SUMP DEPTH OR HAVE LESS THAN 6-INCHES OF CLEARANCE FROM SEDIMENT SURFACE TO THE INVERT OF THE LOWEST PIPE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. CLEARED AND EXPOSED SLOPES SHALL BE STABILIZED AND COVERED BY A PLASTIC COVERING IF LEFT EXPOSED FOR MORE THAN 7 DAYS DURING THE DRY SEASON (MAY 1 – SEPTEMBER 30) OR MORE THAN 2 DAYS DURING THE WET SEASON (OCTOBER 1 – APRIL 30).

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EROSION AND SEDIMENT CONTROL NOTES

ECN01

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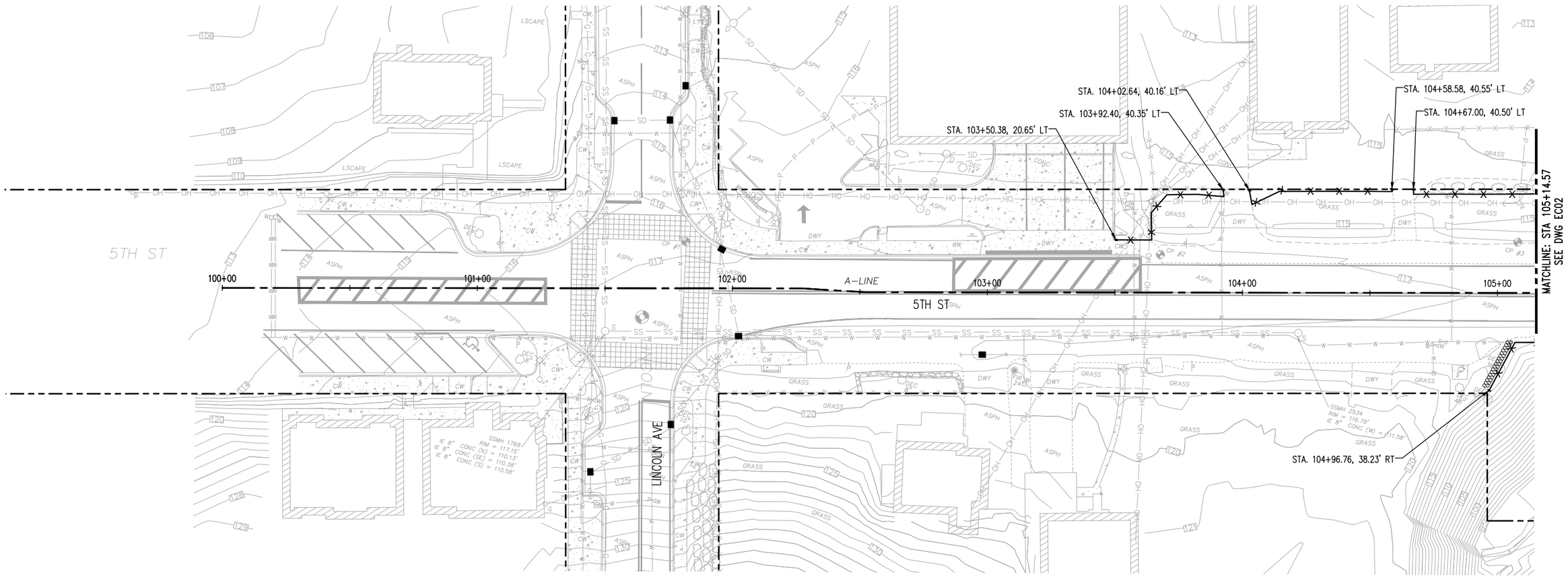

LEGEND

- RIGHT-OF-WAY
- SILT FENCE
- STRAW WATTLES
- INLET PROTECTION

GENERAL NOTES

1. PROTECT OPEN SLOPES WITH PLASTIC COVERING CONFORMING TO BMP C123 PER SWMMWW
2. INLET PROTECTION MUST CONFORM TO BMP C220 PER SWMMWW
3. SILT FENCE MUST CONFORM TO BMP C233 PER SWMMWW
4. WATTLES MUST CONFORM TO BMP C235 PER SWMMWW

N

0 10 20 40
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EC01

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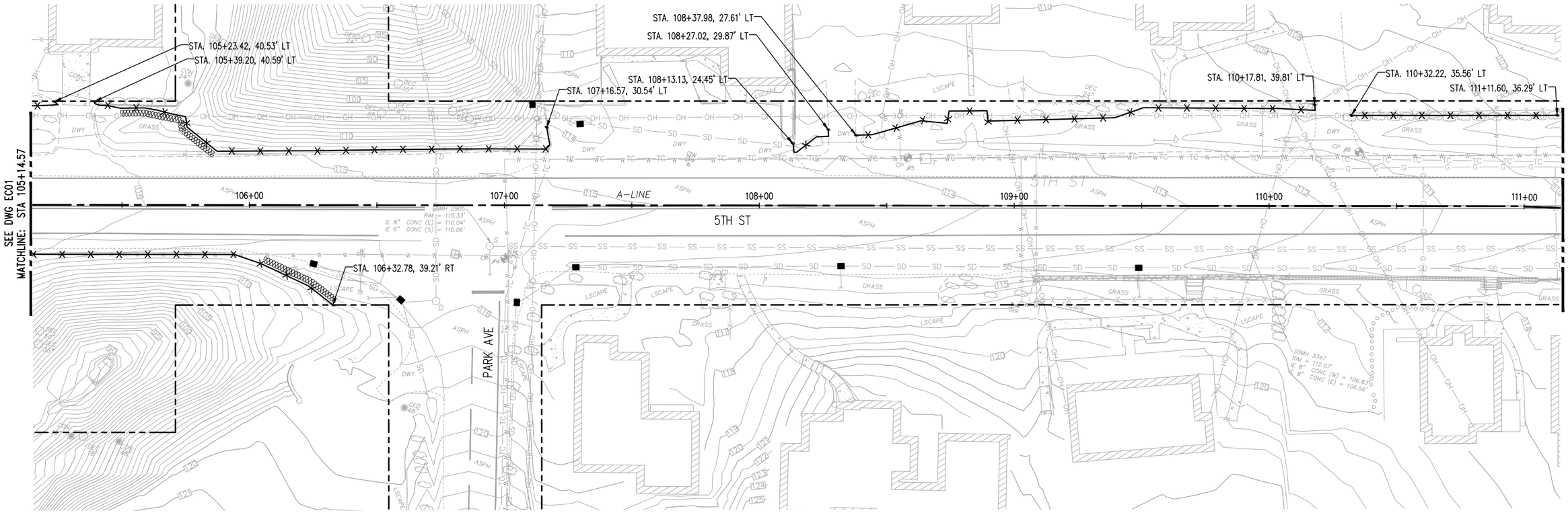

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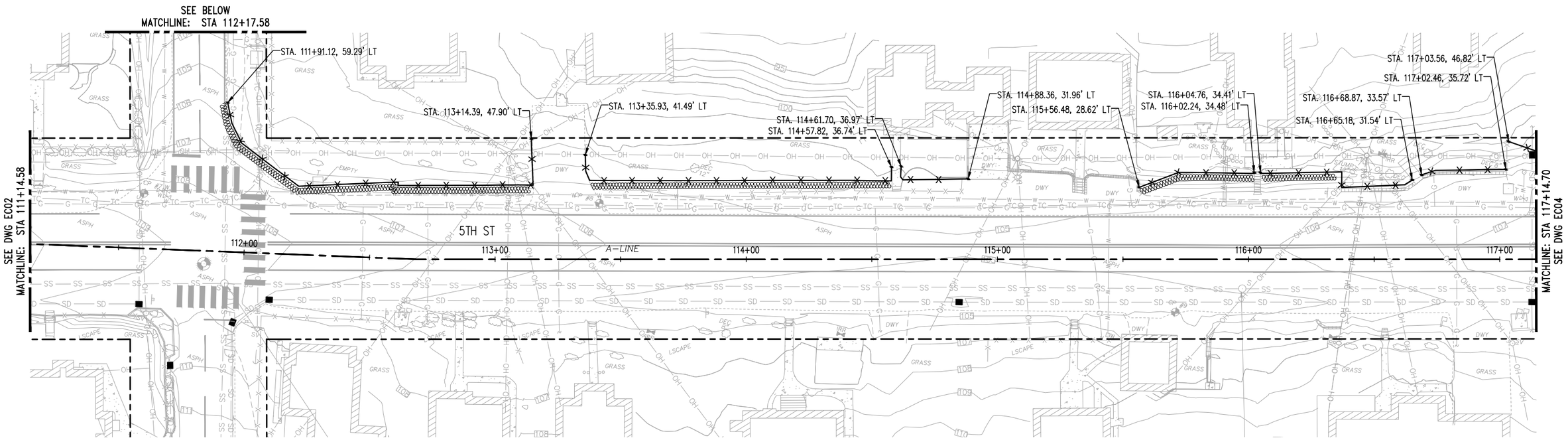

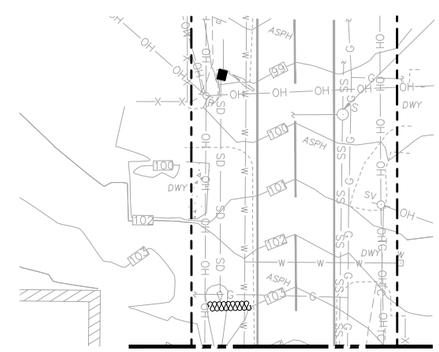

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EC03

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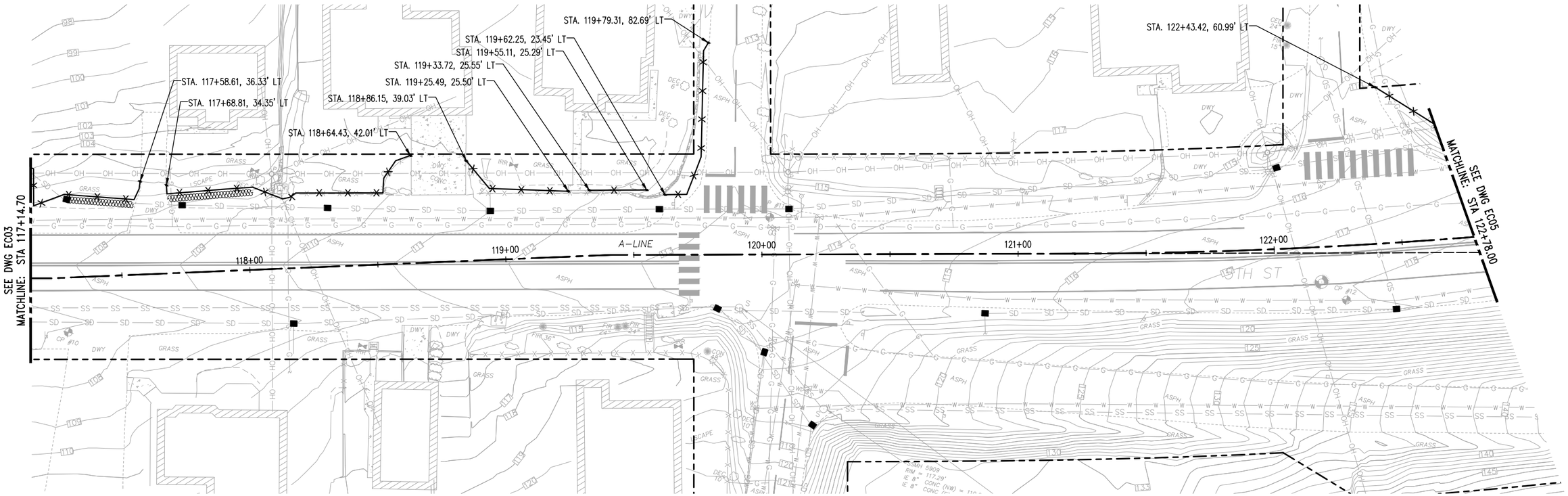

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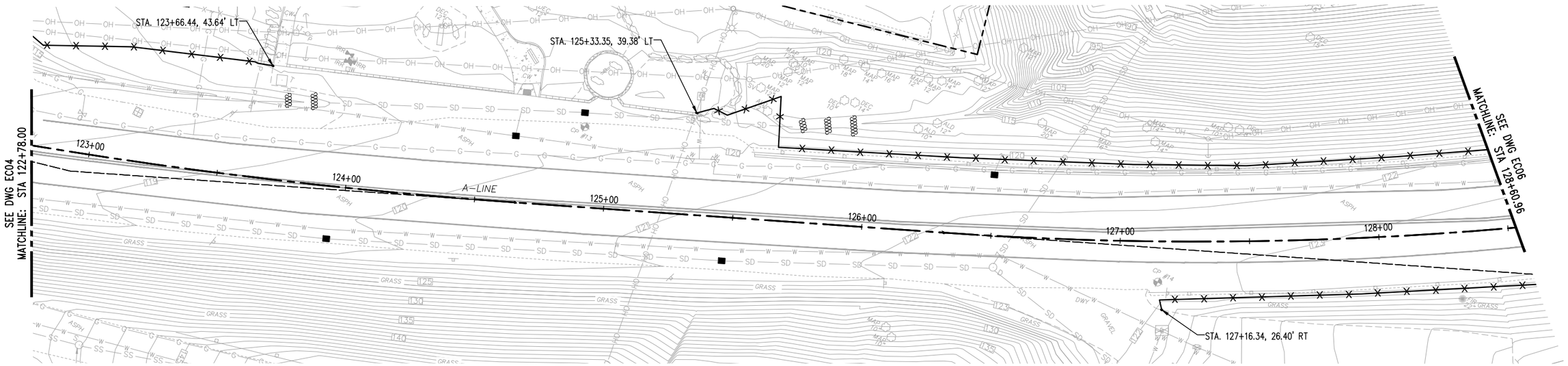

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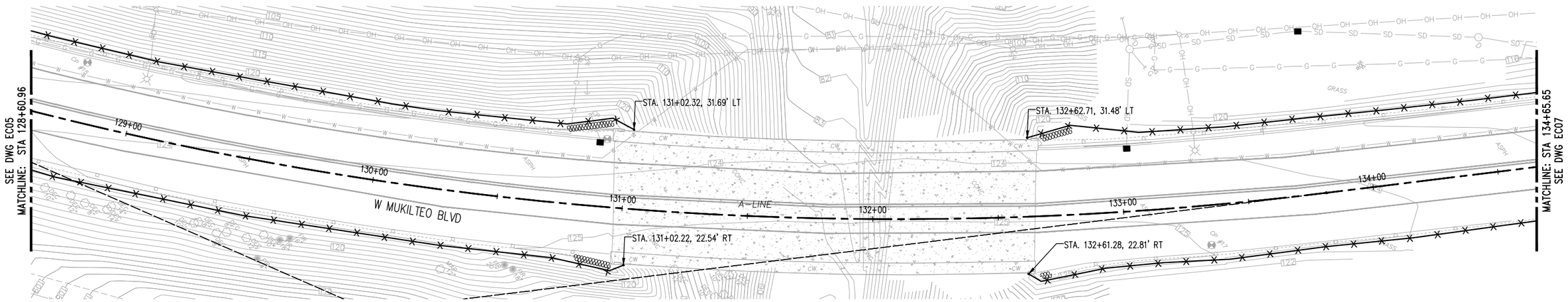

LEGEND

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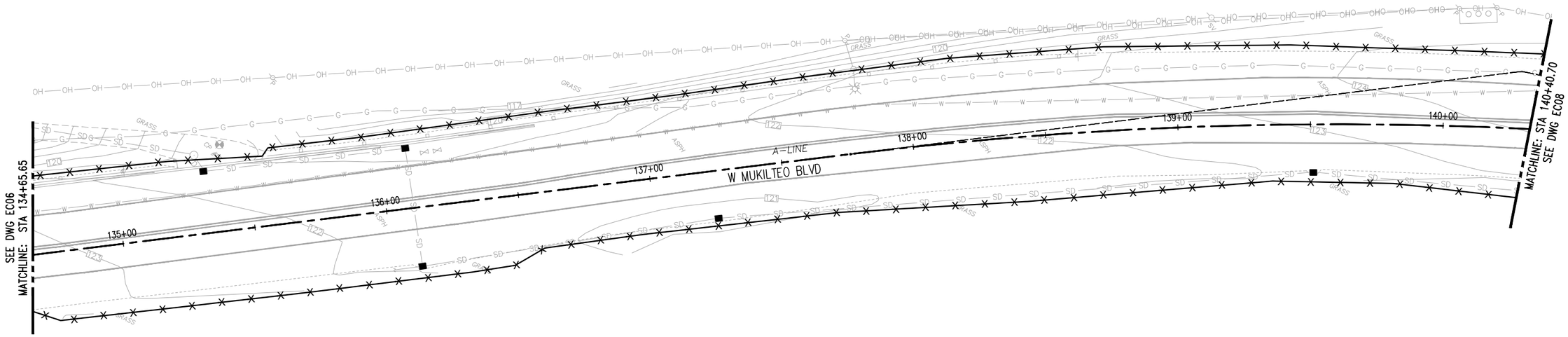

LEGEND

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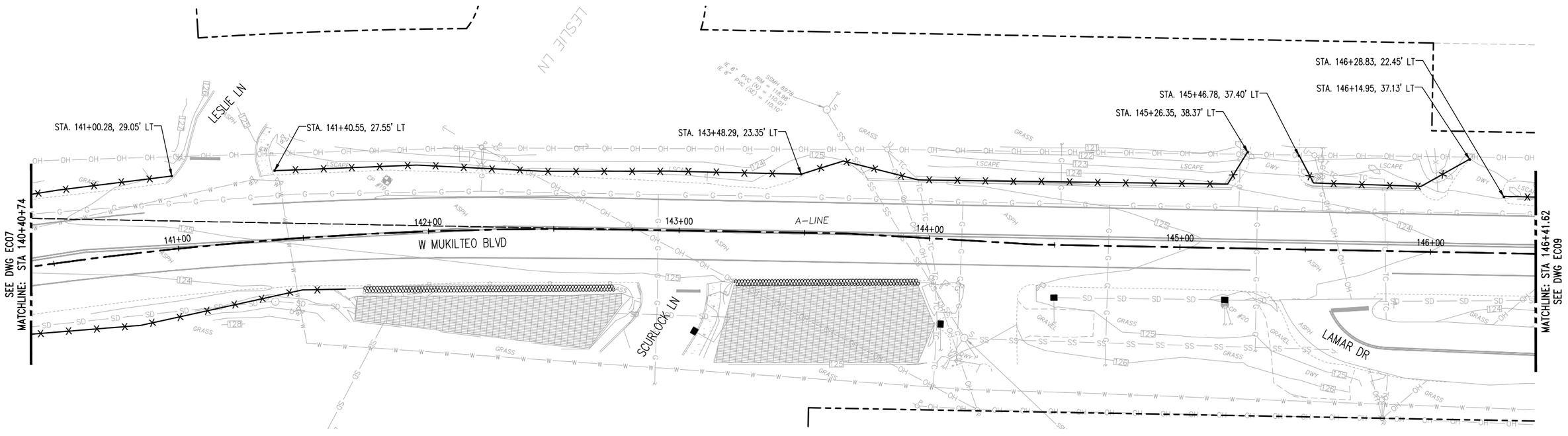

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EC08

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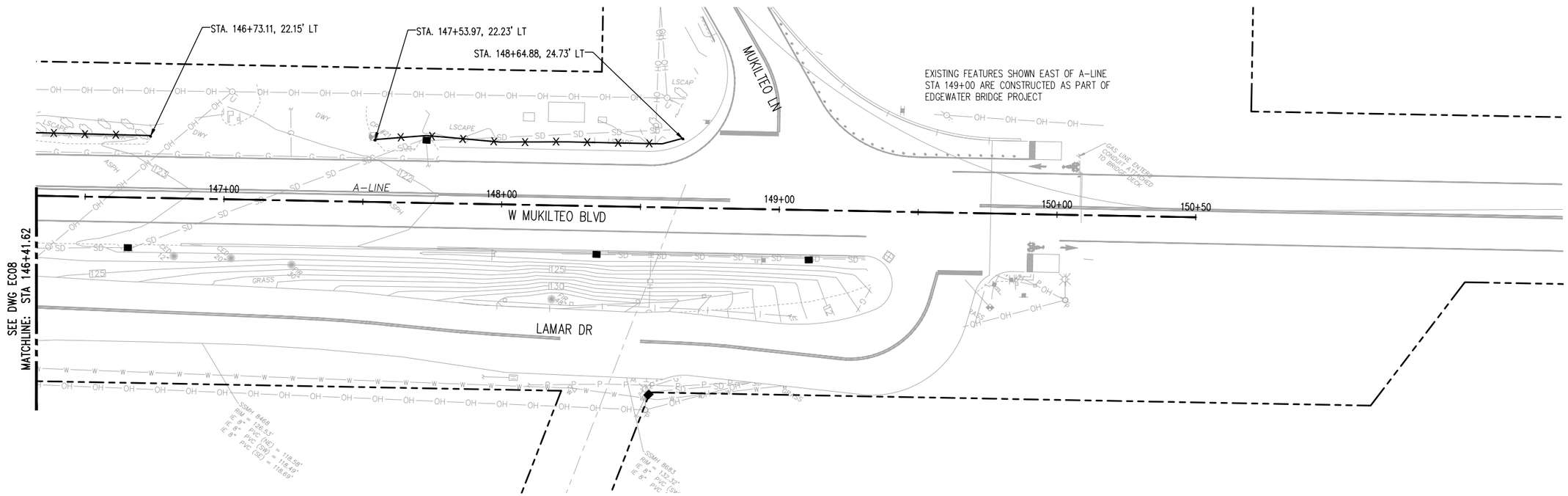

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SHT. 37 OF 123

EROSION AND SEDIMENT CONTROL PLAN

EC09

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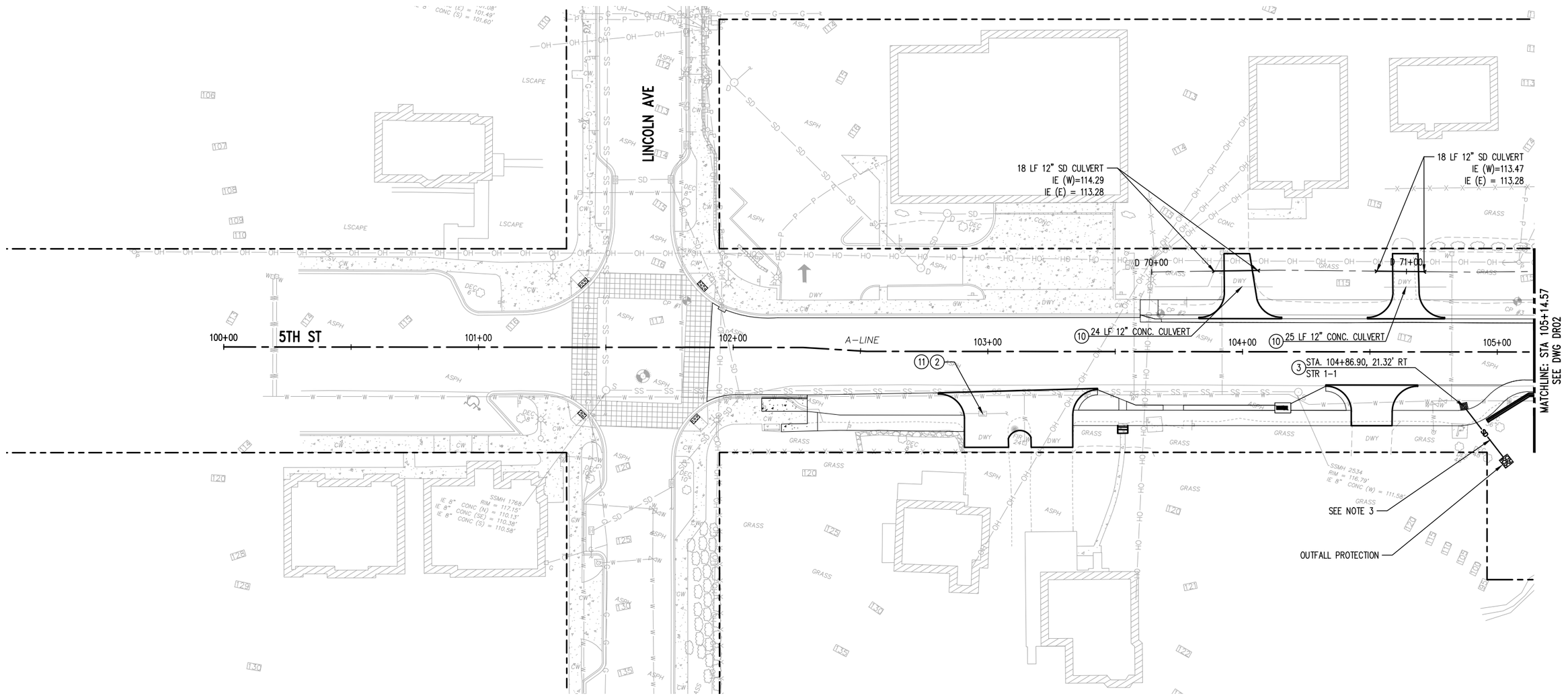

LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
- UNDERDRAIN CLEANOUT, SEE DD03
- OUTFALL PROTECTION, SEE DD03

NOTES

1. STATION & OFFSETS ARE TO CENTER OF DRAINAGE STRUCTURE. SEE DD1 FOR TYPE 2 CATCH BASIN.
2. STORM AND CULVERT PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE PIPE (PVC), LINED CORRUGATED POLYETHYLENE (LCPE), SMOOTH WALL POLYETHELYNE (SWPE), HIGH DENSITY POLYETHYLENE (HDPE), OR DUCTILE IRON FOR AREAS WHERE EXISTING IMPROVEMENTS PROHIBIT REQUIRED COVER ON OTHER PIPE MATERIALS. ALL PIPES SHALL BE CONSISTENT WITH WSDOT STANDARD SPECIFICATION 7-04 UNLESS OTHERWISE NOTED. PIPE BEDDING PER WSDOT STANDARD SPECIFICATION 9-03.
3. EXISTING OUTFALL PIPE LOCATION NOT INCLUDED IN SURVEY. OUTFALL LOCATION SHOWN IS A PLACEHOLDER THAT WILL BE UPDATED ONCE EXISTING PIPE LOCATION IS DETERMINED.

CONSTRUCTION NOTES

1. REMOVE DRAINAGE STRUCTURE
2. ADJUST CATCH BASIN
3. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
4. CATCH BASIN TYPE 1L PER WSDOT STD PLAN B-5.40-02
5. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
6. CONNECTION TO DRAINAGE STRUCTURE
10. ABANDON IN PLACE
11. RECTANGULAR SOLID METAL COVER PER WSDOT B-30.20-04
12. MODULAR WETLAND SYSTEM. SEE DD04 SHEETS FOR DETAILS
13. REMOVE STORM DRAIN PIPE. SEE SITE PREPARATION PLANS.

N

0 10 20 40
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J O B No. : 2000722

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S C A L E: 1" = 20'

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CITY OF MUKILTEO

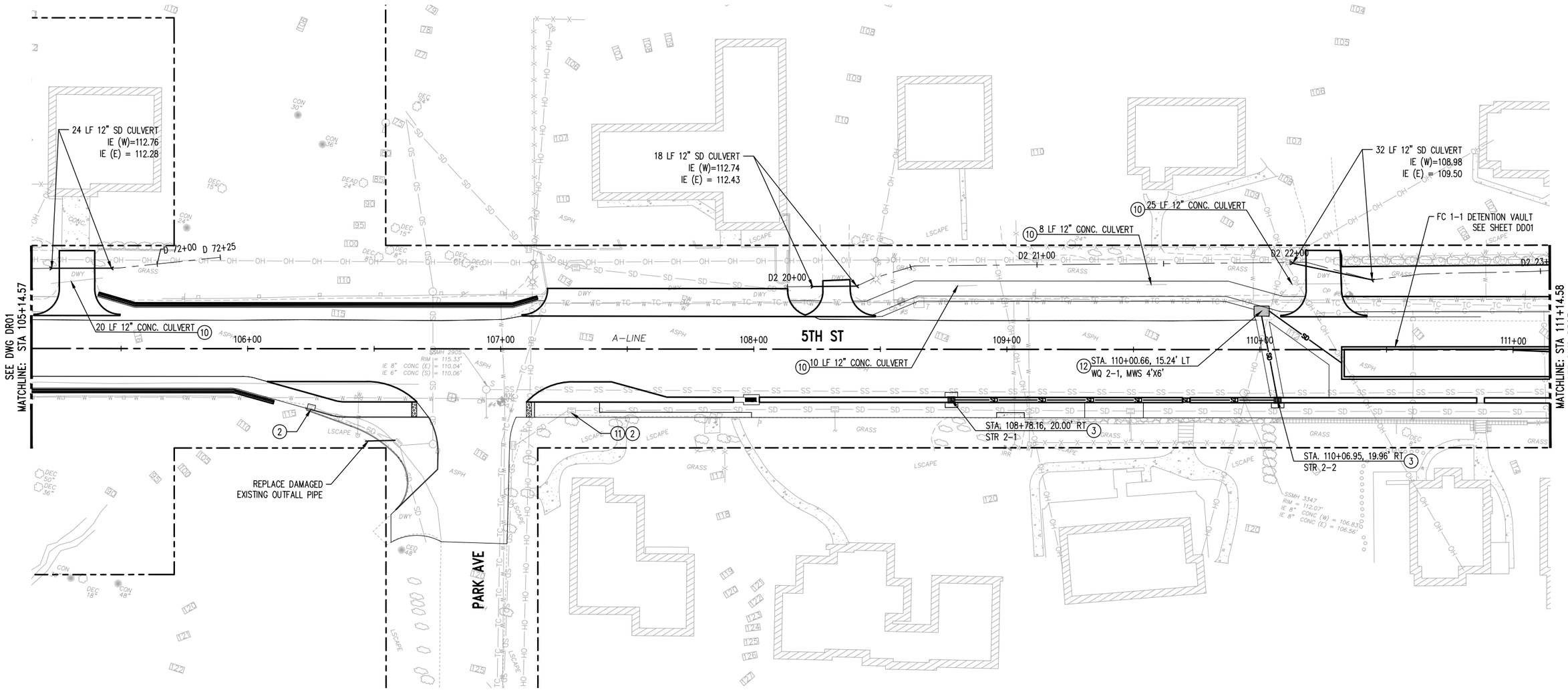
MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

DRAINAGE PLAN

DR01

Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - DR.dwg
tmg
Aug 19, 2022 - 7:14pm

S4 T28N R4E W.M.



LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
- UNDERDRAIN CLEANOUT, SEE DD03
- OUTFALL PROTECTION, SEE DD03

NOTES

1. STATION & OFFSETS ARE TO CENTER OF DRAINAGE STRUCTURE. SEE DD1 FOR TYPE 2 CATCH BASIN.
2. STORM AND CULVERT PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE PIPE (PVC), LINED CORRUGATED POLYETHYLENE (LCPE), SMOOTH WALL POLYETHELYNE (SWPE), HIGH DENSITY POLYETHYLENE (HDPE), OR DUCTILE IRON FOR AREAS WHERE EXISTING IMPROVEMENTS PROHIBIT REQUIRED COVER ON OTHER PIPE MATERIALS. ALL PIPES SHALL BE CONSISTENT WITH WSDOT STANDARD SPECIFICATION 7-04 UNLESS OTHERWISE NOTED. PIPE BEDDING PER WSDOT STANDARD SPECIFICATION 9-03.
3. EXISTING OUTFALL PIPE LOCATION NOT INCLUDED IN SURVEY. OUTFALL LOCATION SHOWN IS A PLACEHOLDER THAT WILL BE UPDATED ONCE EXISTING PIPE LOCATION IS DETERMINED.

CONSTRUCTION NOTES

1. REMOVE DRAINAGE STRUCTURE
2. ADJUST CATCH BASIN
3. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
4. CATCH BASIN TYPE 1L PER WSDOT STD PLAN B-5.40-02
5. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
6. CONNECTION TO DRAINAGE STRUCTURE
10. ABANDON IN PLACE
11. RECTANGULAR SOLID METAL COVER PER WSDOT B-30.20-04
12. MODULAR WETLAND SYSTEM. SEE DD04 SHEETS FOR DETAILS
13. REMOVE STORM DRAIN PIPE. SEE SITE PREPARATION PLANS.

N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
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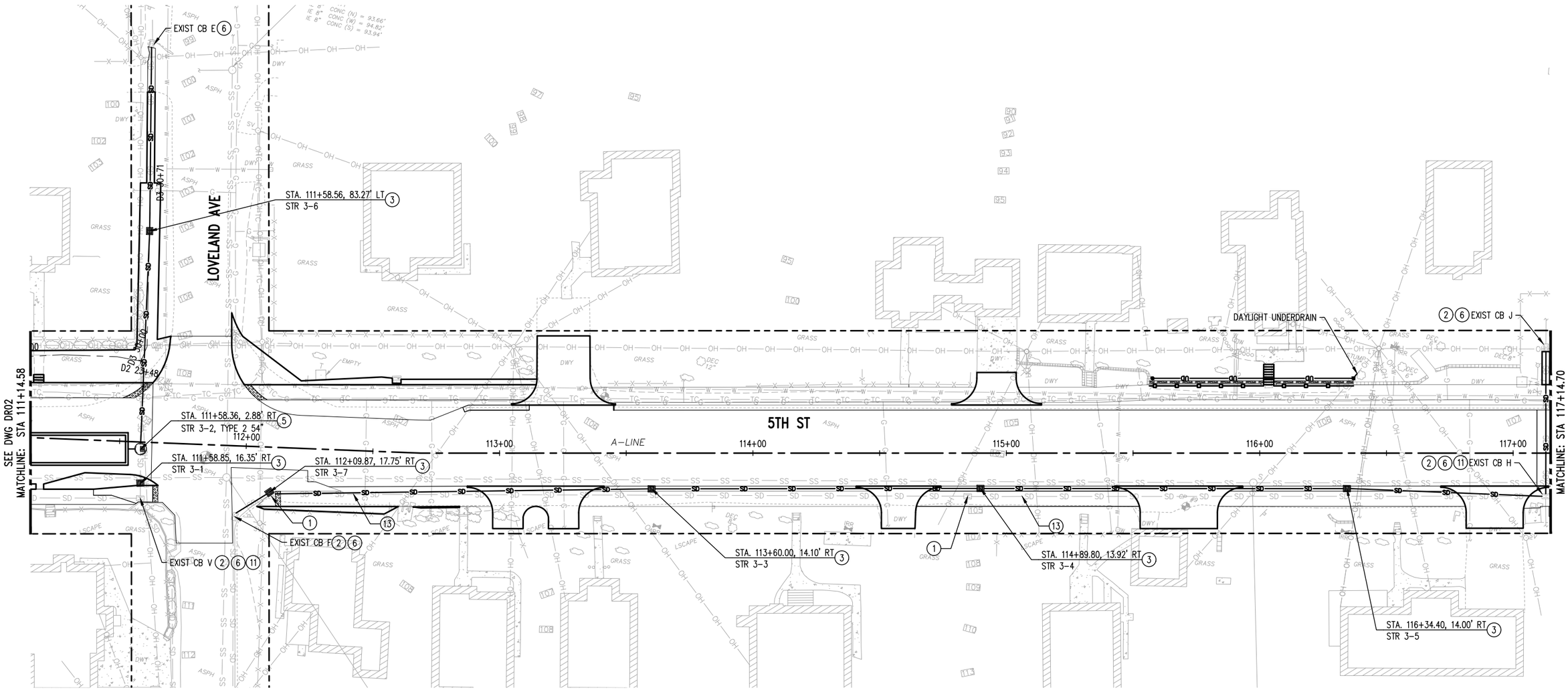
DRAINAGE PLAN

SHT. 39 OF 123

DR02

Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - DR.dwg timg Aug 19, 2022 - 7:14pm

S4 T28N R4E W.M.



LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
- UNDERDRAIN CLEANOUT, SEE DD03
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DRAINAGE PLAN

DR03

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tmg
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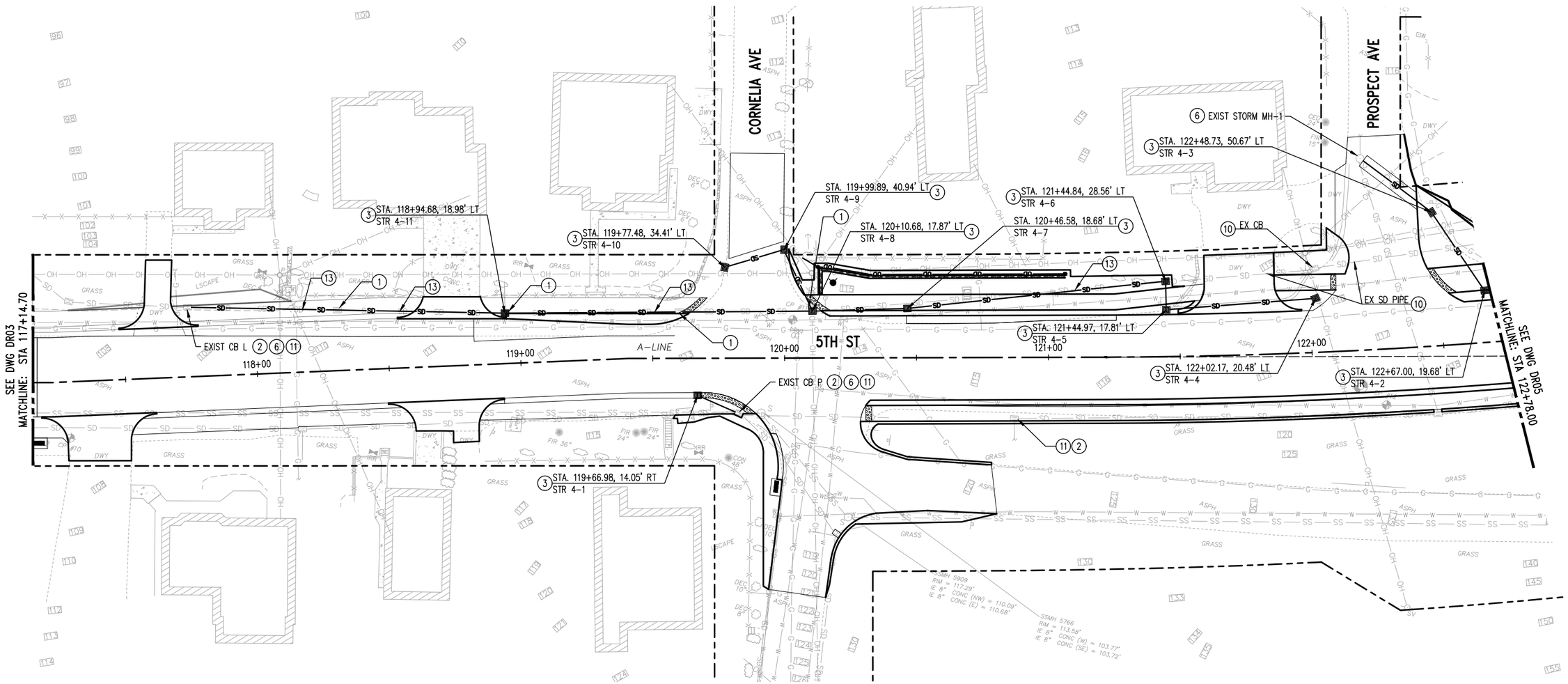

LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
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DRAINAGE PLAN

SHT. 41 OF 123

DR04

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tzmg
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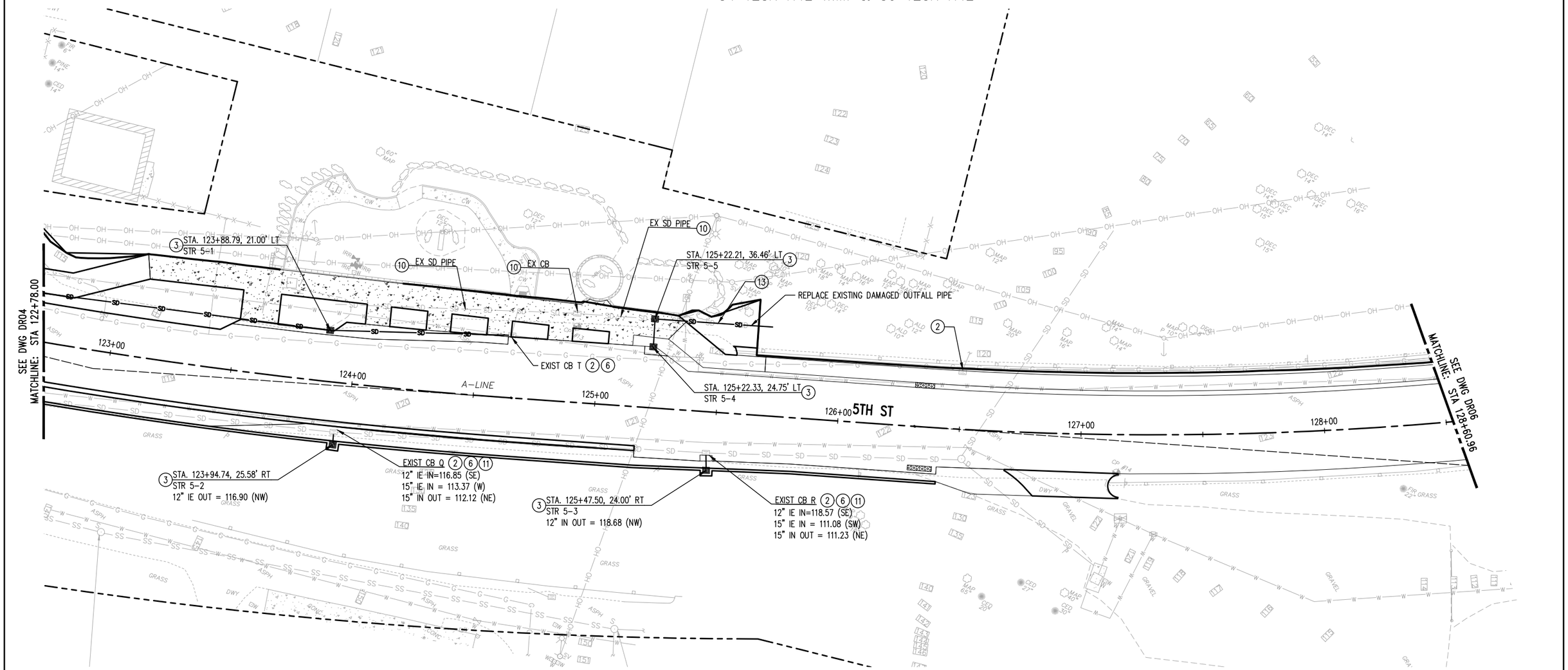
S4 T28N R4E W.M. & S3 T28N R4E



LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
- UNDERDRAIN CLEANOUT, SEE DD03
- OUTFALL PROTECTION, SEE DD03

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DRAINAGE PLAN

SHT. 42 OF 123

DR05

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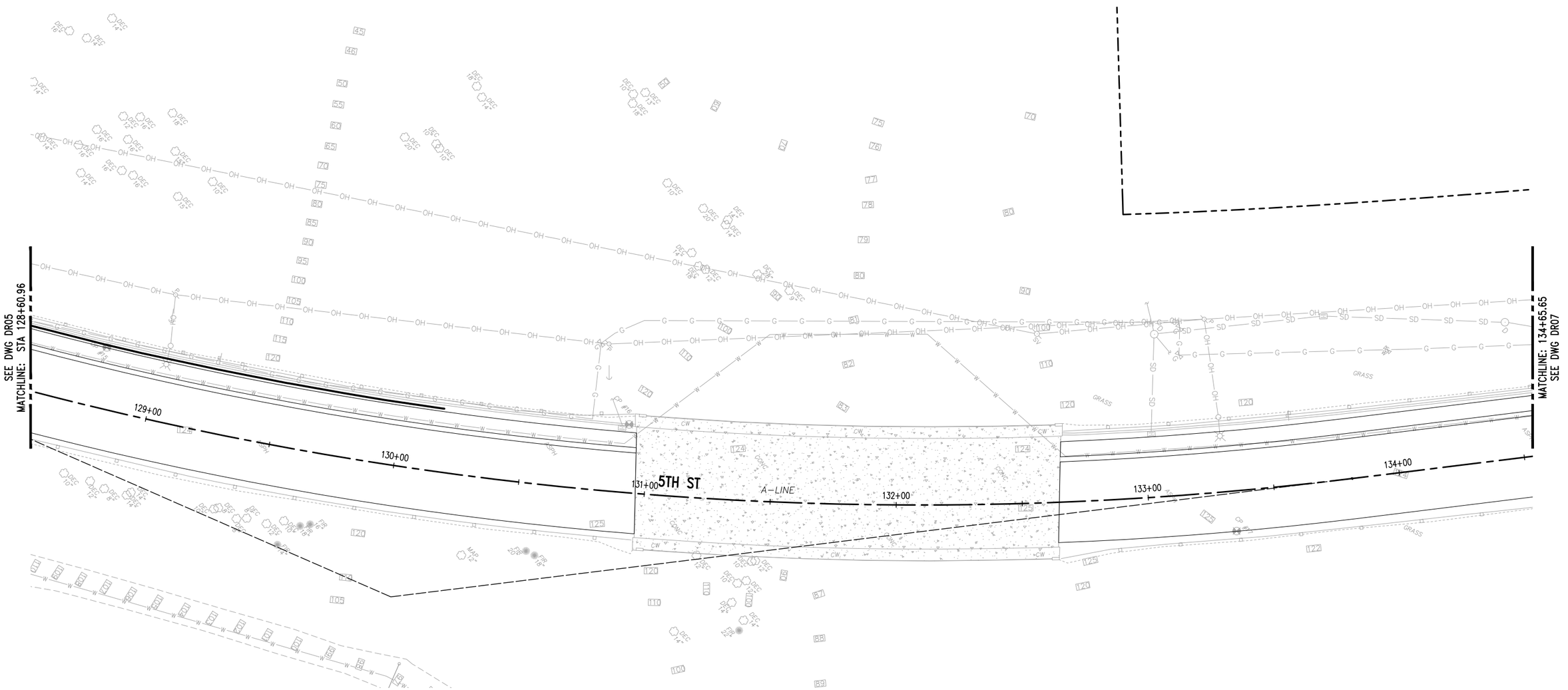

LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
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MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
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DRAINAGE PLAN

SHT. 43 OF 123

DR06

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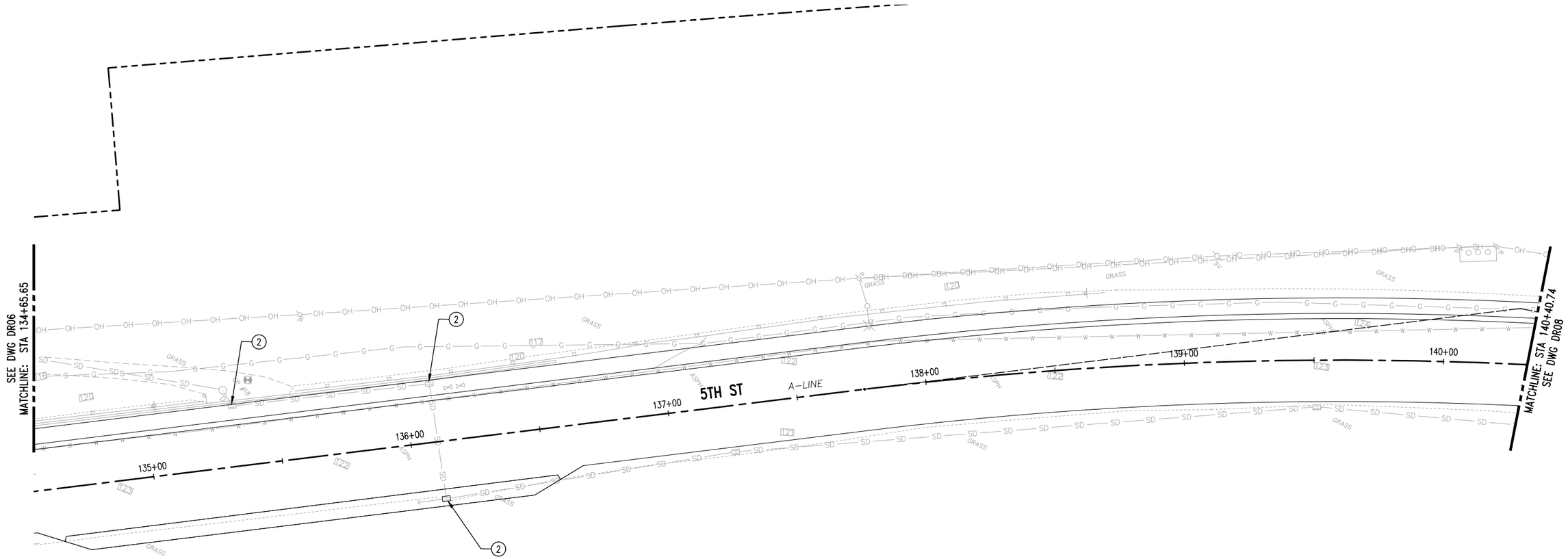

LEGEND

- SD — STORM DRAIN PIPE
- UD — 6" UNDERDRAIN PIPE
- CB TYPE 2, SIZE PER PLAN
- CB TYPE 1
- UNDERDRAIN CLEANOUT, SEE DD03
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N

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DRAINAGE PLAN

SHT. 44 OF 123

DR07

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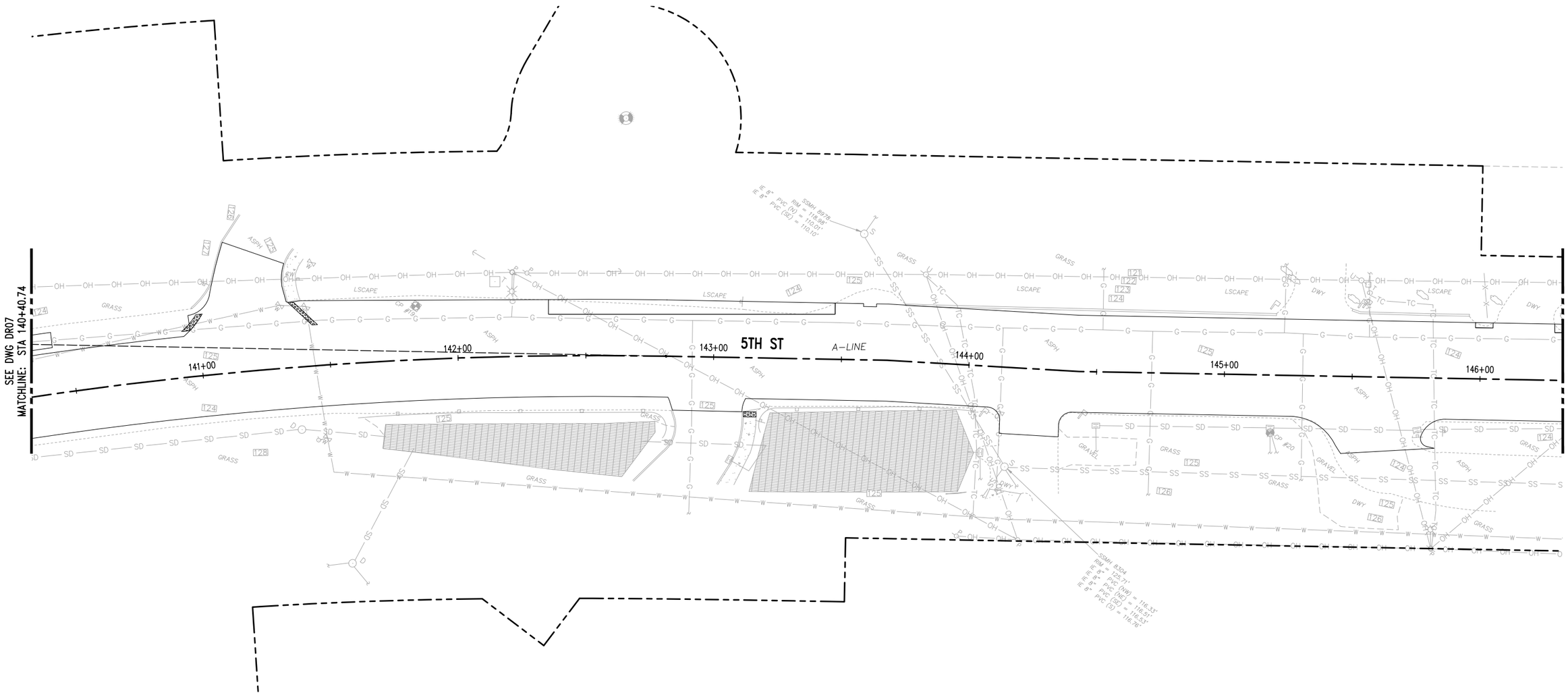

LEGEND

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SHT. 45 OF 123

DR08

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tjmg
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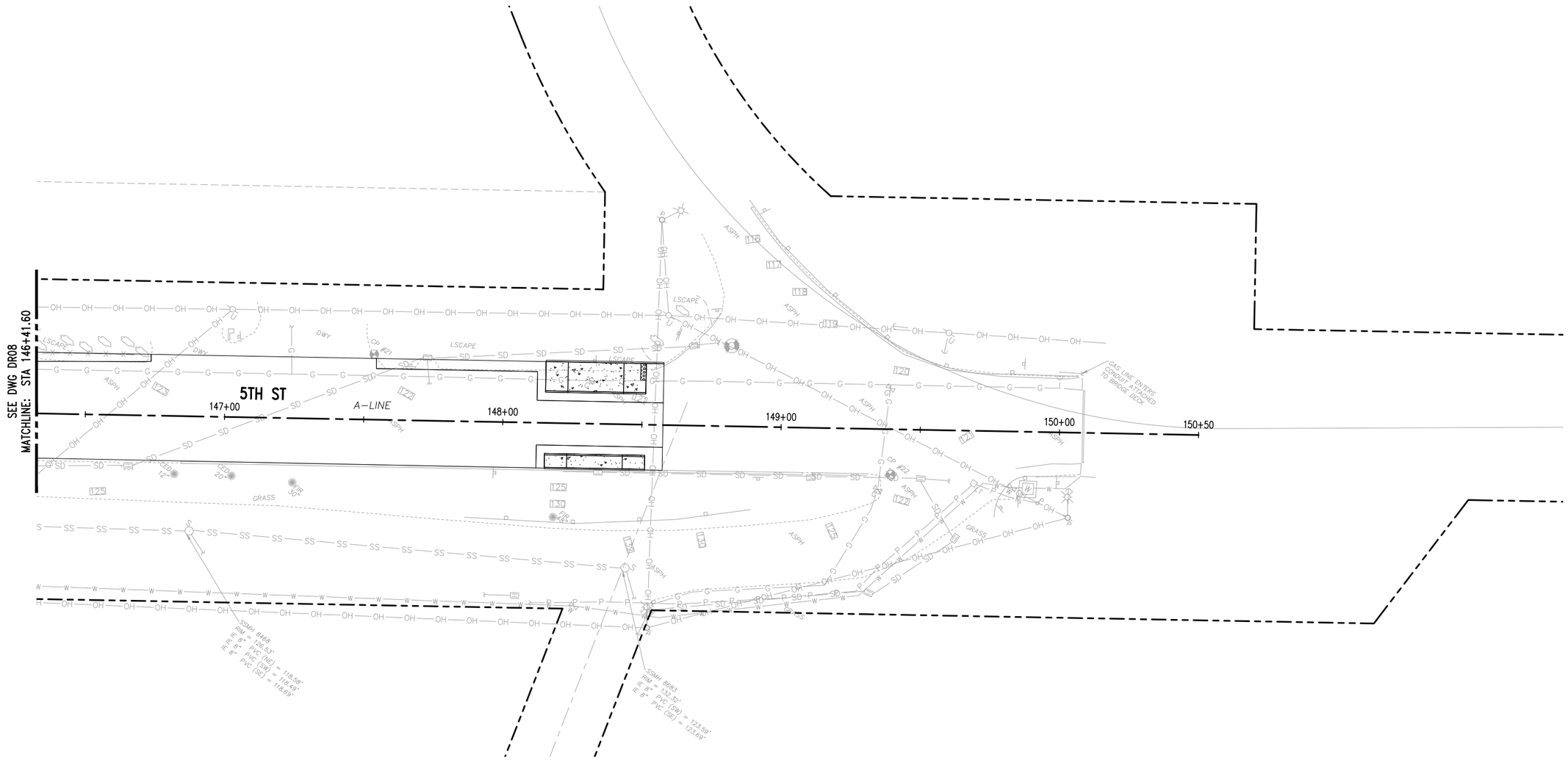

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DRAINAGE PLAN

SHT. 46 OF 123

DR09

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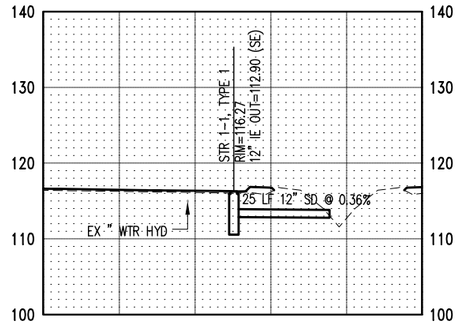
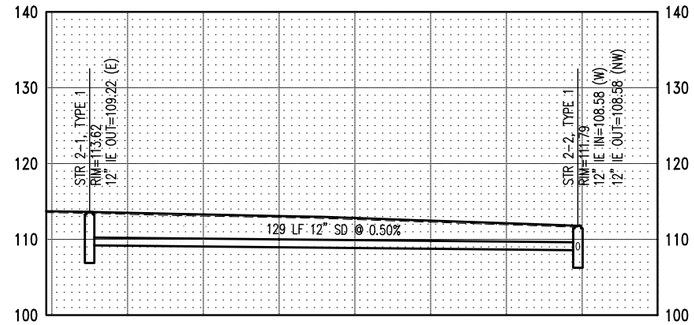


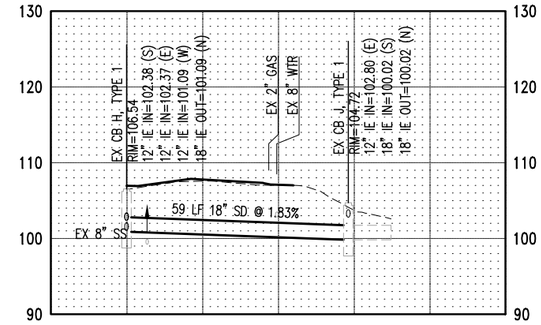
STR 1-1

STA 104+86.00 TO STA 105+22.29, SEE SHEET DR01



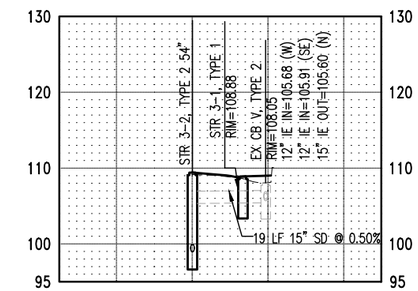
STR 2-1 TO STR 2-2

STA 108+75.00 TO STA 110+00, SEE SHEET DR02



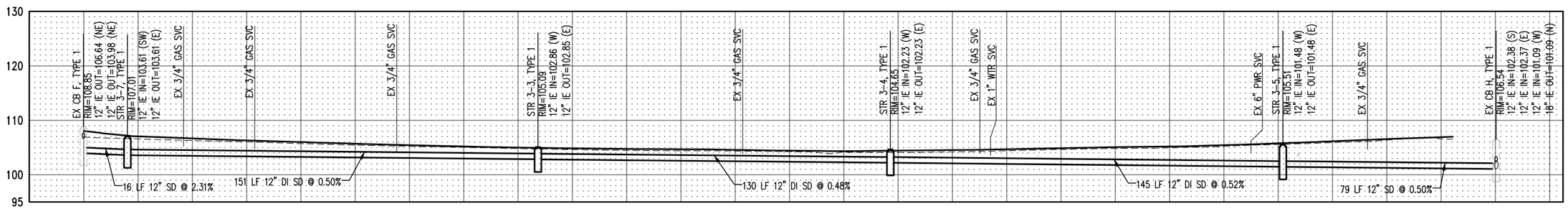
EX CB H TO EX CB J

STA 117+10 TO STA 117+10, SEE SHEET DR03



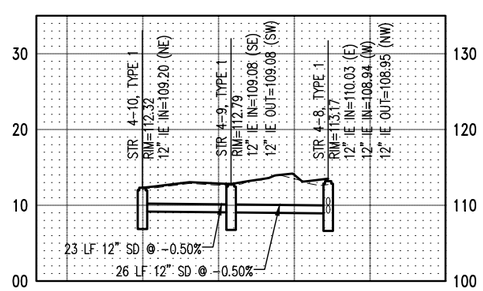
STR 3-2 TO EX CB V

STA 111+60 TO STA 111+60, SEE SHEET DR03



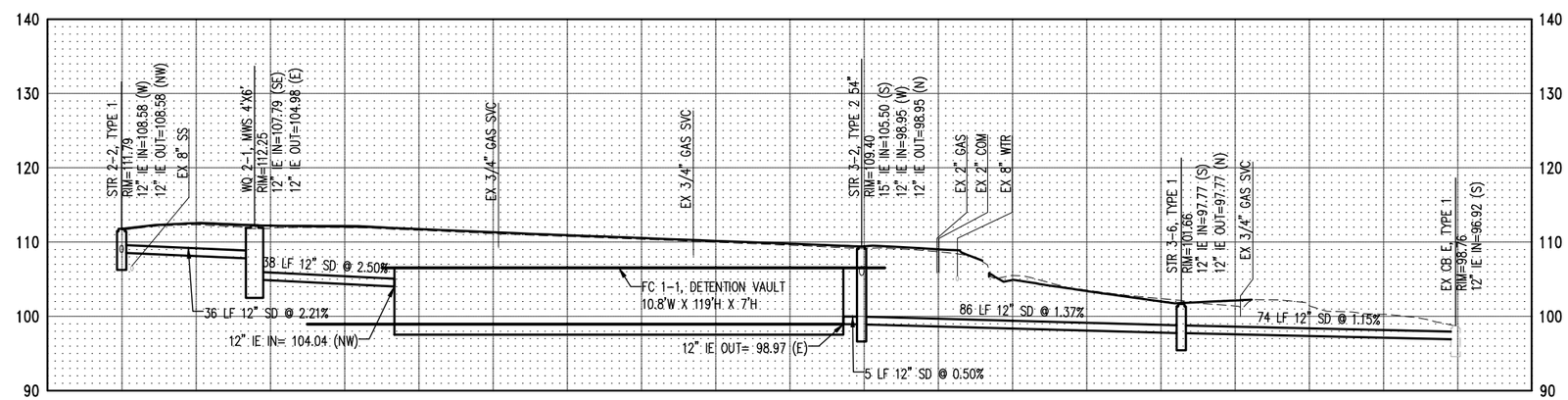
EX CB F TO EX CB H

STA 112+00 TO STA 117+10, SEE SHEET DR03



STR 4-10 TO STR 4-8

STA 119+60 TO STA 120+10, SEE SHEET DR04



STR 2-2 TO EX CB E

STA 110+00 TO STA 1110+60, SEE SHEET DR02-DR03

NOTES:
1. EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS USING BEST AVAILABLE INFORMATION. CONTRACTOR TO CONFIRM ACTUAL UTILITY LOCATIONS.

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
JOB No. :2000722

CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

SCALE: 1" = 20'

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CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

DRAINAGE PROFILES

SHT. 47 OF 123

DP01

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tmg
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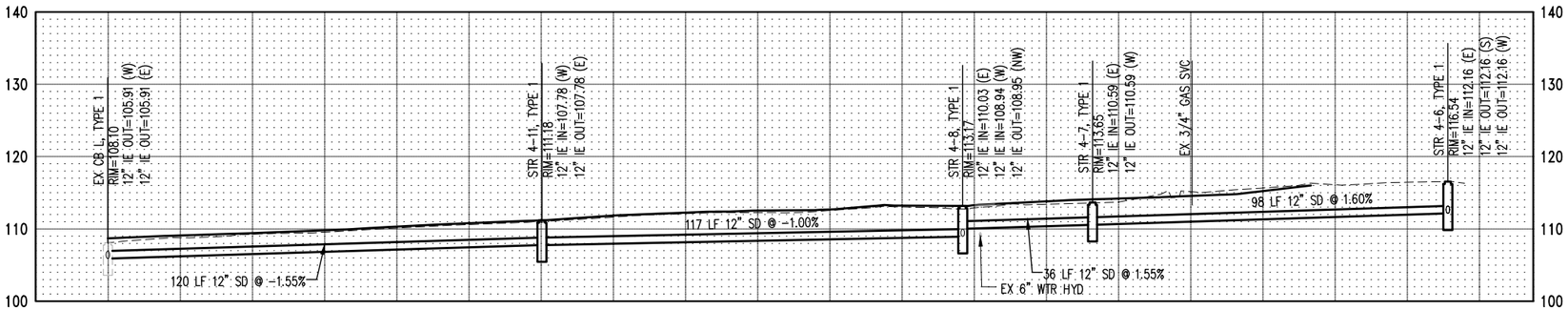
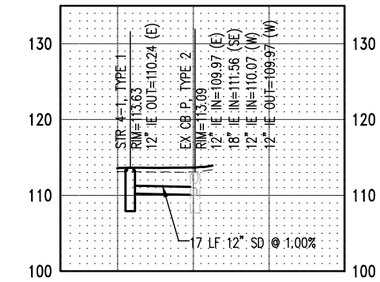


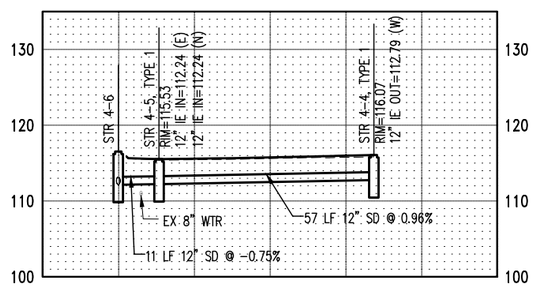
EX CB L TO STR 4-6

STA 117+90 TO STA 122+00, SEE SHEET DR04



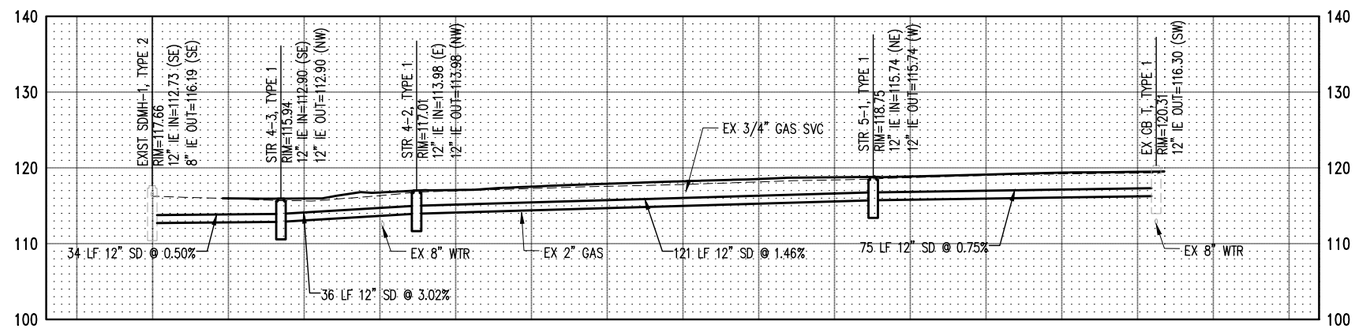
STR 4-1 TO EX CB P

STA 119+67 TO STA 119+77, SEE SHEET DR04



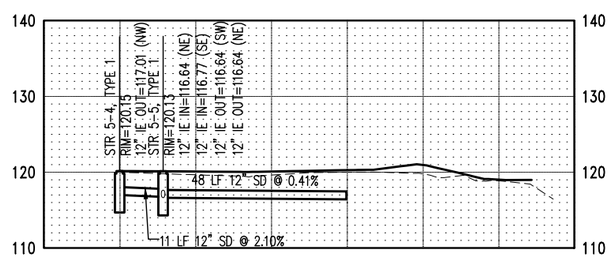
STR 4-6 TO STR 4-4

STA 121+45 TO STA 122+02, SEE SHEET DR04



EXIST SDMH-1 TO EX CB T

STA 122+30 TO STA 124+60, SEE SHEET DR04-DR05



STR 5-4 TO STR 5-5

STA 125+22 TO STA 125+22, SEE SHEET DR05

NOTES:
1. EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS USING BEST AVAILABLE INFORMATION. CONTRACTOR TO CONFIRM ACTUAL UTILITY LOCATIONS.

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DRAINAGE PROFILES

SHT. 48 OF 123

DP02

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tlmg
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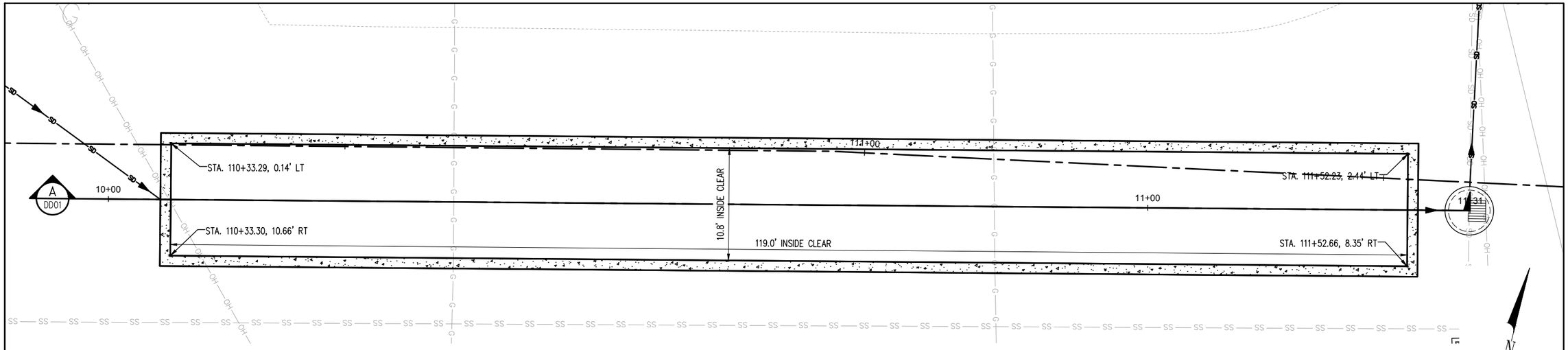
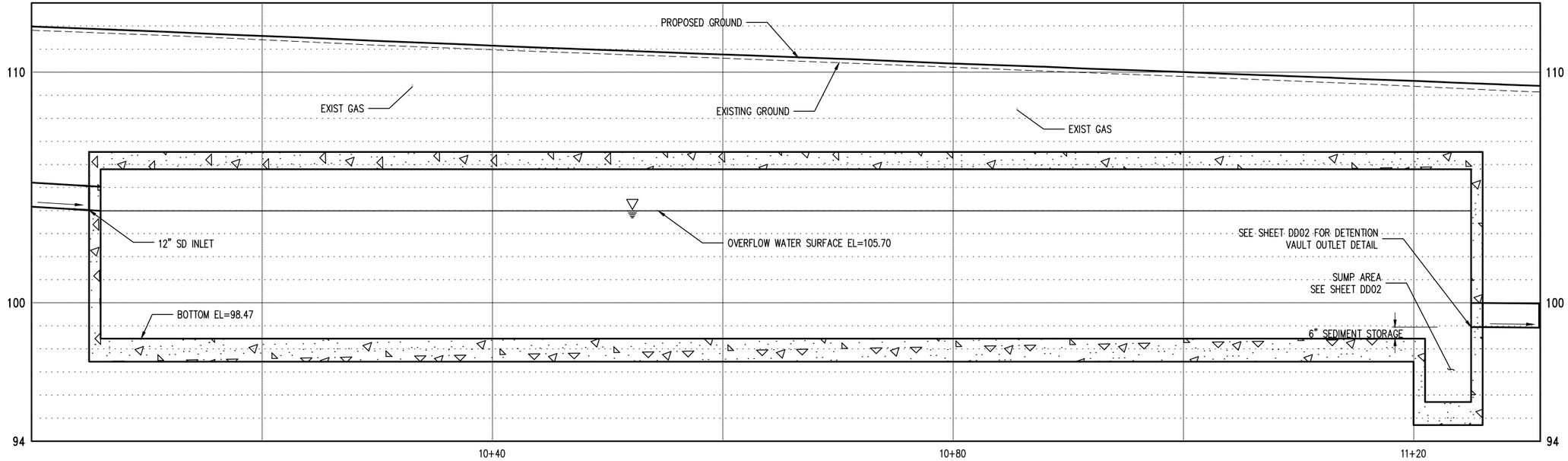


DETENTION VAULT PLAN

0 2.5 5 10
1 inch = 5 feet



DETENTION VAULT SECTION A

0 2.5 5 10
1 inch = 5 feet (H)

0 5 10 20
1 inch = 10 feet (V)

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DRAINAGE DETAILS

DD01

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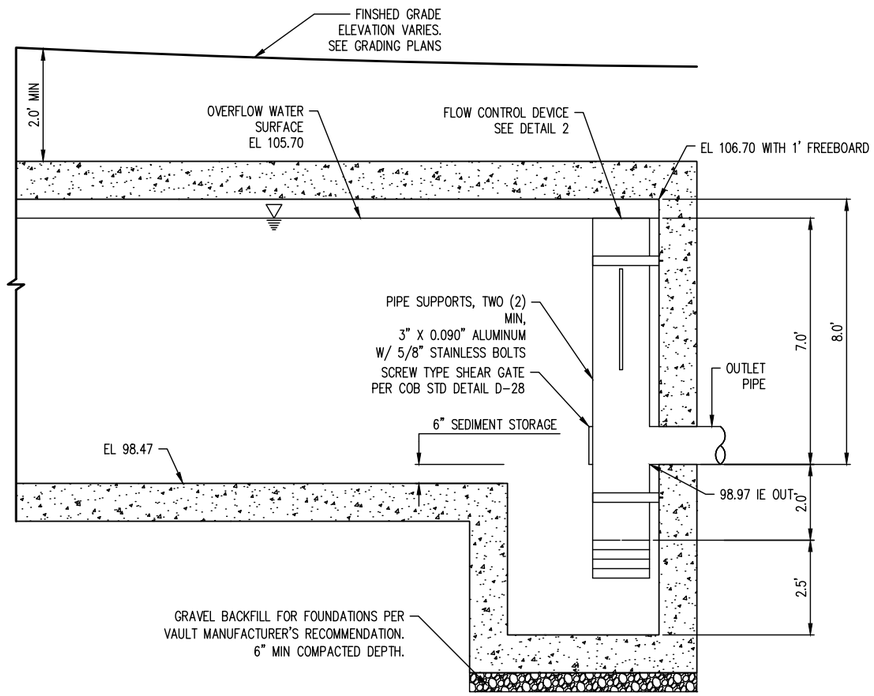
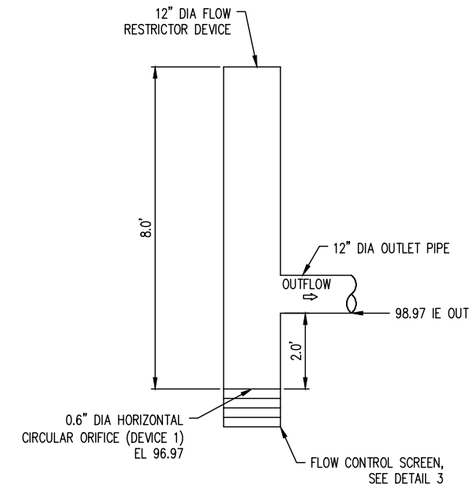


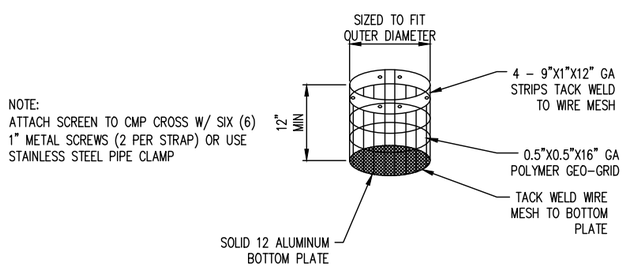
DETENTION VAULT – OUTLET DETAIL (1)

NTS



DETENTION VAULT – OUTLET DETAIL (2)

NTS



FLOW CONTROL SCREEN (3)

NTS

DETENTION VAULT		
DESCRIPTION	VALUES	WATER SURFACE ELEVATION IN VAULT
BASIN AREA COLLECTED	0.375 AC	–
FLOW CONTROL LIVE STORAGE DEPTH	6.5 FT	106.00
FLOW CONTROL LIVE STORAGE VOLUME	10,282 CF	–
AREA AT MAX ELEVATION	1,285 SF	–
2 YEAR DISCHARGE RATE	0.056 CFS	106.03
50 YEAR DISCHARGE RATE	0.139 CFS	106.06
100 YEAR DISCHARGE RATE	0.150 CFS	106.06

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DD02

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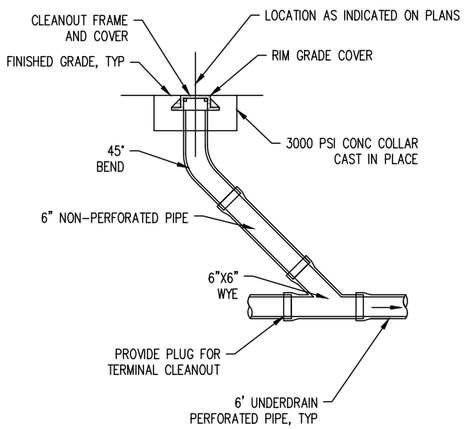
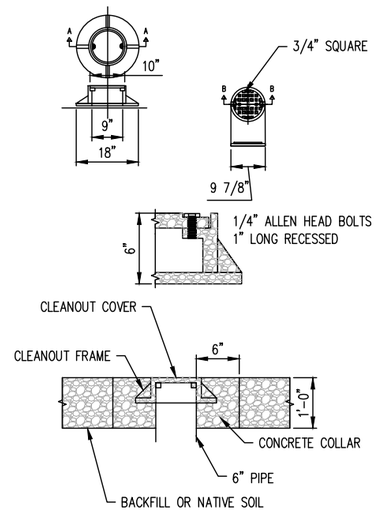


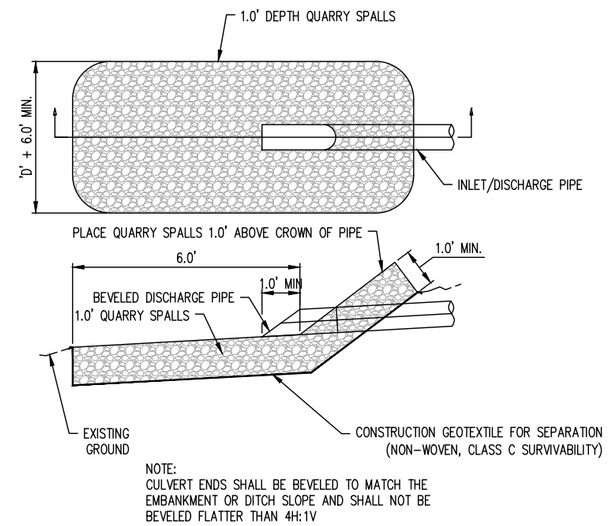
UNDERDRAIN CLEANOUT DETAIL

NTS



CLEANOUT TO GRADE

NTS



NOTE:
CULVERT ENDS SHALL BE BEVELED TO MATCH THE EMBANKMENT OR DITCH SLOPE AND SHALL NOT BE BEVELED FLATTER THAN 4H:1V

OUTFALL PROTECTION

NTS

NOT FOR CONSTRUCTION - 90 PERCENT

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DD03

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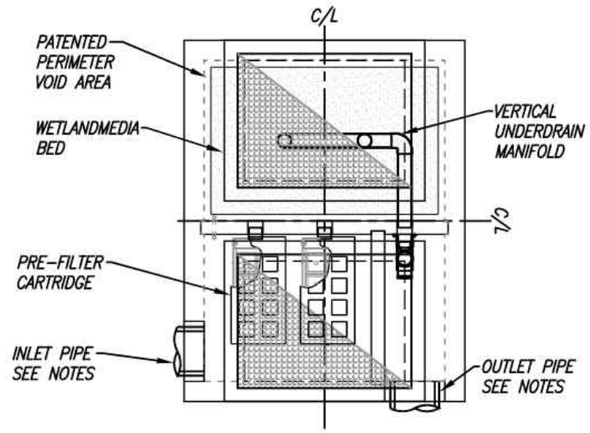
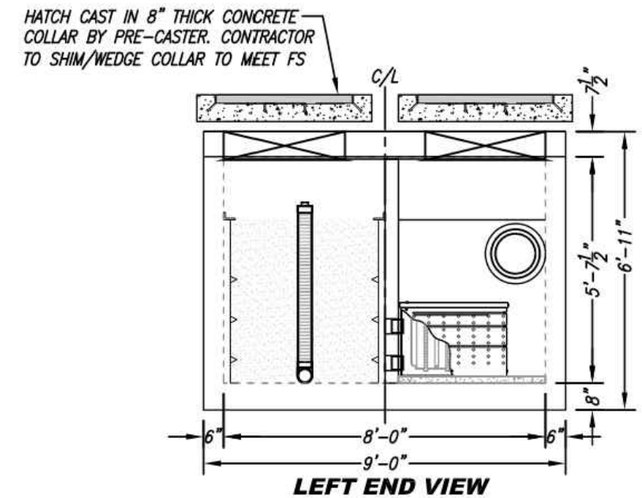
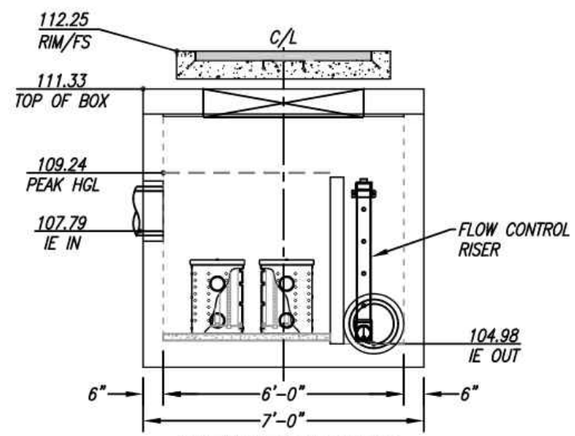
SITE SPECIFIC DATA			
PROJECT NUMBER		----	
PROJECT NAME		MUKILTEO 5TH STREET BICYCLE & PEDESTRIAN	
PROJECT LOCATION		MUKILTEO, WA	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
		0.153	
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			0.437
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	107.79	N/K	12"
OUTLET PIPE	104.98	N/K	12"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	112.25	112.25	112.25
SURFACE LOAD	LOAD LEVEL 5 (ASTM C1802)		
FRAME & COVER	36" X 48"	36" X 48"	N/A
WETLANDMEDIA VOLUME (CY)			3.14
ORIFICE SIZE (DIA. INCHES)			5 EA ø1.02"
NOTES:			



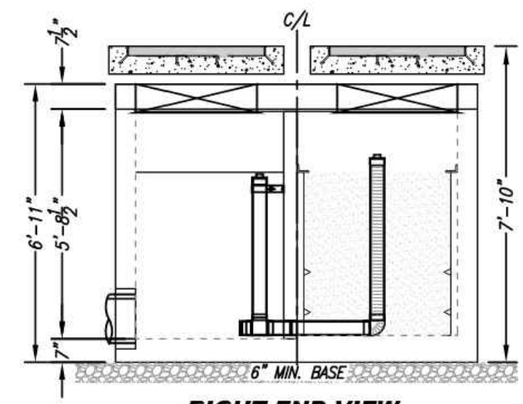
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

INTERNAL BYPASS DISCLOSURE:

THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY.

2-YEAR RELEASE RATE (CFS)	0.17
OPERATING HEAD (FT)	4.0
PRETREATMENT LOADING RATE (GPM/SF)	1.5
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS IS PROHIBITED.

Bio Clean
A Forterra Company

MWS-L-6-8-5'-8"-V-UG-HC
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

NOT FOR CONSTRUCTION - 90 PERCENT

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MUKILTEO, WA

DRAINAGE DETAILS

DD04

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timg
Aug 19, 2022 - 7:17pm

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE	REMARKS	DETAILS
		TREES			
	2	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE APPLE SERVICEBERRY	2" CAL; B&B / FABRIC BAG	STRAIGHT TRUNK; SYMMETRICAL, FULL, WELL ROOTED & WELL BRANCHED	2 LP17
	2	CORNUS KOUSA VAR CHINENSIS 'MILKY WAY DOGWOOD' / MILKY WAY DOGWOOD	7'-8' HT; CONT OR B&B	STRAIGHT TRUNK; SYMMETRICAL, FULL, WELL ROOTED & WELL BRANCHED	2 LP17
		SHRUBS AND GROUNDCOVERS			
	102	ABELIA X 'EDWARD GOUCHER / EDWARD GOUCHER ABELIA	#5 CONT	FULL, WELL BRANCHED & WELL ROOTED	1 LP17, 3 LP17, 6 LP17
	55	PINUS MUGO 'SLOWMOUND' / DWARF MOUNTAIN PINE	#5 CONT	FULL, WELL BRANCHED & WELL ROOTED	
	242	HEMEROCALLIS 'STELLA D'ORO' / STELLA D'ORO DAYLILY	#1 CONT	FULL & WELL ROOTED	
	460	LIRIOPE SPICATA 'SILVER DRAGON' SILVER DRAGON LILYTURF	#1 CONT	FULL & WELL ROOTED	
	445	NASELLA TENUISSIMA / MEXICAN FEATHER GRASS	#1 CONT	FULL & WELL ROOTED	
	78	DIANTHUS GRATIANOPOLOTANUS / TINY RUBIES DIANTHUS	#1 CONT	FULL & WELL ROOTED	
	76	LAVANDULA ANGUSTIFOLIA 'COMPACTA' / 'COMPACTA' LAVENDER	#1 CONT	FULL, WELL BRANCHED & WELL ROOTED	
	92	SEDUM ACRE / GOLDMOSS STONECROP	#1 CONT	FULL & WELL ROOTED	
	147	THYMUS ALBIFLORUS / WHITE CREEPING THYME	#1 CONT	FULL & WELL ROOTED	
	9	BERBERIS 'AUREA NANA'/ DWARF GOLDEN BARBERRY	#1 CONT	FULL, WELL BRANCHED & WELL ROOTED	
	3	CORNUS SANGUINEA 'MIDWINTER FIRE'/ MIDWINTER FIRE DOGWOOD	#2 CONT	FULL, WELL BRANCHED & WELL ROOTED	
	9	ROSMARINUS OFFICINALIS/ ROSEMARY	#2 CONT	FULL, WELL BRANCHED & WELL ROOTED	
	6	HEBE TOPIARIA/ TOPIARY HEBE	#1 CONT	FULL, WELL BRANCHED & WELL ROOTED	
		HYDROSEED			
	1,930 SF	LAWN SEED		SEE SPECS	5 LP17
	6,425 SF	WILDFLOWER SEED MIX		SEE SPECS	5 LP17
		BACK OF SIDEWALK RESTORATION			
	15,148 SF	GRASS SEED		SEE SPECS	5 LP17
	575 SY	4" DEPTH WOOD CHIP MULCH		NO SOIL PREP; SEE SPECS	
	5	HABITAT BOULDER; THREE MAN SIZE		PER SPECIFICATION 9-03.11(3)	4 LP17

IRRIGATION SCHEDULE

	SCH 80 IRRIGATION PIPE SLEEVE	3 LP18
	SCH 40 IRRIGATION MAINLINE	2 LP18
	SCH 40 IRRIGATION LATERAL LINE	2 LP18
▲	DRIP CONNECTION AT LIGHT POLE; RAINBIRD XERI-BUBBLER, UXB-360-SPYK, RAINBIRD PFR/RS POLYFLEX RISER, RAINBIRD RS-025T FLEX RISER STAKE, RAINBIRD SPB-025 1/4" SELF PIERCING BARB CONNECTORS, RAINBIRD 1/2" XBS TUBING	4 LP18
C	BATTERY OPERATED AUTOMATIC CONTROL VALVE; HUNTER NODE BATTERY OPERATED CONTROLLER WITH HUNTER ICZ-101-25 VALVE KIT INCLUDING FILTER AND REGULATOR, AND HUNTER DC-LATCHING SOLENOID PN 45820	1 LP18
NOT SHOWN ON PLANS	200RS-075 (3/4") DRAIN VALVE; PROVIDE OWNER WITH TWO (2) VALVE KEYS	5 LP18
M	EXISTING IRRIGATION DEDUCT WATER METER	
M	EXISTING IRRIGATION WATER METER	

GPM → 5.26 ← CIRCUIT # * (1)
VALVE SIZE → 1" → C

* CIRCUIT NUMBER BEGINS AT 1 FOR EACH CONTROLLER

LANDSCAPE ABBREVIATIONS

#/NO	NUMBER	MAX	MAXIMUM
%	PERCENT	MECH	MECHANICAL
&	AND	MIN	MINIMUM
ABBV	ABBREVIATIONS	MFRS	MANUFACTURER'S
ALT	ALTERNATE	OC	ON CENTER
APPROX	APPROXIMATE	POC	POINT OF CONNECTION
B&B	BALLED AND BURLAPPED	PREP	PREPARATION
CAL	CALIPER	PSI	POUNDS PER SQUARE INCH
CONT	CONTAINER	QTY	QUANTITY
DIA	DIAMETER	SCH	SCHEDULE
DWGS	DRAWINGS	SF	SQUARE FEET
EA	EACH	SPEC	SPECIFICATION
EQ	EQUAL	SQ	SQUARE
EX	EXISTING	SY	SQUARE YARD
GPM	GALLONS PER MINUTE	SYM	SYMBOL
GPH	GALLONS PER HOUR	TYP	TYPICAL
IRR	IRRIGATION	ENG	ENGINEER

LANDSCAPE LEGEND

- DETAIL IDENTIFICATION / SHEET IDENTIFICATION
- EXISTING STREET LIGHTING
- NEW STREET LIGHTING, SEE ILLUMINATION DWGS
- GRAVEL SURFACING, SEE CIVIL DWGS
- RETAINING WALL, SEE CIVIL DWGS

PLANTING NOTES

1. ANY DISCREPANCIES WITH THE DWGS AND/OR SPECS & SITE CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF RESIDENT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. FIELD STAKE PLANTING LOCATIONS FOR RESIDENT ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION.
4. INSTALL GROUNDCOVERS IN A TRIANGULAR PATTERN AT SPACING SHOWN IN THE PLANT SCHEDULE. WHERE GROUNDCOVER ABUTS CURBING, WALLS, OR WALKS, MIN PLANTING DISTANCE MUST BE NINE (9) INCHES FROM SAME UNLESS OTHERWISE NOTED. INSTALL GROUNDCOVERS CONTINUOUS IN BETWEEN SHRUB PLANTINGS.
5. TREE LOCATIONS SHOWN ON PLANTING PLAN SHEET LP05 ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY THE FOLLOWING MIN SETBACKS FOR CENTERLINE OF TREE TRUNKS TO EDGE OF DRIVEWAY, FACE OF CURB OR INTERSECTION AND TO CENTER OF ALL OTHERS SHOWN MUST APPLY:

A.	STREET LIGHTS	10'
B.	DRIVEWAYS	10'
C.	INTERSECTIONS	30'
D.	UNDERGROUND SEWER & WATER LINES	5'
E.	UNDERGROUND GAS LINES	1'
F.	UNDERGROUND HIGH PRESSURE GAS LINES	3'
G.	UTILITY/POWER POLES	5'
H.	UNDERGROUND FIBER CABLE	2'
I.	OTHER TREES	15'
J.	FACE OF CURB	3'

IRRIGATION NOTES

1. THERE IS A LOSS OF PRESSURE IN EACH PIPE FITTING DUE TO FRICTION & ADDITIONAL HEADS MAY BE NEEDED DUE TO FIELD CONDITIONS. THESE LOSSES ARE COMPENSATED FOR BY ADDING TEN (10) PERCENT TO THE MFRS RATED GPM FOR EACH NOZZLE.
2. LOCATE VALVE BOXES & AUTOMATIC CONTROL VALVES IN SEEDED OR SHRUB/GROUNDCOVER AREAS AT POINT OF EASY ACCESS. RESIDENT ENGINEER TO REVIEW & APPROVE FINAL LOCATION OF ALL VALVE BOXES & AUTOMATIC CONTROL VALVES PRIOR TO INSTALLATION.
3. EX STATIC PSI AT FIRE STATION IRRIGATION METER IS 65 PSI. EXISTING STATIC PSI AT CENTENNIAL PARK IRRIGATION METER IS 62 PSI. INFORMATION PROVIDED BY BRIAN WIRT, SENIOR ENGINEERING TECHNICIAN AT CITY OF MUKILTEO, BWIRT@MUKILTEOWA.GOV, (425) 263-0885 RECIEVED ON 2/15/2022.
4. PRIOR TO INSTALLATION OF IRRIGATION SYSTEM, CONTRACTOR SHALL FIELD VERIFY EX PSI AT BOTH WATER METERS AND PROVIDE WRITTEN VERIFICATION TO RESIDENT ENGINEER. NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES BETWEEN THE DESIGN PSI & EX PSI PRIOR TO PROCEEDING WITH WORK.
5. IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION SLEEVING LOCATIONS WITH GENERAL CONTRACTOR AND IRRIGATION DRIPPER TUBING CONNECTIONS AT LIGHT POLES.
6. DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO PLANT MATERIALS, UTILITIES OR EX CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
7. ALL IRRIGATION SLEEVING TO BE STAKED IN THE FIELD & LOCATED ON DIMENSIONED "AS-BUILT" DRAWING TO ALLOW FUTURE LOCATION & USE.
8. AIR BLOW IRRIGATION SYSTEM THROUGH QUICK COUPLERS TO WINTERIZE IRRIGATION SYSTEM.
9. CONTRACTOR TO DOCUMENT WORKING ORDER OF EX IRRIGATION SYSTEMS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RESTORING THE EX IRRIGATION SYSTEMS DAMAGED BY CONSTRUCTION TO THEIR PRE-CONSTRUCTION CONDITION, SEE SPECS.
10. WHERE PIPE SIZES ARE NOT SHOWN ON THE PLAN, PIPE SHALL BE SIZED TO THE NEXT LARGEST PIPE SIZE SHOWN UPSTREAM ON THE PLAN.
11. WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND-DIGGING & WITHOUT INJURY TO THE ROOTS.
12. SEE SPECS FOR PLANT ESTABLISHMENT REQUIREMENTS, INCLUDING WATERING REQUIREMENTS.

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY SVS | DESIGNED BY ARL
CHECKED BY MO | APPROVED BY ARL
DATE 08/2022
J O B No. :2000722

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S C A L E: 1" = 20'

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MUKILTEO, WA

SHT. 53 OF 123

PLANTING & IRRIGATION SCHEDULE, LEGEND, ABBREV. & NOTES

LP00

P:\2021 projects\2021-01 5th st bicycle ped imp\Graphics\AutoCAD\L-PLOT.dwg
mwelton
Aug 19, 2022 - 4:04pm

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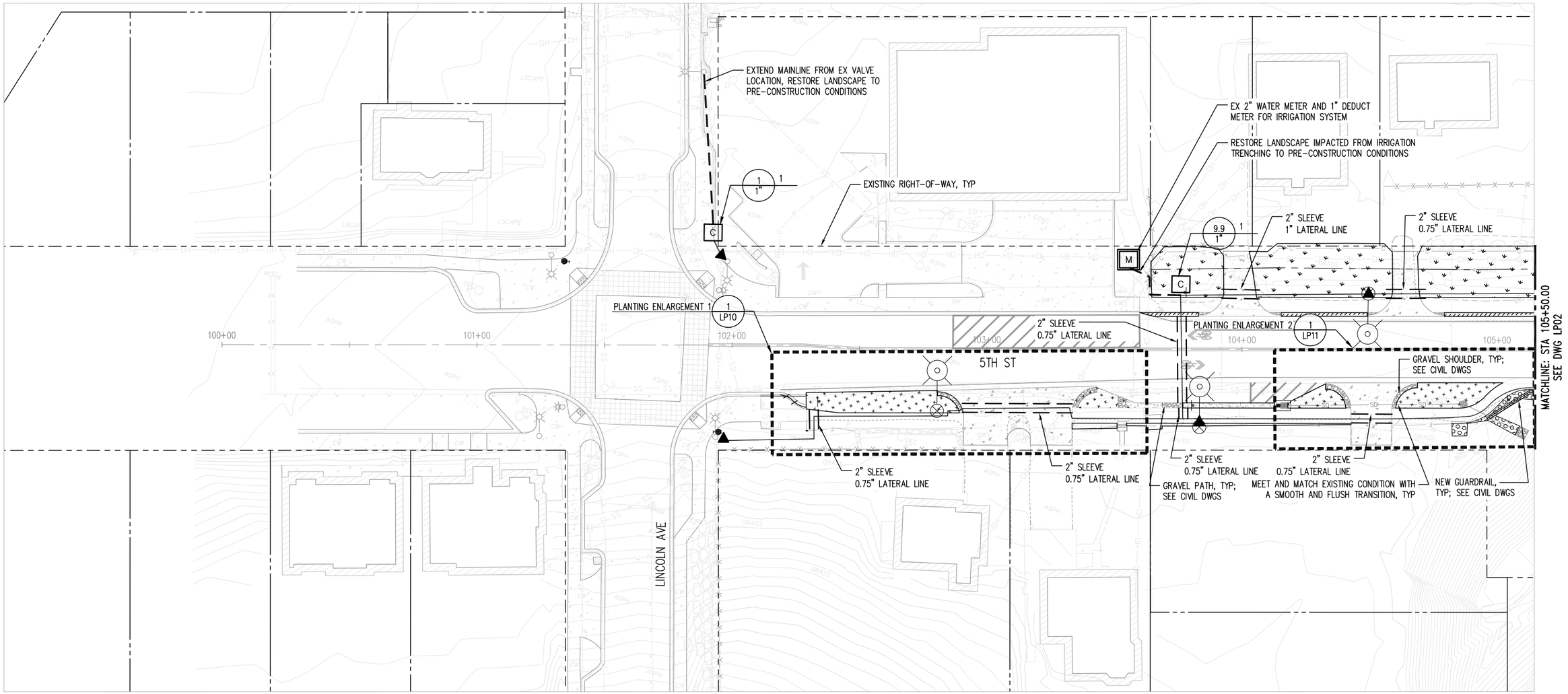

NOTES:

1. IRRIGATION LINES AND EQUIPMENT ARE SHOWN SCHEMATICALLY FOR CLARITY. INSTALL ALL IRRIGATION EQUIPMENT IN PLANTING AREAS AND IRRIGATION LINES WITHIN SLEEVES WHERE SHOWN.
2. SEE LP00 FOR PLANTING AND IRRIGATION SCHEDULE.

N

0 10 20 40
1 inch = 20 feet

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LANDSCAPE PLAN

LP01

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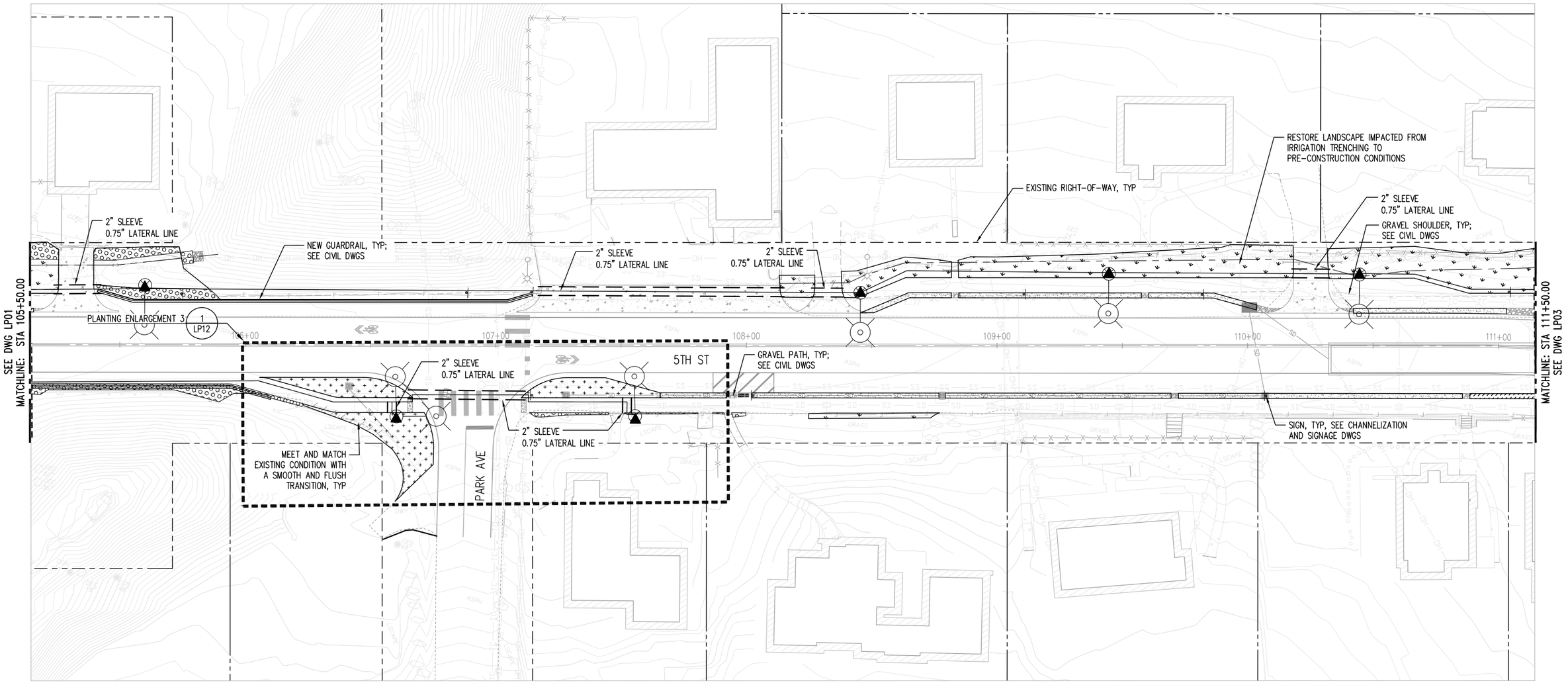

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LP02

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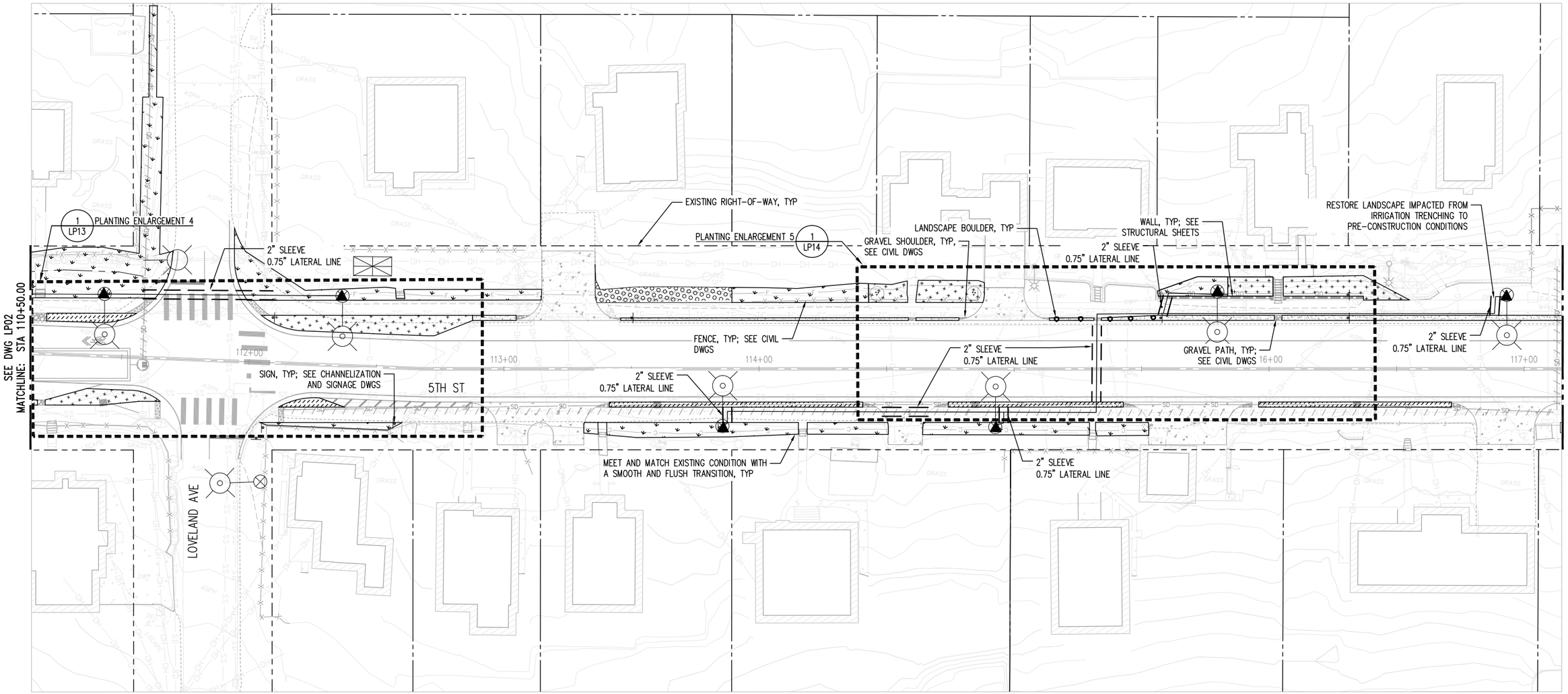

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N

0 10 20 40
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SCALE: 1" = 20'

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LP03

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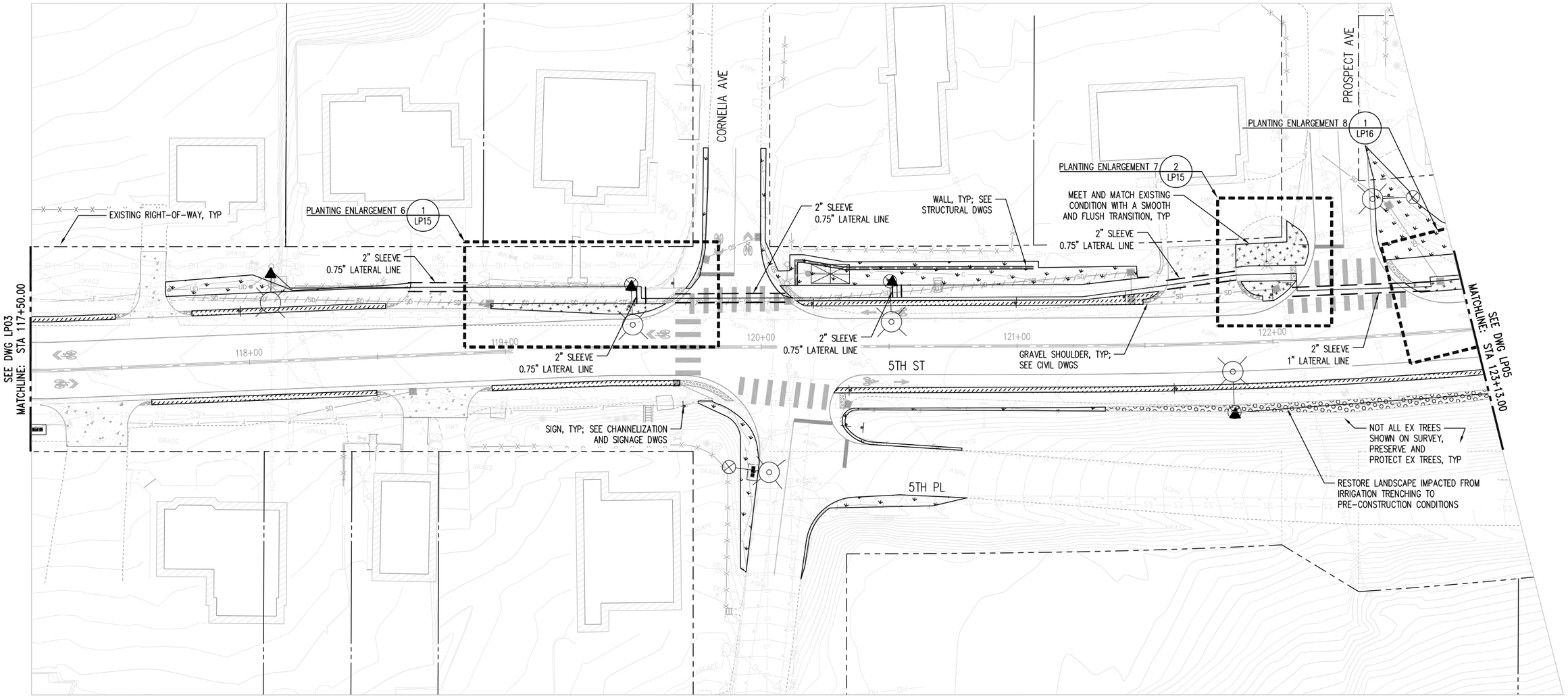

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N

0 10 20 40
1 inch = 20 feet

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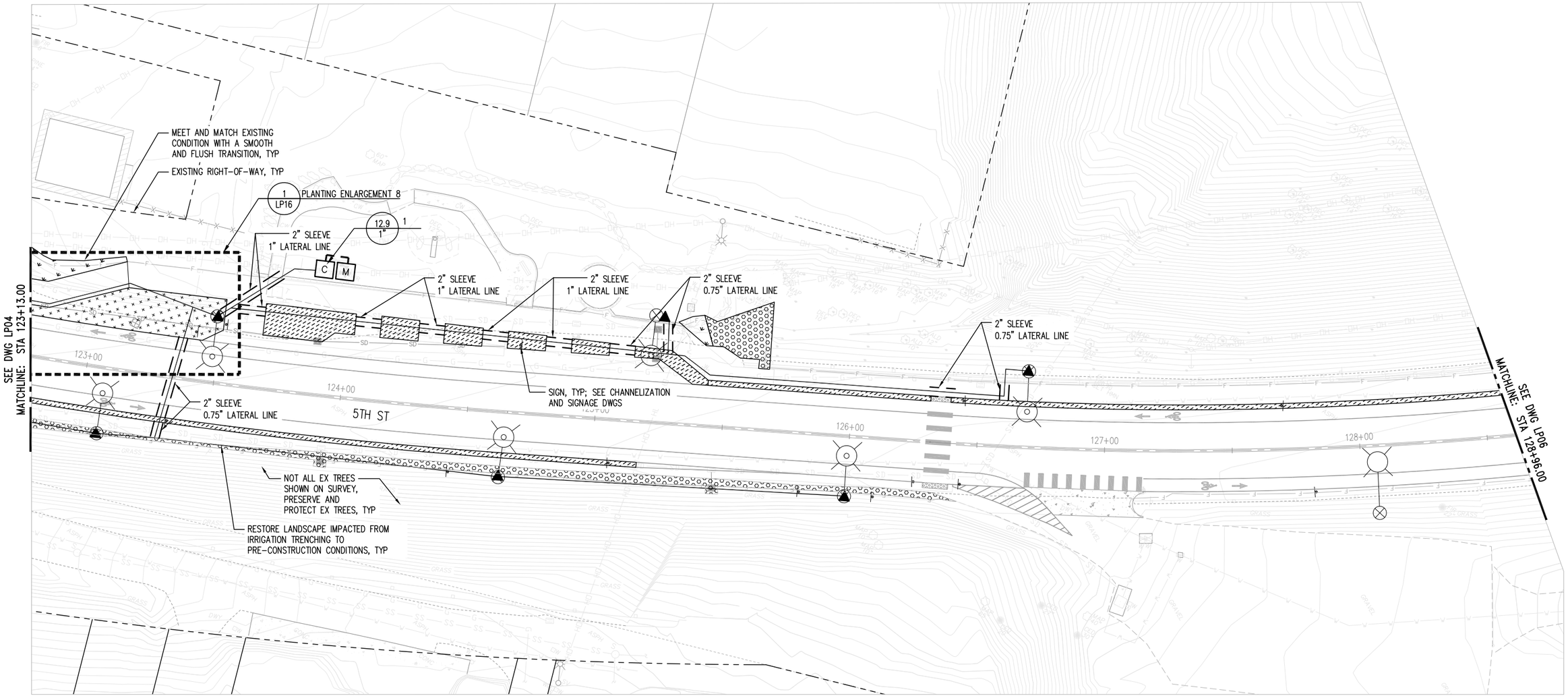

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N

0 10 20 40
1 inch = 20 feet

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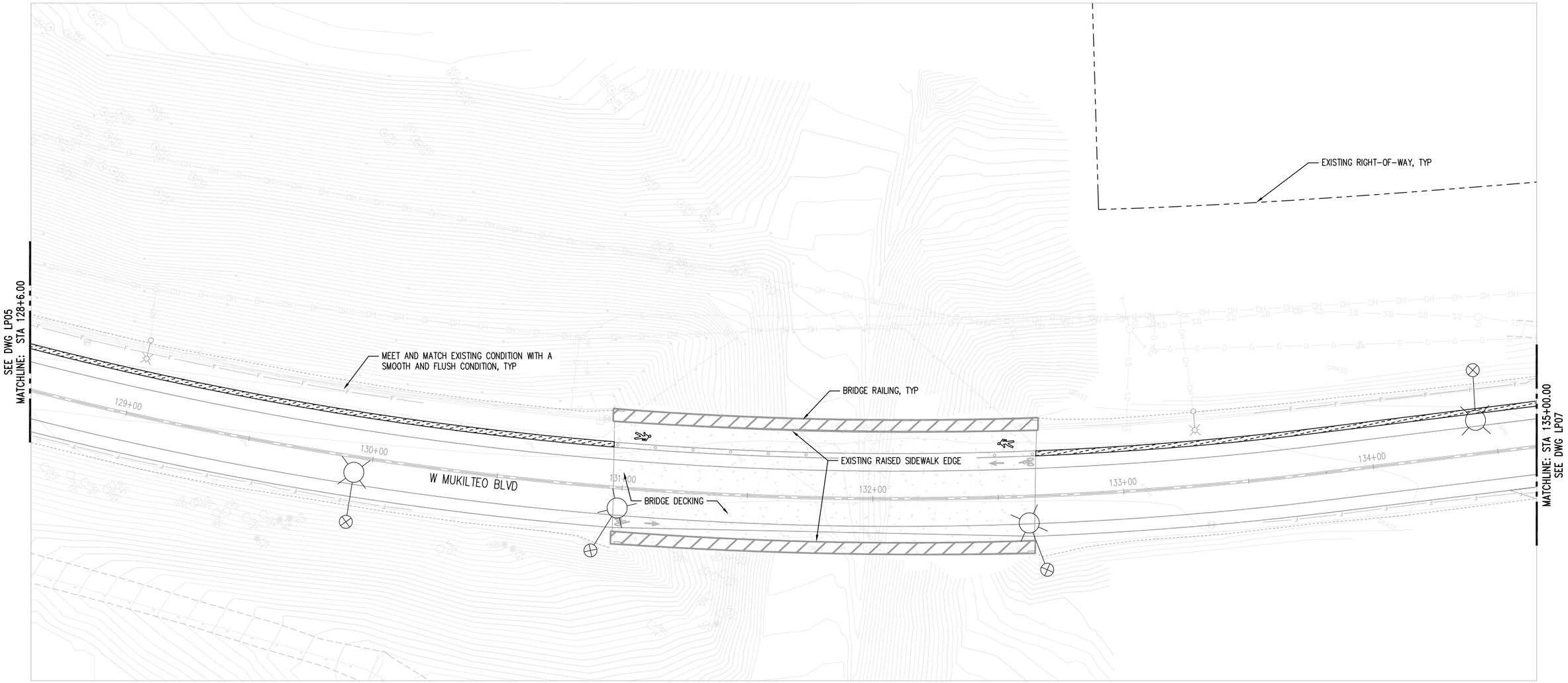

NOTE:
1. SEE LP00 FOR PLANTING SCHEDULE.

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1 inch = 20 feet

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LP06

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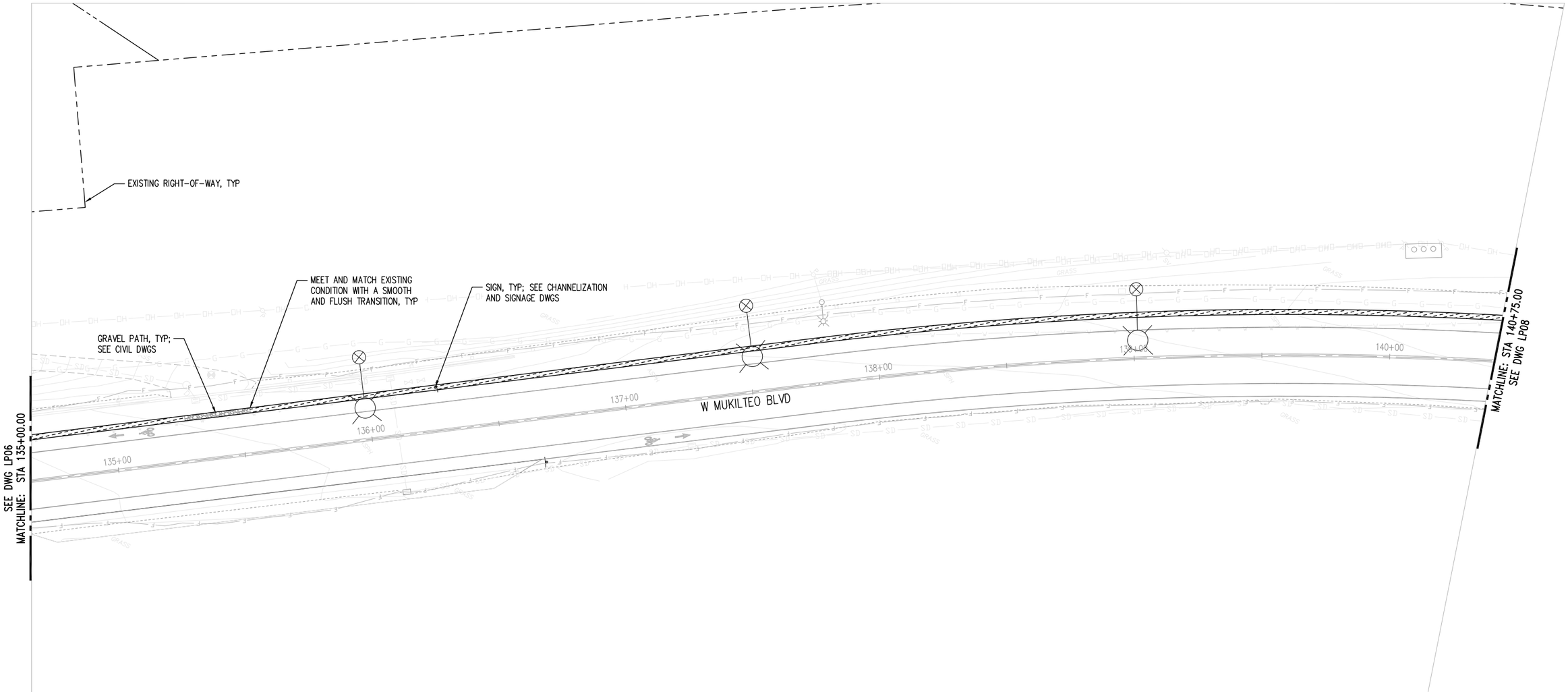

NOTE:
1. SEE LP00 FOR PLANTING SCHEDULE.

N

0 10 20 40
1 inch = 20 feet

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LP07

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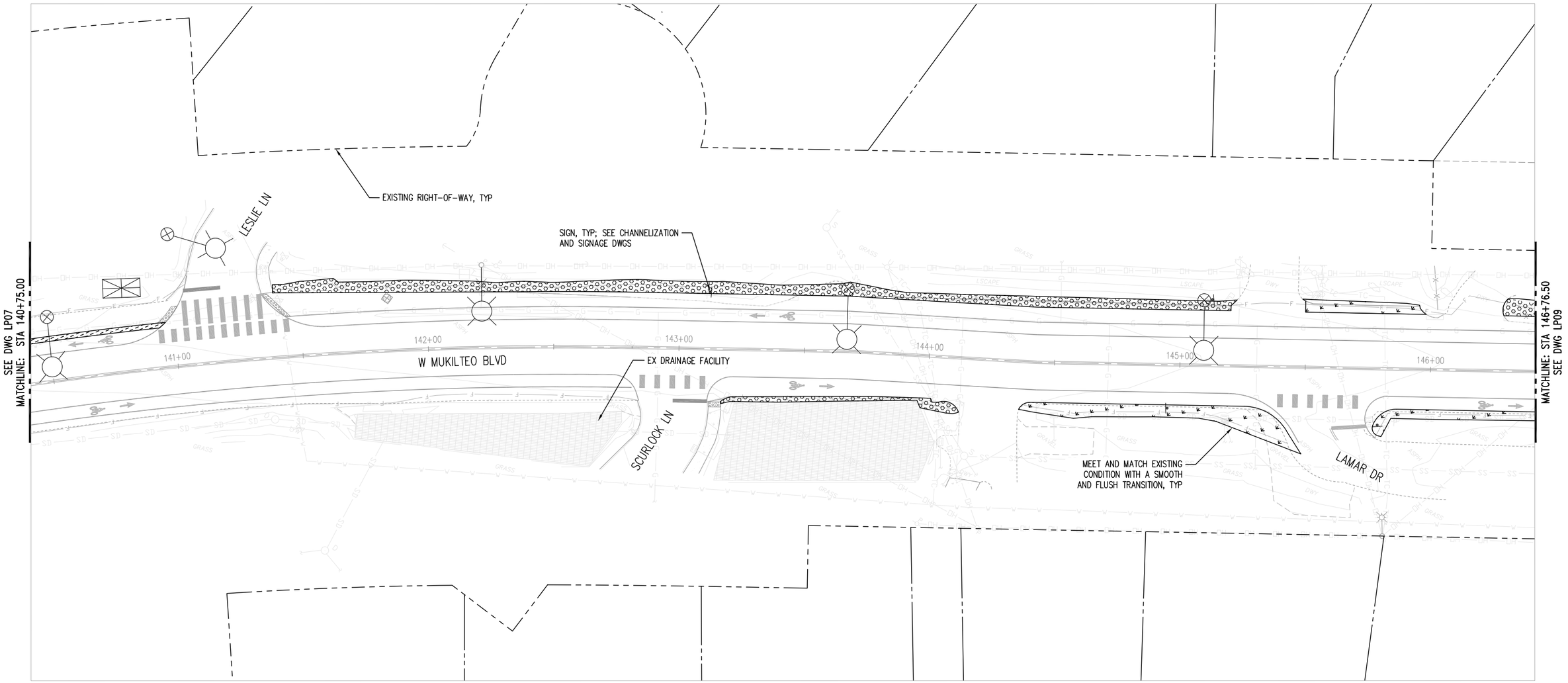

NOTE:
1. SEE LP00 FOR PLANTING SCHEDULE.

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LP08

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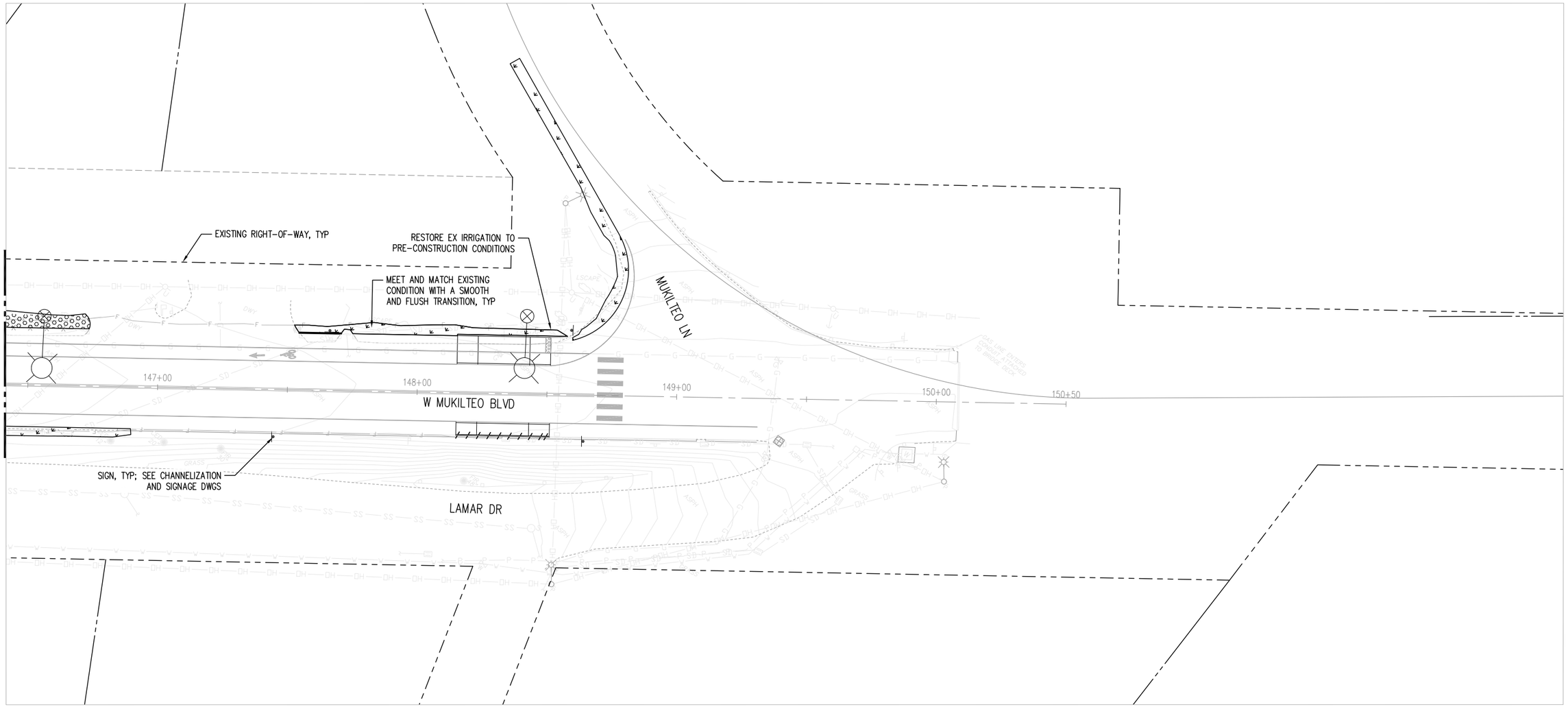

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LP09

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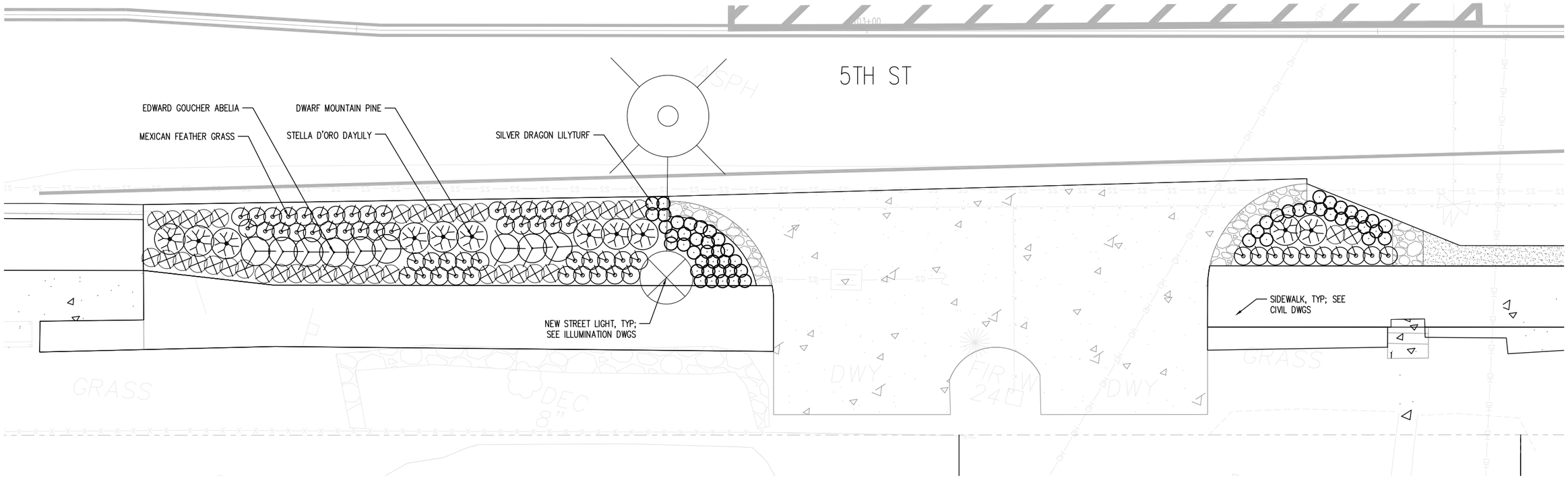
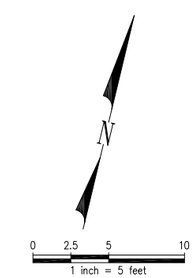


1 PLANTING ENLARGEMENT 1

SCALE: 1"=5'-0"



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SCALE: 1" = 5'

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PLANTING PLAN ENLARGEMENT

LP10

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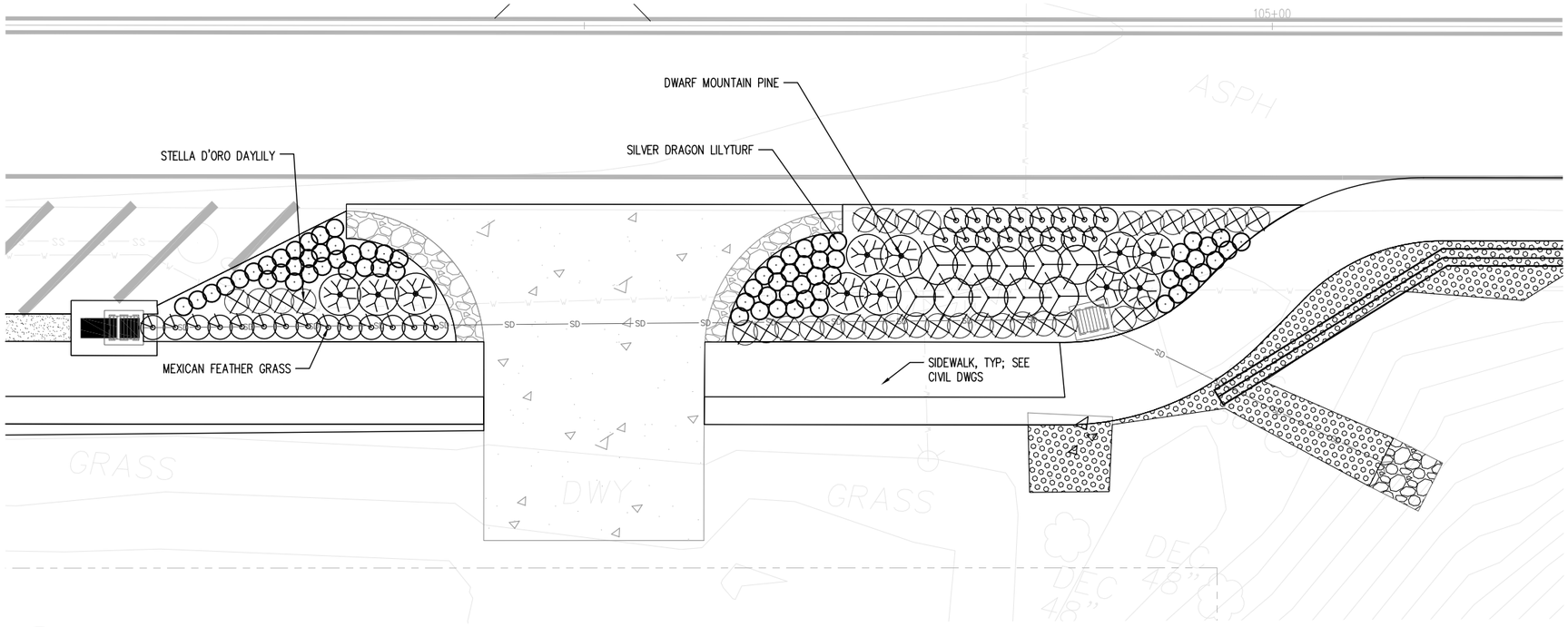
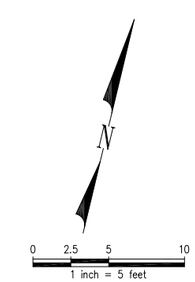


2 PLANTING ENLARGEMENT 2

SCALE: 1"=5'-0"



NOT FOR CONSTRUCTION - 90 PERCENT

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SCALE: 1" = 5'

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PLANTING PLAN ENLARGEMENT

LP11

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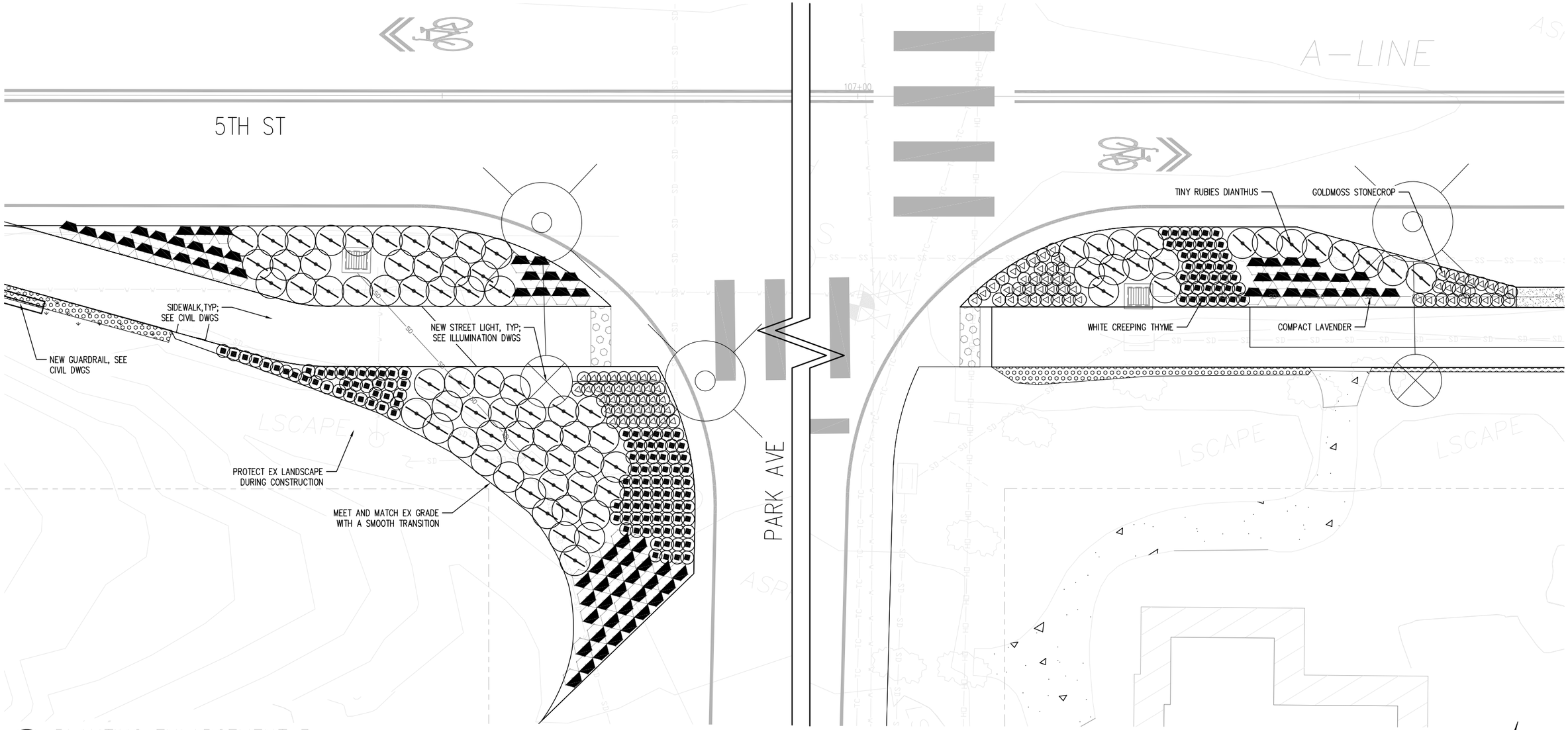

1 PLANTING ENLARGEMENT 3

SCALE: 1"=5'-0"

N

0 2.5 5 10

1 inch = 5 feet

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MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

PLANTING PLAN ENLARGEMENT

SHT. 65 OF 123

LP12

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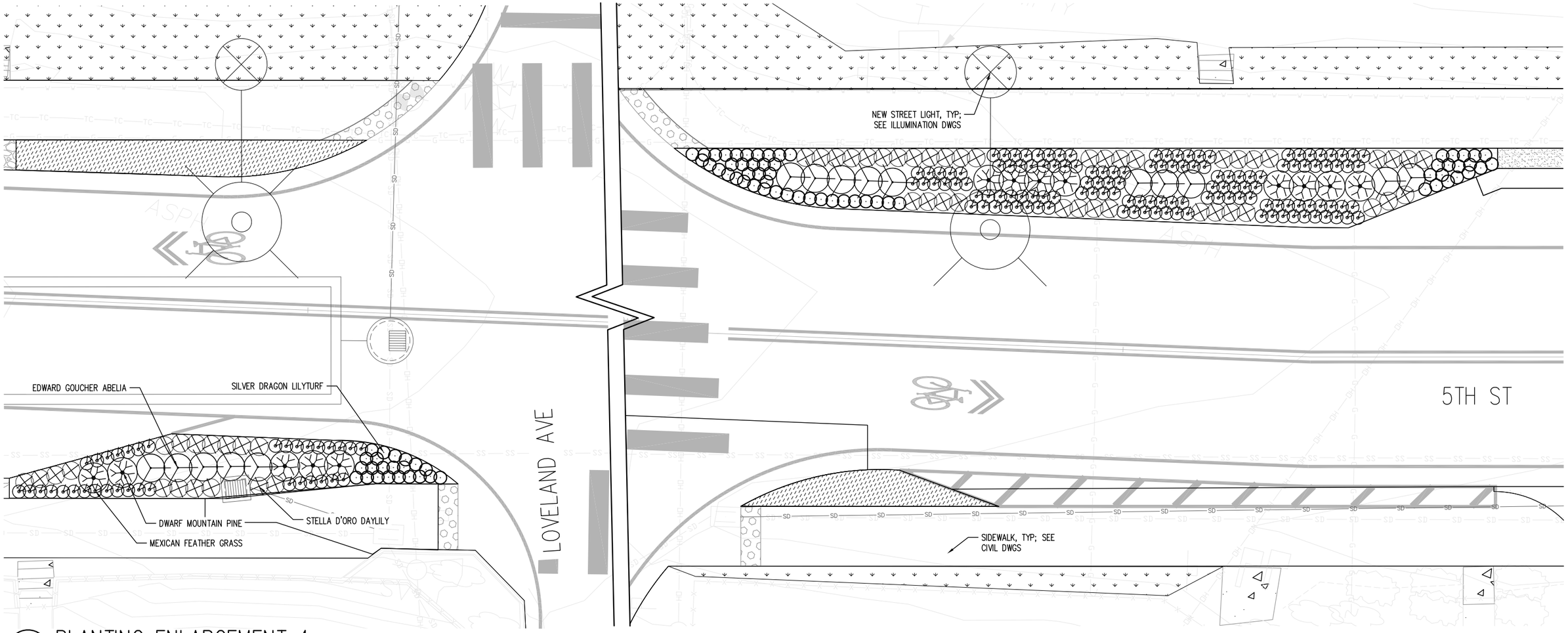
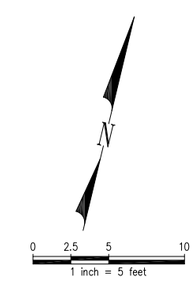
mwalton
Aug 19, 2022 - 4:07pm



1 PLANTING ENLARGEMENT 4

SCALE: 1"=5'-0"



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NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY MO | APPROVED BY ARL
DATE 08/2022
J O B No. : 2000722

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S C A L E: 1" = 5'

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MUKILTEO, WA

PLANTING PLAN ENLARGEMENT

SHT. 66 OF 123

LP13

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mweiton
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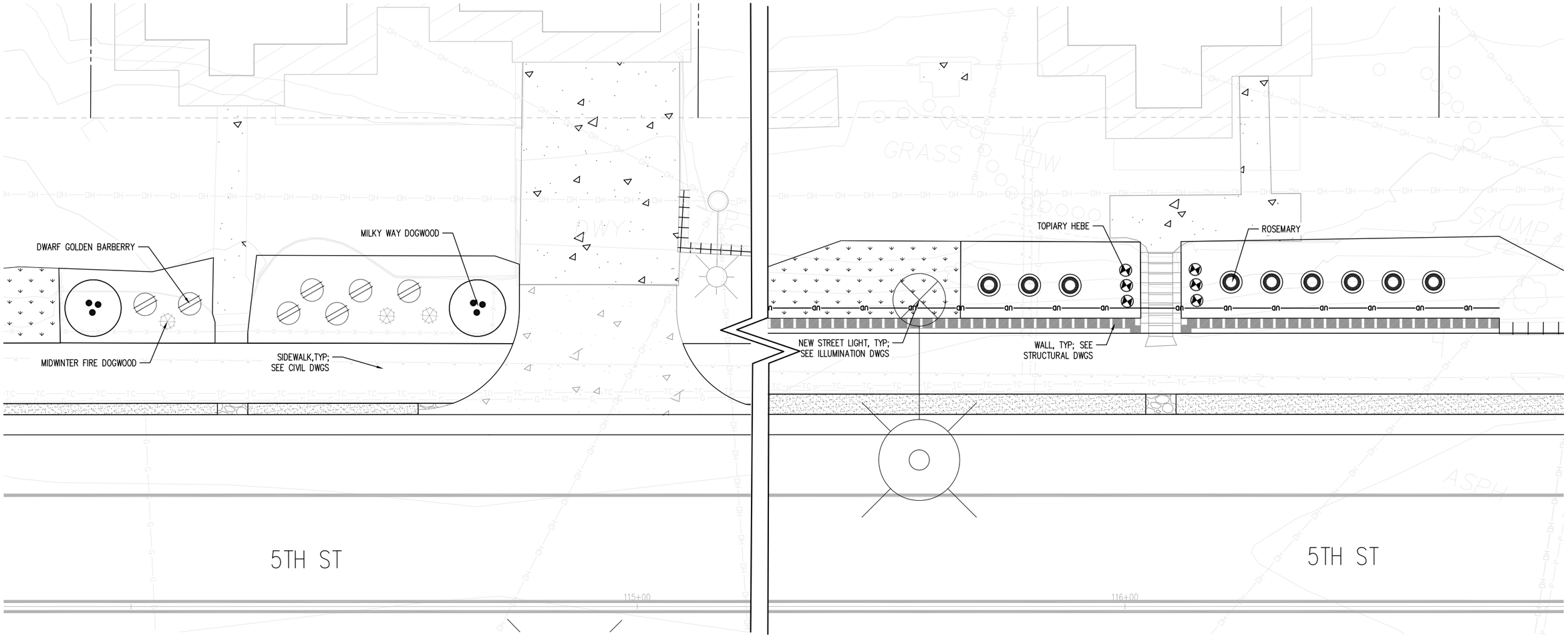
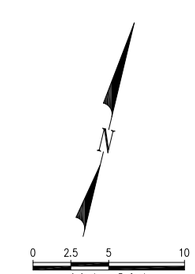


1 PLANTING ENLARGEMENT 5

SCALE: 1"=5'-0"



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PLANTING PLAN ENLARGEMENT

SHT. 67 OF 123

LP14

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mwalton
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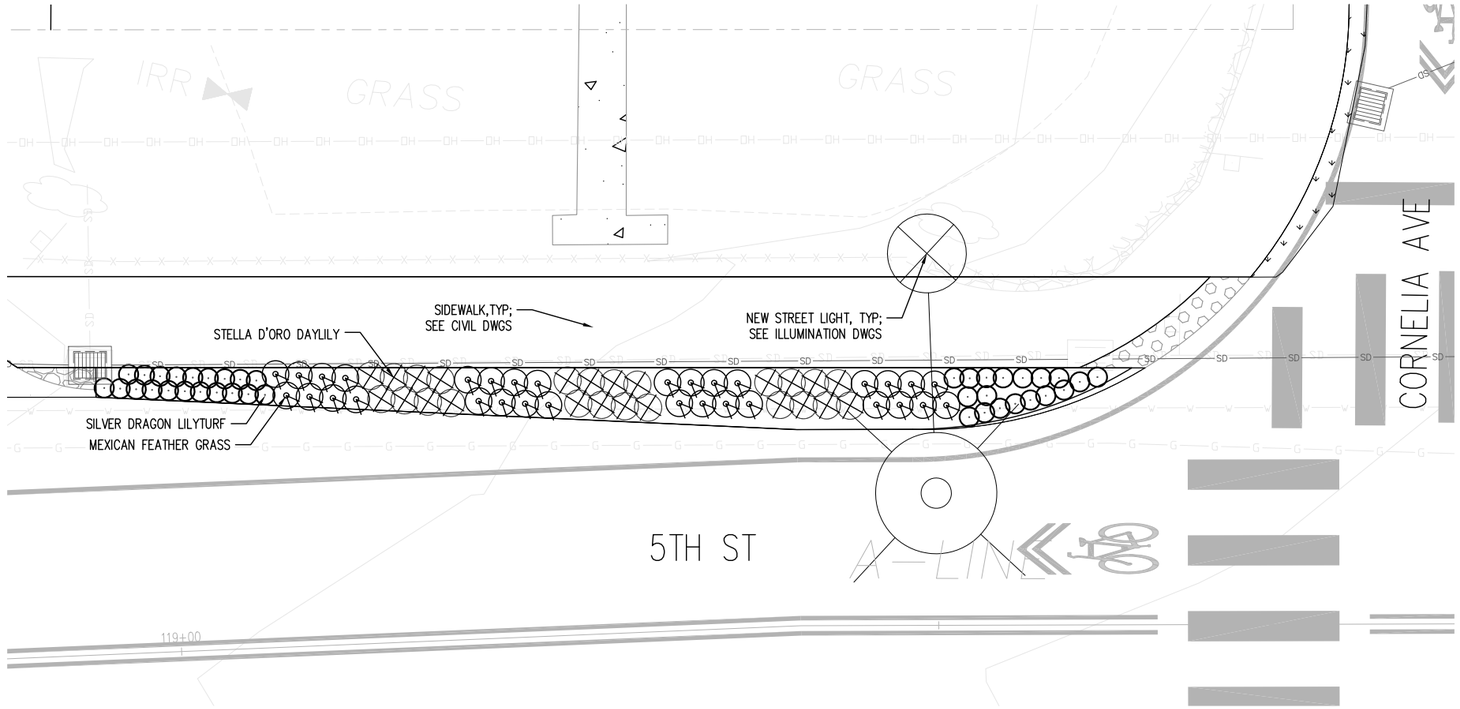
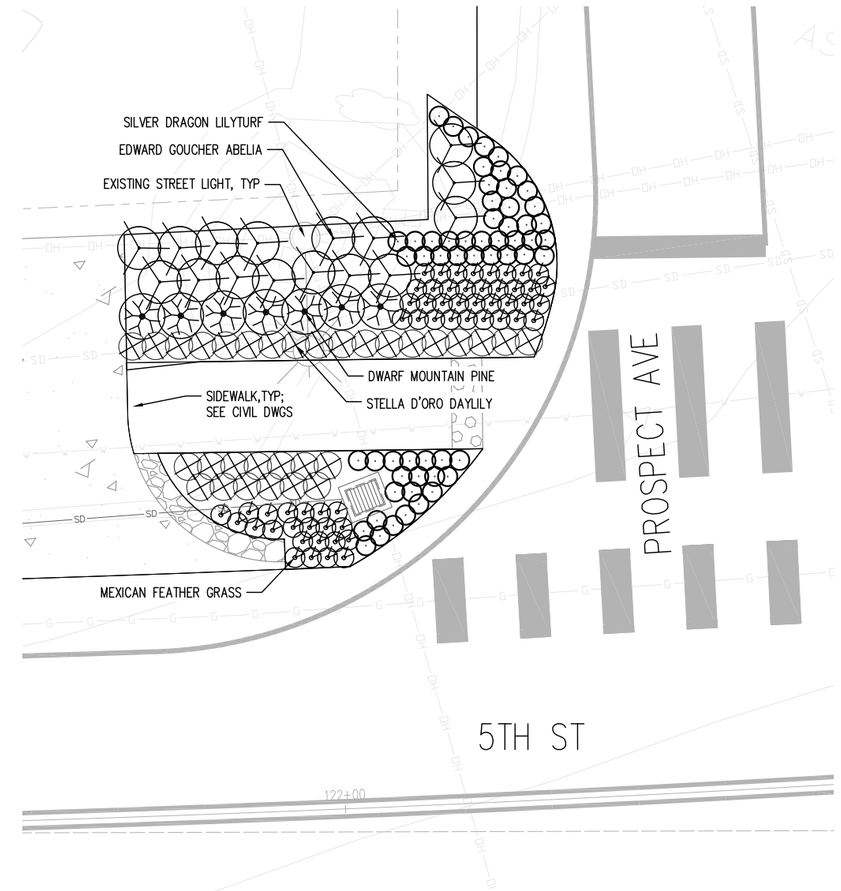


1 PLANTING ENLARGEMENT 6
SCALE: 1"=5'-0"



2 PLANTING ENLARGEMENT 7
SCALE: 1"=5'-0"

N

0 2.5 5 10
1 inch = 5 feet

NOT FOR CONSTRUCTION - 90 PERCENT

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PLANTING PLAN ENLARGEMENT

SHT. 68 OF 123

LP15

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mweiton
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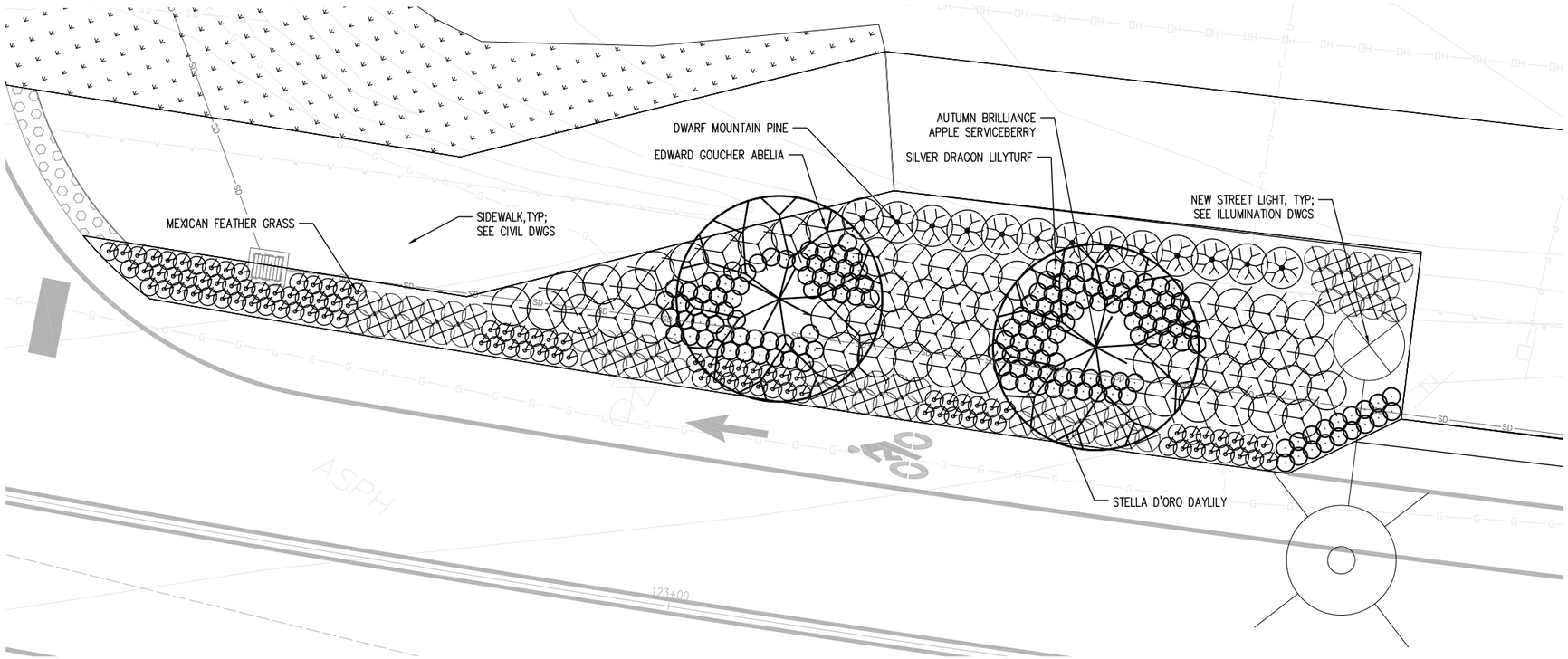
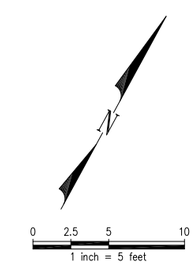


1 PLANTING ENLARGEMENT 8

SCALE: 1"=5'-0"



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PLANTING PLAN ENLARGEMENT

SHT. 69 OF 123

LP16

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mwalton
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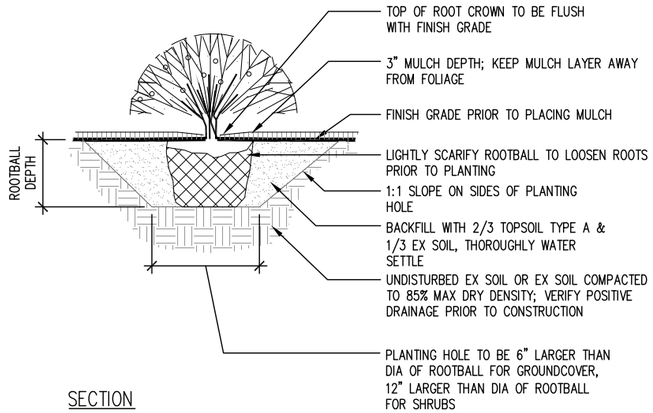
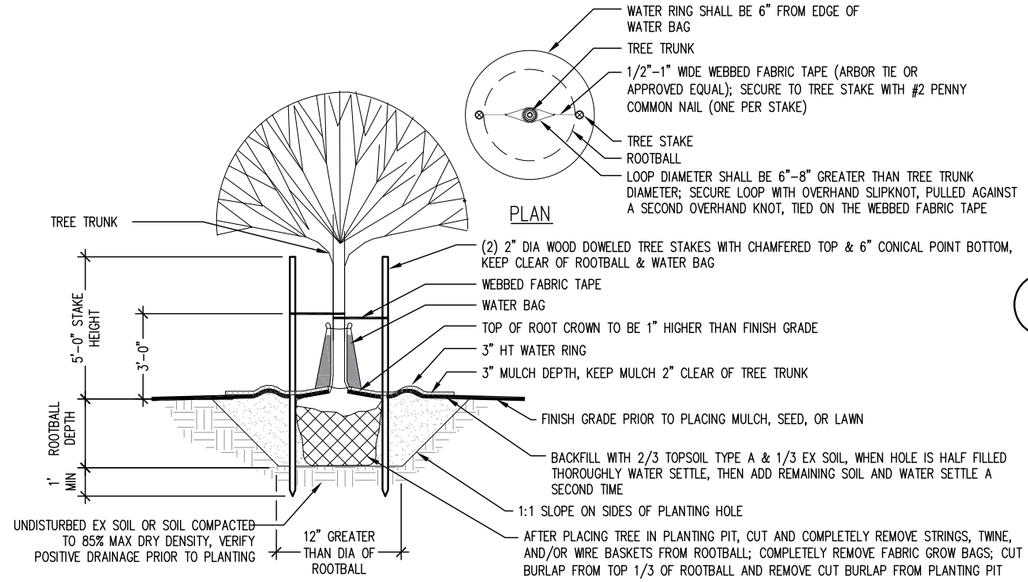


SECTION

1 SHRUB & GROUNDCOVER PLANTING

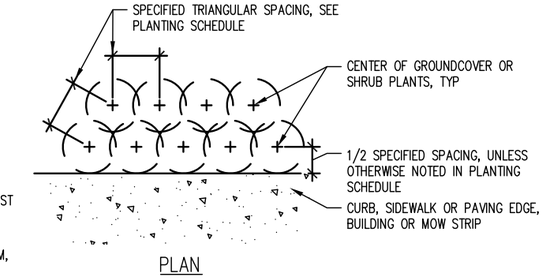
NOT TO SCALE



SECTION

2 DECIDUOUS TREE WITH WATER BAG

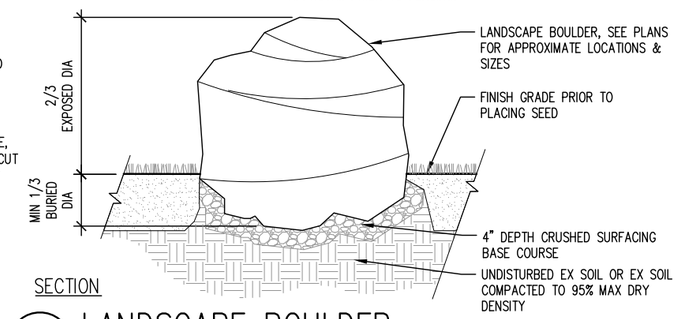
NOT TO SCALE



3 SHRUB & GROUNDCOVER PLANTING LAYOUT

NOT TO SCALE

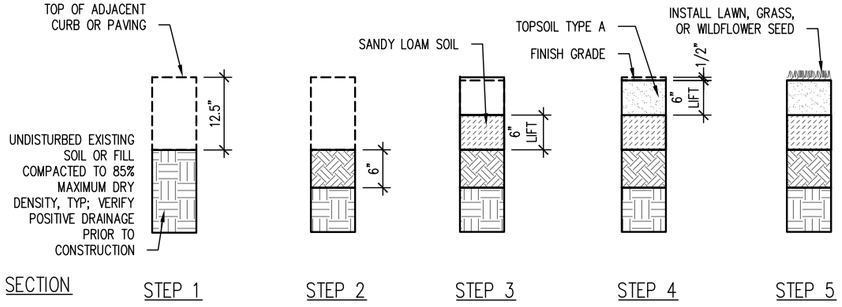
NOTES:
1. STAKE LANDSCAPE BOULDER LOCATIONS FOR RESIDENT ENGINEER APPROVAL PRIOR TO PLACING.



SECTION

4 LANDSCAPE BOULDER

NOT TO SCALE



STEP 1
EXCAVATE EXISTING SOIL TO 12.5" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE MATERIAL. PROVIDE PERCOLATION TEST, PER SPECS, PRIOR TO PROCEEDING TO STEP 2.

STEP 2
SCARIFY SUBGRADE TO A MINIMUM 6" DEPTH. RESIDENT ENGINEER SHALL REVIEW & APPROVE WORK PRIOR TO PROCEEDING TO STEP 3.

STEP 3
INSTALL MINIMUM 6" DEPTH OF SANDY LOAM SOIL. WATER SETTLE/COMPACT PRIOR TO PROCEEDING TO STEP 4.

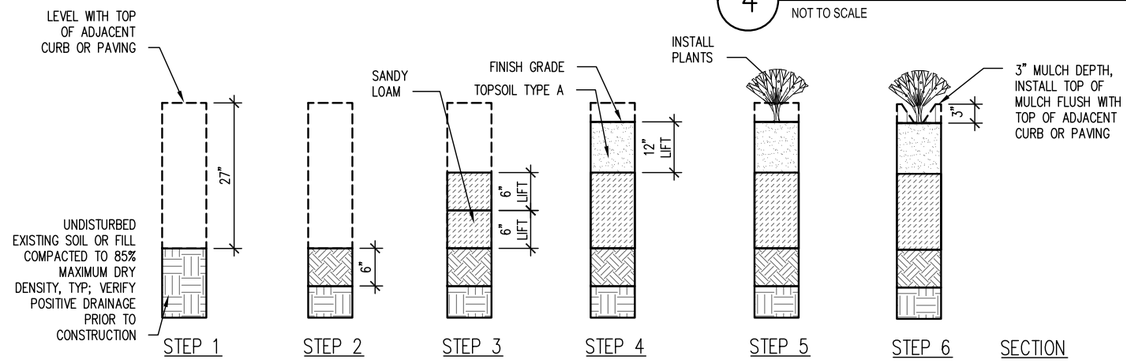
STEP 4
INSTALL MINIMUM 6" DEPTH OF TOPSOIL TYPE A. WATER SETTLE/COMPACT PRIOR TO INSTALLING LAWN SEED. REVIEW FINISH GRADE WITH RESIDENT ENGINEER PRIOR TO SEEDING.

STEP 5
INSTALL LAWN OR WILDFLOWER SEED.

NOTES
1. ALL DIMENSIONS INDICATE COMPACTED DEPTHS.

5 SOIL PREPARATION IN SEED AREAS

NOT TO SCALE



STEP 1
EXCAVATE EXISTING SOIL TO 27" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE MATERIAL. PROVIDE PERCOLATION TEST PER SPECS, PRIOR TO PROCEEDING TO STEP 2.

STEP 2
THOROUGHLY SCARIFY SUBGRADE TO A MIN 6" DEPTH. RESIDENT ENGINEER SHALL REVIEW & APPROVE WORK PRIOR TO PROCEEDING TO STEP 3.

STEP 3
INSTALL MINIMUM 12" DEPTH OF SANDY LOAM SOIL IN 6" LIFTS. WATER SETTLE/COMPACT EACH LIFT PRIOR TO INSTALLING THE NEXT LIFT.

STEP 4
INSTALL 12" DEPTH OF TOPSOIL TYPE A & WATER SETTLE/COMPACT PRIOR TO INSTALLING PLANTS. REVIEW FINISH GRADE WITH RESIDENT ENGINEER PRIOR TO PLANTING.

STEP 5
INSTALL PLANTS.

STEP 6
INSTALL 3" MULCH DEPTH.

NOTES
ALL DIMENSIONS INDICATE COMPACTED DEPTHS.

6 SOIL PREPARATION IN SHRUB & GROUNDCOVER AREAS

NOT TO SCALE

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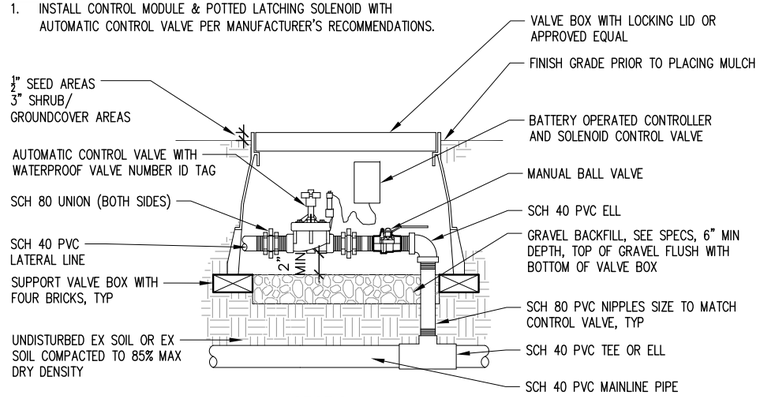
PLANTING DETAILS

LP17

P:\2021 projects\2021-01 5th st bicycle ped imp\Graphics\AutoCAD\L-PLOT.dwg
mwalton
Aug 19, 2022 - 4:10pm

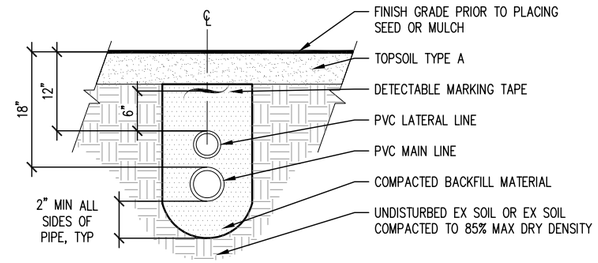
NOTE:
1. INSTALL CONTROL MODULE & POTTED LATCHING SOLENOID WITH AUTOMATIC CONTROL VALVE PER MANUFACTURER'S RECOMMENDATIONS.



SECTION

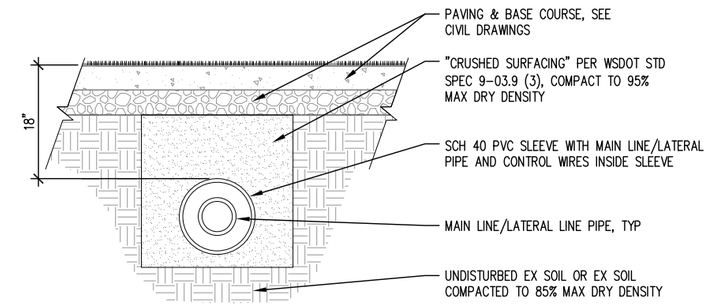
1 BATTERY OPERATED AUTOMATIC CONTROL VALVE
NOT TO SCALE

NOTES:
1. ALL MAIN LINE PIPE UNDER PAVEMENT SHALL BE SLEEVED, SEE DETAIL 3/LP18.
2. BACKFILL MATERIAL TO BE FREE OF ROCK OR DEBRIS LARGER THAN 1". ABSOLUTELY NO ROCK OR DEBRIS SHALL BE PLACED DIRECTLY ADJACENT TO ANY PIPE.



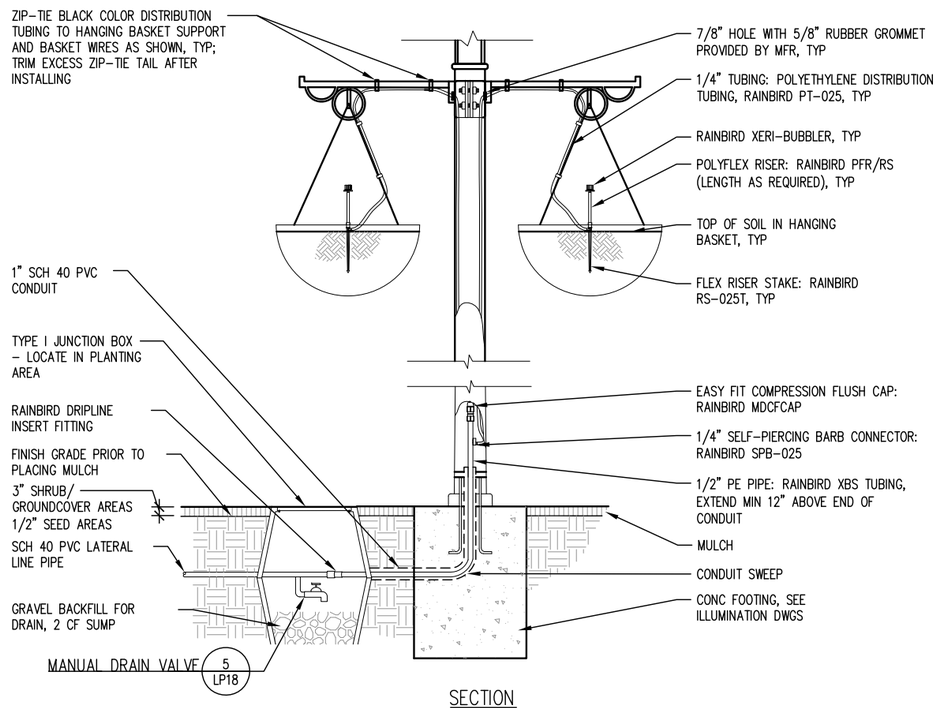
SECTION

2 MAIN AND LATERAL PIPE TRENCH
NOT TO SCALE



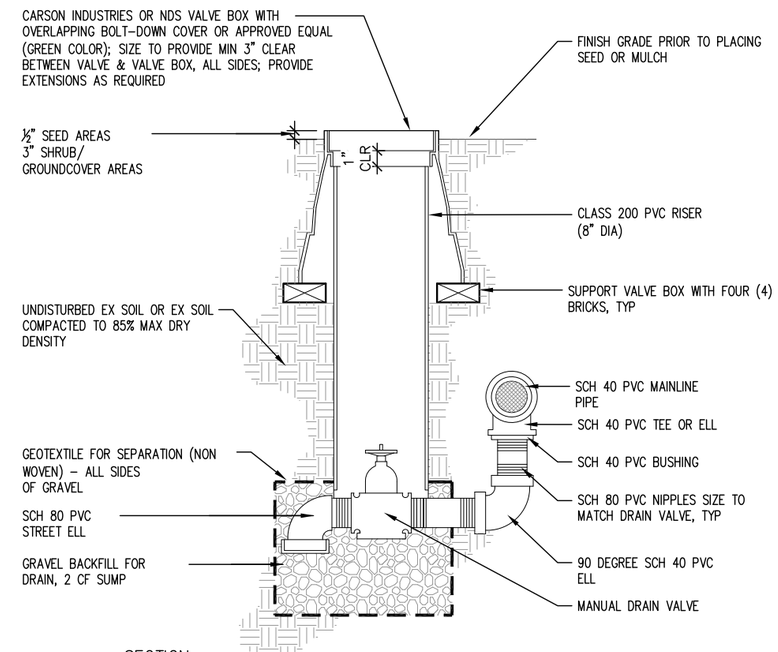
SECTION

3 PIPE SLEEVE UNDER PAVEMENT
NOT TO SCALE



SECTION

4 JUNCTION BOX AND DRIP CONNECTION AT LIGHT POLE
NOT TO SCALE



SECTION

5 MANUAL DRAIN VALVE
NOT TO SCALE

NOT FOR CONSTRUCTION - 90 PERCENT

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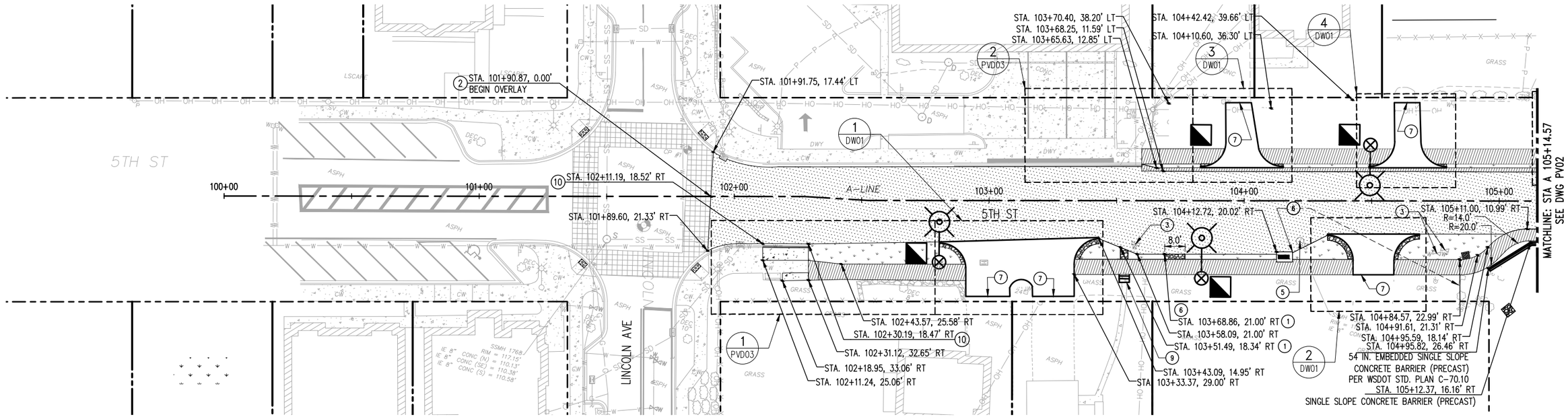
IRRIGATION DETAILS

LP18

P:\2021 projects\2021-01 5th st bicycle ped imp\Graphics\AutoCAD\L-PLOT.dwg
mwatton
Aug 19, 2022 - 4:10pm

S4 T28N R4E W.M.



LEGEND

- 6" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 OVERLAY
- DETECTABLE WARNING
- 4" CSTC
- LANDSCAPING
- 4" CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F30.10
- RIGHT-OF-WAY
- WALL, SEE WL SHEETS
- CATCH BASIN TYPE 2
- MAILBOX, SEE DETAIL 4 ON PVD01
- SEE LIGHTING PLAN FOR DETAILS
- EXISTING MAILBOX TO BE RELOCATED
- PEDESTRIAN RAILING. SEE WALL SHEETS FOR DETAILS
- 54 IN. EMBEDDED SINGLE SLOPE CONCRETE BARRIER (PRECAST) PER WSDOT STD. PLAN C-70.10

NOTES

1. SEE SITE PREP PLANS AND TYPICAL SECTIONS FOR ADDITIONAL PAVEMENT LIMIT CONTROL DUE TO PLANING AND REMOVALS
2. SEE GRADING PLANS FOR PROFILES AND GRADING CONTROL
3. SEE CHANNELIZATION PLANS FOR NEW AND RELOCATED SIGNS

CONSTRUCTION NOTES

1. GRAVEL WALK, SEE DETAIL 3 ON PVD01
2. MATCH EXISTING PAVEMENT
3. ADJUST WATER VALVE COVER TO GRADE
4. COORDINATE WITH OWNER FOR GAS VALVE ADJUSTMENT
5. ADJUST MANHOLE TO GRADE
6. RELOCATE EXISTING MAILBOX, SEE DETAIL 4 ON PVD01. CONTRACTOR TO COORDINATE WITH LOCAL POSTMASTER
7. DRIVEWAY APPROACH TYPE M, SEE DETAIL 1 ON PVD01
8. 4' WOOD GATE PER COM STD PLAN SW-099
9. CEMENT CONCRETE STAIRS, SEE DETAIL 2 ON PVD02
10. CEMENT CONCRETE TRAFFIC CURB & GUTTER. SEE WSDOT STD. PLAN F-10.12-03

N

0 10 20 40
1 inch = 20 feet

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NO.	DATE	BY	CHD.	APPR.	REVISION

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S C A L E: 1" = 20'

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MUKILTEO, WA

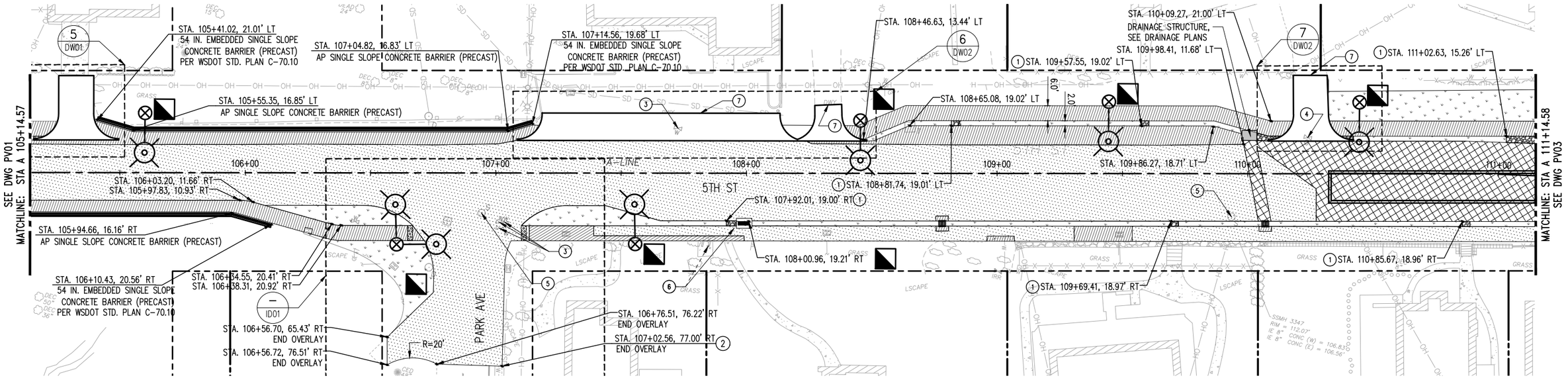
PAVING PLAN

SHT. 72 OF 123

PV01

C:\Temp\AcPublish_35104\M5TH - PV.dwg
tjmg
Aug 19, 2022 - 7:39pm

S4 T28N R4E W.M.



LEGEND

- 6" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 OVERLAY
- DETECTABLE WARNING
- 4" CSTC
- LANDSCAPING
- 4" CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F30.10
- RIGHT-OF-WAY
- WALL, SEE WL SHEETS
- CATCH BASIN TYPE 2
- MAILBOX, SEE DETAIL 4 ON PVD01
- SEE LIGHTING PLAN FOR DETAILS
- EXISTING MAILBOX TO BE RELOCATED
- PEDESTRIAN RAILING. SEE WALL SHEETS FOR DETAILS
- 54 IN. EMBEDDED SINGLE SLOPE CONCRETE BARRIER (PRECAST) PER WSDOT STD. PLAN C-70.10

NOTES

1. SEE SITE PREP PLANS AND TYPICAL SECTIONS FOR ADDITIONAL PAVEMENT LIMIT CONTROL DUE TO PLANING AND REMOVALS
2. SEE GRADING PLANS FOR PROFILES AND GRADING CONTROL
3. SEE CHANNELIZATION PLANS FOR NEW AND RELOCATED SIGNS

CONSTRUCTION NOTES

1. GRAVEL WALK, SEE DETAIL 3 ON PVD01
2. MATCH EXISTING PAVEMENT
3. ADJUST WATER VALVE COVER TO GRADE
4. COORDINATE WITH OWNER FOR GAS VALVE ADJUSTMENT
5. ADJUST MANHOLE TO GRADE
6. RELOCATE EXISTING MAILBOX, SEE DETAIL 4 ON PVD01. CONTRACTOR TO COORDINATE WITH LOCAL POSTMASTER
7. DRIVEWAY APPROACH TYPE M, SEE DETAIL 1 ON PVD01
8. 4' WOOD GATE PER COM STD PLAN SW-099
9. CEMENT CONCRETE STAIRS, SEE DETAIL 2 ON PVD02
10. CEMENT CONCRETE TRAFFIC CURB & GUTTER. SEE WSDOT STD. PLAN F-10.12-03

N

0 10 20 40
1 inch = 20 feet

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DATE 08/2022
JOB No. :2000722

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SCALE: 1" = 20'

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MUKILTEO, WA

PAVING PLAN

SHT. 73 OF 123

PV02

C:\Temp\AcPublish_35104\M5TH - PV.dwg
tmg
Aug 19, 2022 - 7:30pm

S4 T28N R4E W.M.

LEGEND

- 6" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 ON 4" CSBC
- 2" HMA CL 1/2", PG 58H-22 OVERLAY
- DETECTABLE WARNING
- 4" CSTC
- LANDSCAPING
- 4" CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F30.10
- RIGHT-OF-WAY
- WALL, SEE WL SHEETS
- CATCH BASIN TYPE 2
- MAILBOX, SEE DETAIL 4 ON PVD01
- SEE LIGHTING PLAN FOR DETAILS
- EXISTING MAILBOX TO BE RELOCATED
- PEDESTRIAN RAILING. SEE WALL SHEETS FOR DETAILS
- 54 IN. EMBEDDED SINGLE SLOPE CONCRETE BARRIER (PRECAST) PER WSDOT STD. PLAN C-70.10

CONSTRUCTION NOTES

1. GRAVEL WALK, SEE DETAIL 3 ON PVD01
2. MATCH EXISTING PAVEMENT
3. ADJUST WATER VALVE COVER TO GRADE
4. COORDINATE WITH OWNER FOR GAS VALVE ADJUSTMENT
5. ADJUST MANHOLE TO GRADE
6. RELOCATE EXISTING MAILBOX, SEE DETAIL 4 ON PVD01. CONTRACTOR TO COORDINATE WITH LOCAL POSTMASTER
7. DRIVEWAY APPROACH TYPE M, SEE DETAIL 1 ON PVD01
8. 4' WOOD GATE PER COM STD PLAN SW-099
9. CEMENT CONCRETE STAIRS, SEE DETAIL 2 ON PVD02
10. CEMENT CONCRETE TRAFFIC CURB & GUTTER. SEE WSDOT STD. PLAN F-10.12-03

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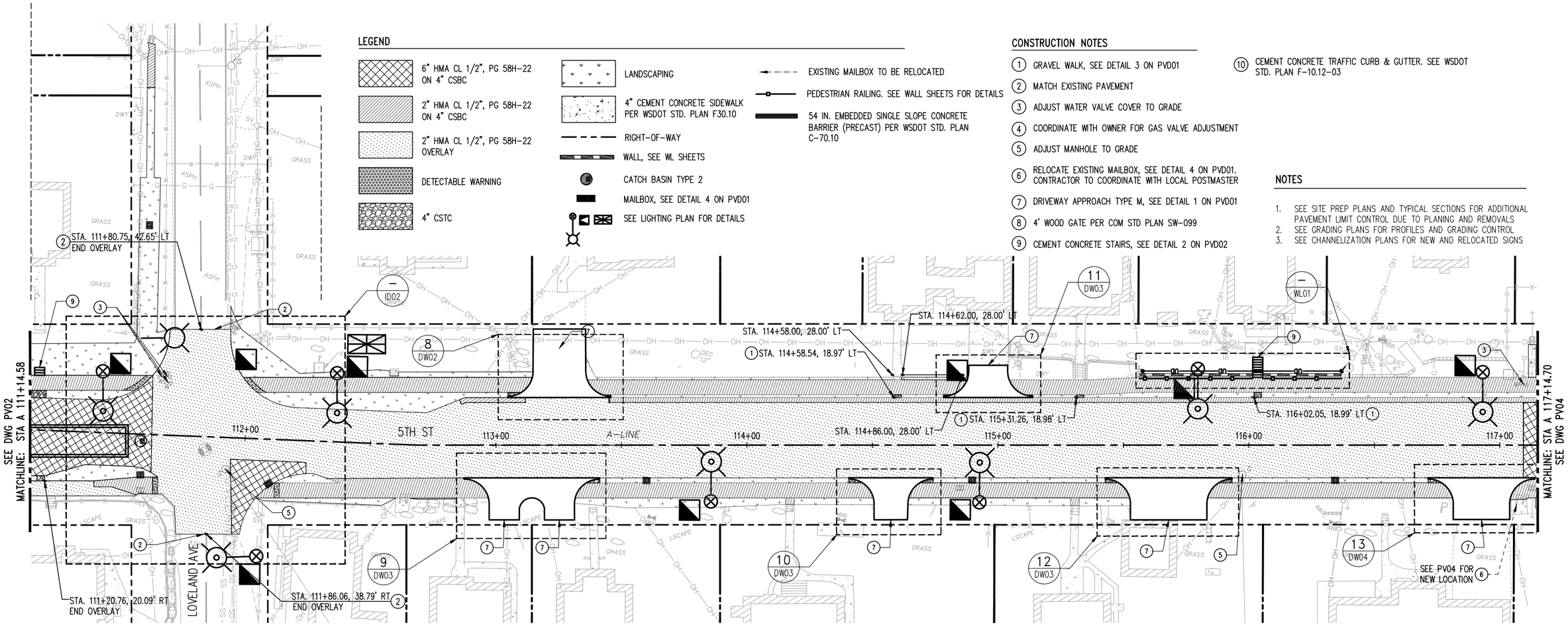

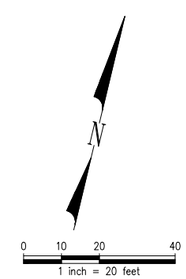

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PV03

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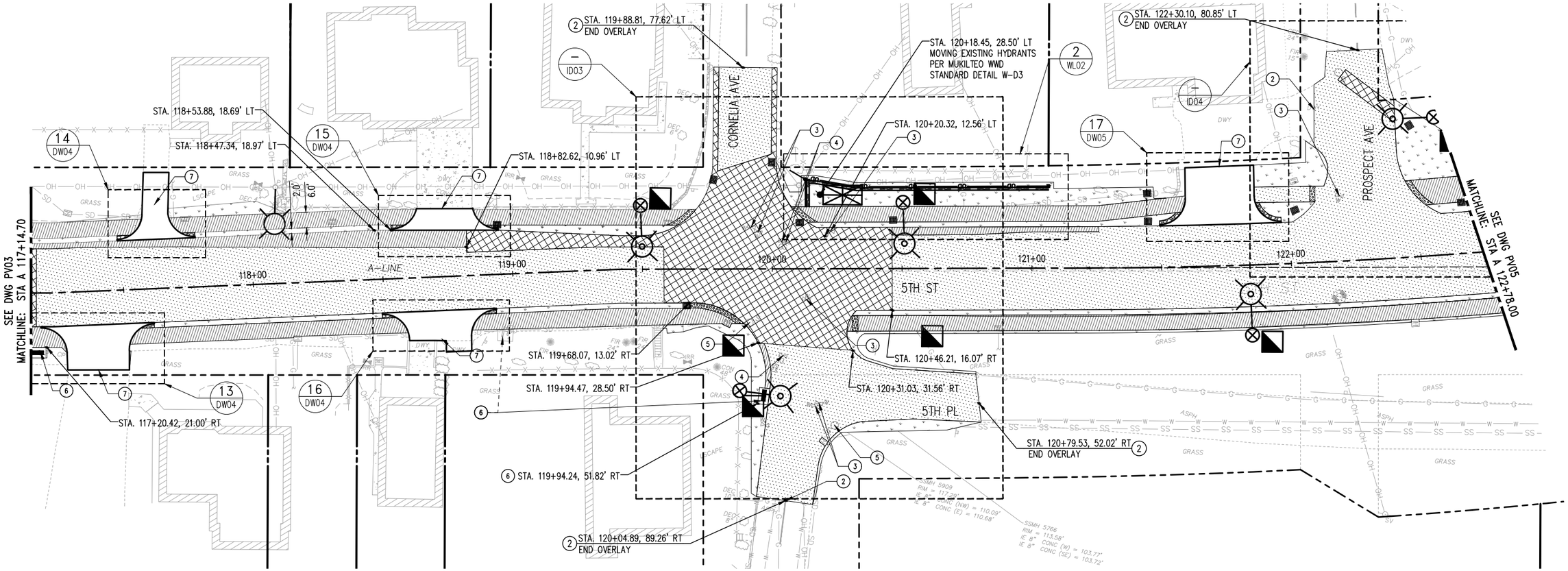

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- 2" HMA CL 1/2", PG 58H-22 OVERLAY
- DETECTABLE WARNING
- 4" CSTC
- LANDSCAPING
- 4" CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F30.10
- RIGHT-OF-WAY
- WALL, SEE WL SHEETS
- CATCH BASIN TYPE 2
- MAILBOX, SEE DETAIL 4 ON PVD01
- SEE LIGHTING PLAN FOR DETAILS
- EXISTING MAILBOX TO BE RELOCATED
- PEDESTRIAN RAILING. SEE WALL SHEETS FOR DETAILS
- 54 IN. EMBEDDED SINGLE SLOPE CONCRETE BARRIER (PRECAST) PER WSDOT STD. PLAN C-70.10

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N

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PV04

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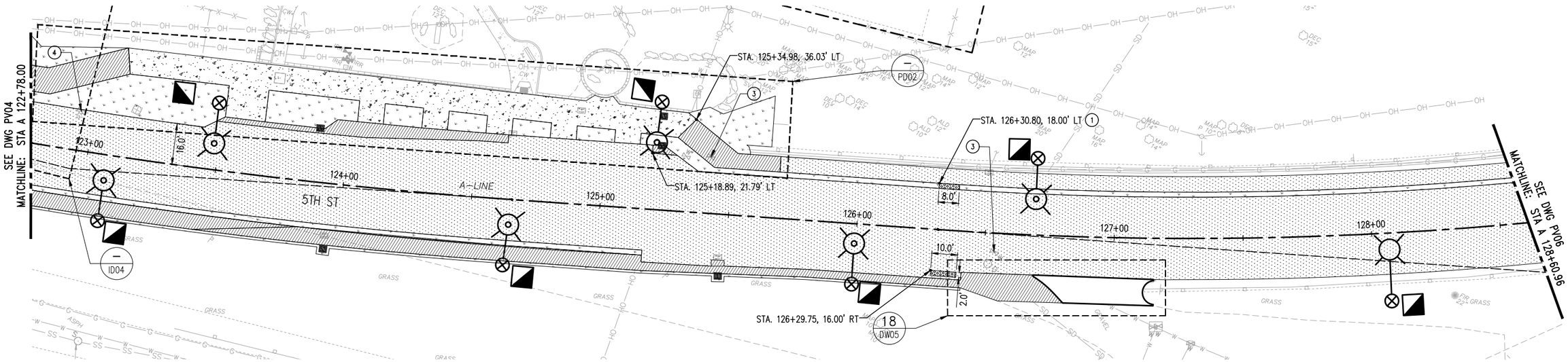

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N

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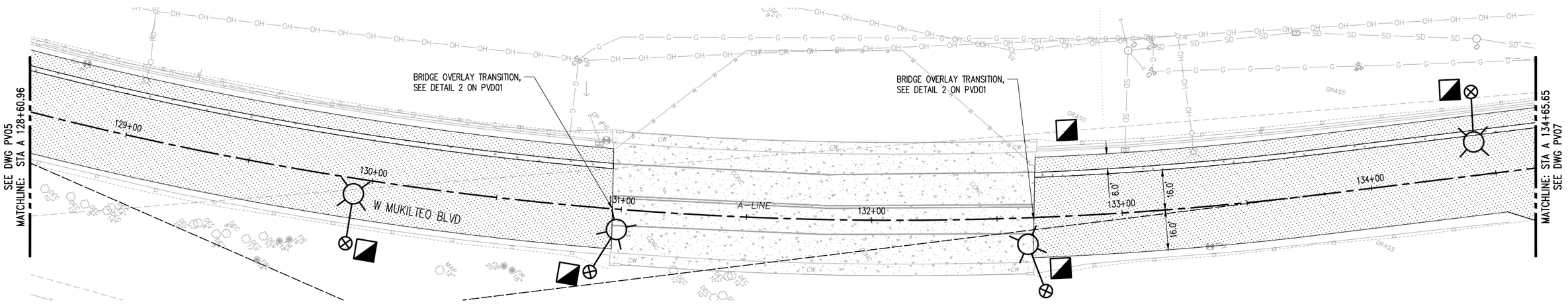

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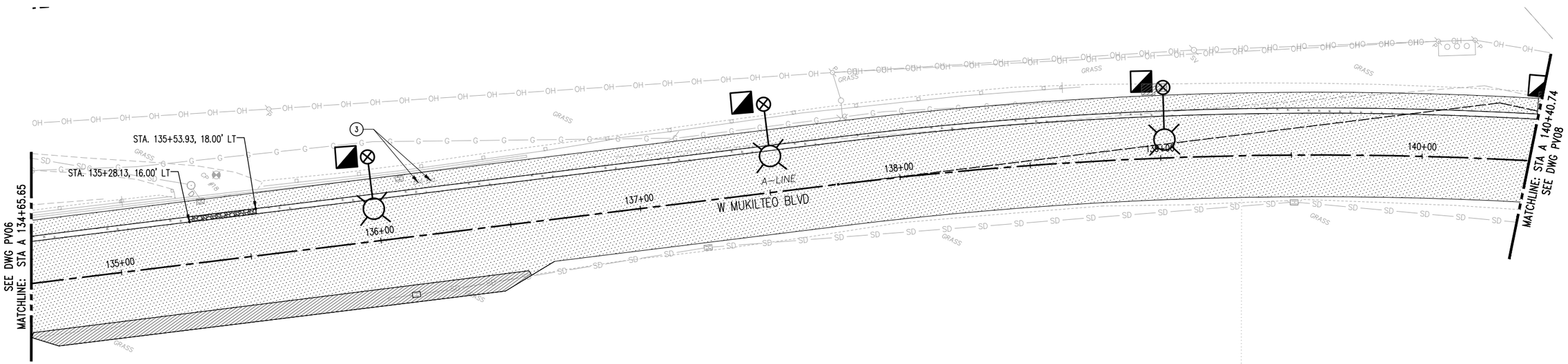

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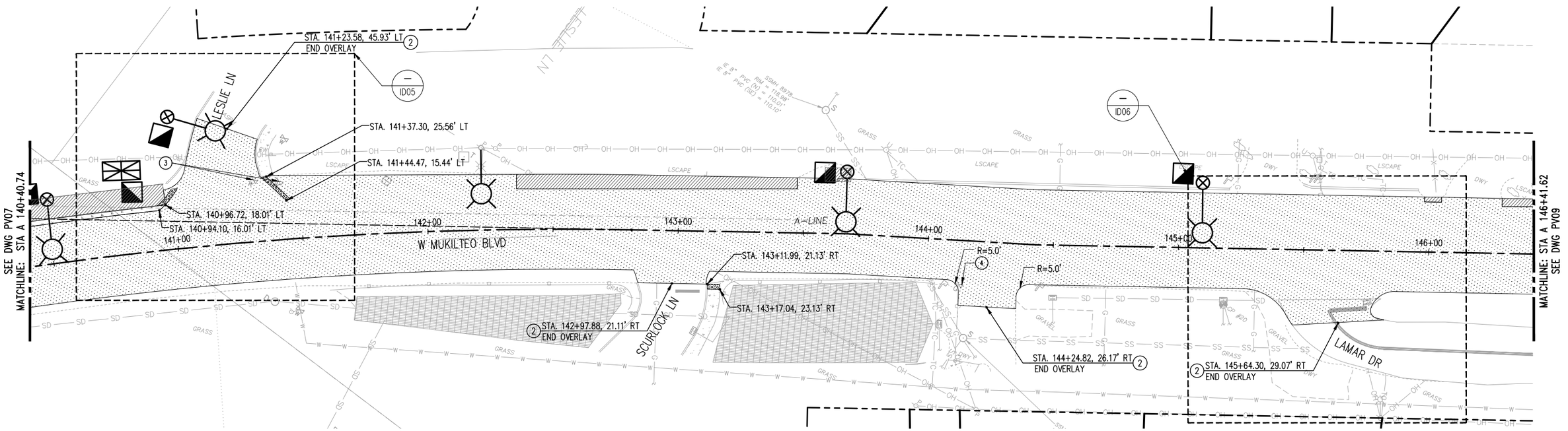

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PV08

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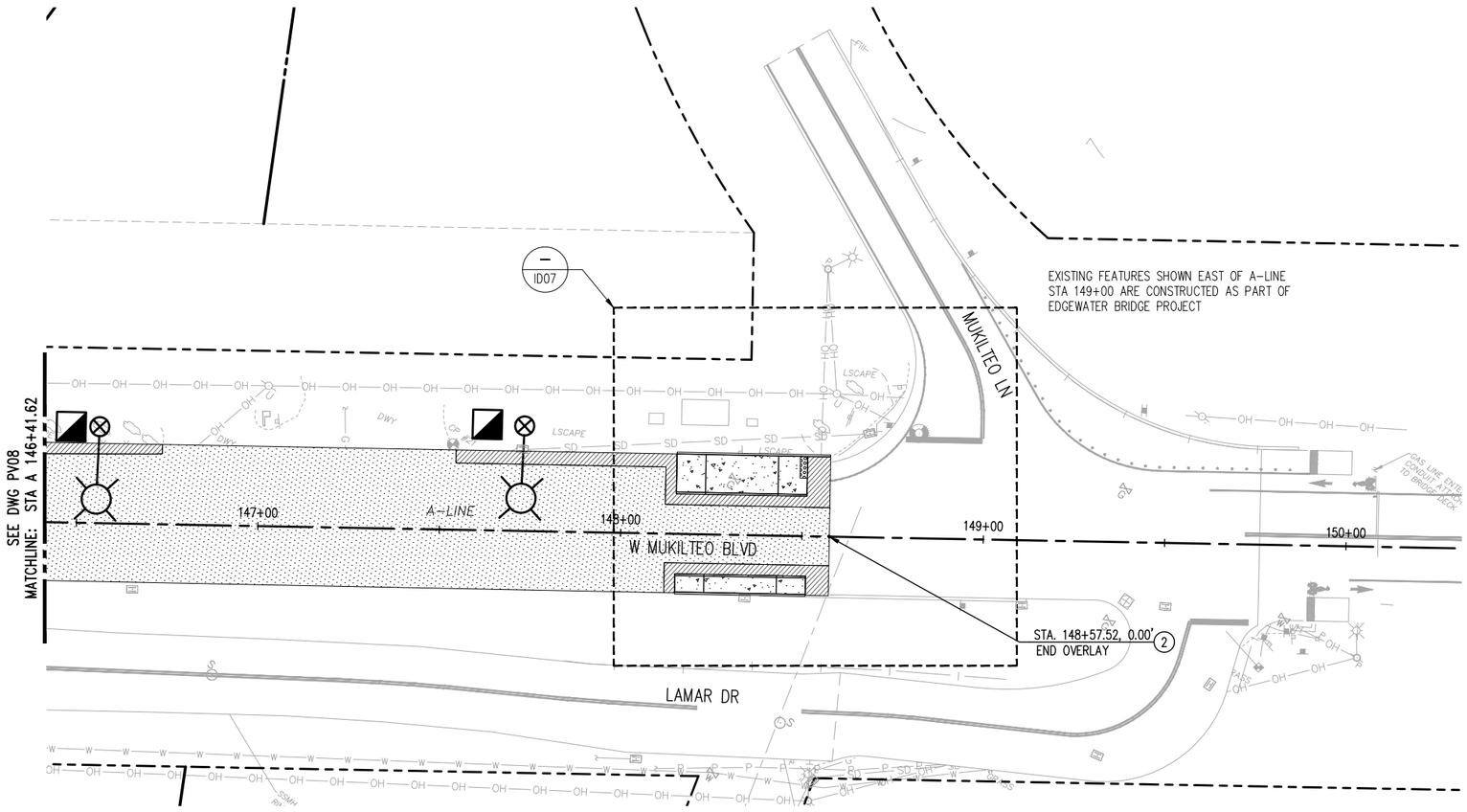

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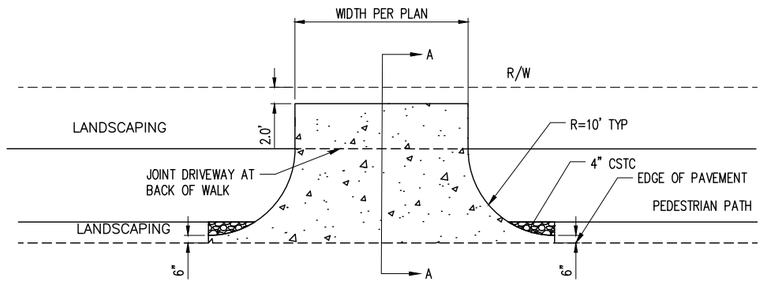

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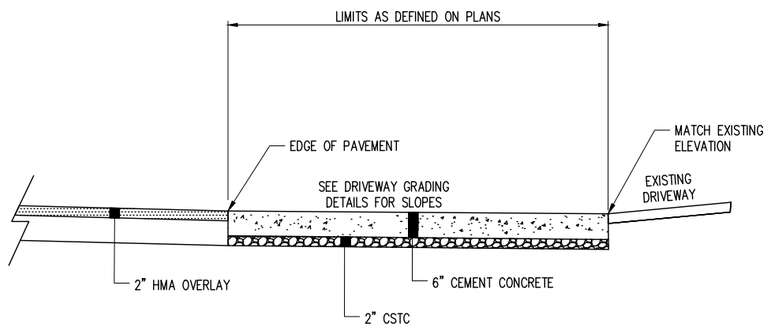


SECTION A–A

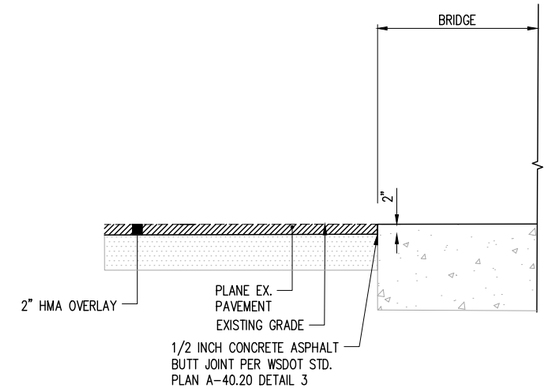
NOTES:

1. PAVEMENT/DRIVEWAY INTERFACE MUST BE A CLEAN STRAIGHT SURFACE WITH A 3/8" MIN. X FULL DEPTH EXPANSION JOINT. 3/8" MIN. THICKNESS OF PREMOLDED JOINT MATERIAL REQUIRED. (NO CEDAR).

DRIVEWAY APPROACH TYPE M

SCALE: NTS

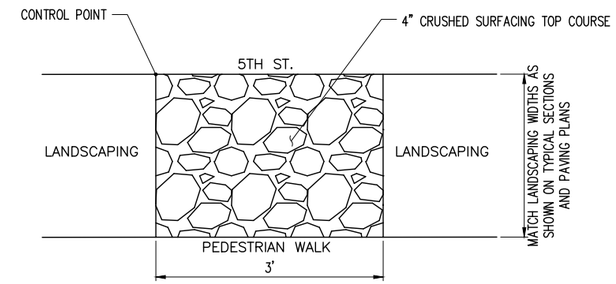
1 PV01–PV04



BRIDGE OVERLAY TRANSITION DETAIL

SCALE: NTS

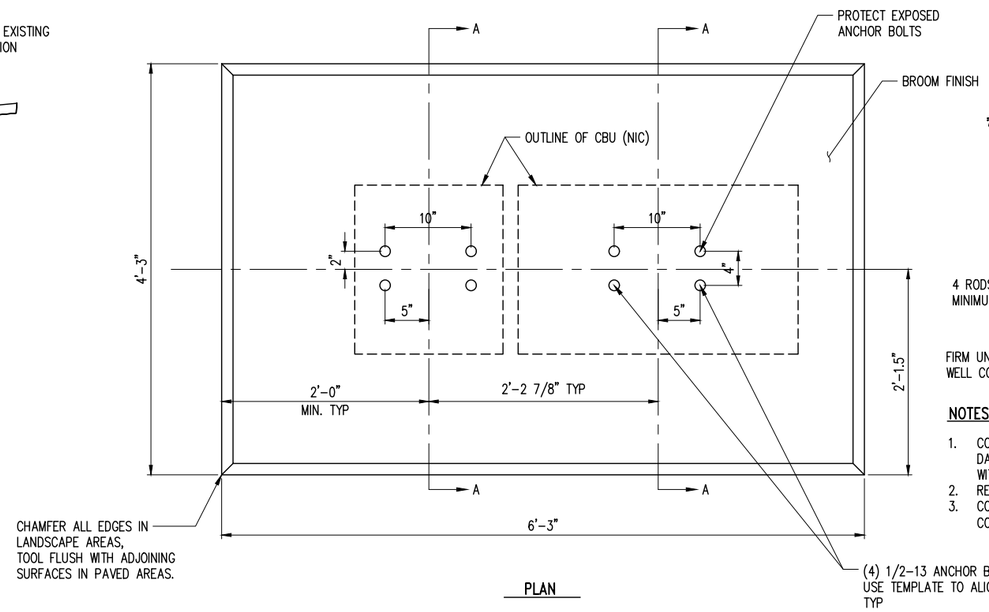
2 PV06



GRAVEL WALK DETAIL

SCALE: NTS

3 PV01–PV04



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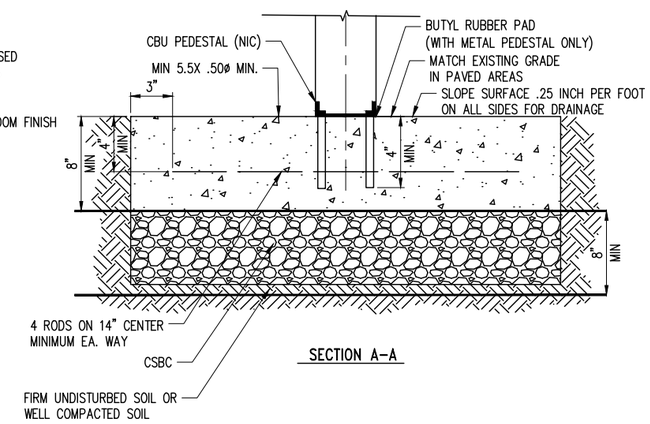

SECTION A–A

NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONTAIN 4% MIN. – 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50 – 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCED STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60
3. CONTRACTOR TO NOTIFY MUKILTEO POSTMASTER ONCE FOUNDATIONS IS CONSTRUCTED FOR INSTALLATION OF CBU (CLUSTER BOX UNIT)

MAILBOX FOUNDATION

SCALE: NTS

4 PV01–PV04

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PAVING DETAILS

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PVD01

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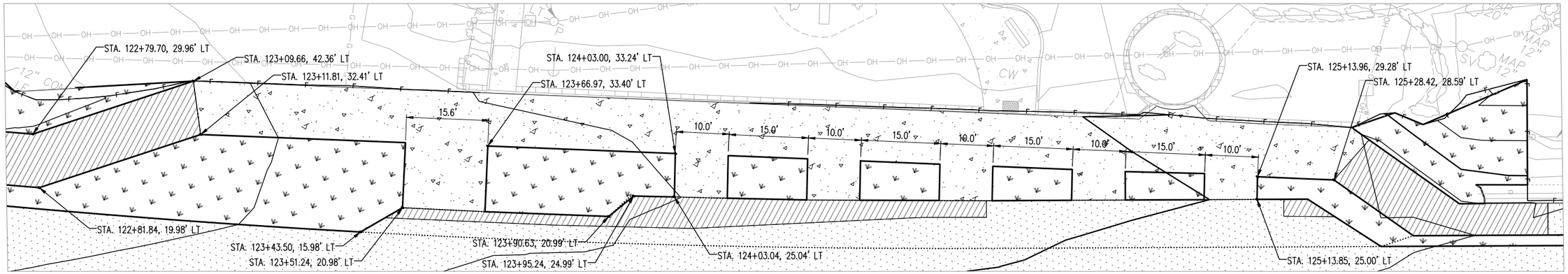
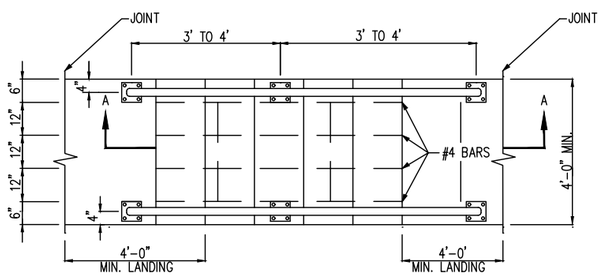


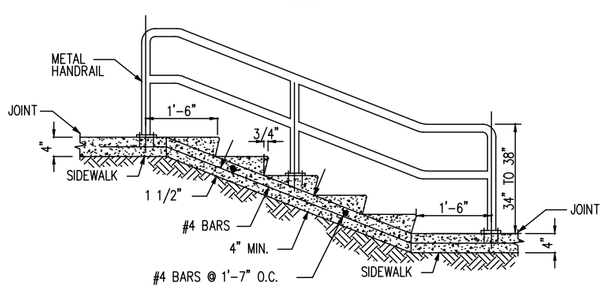
PAVING DETAIL

SCALE: NTS

PV05



CONCRETE STEPS
PLAN



CONCRETE STEPS
SECTION A-A

NOTES FOR CONCRETE STEPS:

1. CONCRETE: CEMENT CONCRETE CLASS 3000.
2. ALL STEPS: SAME DIMENSIONS, WITHIN 3/8" MAX. DIFFERENCE.
3. RISERS: 7" MAX., 5" MIN.
4. TREADS: 12" MAX., 11" MIN., WITH TRANSVERSE 0.01 FT./FT. SLOPE.
5. METAL HANDRAIL REQUIRED FOR ALL STAIRWAYS, WITH 2 OR MORE STEPS, SEE NOTES BELOW.
6. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-615, GRADE 60 AND ARE REQUIRED FOR 4 STEPS OR MORE.
7. MAX. VERTICAL DISTANCE BETWEEN LANDINGS IS 12'.

NOTES FOR HANDRAILS:

1. GALVANIZED STEEL OR ALUMINUM (40 GAUGE MIN).
2. 2" O.D. ROUND PIPE.
3. WELDED, WITH SMOOTH SURFACE AND JOINTS.
4. TOP OF GRIPPING SURFACE MUST BE BETWEEN 34" AND 38" ABOVE SIDEWALK.
5. BOLT ALL HANDRAILS TO SIDEWALK WITH 4-BOLT SQUARE WELDED PLATES AS SHOWN.

STAIRWAY DETAIL

SCALE: NTS

PV01-PV03

N

0 2.5 5 10
1 inch = 5 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. : 2000722
S C A L E: 1" = 20'

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PAVING DETAILS

PVD02

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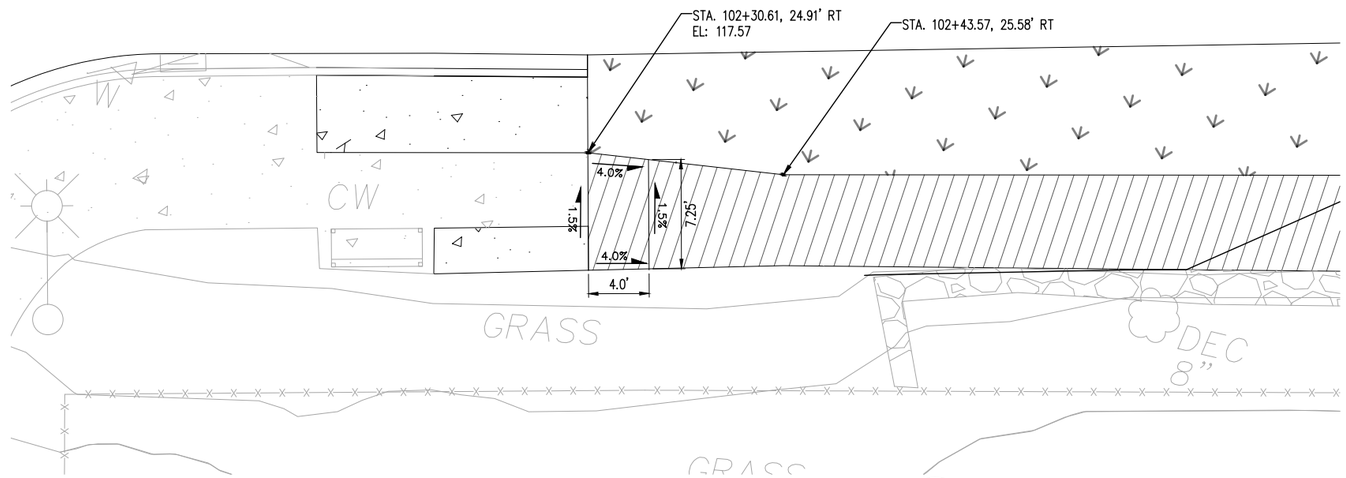
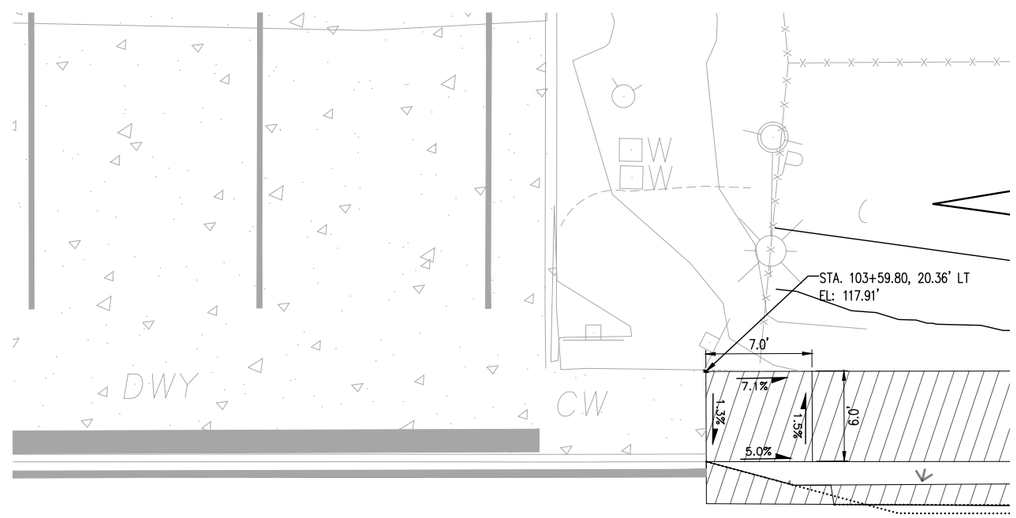


PAVING AND GRADING DETAIL (1 / PVD03)
SCALE: 1" = 5'



PAVING AND GRADING DETAIL (2 / PVD03)
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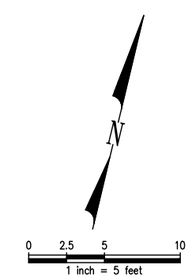

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J O B No. :2000722
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PAVING DETAILS

SHT. 83 OF 123

PVD03

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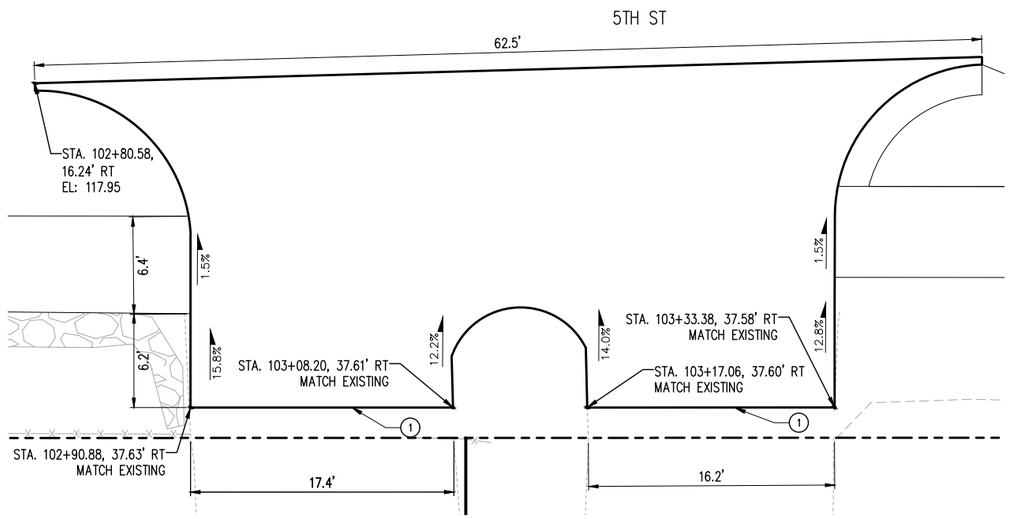
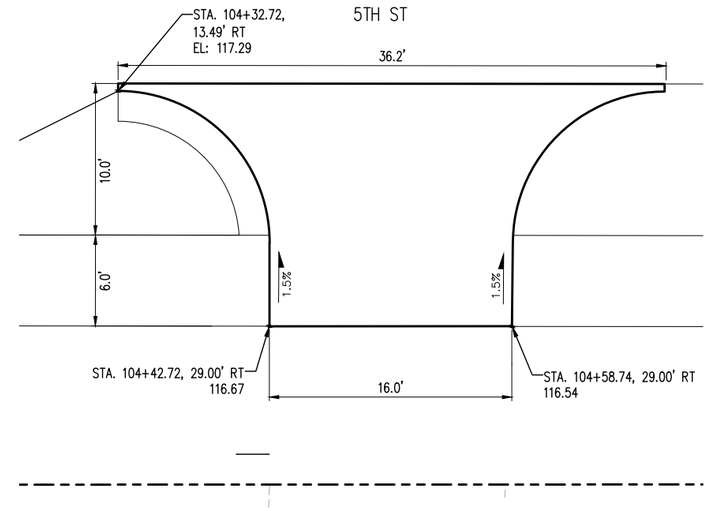


DRIVEWAY GRADING DETAIL 1 PV01
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 2 PV01
SCALE: 1" = 5'

GENERAL NOTES

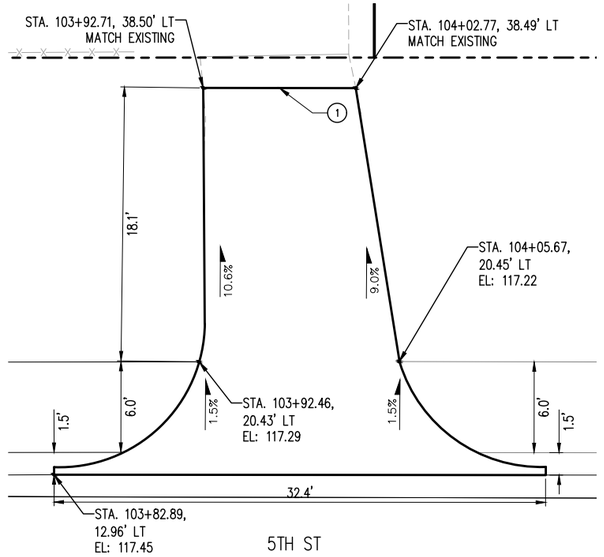
1. FOR INTERSECTION DETAILS, SEE ID SERIES SHEETS
2. FOR ROADWAY DETAILS, SEE RD SERIES SHEETS

CONSTRUCTION NOTES

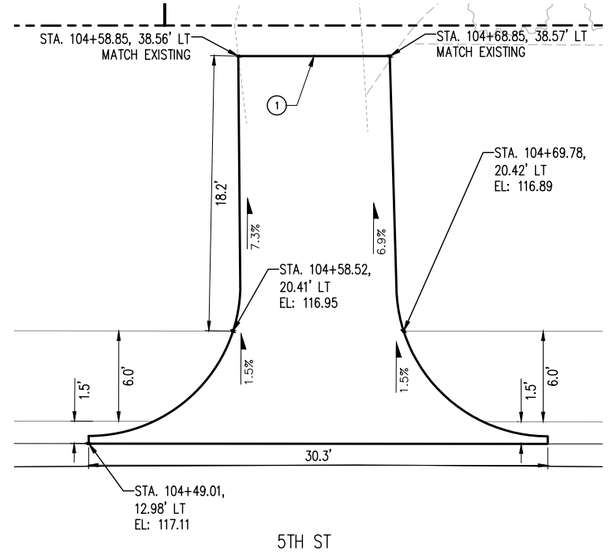
1. MATCH EXISTING GRADE

LEGEND

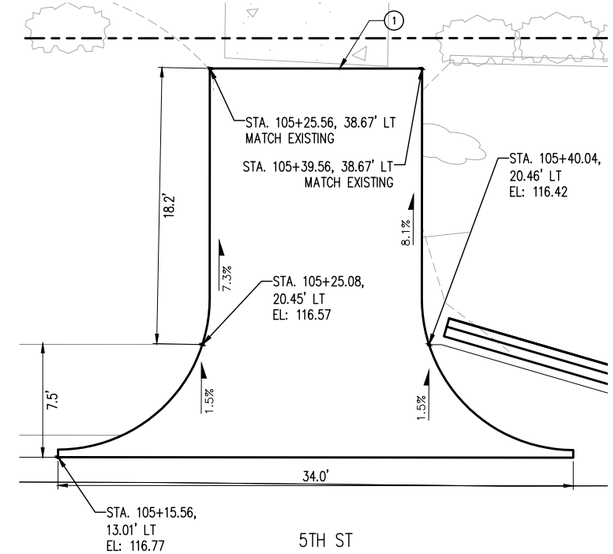
GRADE BREAK



DRIVEWAY GRADING DETAIL 3 PV01
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 4 PV01
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 5 PV02
SCALE: 1" = 5'

N

0 5 10 20
1 inch = 10 feet

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S C A L E: 1" = 10'

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DRIVEWAY DETAILS

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DW01

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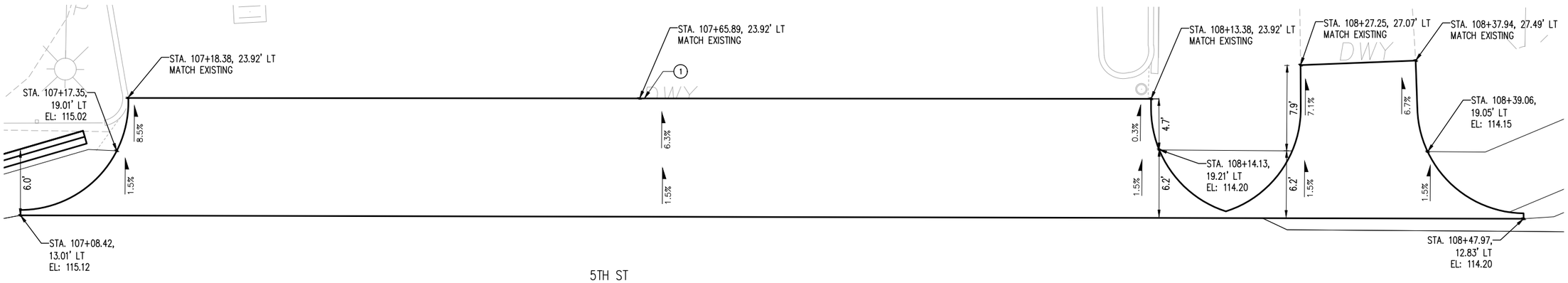
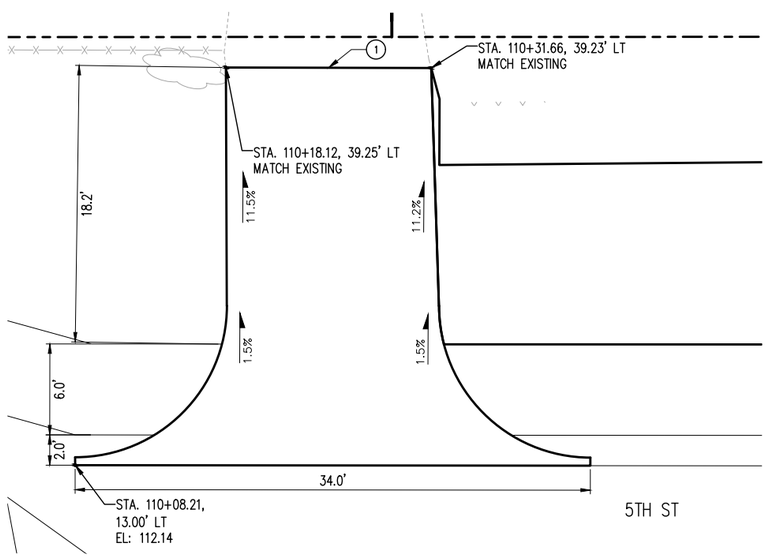
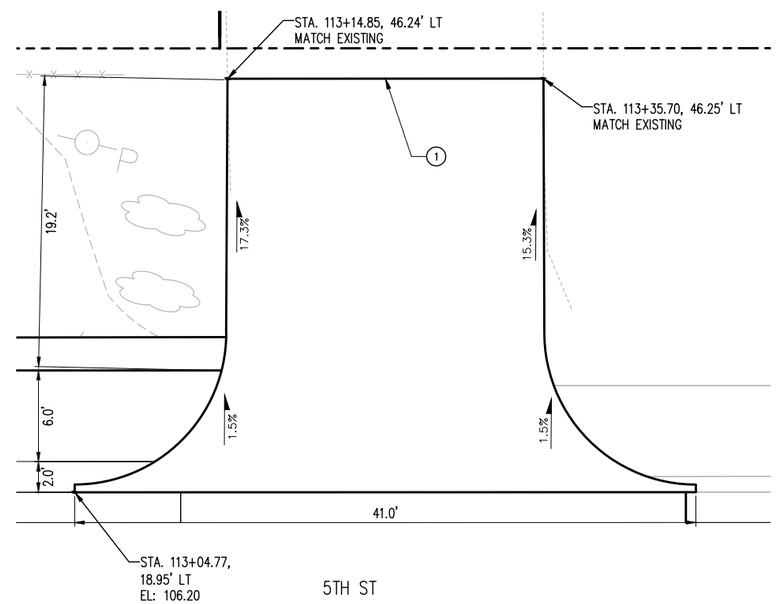


DRIVEWAY GRADING DETAIL 6 PV02
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 7 PV02
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 8 PV03
SCALE: 1" = 5'

GENERAL NOTES

1. FOR INTERSECTION DETAILS, SEE ID SERIES SHEETS
2. FOR ROADWAY DETAILS, SEE RD SERIES SHEETS

CONSTRUCTION NOTES

1 MATCH EXISTING GRADE

LEGEND

GRADE BREAK

N

0 5 10 20
1 inch = 10 feet

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S C A L E: 1" = 10'

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DRIVEWAY DETAILS

SHT. 85 OF 123

DW02

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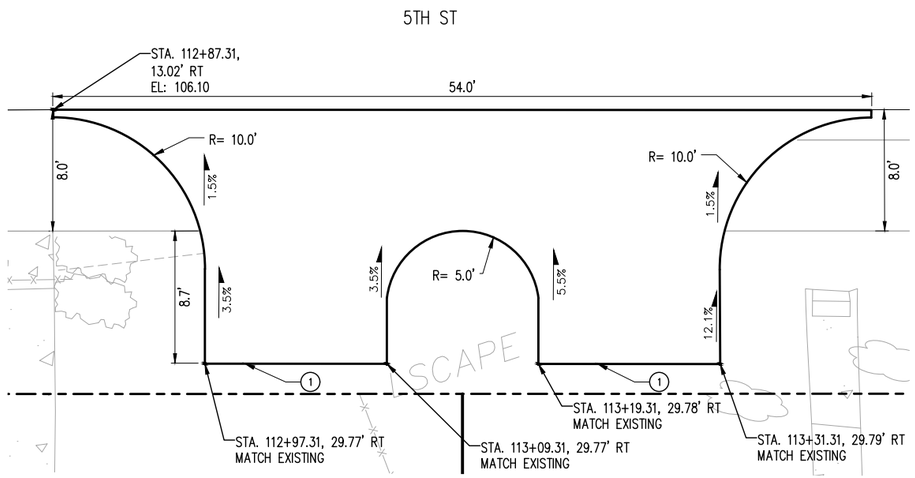
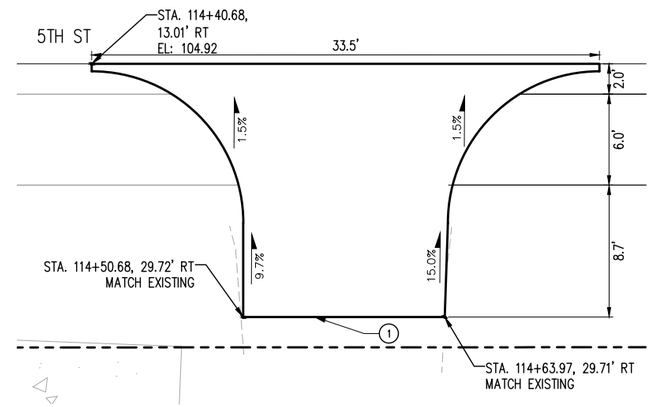


DRIVEWAY GRADING DETAIL 9 PV03
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 10 PV03
SCALE: 1" = 5'

GENERAL NOTES

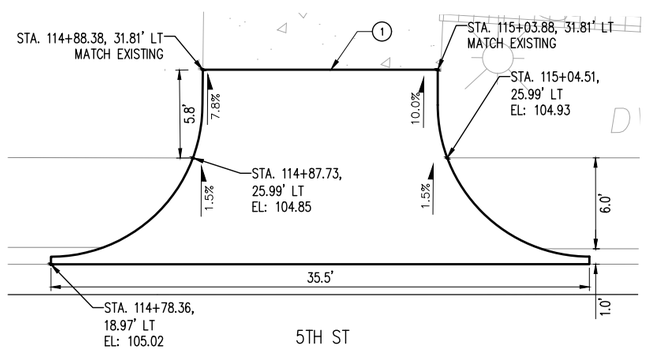
1. FOR INTERSECTION DETAILS, SEE ID SERIES SHEETS
2. FOR ROADWAY DETAILS, SEE RD SERIES SHEETS

CONSTRUCTION NOTES

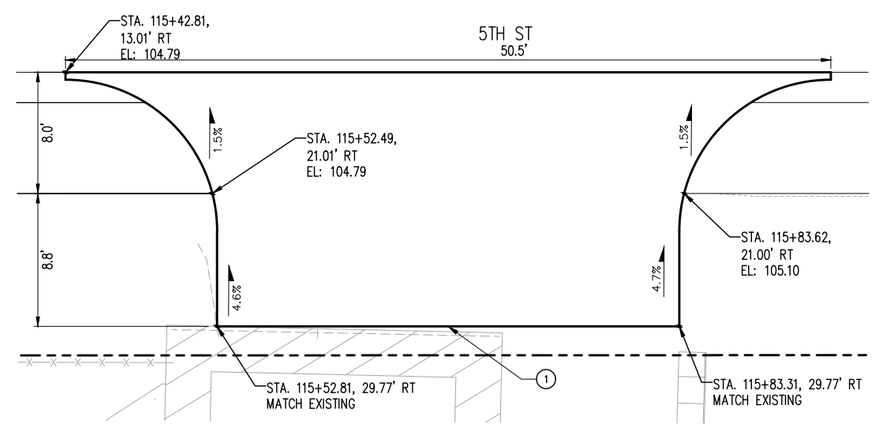
1 MATCH EXISTING GRADE

LEGEND

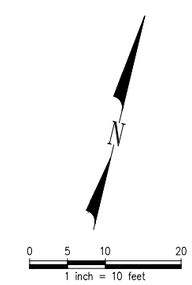
GRADE BREAK



DRIVEWAY GRADING DETAIL 11 PV03
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 12 PV03
SCALE: 1" = 5'



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DRIVEWAY DETAILS

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DW03

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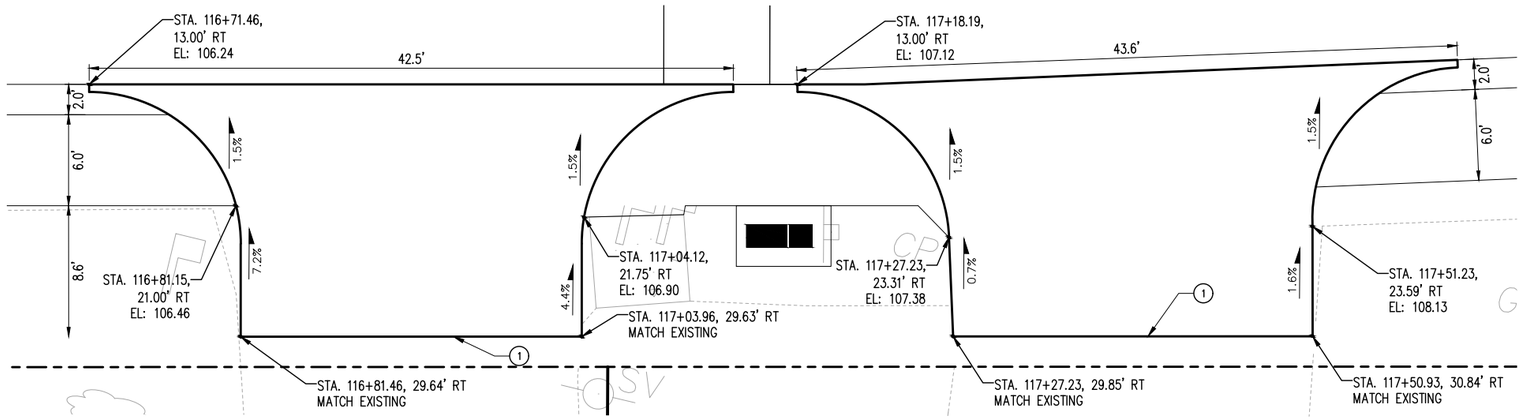


DRIVEWAY GRADING DETAIL 13 PV03

SCALE: 1" = 5'

GENERAL NOTES

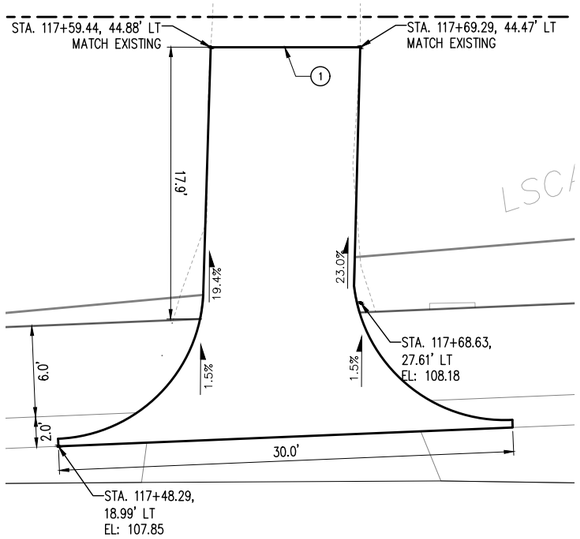
1. FOR INTERSECTION DETAILS, SEE ID SERIES SHEETS
2. FOR ROADWAY DETAILS, SEE RD SERIES SHEETS

CONSTRUCTION NOTES

(1) MATCH EXISTING GRADE

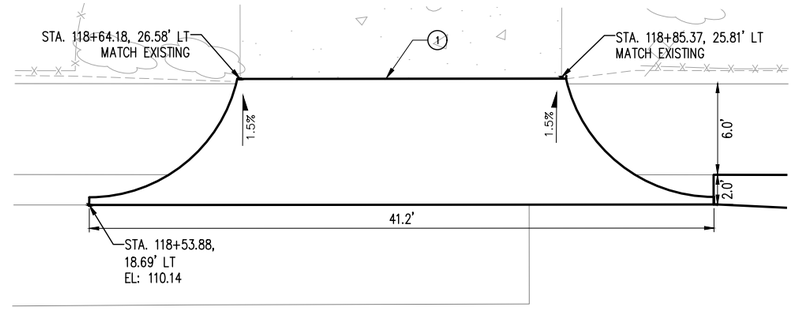
LEGEND

GRADE BREAK



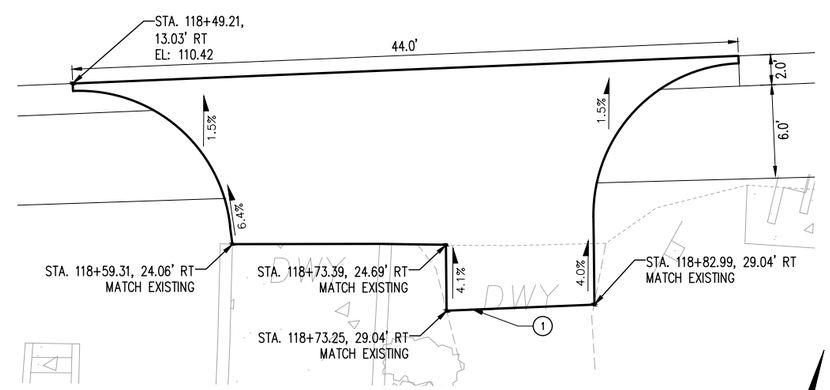
DRIVEWAY GRADING DETAIL 14 PV04

SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 15 PV04

SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL 16 PV04

SCALE: 1" = 5'

N

0 5 10 20
1 inch = 10 feet

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SCALE: 1" = 10'

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GENERAL NOTES

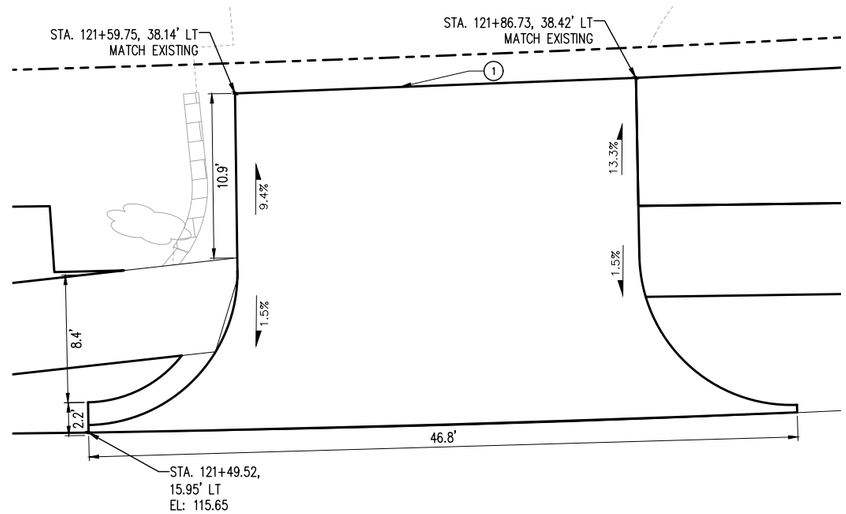
1. FOR INTERSECTION DETAILS, SEE ID SERIES SHEETS
2. FOR ROADWAY DETAILS, SEE RD SERIES SHEETS

CONSTRUCTION NOTES

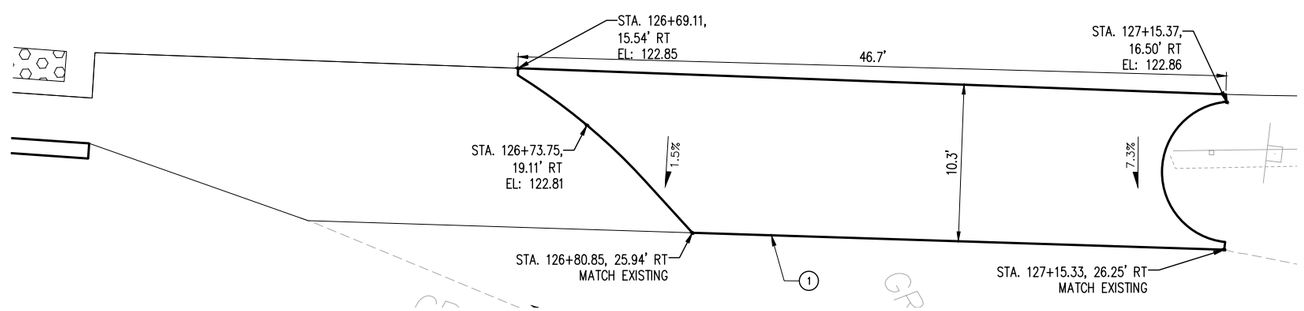
(1) MATCH EXISTING GRADE

LEGEND

GRADE BREAK



DRIVEWAY GRADING DETAIL (17) PV04
SCALE: 1" = 5'



DRIVEWAY GRADING DETAIL (18) PV05
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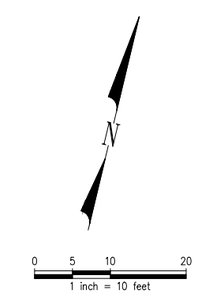

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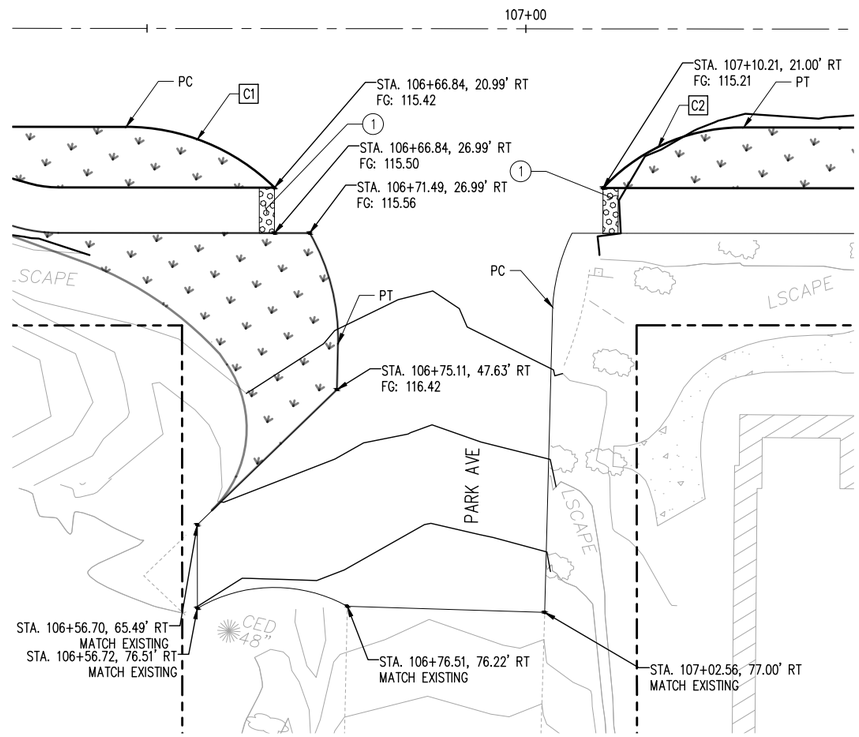
S4 T28N R4E W.M.

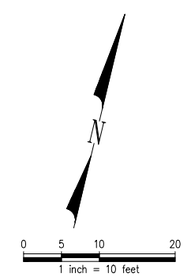
CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C1	PC	A STA. 106+47.24, 13.00' RT	115.46	Δ=91°12'36" T=28.60' L=44.57' R=28.00'
	1/4	A STA. 106+58.10, 15.18' RT	115.43	
	1/2	A STA. 106+67.25, 21.40' RT	115.43	
	3/4	A STA. 106+73.28, 30.68' RT	115.70	
	PT	A STA. 106+75.24, 41.58' RT	116.06	
C2	PC	A STA. 107+03.57, 36.73' RT	115.53	Δ=87°33'00" T=23.97' L=34.61 R=25.00'
	1/4	A STA. 107+05.85, 27.51' RT	115.28	
	1/2	A STA. 107+11.40, 19.80' RT	115.19	
	3/4	A STA. 107+19.42, 14.71' RT	115.02	
	PT	A STA. 107+28.76, 13.00' RT	114.91	



INTERSECTION DETAIL (1 / PV02)
SCALE: 1" = 10'



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INTERSECTION DETAILS

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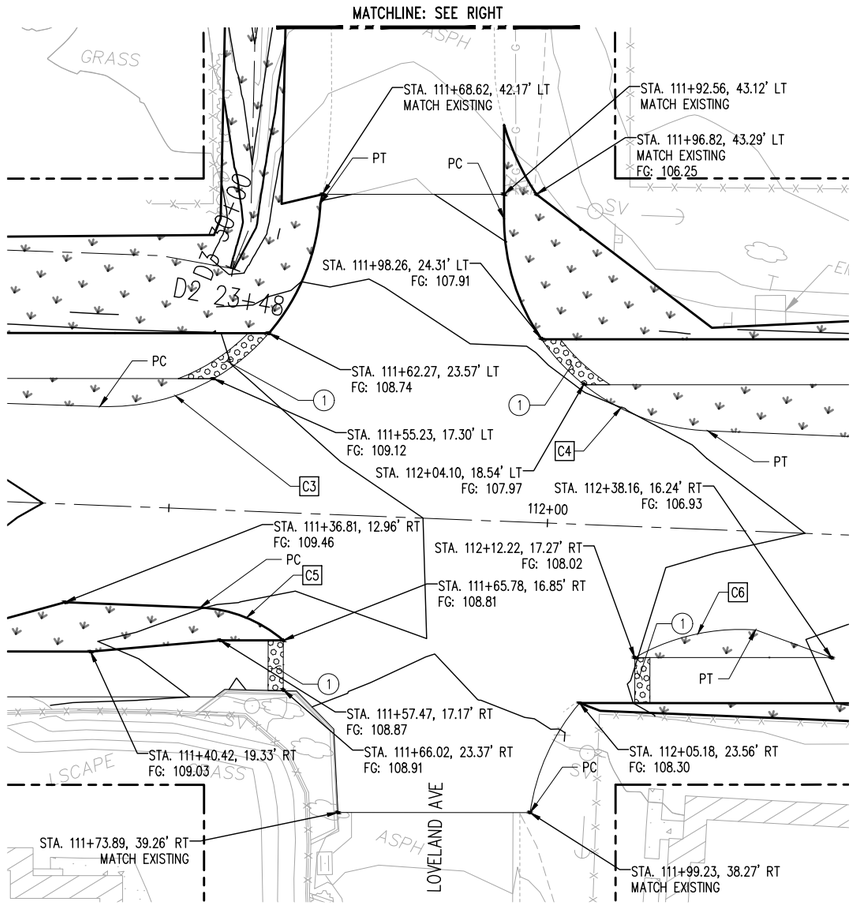
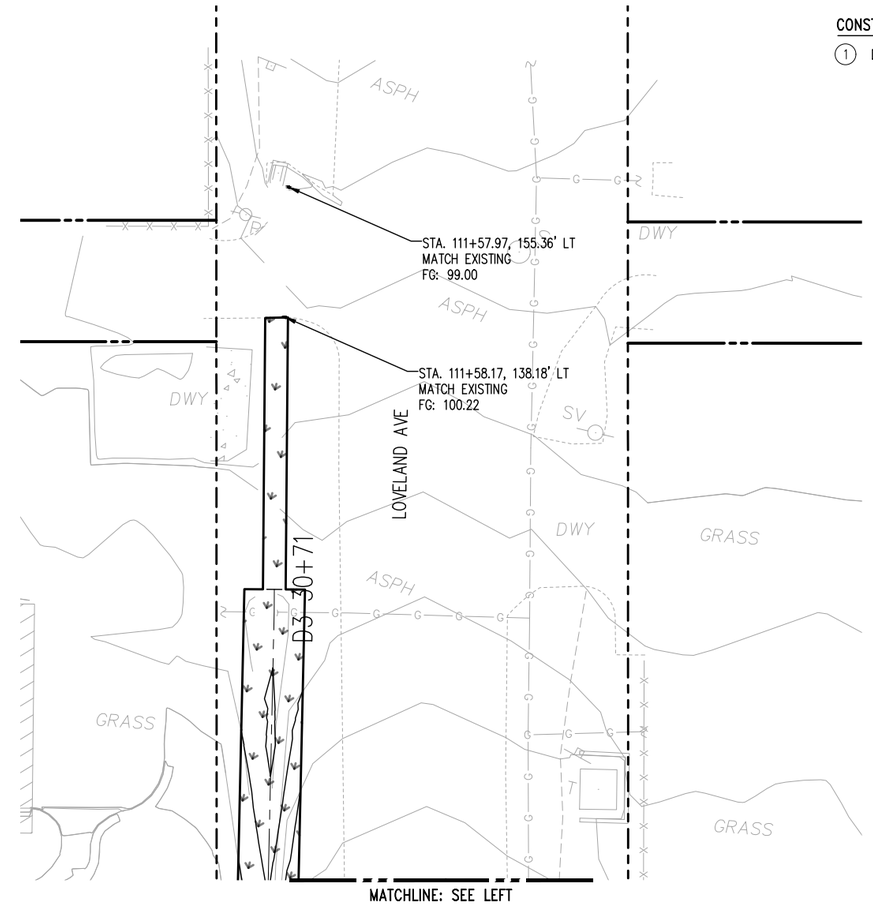
S4 T28N R4E W.M.





CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

INTERSECTION DETAIL 2 (PV03)

SCALE: 1" = 10'

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C3	PC	A STA. 111+40.67, 13.04' LT	109.40	Δ=89°49'48" T=27.92' L=43.90' R=28.00'
	1/4	A STA. 111+51.07, 15.16' LT	109.22	
	1/2	A STA. 111+60.14, 21.20' LT	108.87	
	3/4	A STA. 111+66.22, 30.25' LT	108.03	
	PT	A STA. 111+68.38, 40.94' LT	107.03	
C4	PC	A STA. 111+92.69, 39.89' LT	106.78	Δ=89°42'00" T=26.90' L=42.86' R=28.00'
	1/4	A STA. 111+95.13, 29.53' LT	107.58	
	1/2	A STA. 112+01.26, 20.82' LT	107.96	
	3/4	A STA. 112+10.20, 15.03' LT	108.00	
	PT	A STA. 112+20.66, 13.01' LT	107.91	

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C5	PC	A STA. 111+54.62, 12.97' RT	109.02	Δ=79°38'24" T=15.01' L=25.02' R=18.00'
	1/4	A STA. 111+60.75, 14.05' RT	108.85	
	1/2	A STA. 111+66.15, 17.15' RT	108.82	
	3/4	A STA. 111+70.17, 21.90' RT	108.91	
	PT	A STA. 111+72.32, 27.74' RT	109.13	
C6	PC	A STA. 111+99.24, 38.27' RT	109.57	Δ=86°19'48" T=26.26 L=42.19 R=28.00'
	1/4	A STA. 112+02.19, 28.21' RT	109.19	
	1/2	A STA. 112+08.63, 19.94' RT	108.17	
	3/4	A STA. 112+17.67, 14.62' RT	107.78	
	PT	A STA. 112+28.03, 13.00' RT	107.26	

N

0 5 10 20
1 inch = 10 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

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DATE 08/2022
JOB No. :2000722

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SCALE: 1" = 10'

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MUKILTEO, WA

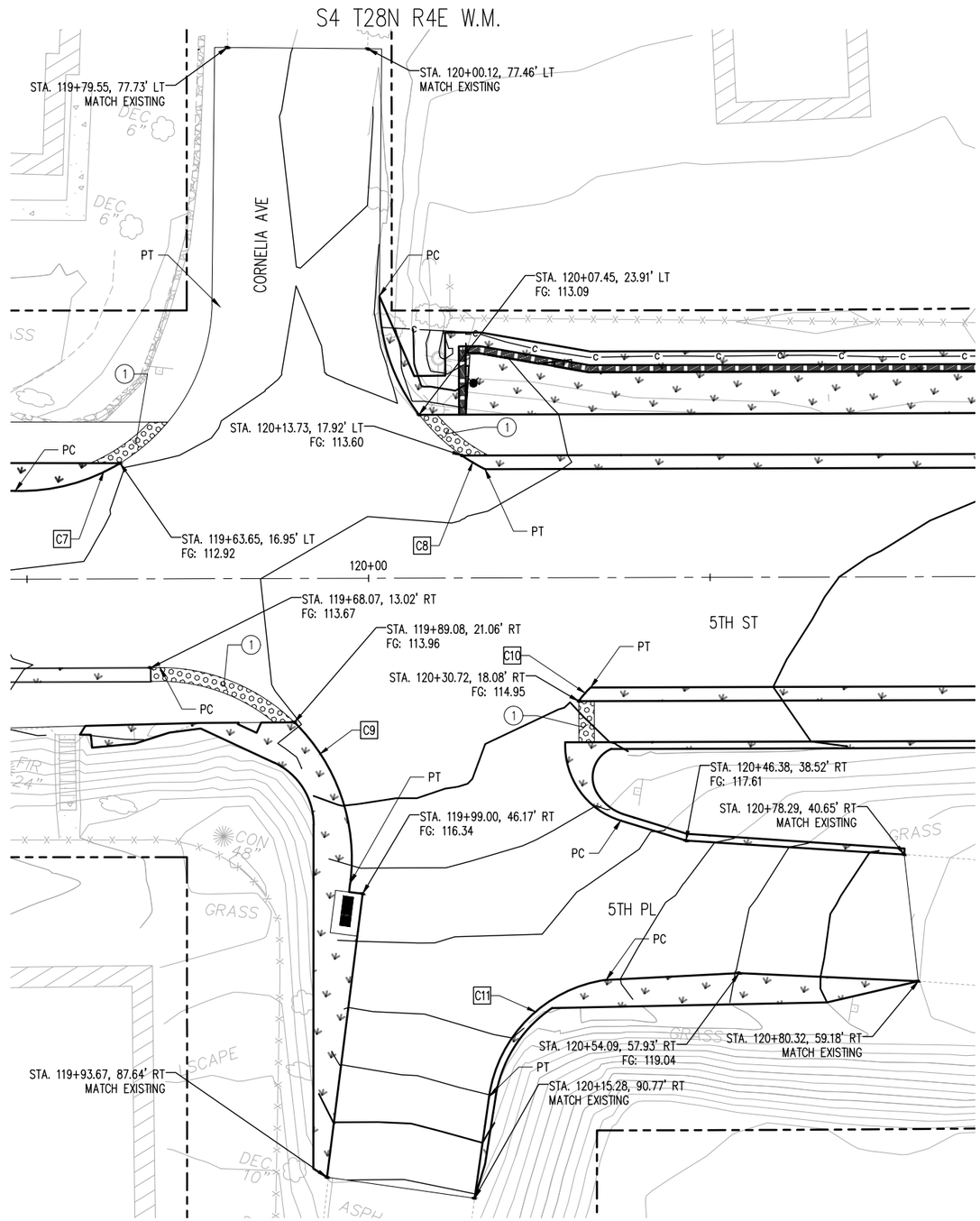
INTERSECTION DETAILS

ID02

Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - ID.dwg
tjmg
Aug 19, 2022 - 6:59pm

CURB RETURN TABLE

CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C7	PC	A STA. 119+48.32, 12.94' LT	112.48	Δ=90°08'24" T=28.07' L=44.05' R=28.00'
	1/4	A STA. 119+59.11, 14.74' LT	112.61	
	1/2	A STA. 119+68.39, 20.54' LT	112.90	
	3/4	A STA. 119+74.73, 29.46' LT	112.31	
	PT	A STA. 119+77.18, 40.12' LT	112.15	
C8	PC	A STA. 120+01.70, 41.29' LT	113.11	Δ=64°00'36" T=17.50' L=31.28' R=28.00'
	1/4	A STA. 120+02.68, 33.55' LT	113.20	
	1/2	A STA. 120+05.76, 26.39' LT	113.75	
	3/4	A STA. 120+10.69, 20.36' LT	113.39	
	PT	A STA. 120+17.09, 15.92' LT	113.72	
C9	PC	A STA. 119+69.43, 13.00' RT	113.69	Δ=97°28'12" T=31.91' L=47.63' R=28.00'
	1/4	A STA. 119+80.98, 15.49' RT	113.86	
	1/2	A STA. 119+90.47, 22.54' RT	114.11	
	3/4	A STA. 119+96.21, 32.87' RT	114.96	
	PT	A STA. 119+97.17, 44.65' RT	116.25	
C10	PC	A STA. 120+36.81, 35.56' RT	116.28	Δ=120°28'12" T=20.11 L=24.18' R=11.50'
	1/4	A STA. 120+31.76, 32.38' RT	115.79	
	1/2	A STA. 120+28.99, 27.08' RT	115.38	
	3/4	A STA. 120+29.24, 21.11' RT	115.12	
	PT	A STA. 120+32.46, 16.08' RT	114.92	
C11	PC	A STA. 120+17.43, 75.90' RT	119.03	Δ=74°24'00" T=15.18' L=25.97' R=20.00'
	1/4	A STA. 120+19.36, 69.73' RT	118.23	
	1/2	A STA. 120+23.16, 64.50' RT	117.77	
	3/4	A STA. 120+28.42, 60.75' RT	117.68	
	PT	A STA. 120+34.61, 58.88' RT	117.88	



INTERSECTION DETAIL 3 / PV04

SCALE: 1" = 10'

CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

N

0 5 10 20

1 inch = 10 feet

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ID03

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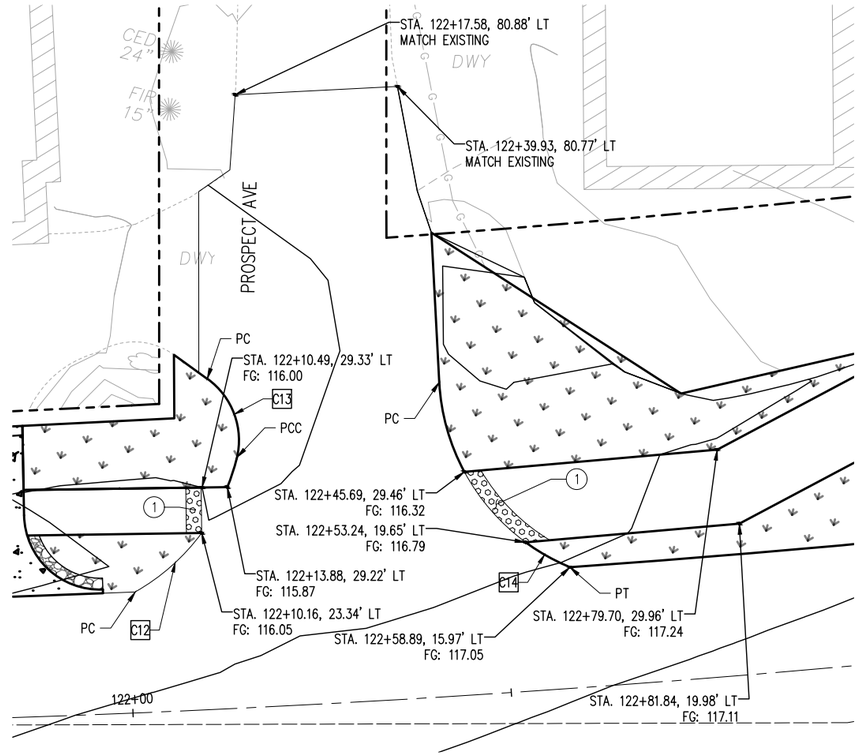
S4 T28N R4E W.M.

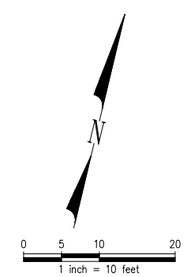
CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C12	PC	A STA. 122+00.98, 15.96' LT	116.23	Δ=46°25'48" T=12.01 L=22.69 R=28.00'
	1/4	A STA. 122+05.95, 19.18' LT	116.15	
	1/2	A STA. 122+09.87, 22.92' LT	116.07	
	3/4	A STA. 122+13.09, 27.67' LT	115.92	
	PCC	A STA. 122+15.31, 32.90' LT	115.82	
C13	1/4	A STA. 122+15.75, 35.84' LT	115.75	Δ=68°20'24" T=6.79 L=11.93 R=10.00'
	1/2	A STA. 122+15.29, 38.78' LT	115.71	
	3/4	A STA. 122+13.96, 41.45' LT	115.64	
	PT	A STA. 122+11.89, 43.62' LT	115.57	
C14	PC	A STA. 122+43.09, 41.48' LT	116.04	Δ=64°31'12" T=17.67 L=31.53 R=28.00'
	1/4	A STA. 122+44.12, 33.69' LT	116.22	
	1/2	A STA. 122+47.30, 26.49' LT	116.45	
	3/4	A STA. 122+52.36, 20.42' LT	116.75	
	PT	A STA. 122+58.89, 15.97' LT	117.05	



INTERSECTION DETAIL 4 / PV03
SCALE: 1" = 10'



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SHT. 92 OF 123

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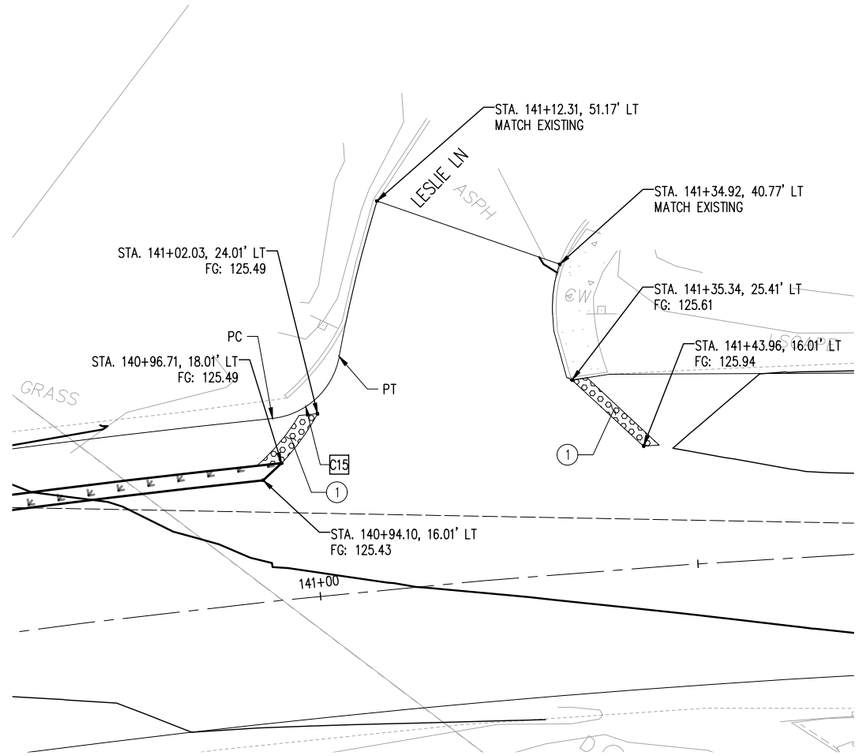
S4 T28N R4E W.M.

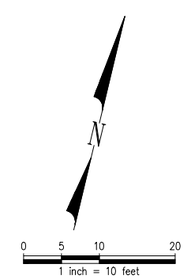
CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C15	PC	A STA. 140+96.15, 24.01' LT	125.55	Δ=73°44'24" T=7.50' L=12.87 R=10.00'
	1/4	A STA. 140+99.26, 24.52' LT	125.52	
	1/2	A STA. 141+02.05, 26.02' LT	125.49	
	3/4	A STA. 141+04.22, 28.34' LT	125.47	
	PT	A STA. 141+05.55, 31.24' LT	125.45	



INTERSECTION DETAIL 5 / PV08
SCALE: 1" = 10'



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SHT. 93 OF 123

ID05

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Aug 19, 2022 - 6:59pm

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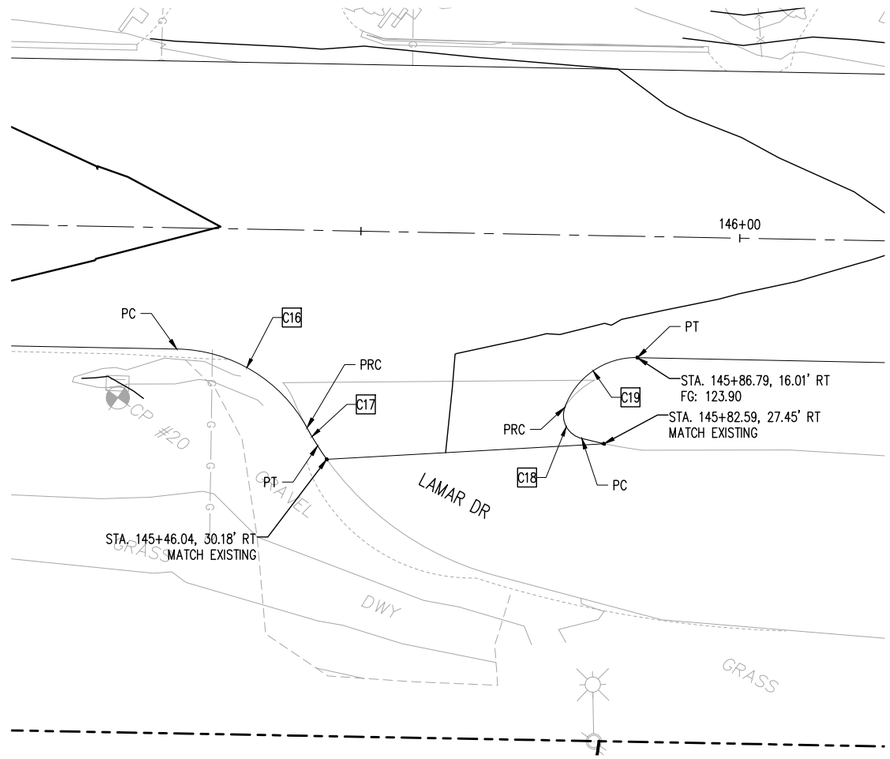
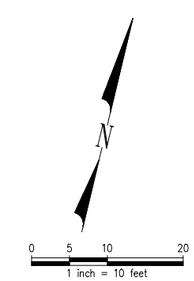
CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP

CURB RETURN TABLE				
CURVE	POINT	STATION/OFFSET	EL	CURVE GEOMETRY
C16	PC	A STA. 145+25.97, 16.00' RT	124.44	Δ=60°17'24" T=11.61' L=21.05' R=20.00'
	1/4	A STA. 145+31.19, 16.69' RT	124.30	
	1/2	A STA. 145+36.02, 18.95' RT	124.26	
	3/4	A STA. 145+40.18, 21.91' RT	124.21	
	PRC	A STA. 145+43.36, 26.09' RT	124.17	
C17	1/2	A STA. 145+44.63, 28.18' RT	124.15	Δ=07°01'12" T=2.45 L=4.90 R=40.00'
	PT	A STA. 145+46.03, 30.19' RT	124.12	
C18	PC	A STA. 145+79.65, 26.81' RT	123.60	Δ=97°44'24" T=3.56 L=5.30 R=3.11'
	1/2	A STA. 145+77.57, 25.31' RT	123.60	
	PCC	A STA. 145+77.33, 22.75' RT	123.66	
C19	1/4	A STA. 145+79.15, 19.54' RT	123.70	Δ=71°00'36" T=7.13 L=12.39 R=10.00'
	1/2	A STA. 145+80.97, 17.87' RT	123.70	
	3/4	A STA. 145+83.74, 16.49' RT	123.85	
	PT	A STA. 145+86.79, 16.01' RT	123.90	



INTERSECTION DETAIL 6 / PV08
SCALE: 1" = 10'



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SCALE: 1" = 10'

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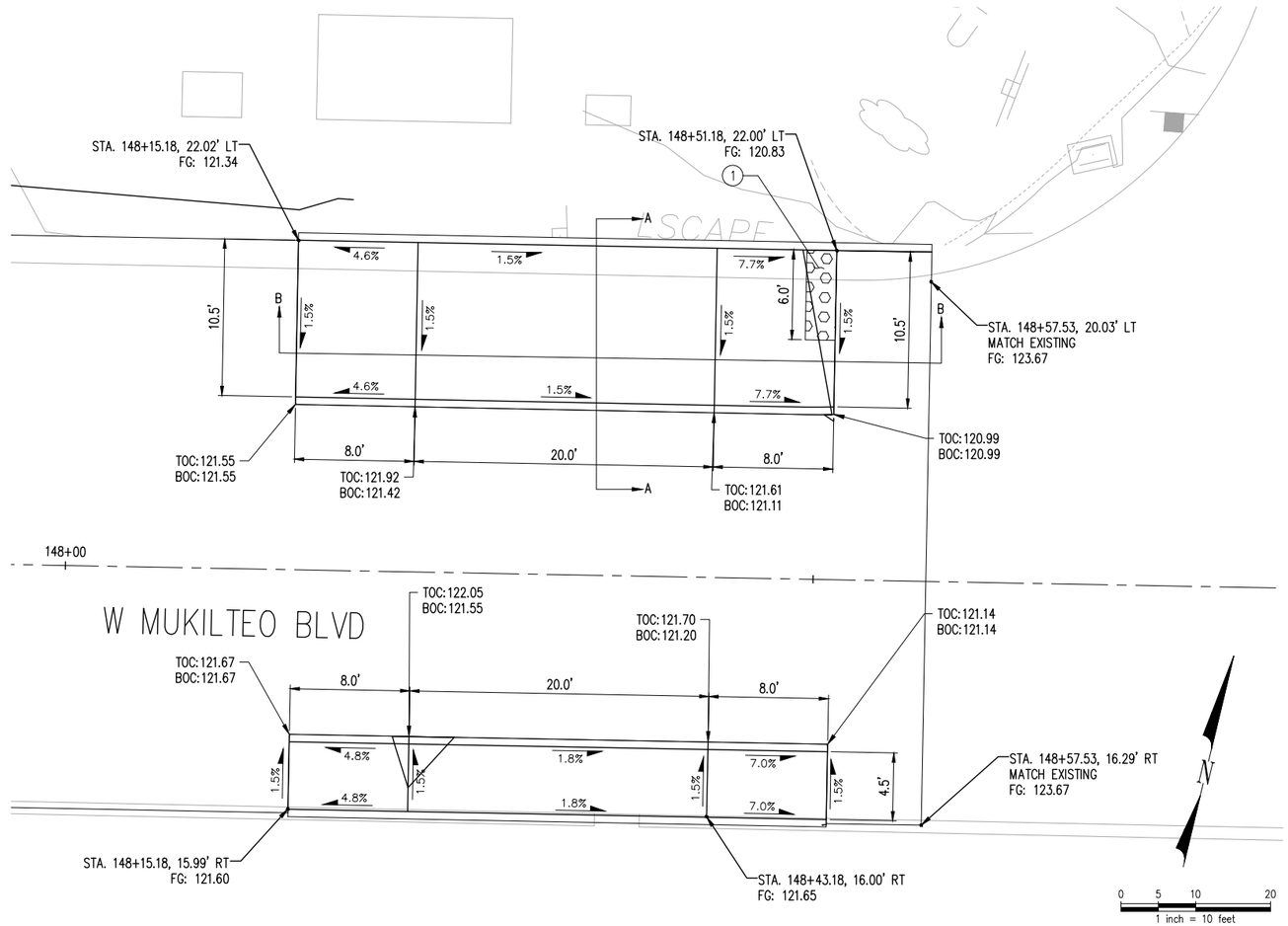
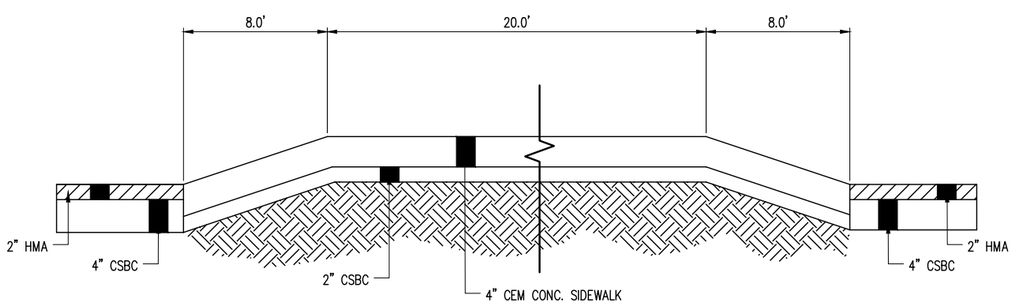
CONSTRUCTION NOTES

1. DETECTABLE WARNING, 2' FT WIDE STRIP



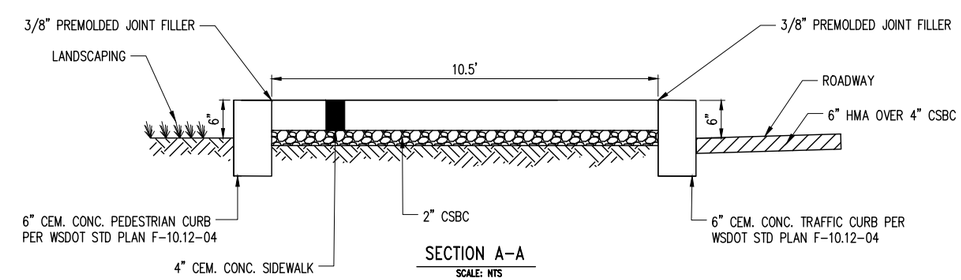
INTERSECTION DETAIL 7 / PV09

SCALE: 1" = 5'



SECTION B-B

SCALE: NTS



SECTION A-A

SCALE: NTS

CURB RAMP PAVING DETAIL

SCALE: NTS

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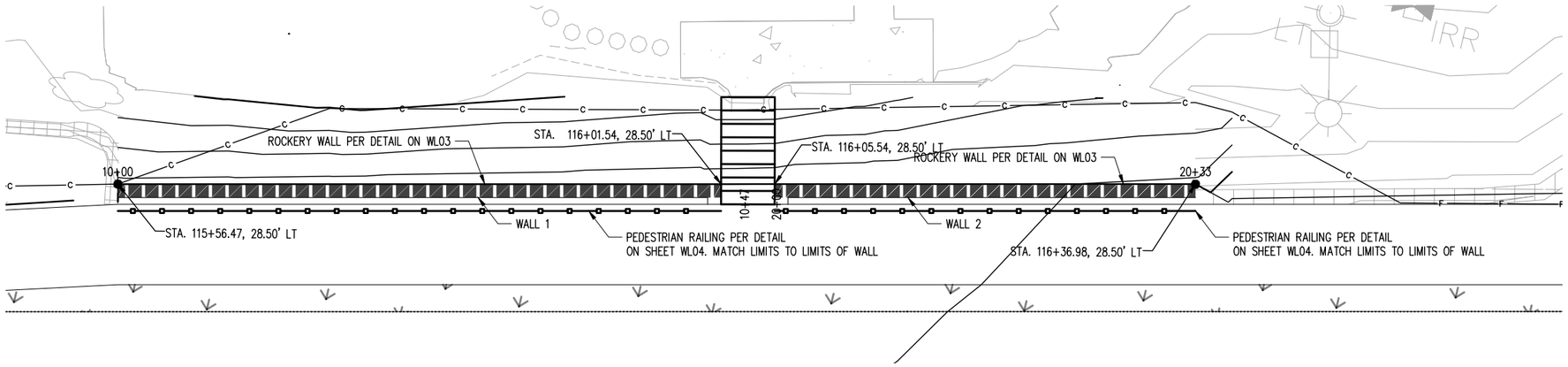
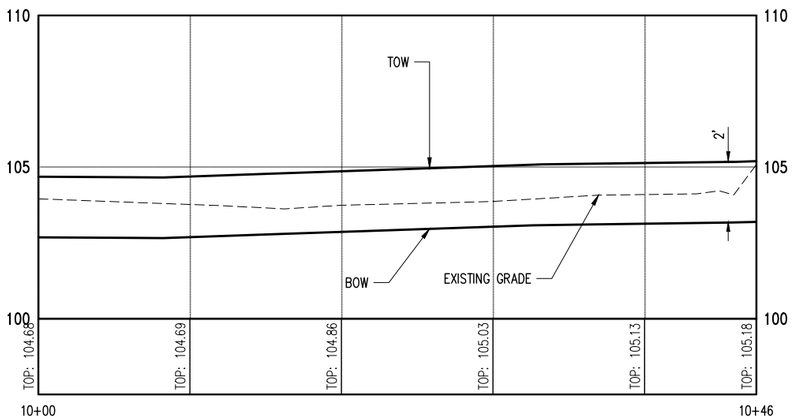
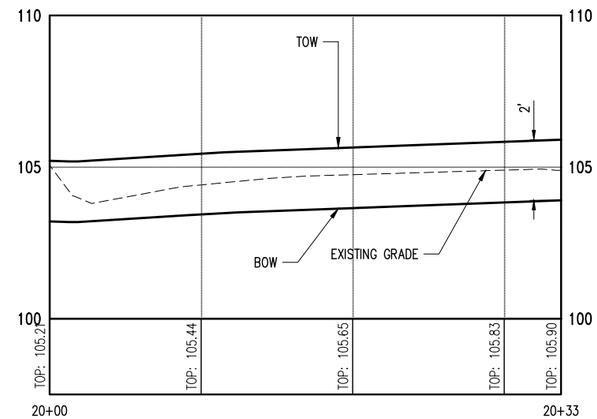
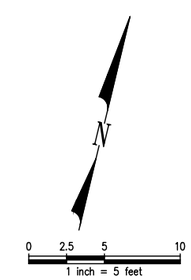




A-WALL 1
SCALE: H: 10' V: 5'
1 PV02



A-WALL 2
SCALE: H: 10' V: 5'
2 PV02



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WALL DETAILS

SHT. 96 OF 123

WL01

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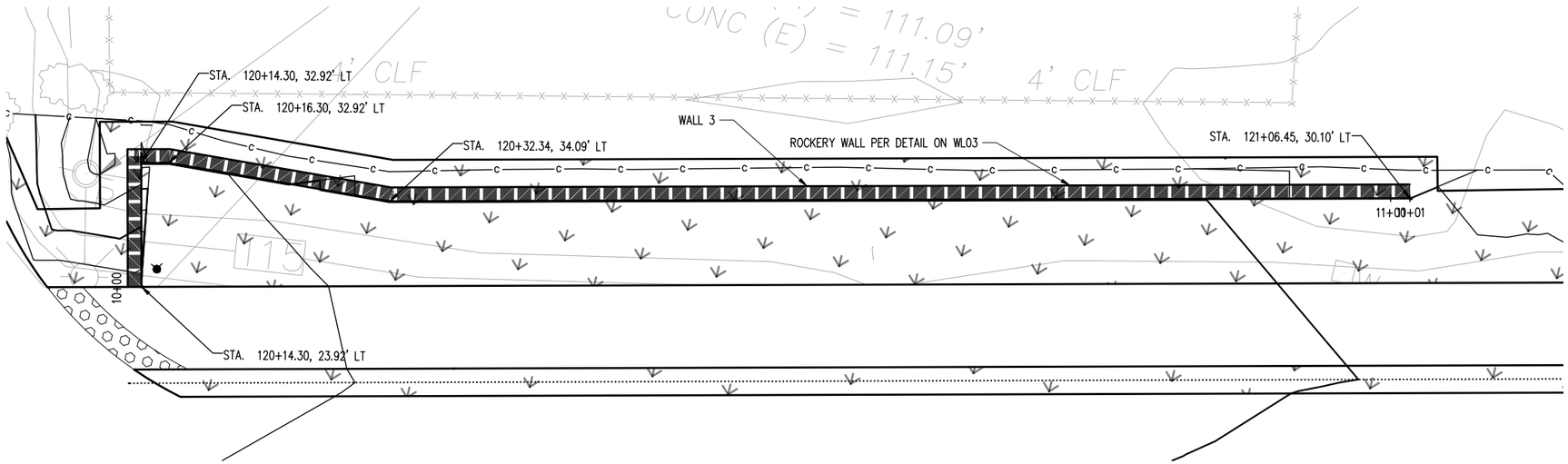
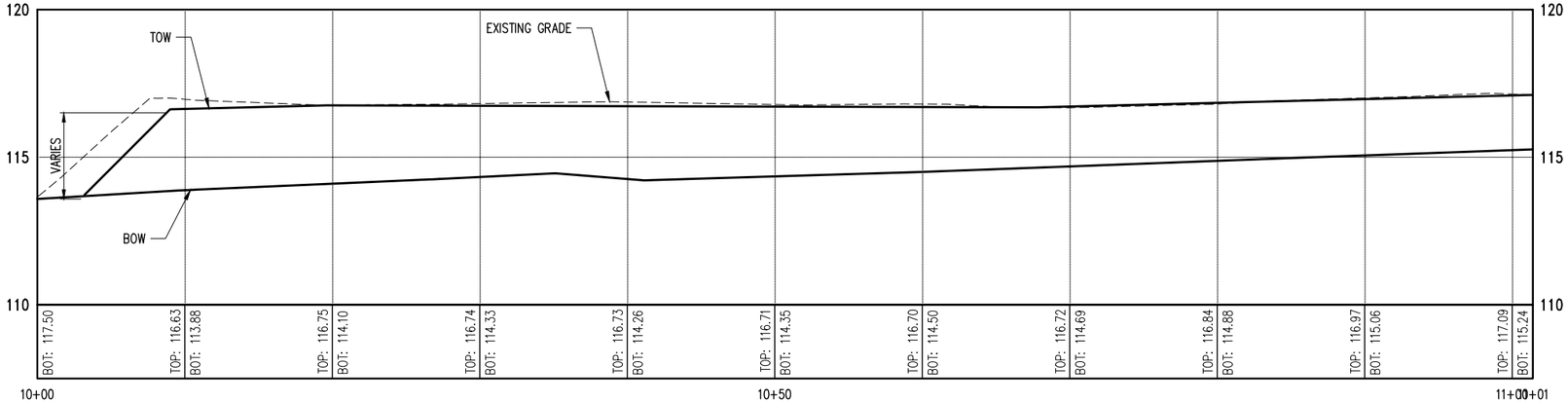
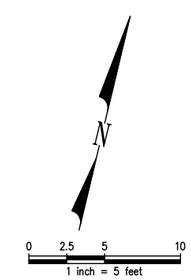




A-WALL 3

SCALE: H: 10' V: 5'

3
PV04



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WALL DETAILS

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WL02

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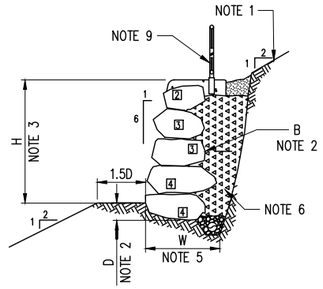
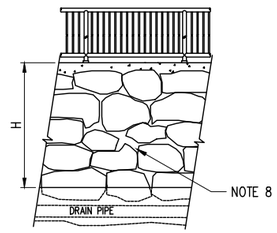
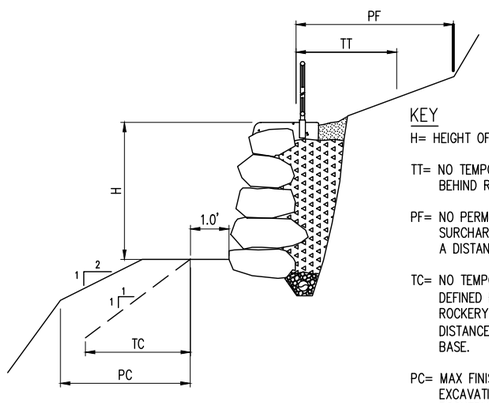


ROCK WALL SECTION



ROCK WALL ELEVATION



KEY

H= HEIGHT OF ROCK WALL.

TT= NO TEMPORARY EXCAVATION WITHIN 5FT BEHIND ROCKERY.

PF= NO PERMANENT EXCAVATION OR SURCHARGING BEHIND ROCKERY CLOSER THAN A DISTANCE EQUAL TO H.

TC= NO TEMPORARY EXCAVATION BELOW LIMITS DEFINED BY A LINE 1' OUT FROM BASE OF ROCKERY WITH A SLOPE OF 1H:-1V TO A DISTANCE EQUAL TO 2/3H FROM ROCKERY BASE.

PC= MAX FINISHED GRADE OR PERMANENT EXCAVATION DEFINED BY A FROM BASE OF ROCKERY WITH A SLOPE OF 2H:- 1V FOR A MIN DISTANCE EQUAL TO H FROM ROCKERY BASE.

LEGEND

- DRAINAGE MATERIALS TO CONSIST OF CLEAN 4"-2" ANGULAR SPALLS.
- GRADING #57 AGGREGATE PER SECTION 9.03.1(4)C OF WSDOT/APWA STANDARD SPECIFICATION
- CONCRETE ROCKERY CAP. REQUIRED IN R.O.W., OPTIONAL ON PRIVATE PROPERTY.
- UNDISTURBED NATIVE SOIL
- SEED OR SOD ON 12" OF TOPSOIL WITH UNDERLAYER OF FILTER FABRIC.
- WALL UNDERDRAIN. SEE DRAINAGE PLAN FOR PIPE TYPE AND SIZE. LAY WITH A POSITIVE SLOPE TO DISCHARGE AWAY FROM ROCKERY.
- 4 DESIGNATES SIZE OF ROCK, I.E. 4 MAN. SEE NOTE 10.

PLACEMENT NOTES

1. APPROVAL FOR THE PLACEMENT OF THE ROCKERY WILL DEPEND ON EXISTING AND PROPOSED UNDERGROUND UTILITY LOCATIONS. THE CITY OF EVERETT PUBLIC WORKS DEPARTMENT WILL REVIEW ROCKERY PLACEMENT.

NOTES

1. MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCK WALL SHALL BE 2:1 (HORIZONTAL:VERTICAL).
2. MINIMUM THICKNESS OF ROCK FILTER LAYER B=12 INCHES. MINIMUM EMBEDMENT D=12 INCHES.
3. ROCK SHALL BE PLACED TO GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
4. MINIMUM WIDTH OF KEYWAY EXCAVATION W, SHALL BE EQUAL TO THE THICKNESS OF THE BASE ROCK PLUS B (ROCK FILTER).
5. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND BACK TOWARDS THE CUT OR FILL FACE TO PROVIDE MAXIMUM STABILITY.
6. WHENEVER POSSIBLE EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.
7. WHERE VOIDS OF GREATER THAN 6 INCHES IN DIMENSIONS EXIST IN THE ROCK FACE AND THERE IS NO ROCK CONTACT WITHIN THE ROCK WALL THICKNESS, THE VOID SHALL BE CHINKED WITH SMALL PIECES OF ROCK.
8. PEDESTRIAN RAILING. SEE DETAIL 2. OMIT RAILING FOR WALL 3
9. THE DENSITY OF ROCK MATERIAL SHALL BE A MINIMUM OF 155 PCF. THE SIZE CATEGORIES FOR

ROCK SHALL BE AS FOLLOWS:

SIZE	APPROXIMATE WEIGHT - LBS	APPROXIMATE DIAMETER - INCHES
1 MAN	50-200	12-18
1 MAN	50-200	12-18
2 MAN	200-700	18-28
3 MAN	700-2000	28-36
4 MAN	2000-4000	36-48
5 MAN	4000-6000	48-54
6 MAN	6000-8000	54-60

ROCKERY WALL

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. : 2000722
S C A L E: 1" = 5'

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

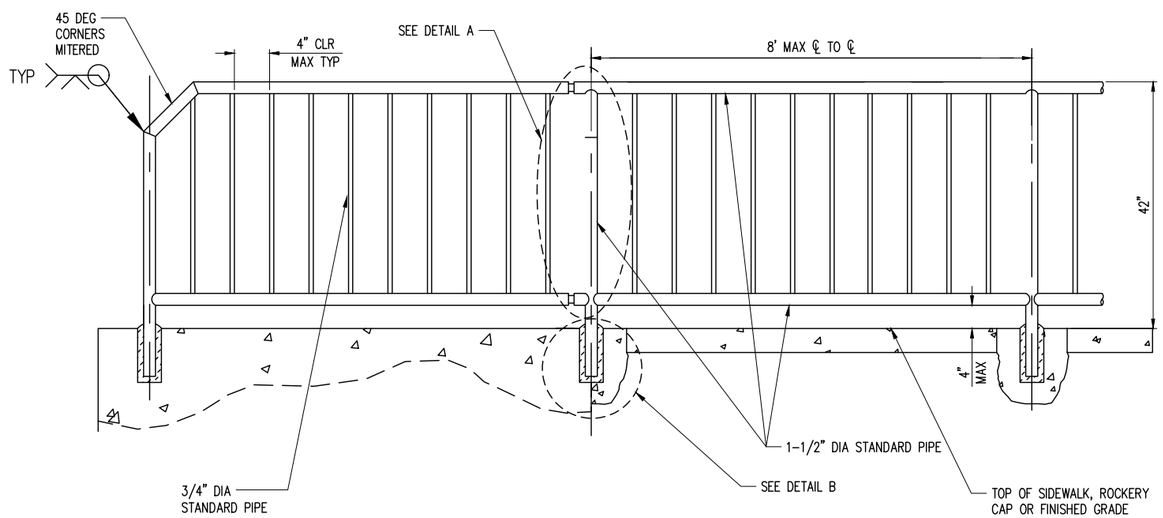
CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

WALL DETAILS

WL03

Aug 19, 2022 - 6:59pm timg Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - WL.dwg



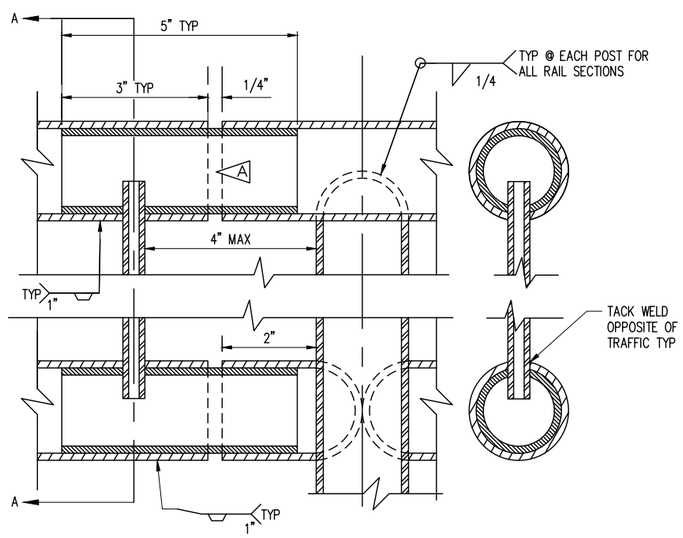
ROCK WALL ELEVATION

ALUMINUM PEDESTRIAN RAILING NOTES

1. ALUMINUM PEDESTRIAN RAILING SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS AND THIS DRAWING.
2. GUARDRAIL SHALL BE NATURAL ALUMINUM COLOR.
3. COMPLETED ALUMINUM GUARD UNITS SHALL BE ANODIZED AFTER FABRICATION CONFORMING TO THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION STANDARD FOR ANODIZED ARCHITECTURAL ALUMINUM, CLASS I ANODIC COATING, AA-C22-A41.
4. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR ALUMINUM STRUCTURES" OF THE ALUMINUM ASSOCIATION. ALL EXPOSED WELDS SHALL BE GROUND FLUSH WITH ADJACENT SURFACES.
5. THE BASE METAL FOR ALUMINUM GUARD SHALL BE ASA ALLOY DESIGNATION 6063-T6. PIPE AND TUBING SHALL BE EXTRUDED CONFORMING TO THE REQUIREMENTS OF ASTM B 429, PLATES AND SHEETS SHALL BE ROLLED CONFORMING TO ASTM B 209, AND RODS, BARS OR SHAPES SHALL BE EXTRUDED CONFORMING TO ASTM B 221.
6. HORIZONTAL RAILS AND VERTICAL SUPPORT POSTS SHALL BE 1 1/2 INCH DIAMETER STANDARD ALUMINUM PIPE AND BALUSTERS SHALL BE 3/4 INCH DIAMETER STANDARD ALUMINUM PIPE. RAILS, POSTS, AND BALUSTERS SHALL BE MACHINE CUT TO PROVIDE A UNIFORM LENGTH PRIOR TO ASSEMBLY.
7. GUARD SHALL BE ERECTED AND ADJUSTED, IF NECESSARY, TO ASSURE A CONTINUOUS LINE AND GRADE.

NOTE

1. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS AND AT EVERY 24 FEET ON CENTER MAXIMUM.

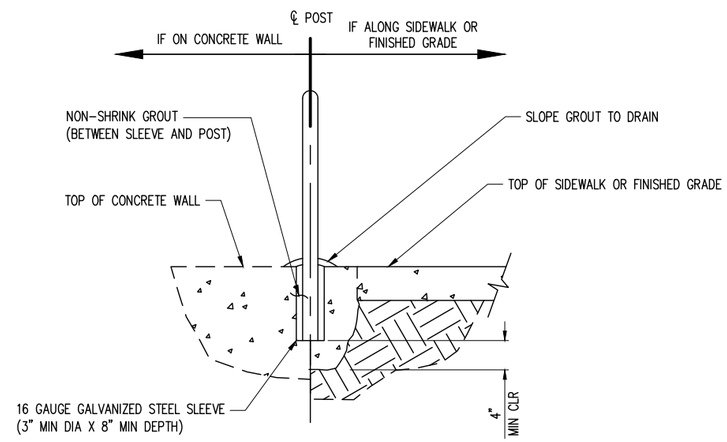


ELEVATION

SECTION A-A

SLIP JOINT & RAIL CONNECTIONS TO POSTS

DETAIL A



POST MOUNTING
DETAIL B

PEDESTRIAN RAILING DETAIL

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

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DATE 08/2022
JOB No. :2000722

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SCALE: 1" = 5'

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CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

PEDESTRIAN RAILING DETAIL

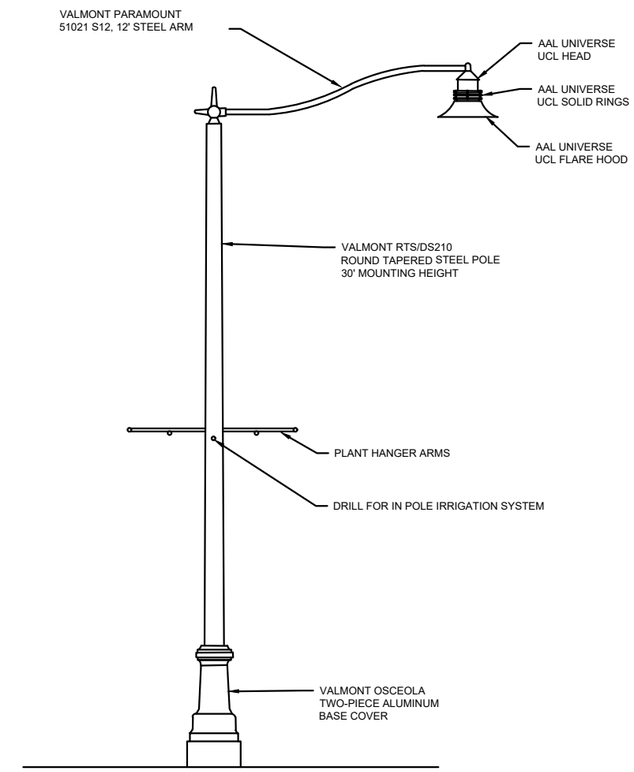
WL04

Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - WL.dwg
tmg
Aug 19, 2022 - 6:59pm

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH WSDOT DESIGN MANUAL AND STANDARD PLANS AND CITY OF MUKILTEO MUNICIPAL CODE.
2. MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM SHALL MEET MUKILTEO'S DOWNTOWN DESIGN STANDARD WITH PLANT HANGER ARMS AND IN POLE IRRIGATION SYSTEM. MOUNTING HEIGHT SHALL BE 30 FEET WITH 12-FOOT MAST ARMS, AND A AAL UNIVERSE UCL LUMINAIRE HEAD.
3. LUMINAIRE POLE FOUNDATIONS SHALL BE INSTALLED PER WSDOT STANDARD PLANS J-28.30-03.
4. LUMINAIRE POLES SHALL BE PLACED IN ACCORDANCE WITH WSDOT STANDARD PLANS J-28.22-00, J-28.24-02, J-28.30-03.
5. LUMINAIRES SHALL BE WIRED IN ACCORDANCE WITH WSDOT STANDARD PLAN J-28.70-03.
6. ILLUMINATION SYSTEM SERVICES SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLAN J-10.21-02.
7. ALL CONDUIT PIPES SHALL BE PVC SCHEDULE 80 PIPES.
8. ALL CONDUIT LINE WORK IS REPRESENTED SCHEMATICALLY.
9. SYMBOLS FOR SERVICE CABINETS, JUNCTION BOXES AND LUMINAIRE POLES ARE NOT REPRESENTATIVE OF THE ACTUAL SIZE OF THESE ILLUMINATION SYSTEM COMPONENTS.
10. CONDUIT RUN AND JUNCTION BOX LOCATIONS ARE SHOWN SCHEMATICALLY. LOCATE AND STAKE JUNCTION BOX LOCATIONS FOR FIELD APPROVAL PRIOR TO INSTALLATION.
11. JUNCTION BOXES SHALL BE PLACED IN ACCORDANCE WITH WSDOT STANDARD PLAN J-28.70-03.
12. ADAPTIVE LIGHTING TO BE INSTALLED AT POLE LOCATIONS L29 THROUGH L39. DETAILS TO BE INCORPORATED AT 100% SUBMITTAL.

MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM



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DATE 08/2022
JOB No. :

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CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

ILLUMINATION PLAN

ILL01

S4 T28N R4E

LUMINAIRE SCHEDULE

POLE NO.	STATION	OFFSET	ARM LENGTH	MOUNTING HEIGHT	LUMINAIRE TYPE	BASE TYPE	FOUNDATION TYPE	PLACEMENT TYPE	COMMENTS
L1	102+80.38	24.21R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L2	103+83.26	30.44R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L3	104+49.50	21.92L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L4	105+60.05	23.78L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L5	106+60.41	28.49R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L6	106+60.41	28.49R	12'	30'	TYPE III	MOUNT MAST ARM ON POLE L5			ADD HOUSE SIDE SHIELDS
L7	107+55.60	28.28R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L8	108+45.45	21.01L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L9	109+44.57	28.63L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L10	110+44.62	28.47L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L11	111+42.33	24.41L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L12	111+56.36	38.10L	12'	30'	TYPE III	MOUNT MAST ARM ON UTILITY POLE			ADD HOUSE SIDE SHIELDS
L13	112+06.25	46.75R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L14	112+35.59	27.34L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L15	113+85.63	22.44R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L16	114+92.62	22.78R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L17	115+79.69	30.31L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L18	116+93.21	29.03L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L19	118+10.03	37.08L	12'	30'	TYPE III	MOUNT MAST ARM ON UTILITY POLE			ADD HOUSE SIDE SHIELDS
L20	119+49.28	24.54L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L21	119+87.31	46.89R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L22	120+50.41	25.45L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L23	121+84.07	27R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L24	122+58.72	53.20L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L25	123+07.65	25.80R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L26	123+55.83	26.05L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L27	124+63.79	25.61R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L28	125+21.20	41.92L	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L29	125+99.48	23.53R	12'	30'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L30	126+69.10	29.82L	16'	40'	TYPE III	FIXED	TYPE A	J-28.26-01 CASE J	ADD HOUSE SIDE SHIELDS
L31	128+06.40	26.41R	16'	40'	TYPE III	SLIP	TYPE B	J-28.22-00 CASE F	ADD HOUSE SIDE SHIELDS
L32	129+93.18	26.20R	12'	40'	TYPE III	SLIP	TYPE B	J-28.22-00 CASE F	ADD HOUSE SIDE SHIELDS
L33	130+89.54	25.84R	12'	40'	TYPE III	SLIP	TYPE B	J-28.22-00 CASE F	ADD HOUSE SIDE SHIELDS
L34	132+68.29	29.52R	16'	40'	TYPE III	SLIP	TYPE B	J-28.22-00 CASE F	ADD HOUSE SIDE SHIELDS
L35	134+44.03	33.31L	16'	40'	TYPE III	SLIP	TYPE B	J-28.22-00 CASE F	ADD HOUSE SIDE SHIELDS
L36	135+98.75	32.41L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE E	ADD HOUSE SIDE SHIELDS
L37	137+51.59	33.90L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L38	139+01.84	26.98L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L39	140+50.65	25.75L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L40	141+00.94	52.88L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L41	142+21.87	32.91L	16'	40'	TYPE III	MOUNT MAST ARM ON UTILITY POLE			ADD HOUSE SIDE SHIELDS
L42	143+67.08	24.78L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L43	145+09.25	25.75L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L44	146+55.92	26.31L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS
L45	147+72.46	28.72L	16'	40'	TYPE III	SLIP	TYPE A	J-28.22-00 CASE A	ADD HOUSE SIDE SHIELDS

WIRE SCHEDULE

NO.	CONDUIT SIZE	CONDUCTORS	CIRCUIT	COMMENTS
A	2" PVC	2-#6 (240V) 1-#6 (GROUND)	A	
B	2" PVC	2-#6 (240V) 1-#6 (GROUND)	B	
C	2' PVC	2-#6 (240V) 1-#6 (GROUND)	C	
D	2" PVC	2-#6 (240V) 1-#6 (GROUND)	D	
E	2" PVC	2-#6 (240V) 1-#6 (GROUND)	E	

BREAKER SCHEDULE SCB 1A
TYPE B MODIFIED 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING		CONTACTOR RATING	VOLTAGE	LOAD (KVA)
		POLES	AMPS			
-	MAIN	2P	100 AMP	-	-	-
LGHT. CNTRL CONTACTOR	LIGHT CONTROL CONTACTOR	1P	15 AMP	15 AMP	120	-
ILLUM A	ILLUMINATION	2P	15 AMP	30 AMP	240	4.06
BUSSWORK SHALL BE RATED AT 200 AMP MINIMUM				PEAK		4.06
				CONTINOUS		4.06

BREAKER SCHEDULE SCB 1B
TYPE B MODIFIED 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING		CONTACTOR RATING	VOLTAGE	LOAD (KVA)
		POLES	AMPS			
-	MAIN	2P	100 AMP	-	-	-
LGHT. CNTRL CONTACTOR	LIGHT CONTROL CONTACTOR	1P	15 AMP	15 AMP	120	-
ILLUM B	ILLUMINATION	2P	15 AMP	30 AMP	240	1.88
ILLUM C	ILLUMINATION	2P	15 AMP	30 AMP	240	3.75
BUSSWORK SHALL BE RATED AT 200 AMP MINIMUM				PEAK		5.63
				CONTINOUS		5.63

BREAKER SCHEDULE SCB 1C
TYPE B MODIFIED 120/240V

CIRCUIT	DESCRIPTION	BREAKER RATING		CONTACTOR RATING	VOLTAGE	LOAD (KVA)
		POLES	AMPS			
-	MAIN	2P	100 AMP	-	-	-
LGHT. CNTRL CONTACTOR	LIGHT CONTROL CONTACTOR	1P	15 AMP	15 AMP	120	-
ILLUM D	ILLUMINATION	2P	15 AMP	30 AMP	240	2.50
ILLUM E	ILLUMINATION	2P	15 AMP	30 AMP	240	1.56
BUSSWORK SHALL BE RATED AT 200 AMP MINIMUM				PEAK		4.06
				CONTINOUS		4.06

NOT FOR CONSTRUCTION - 90% SUBMITTAL

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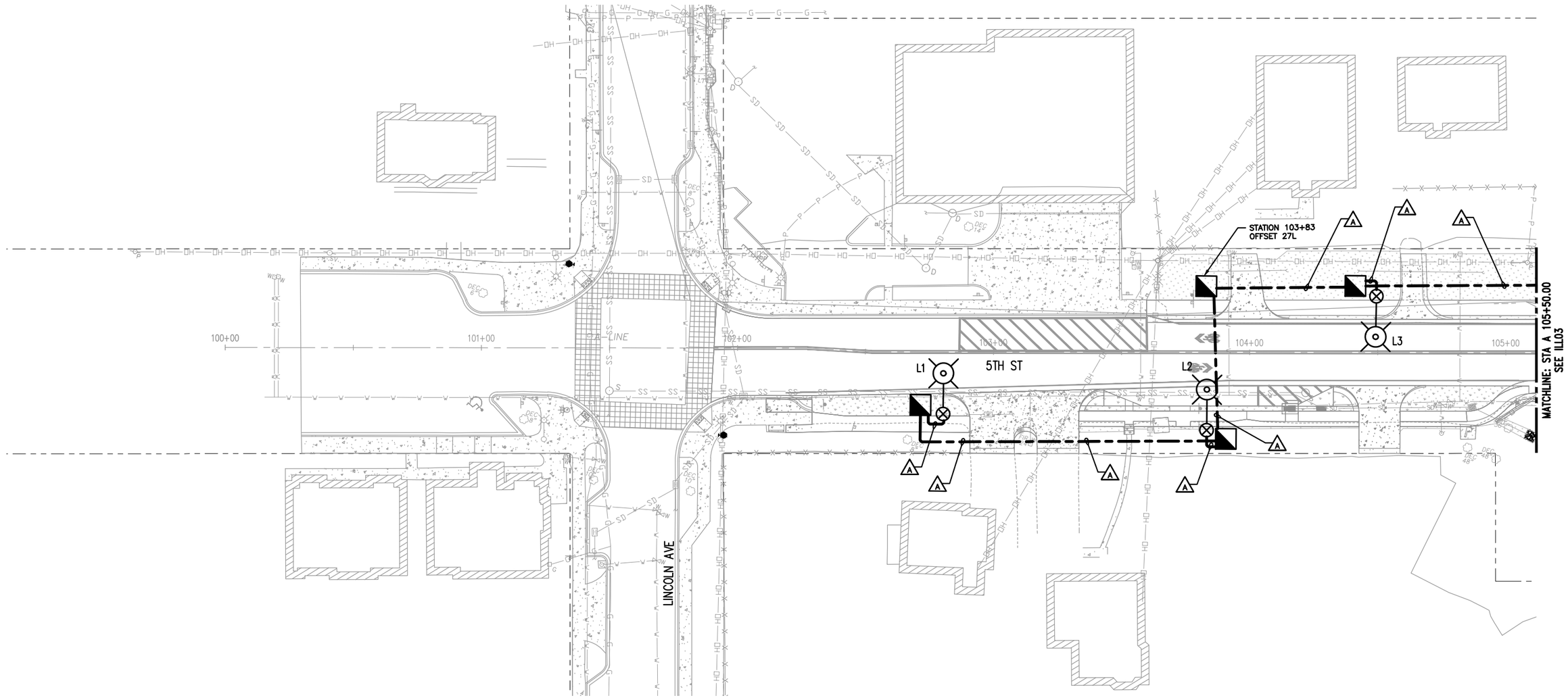
ILLUMINATION PLAN

ILL02

S4 T28N R4E



LEGEND:

MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90% SUBMITTAL

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MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
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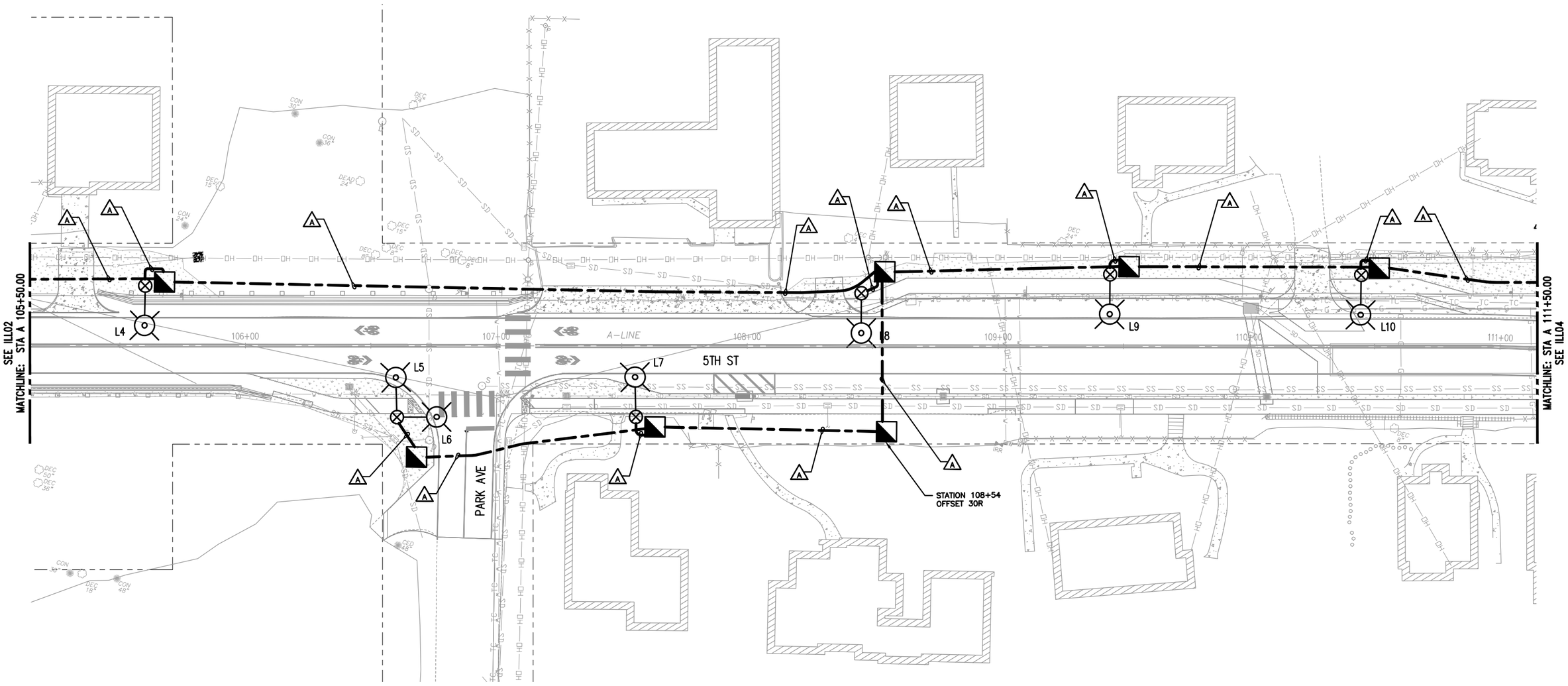
ILLUMINATION PLAN

SHT. 102 OF 123

ILL03

S4 T28N R4E



LEGEND:

MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

N

0 10 20 40
1 inch = 20 feet

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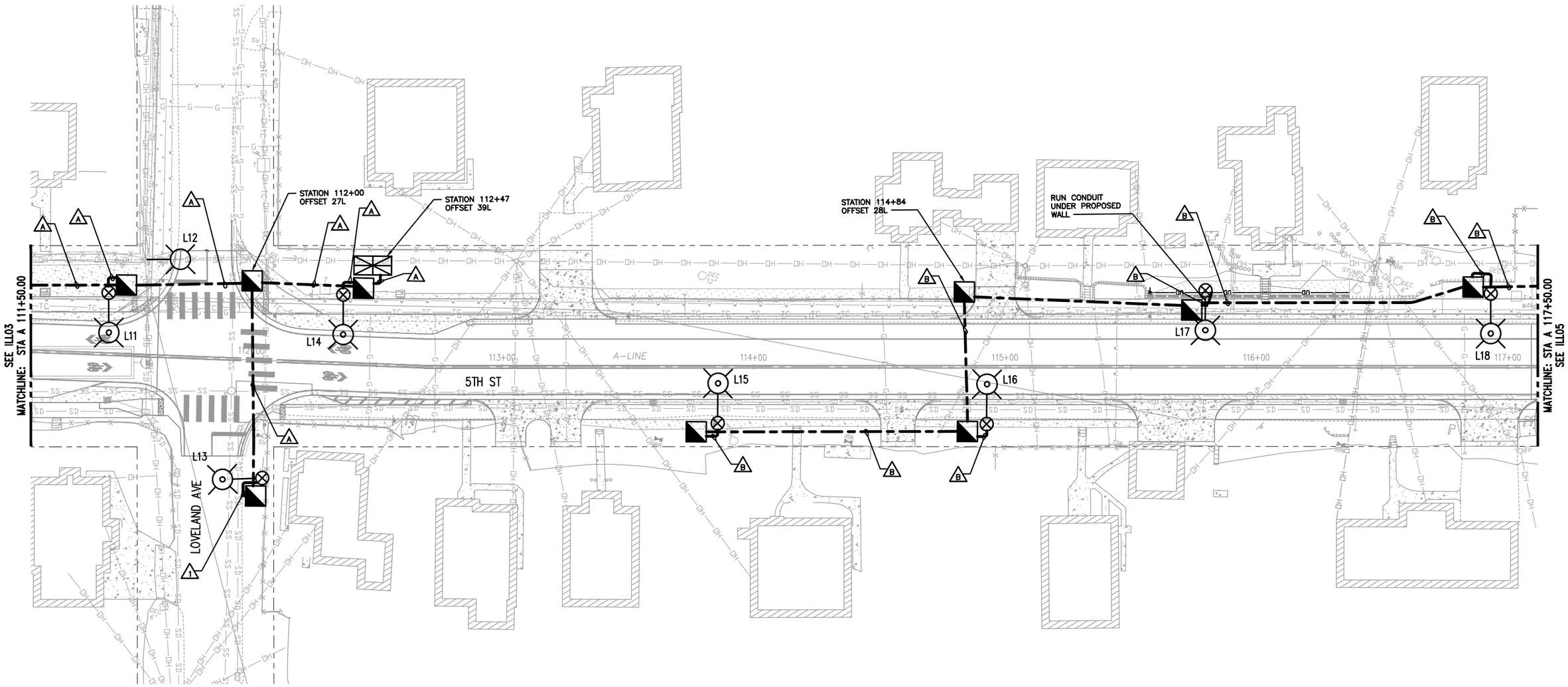
ILLUMINATION PLAN

ILL04

S4 T28N R4E



LEGEND:

MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM

COORDINATE INSTALLATION OF LUMINAIRE AND MAST ARM PER LUMINAIRE SCHEDULE ON EXISTING UTILITY POLE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

TYPE D SERVICE CONNECTION PER WSDOT STANDARD PLAN J-10.21-02 FOR CKT A

N

0 10 20 40
1 inch = 20 feet

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CITY OF MUKILTEO

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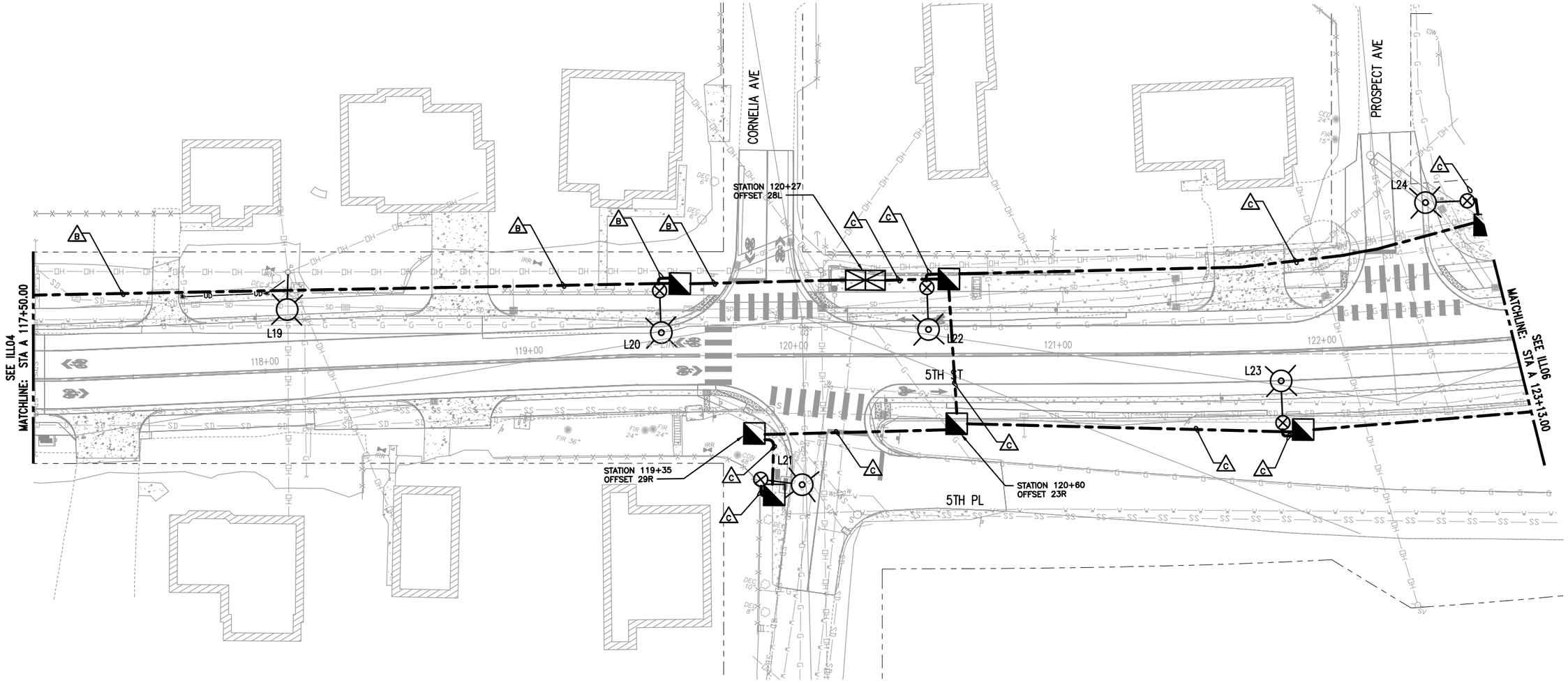
ILLUMINATION PLAN

SHT. 104 OF 123

ILL05

S4 T28N R4E



LEGEND:

- MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM
- COORDINATE INSTALLATION OF LUMINAIRE AND MAST ARM PER LUMINAIRE SCHEDULE ON EXISTING UTILITY POLE
- TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04
- TYPE 8 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.30-04
- TYPE D SERVICE CONNECTION PER WSDOT STANDARD PLAN J-10.21-02 FOR CKT B AND CKT C

N

0 10 20 40
1 inch = 20 feet

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DATE 08/2022
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SCALE: 1" = 20'

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CITY OF MUKILTEO

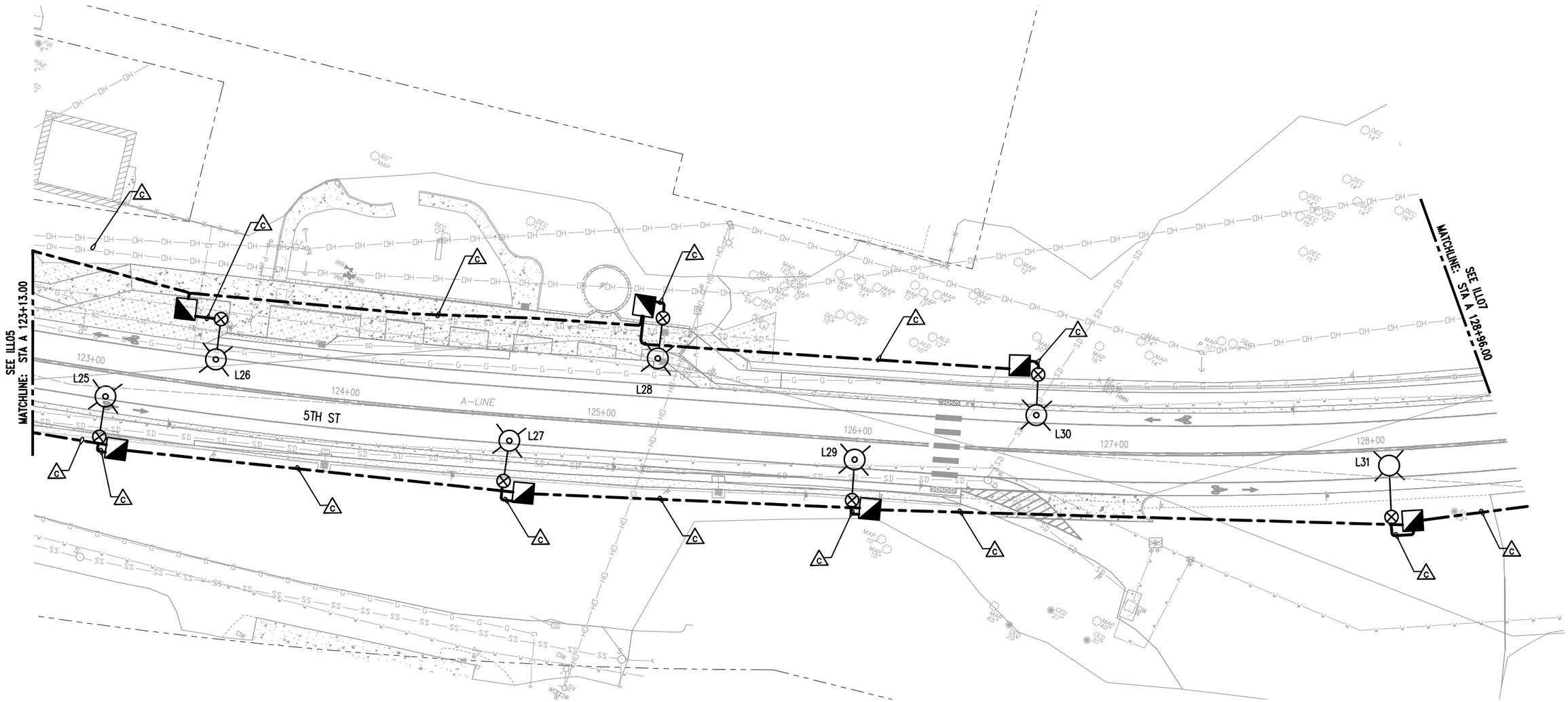
MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

ILLUMINATION PLAN

SHT. 105 OF 123

ILL06

S4 T28N R4E



LEGEND:

MUKILTEO DECORATIVE LUMINAIRE POLE AND MAST ARM

WSDOT STREETLIGHT STANDARD POLE PER WSDOT STANDARD PLAN J-28.10-02 WITH BASE PER LUMINAIRE SCHEDULE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90% SUBMITTAL

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TJ | DESIGNED BY JM
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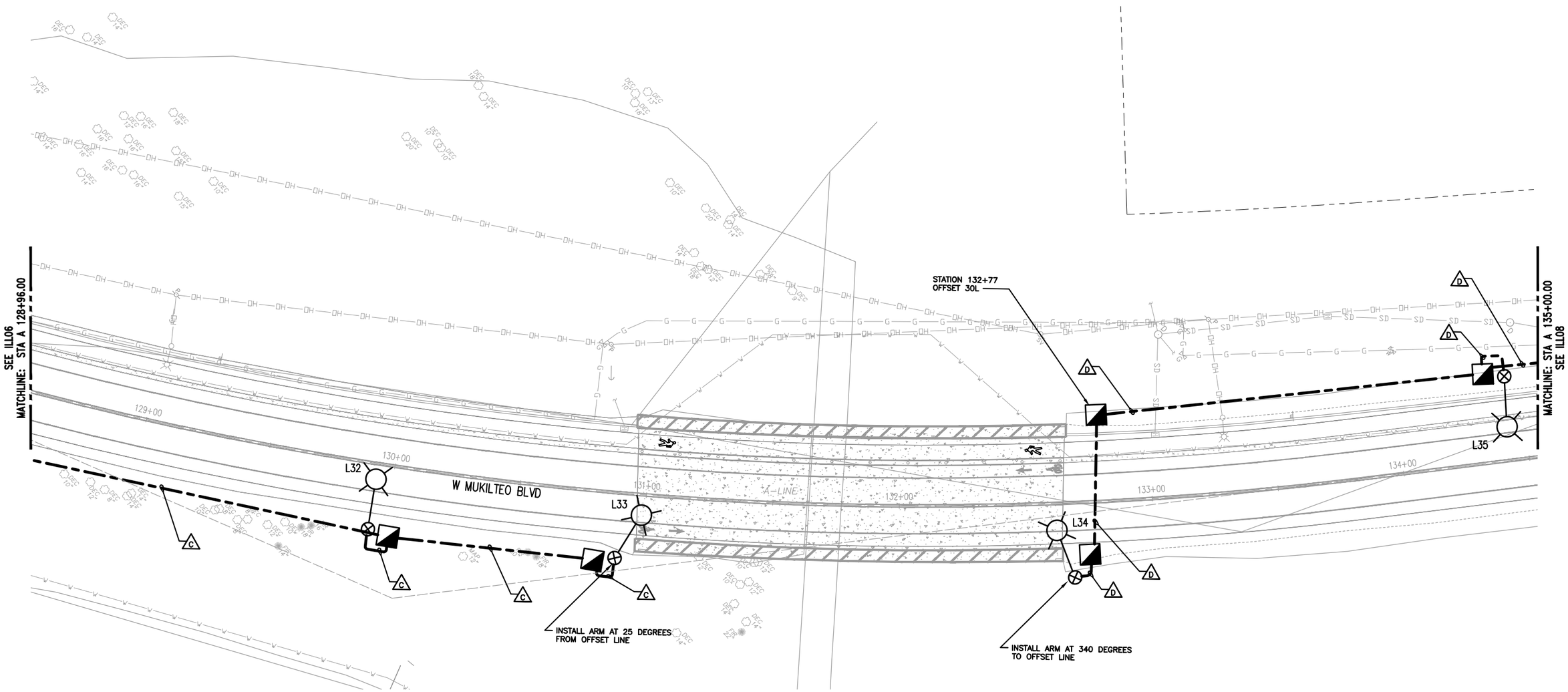
ILLUMINATION PLAN

SHT. 106 OF 123

ILL07

S4 T28N R4E & S3 T29N R4E



LEGEND:

WSDOT STREETLIGHT STANDARD POLE PER WSDOT STANDARD PLAN J-28.10-02 WITH BASE PER LUMINAIRE SCHEDULE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

N

0 10 20 40
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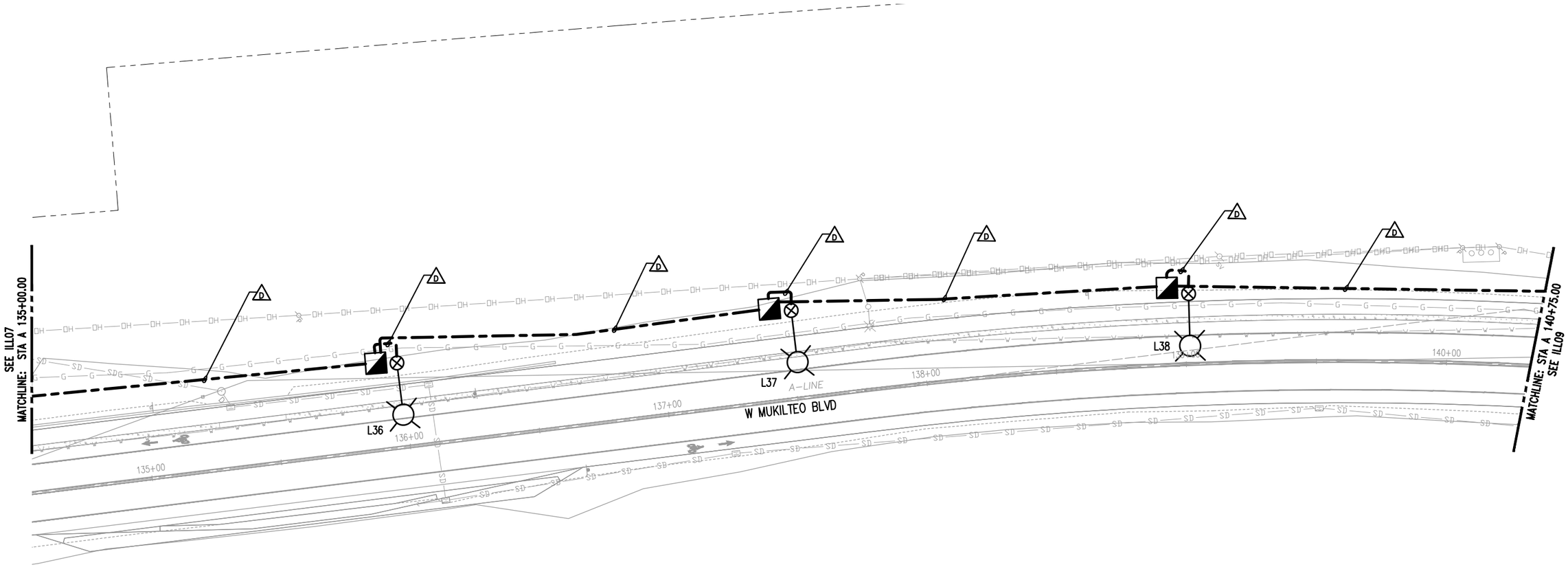
MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

ILLUMINATION PLAN

ILL08

S4 T28N R4E & S3 T29N R4E



LEGEND:

WSDOT STREETLIGHT STANDARD POLE PER WSDOT STANDARD PLAN J-28.10-02 WITH BASE PER LUMINAIRE SCHEDULE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

N

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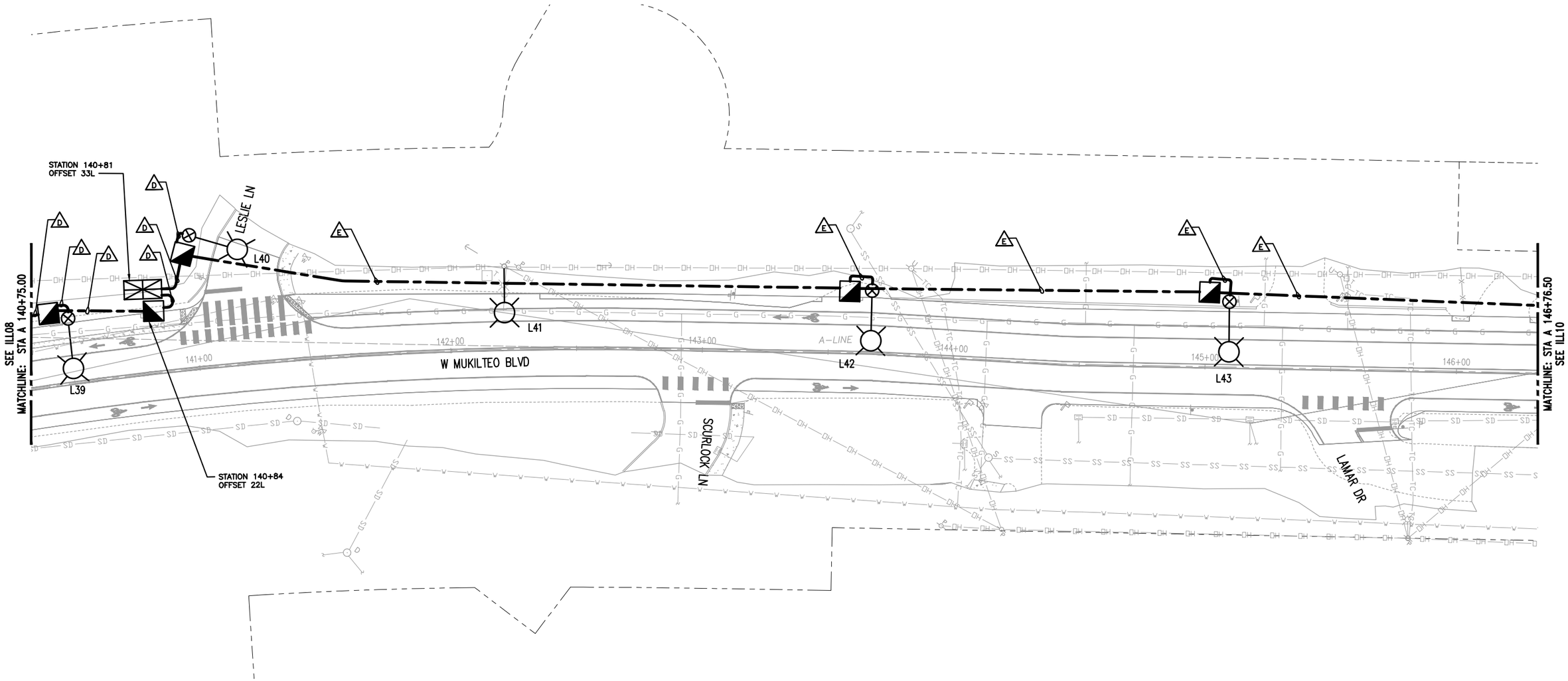
ILLUMINATION PLAN

ILL09

S4 T28N R4E & S3 T29N R4E



LEGEND:

WSDOT STREETLIGHT STANDARD POLE PER WSDOT STANDARD PLAN J-28.10-02 WITH BASE PER LUMINAIRE SCHEDULE

COORDINATE INSTALLATION OF LUMINAIRE AND MAST ARM PER LUMINAIRE SCHEDULE ON EXISTING UTILITY POLE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

TYPE D SERVICE CONNECTION PER WSDOT STANDARD PLAN J-10.21-02 FOR CKT D AND CKT E

N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90% SUBMITTAL

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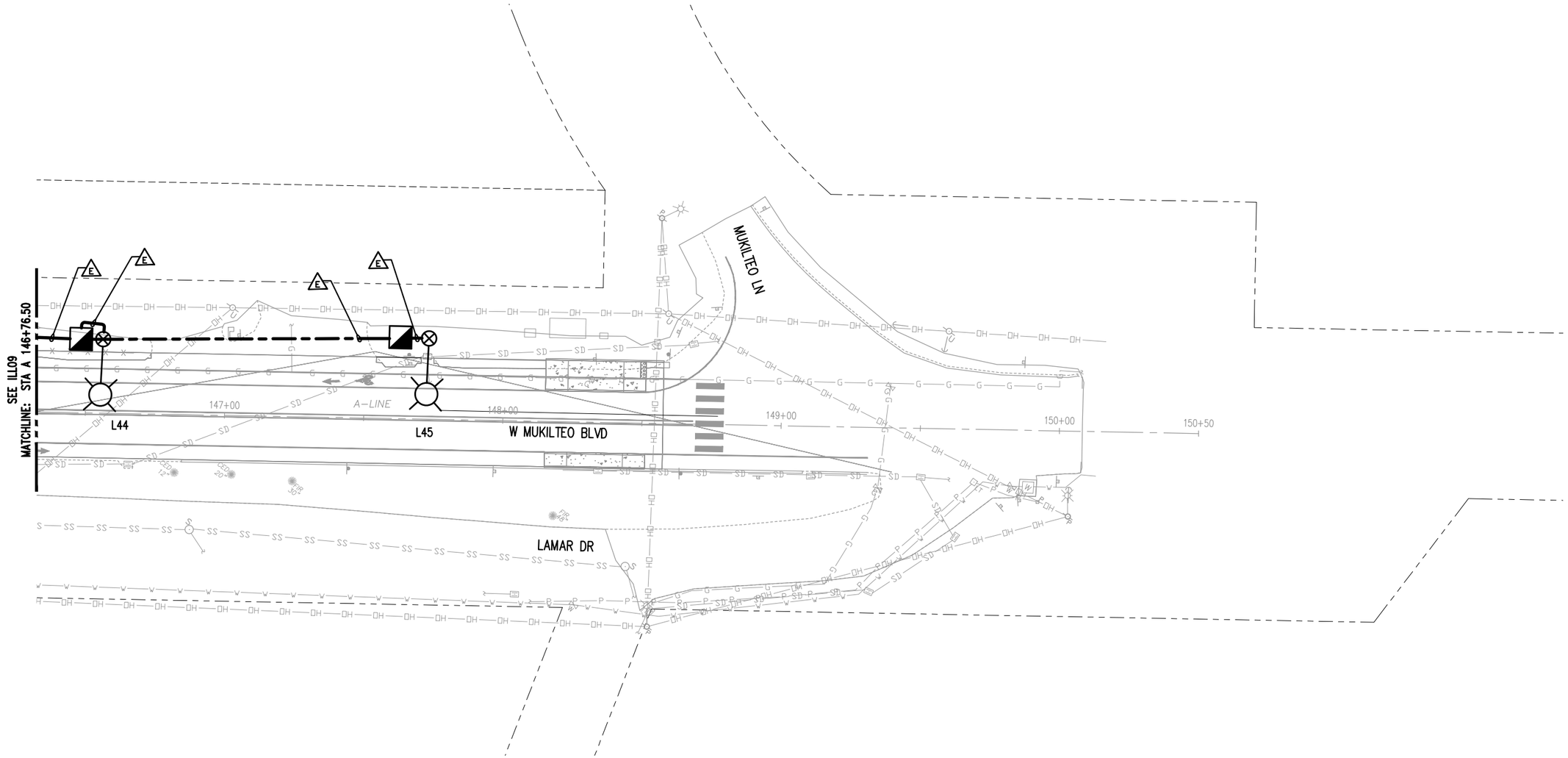
MUKILTEO, WA

ILLUMINATION PLAN

ILL10

S4 T28N R4E & S3 T29N R4E



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WSDOT STREETLIGHT STANDARD POLE PER WSDOT STANDARD PLAN J-28.10-02 WITH BASE PER LUMINAIRE SCHEDULE

TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-04

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CITY OF MUKILTEO

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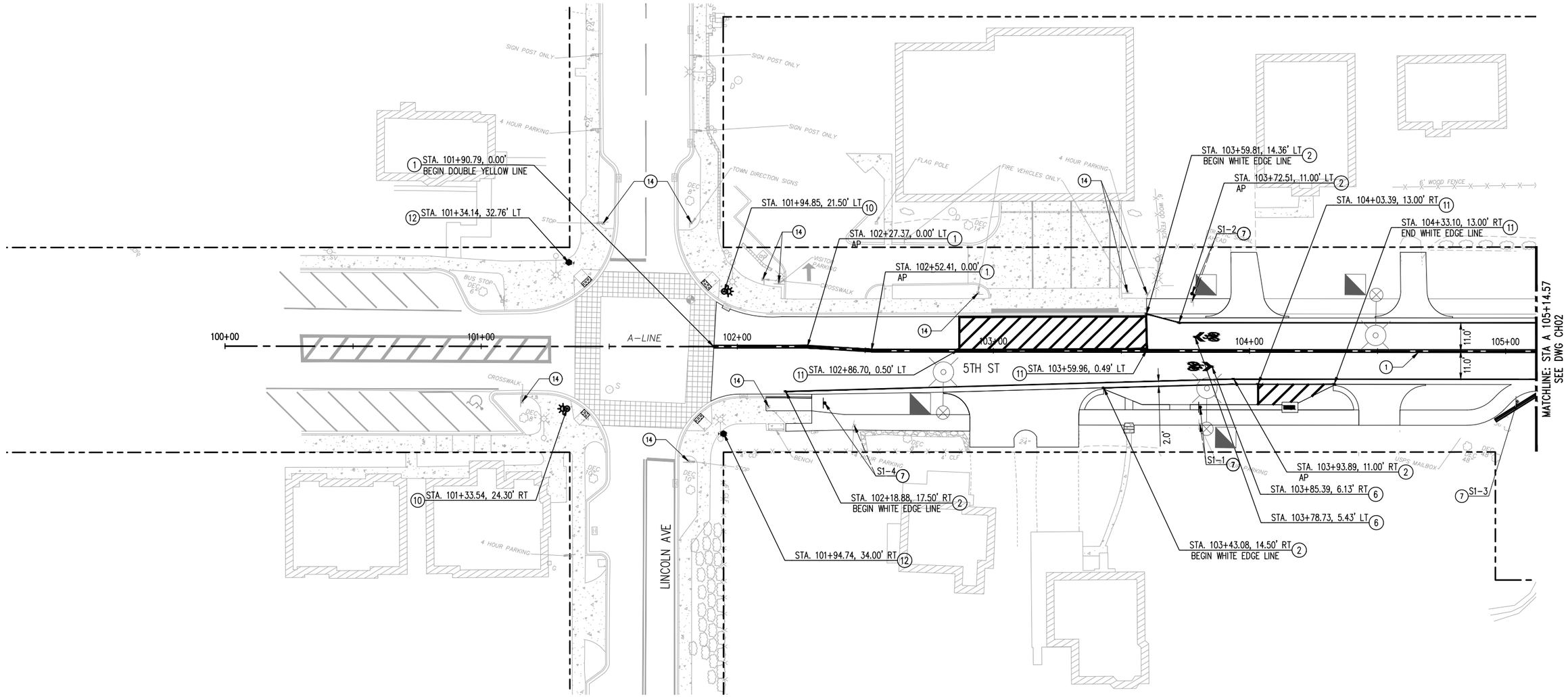
ILLUMINATION PLAN

SHT. 110 OF 123

ILL11



CONSTRUCTION NOTES

1. 4" PLASTIC DOUBLE YELLOW CENTERLINE PER WSDOT STD. PLAN M-20.10
2. 4" PLASTIC WHITE EDGE LINE PER WSDOT STD PLAN M-20.10
3. 18" PLASTIC WHITE STOP BAR PER COM STD PLAN TR-006
4. PLASTIC WHITE CROSSWALK PER COM STD PLAN TR-006
5. PLASTIC BIKE LANE SYMBOL PER COM STD. PLAN TR-007
6. PLASTIC SHARED LANE SYMBOL PER COM STD PLAN TR-007
7. SIGN ON TIMBER SIGN SUPPORT, PER WSDOT STD PLAN G-22.10 SEE SIGN SCHEDULE ON CH10
8. 4" PLASTIC YELLOW CENTER LINE PER WSDOT STD PLAN M-20.10
9. SIGN ON LIGHT STANDARD, PER WSDOT STD. PLAN G-30.10, SEE SIGN SCHEDULE
10. SOLAR-POWERED WIRELESS RECTANGULAR RAPID FLASHING BEACON
11. 8" WHITE PLASTIC CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
12. PEDESTRIAN PUSH BUTTON PER WSDOT STD PLAN J-20.10-04
13. REMOVE EXISTING SIGN AND SIGNPOST
14. PROTECT IN PLACE EXISTING SIGN
15. SIGN ON STEEL SIGN SUPPORT TYPE SB-2A, PER WSDOT STD PLAN G-24.40
16. 8" MMA YELLOW CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
17. PLASTIC WHITE PEDESTRIAN SYMBOL, SEE DETAIL 1, SHEET CH11

LEGEND:

- WHITE PLASTIC CROSSWALK PER COM STD. PLAN TR-006
- GREEN PLASTIC BIKE CROSSING, SEE DETAIL 1, SHEET CH10
- PLASTIC BIKE SYMBOL PER COM STD. PLAN TR-007
- PLASTIC SHARED LANE SYMBOL PER COM STD. PLAN TR-007
- WHITE FLEXIBLE GUIDE POST PER WSDOT STD. PLAN M-40.10-03
- SIGN
- EXISTING SIGN TO BE RELOCATED

N

0 10 20 40
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NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. : 2000722

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CHANNELIZATION AND SIGNAGE PLAN

SHT. 111 OF 123

CH01

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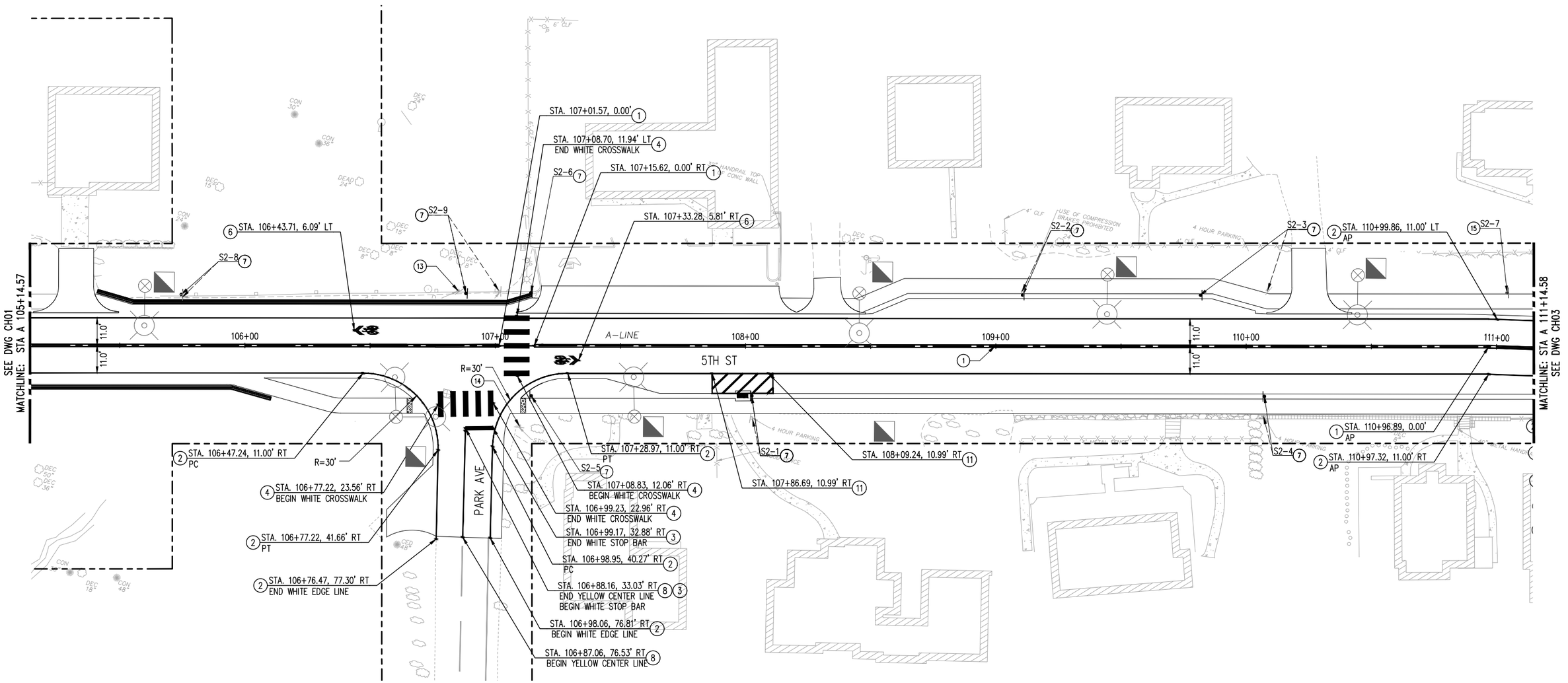

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5. PLASTIC BIKE LANE SYMBOL PER COM STD. PLAN TR-007
6. PLASTIC SHARED LANE SYMBOL PER COM STD PLAN TR-007
7. SIGN ON TIMBER SIGN SUPPORT, PER WSDOT STD PLAN G-22.10 SEE SIGN SCHEDULE ON CH10
8. 4" PLASTIC YELLOW CENTER LINE PER WSDOT STD PLAN M-20.10
9. SIGN ON LIGHT STANDARD, PER WSDOT STD. PLAN G-30.10, SEE SIGN SCHEDULE
10. SOLAR-POWERED WIRELESS RECTANGULAR RAPID FLASHING BEACON
11. 8" WHITE PLASTIC CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
12. PEDESTRIAN PUSH BUTTON PER WSDOT STD PLAN J-20.10-04
13. REMOVE EXISTING SIGN AND SIGNPOST
14. PROTECT IN PLACE EXISTING SIGN
15. SIGN ON STEEL SIGN SUPPORT TYPE SB-2A, PER WSDOT STD PLAN G-24.40
16. 8" MMA YELLOW CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
17. PLASTIC WHITE PEDESTRIAN SYMBOL, SEE DETAIL 1, SHEET CH11

NOT FOR CONSTRUCTION - 90 PERCENT

LEGEND:

- WHITE PLASTIC CROSSWALK PER COM STD. PLAN TR-006
- GREEN PLASTIC BIKE CROSSING, SEE DETAIL 1, SHEET CH10
- PLASTIC BIKE SYMBOL PER COM STD. PLAN TR-007
- PLASTIC SHARED LANE SYMBOL PER COM STD. PLAN TR-007
- WHITE FLEXIBLE GUIDE POST PER WSDOT STD. PLAN M-40.10-03
- SIGN
- EXISTING SIGN TO BE RELOCATED

N

0 10 20 40
1 inch = 20 feet

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. :2000722

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CHANNELIZATION AND SIGNAGE PLAN

SHT. 112 OF 123

CH02

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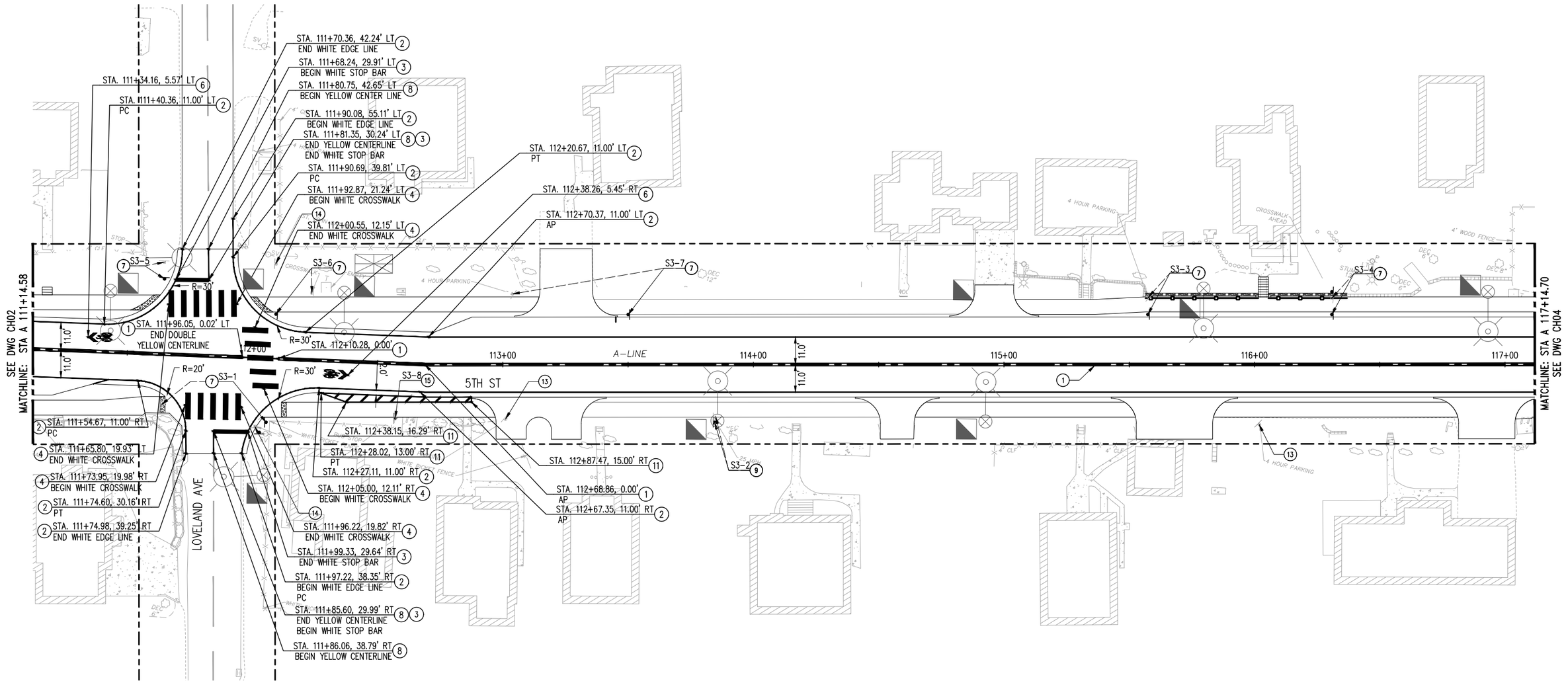

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10. SOLAR-POWERED WIRELESS RECTANGULAR RAPID FLASHING BEACON
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12. PEDESTRIAN PUSH BUTTON PER WSDOT STD PLAN J-20.10-04
13. REMOVE EXISTING SIGN AND SIGNPOST
14. PROTECT IN PLACE EXISTING SIGN
15. SIGN ON STEEL SIGN SUPPORT TYPE SB-2A, PER WSDOT STD PLAN G-24.40
16. 8" MMA YELLOW CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
17. PLASTIC WHITE PEDESTRIAN SYMBOL, SEE DETAIL 1, SHEET CH11

LEGEND:

- WHITE PLASTIC CROSSWALK PER COM STD. PLAN TR-006
- GREEN PLASTIC BIKE CROSSING, SEE DETAIL 1, SHEET CH10
- PLASTIC BIKE SYMBOL PER COM STD. PLAN TR-007
- PLASTIC SHARED LANE SYMBOL PER COM STD. PLAN TR-007
- WHITE FLEXIBLE GUIDE POST PER WSDOT STD. PLAN M-40.10-03
- SIGN
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CHANNELIZATION AND SIGNAGE PLAN

SHT. 113 OF 123

CH03

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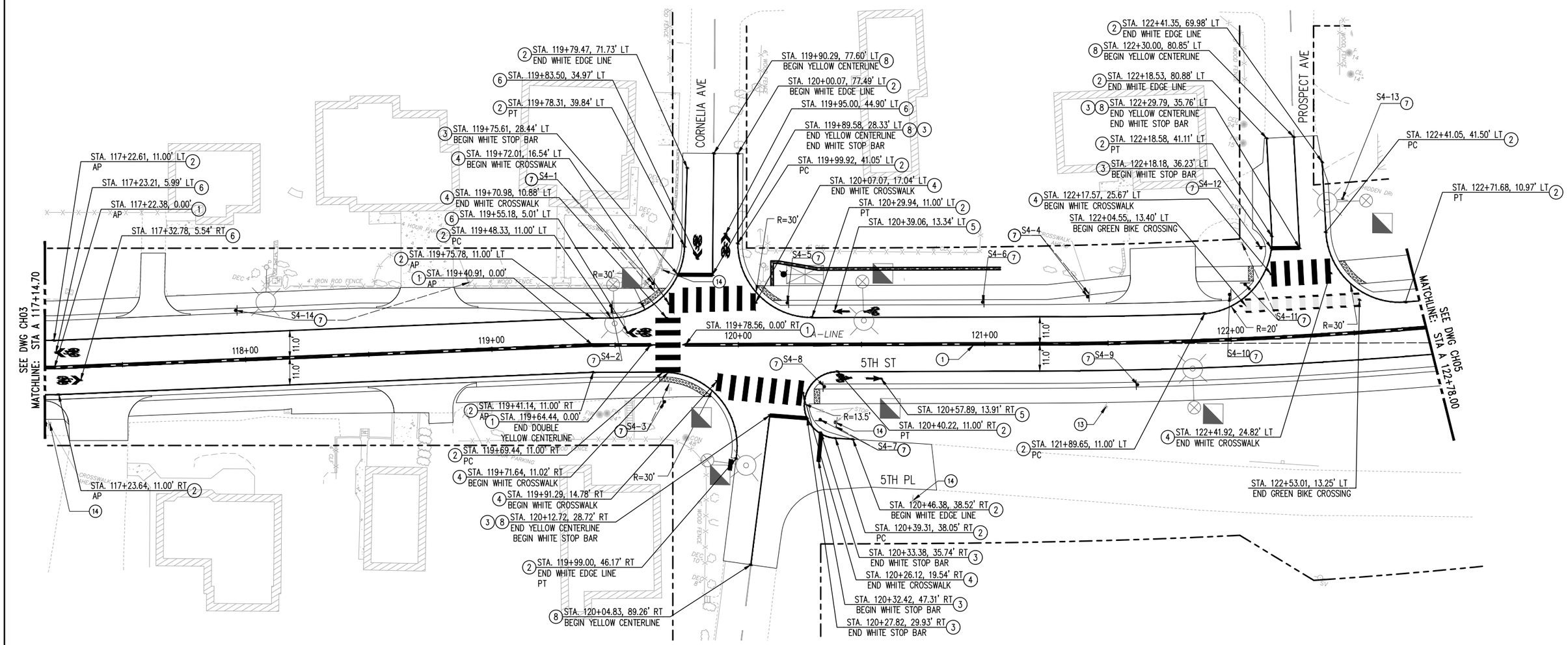

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13. REMOVE EXISTING SIGN AND SIGNPOST
14. PROTECT IN PLACE EXISTING SIGN
15. SIGN ON STEEL SIGN SUPPORT TYPE SB-2A, PER WSDOT STD PLAN G-24.40
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LEGEND:

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- GREEN PLASTIC BIKE CROSSING, SEE DETAIL 1, SHEET CH10
- PLASTIC BIKE SYMBOL PER COM STD. PLAN TR-007
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CHANNELIZATION AND SIGNAGE PLAN

SHT. 114 OF 123

CH04

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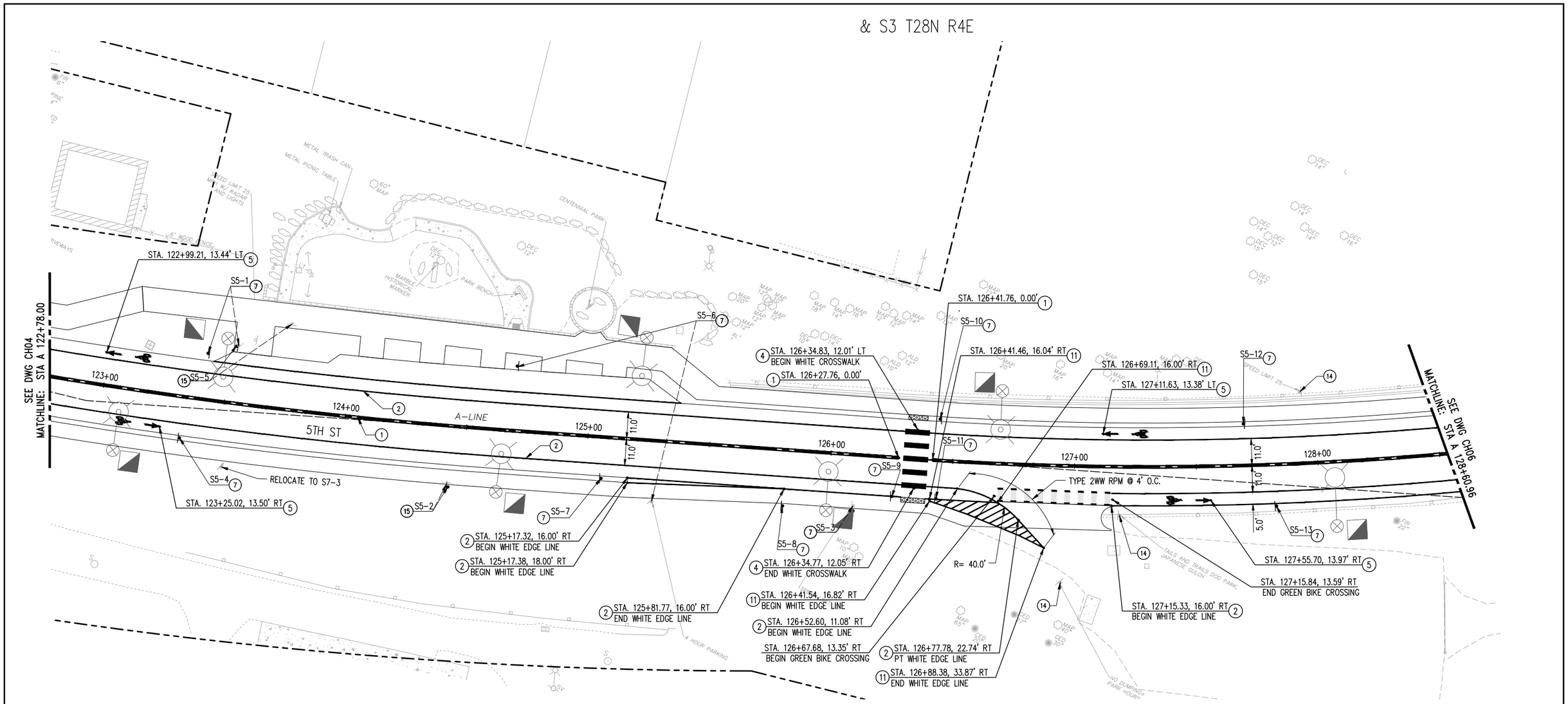

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NOT FOR CONSTRUCTION - 90 PERCENT

LEGEND:

- WHITE PLASTIC CROSSWALK PER COM STD. PLAN TR-006
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CHANNELIZATION AND SIGNAGE PLAN

CH05

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tjmg
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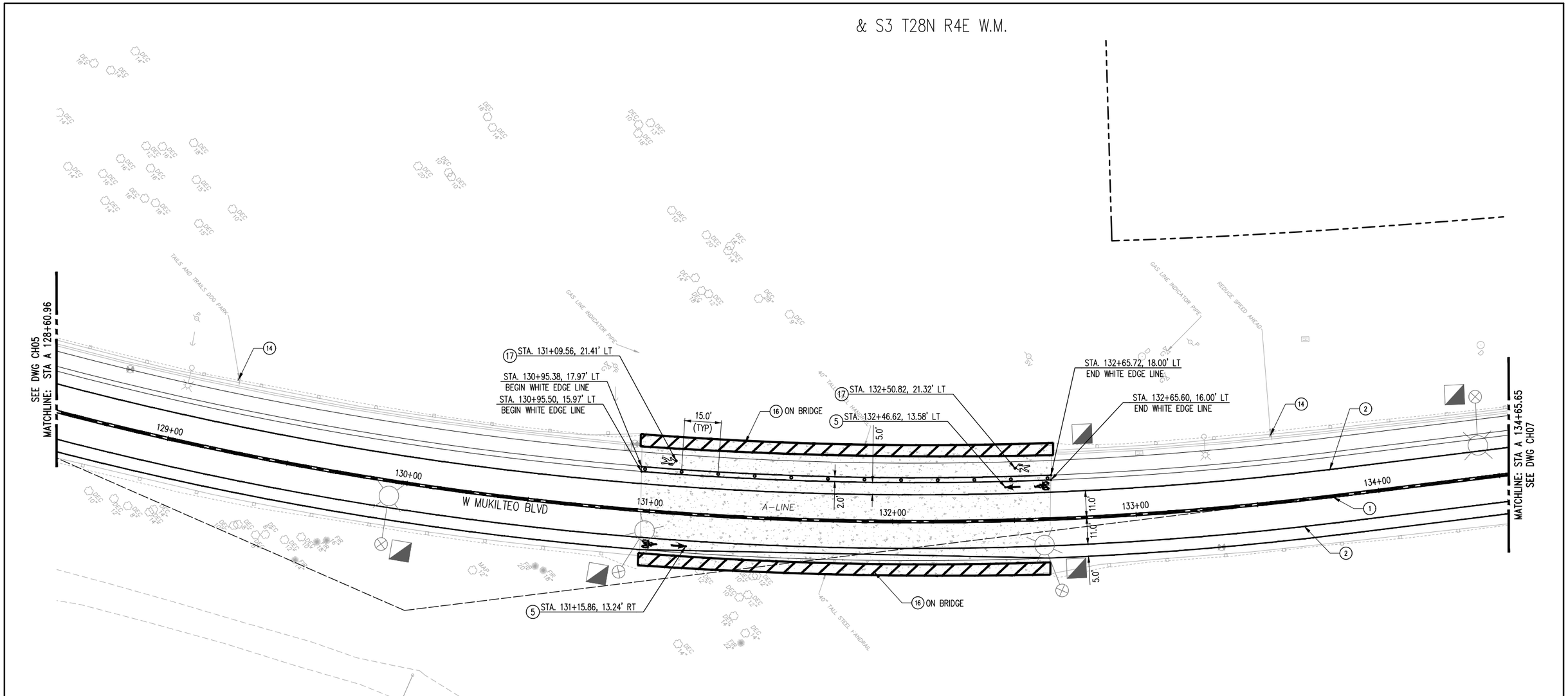

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- EXISTING SIGN TO BE RELOCATED

N

0 10 20 40
1 inch = 20 feet

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. :2000722

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S C A L E: 1" = 20'

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CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

CHANNELIZATION AND SIGNAGE PLAN

SHT. 116 OF 123

CH06

Z:\2000001-2009999\2000722 Mukilteo 5th St Bicycle & Pedestrian\CADD\Sheets\M5TH - CH.dwg
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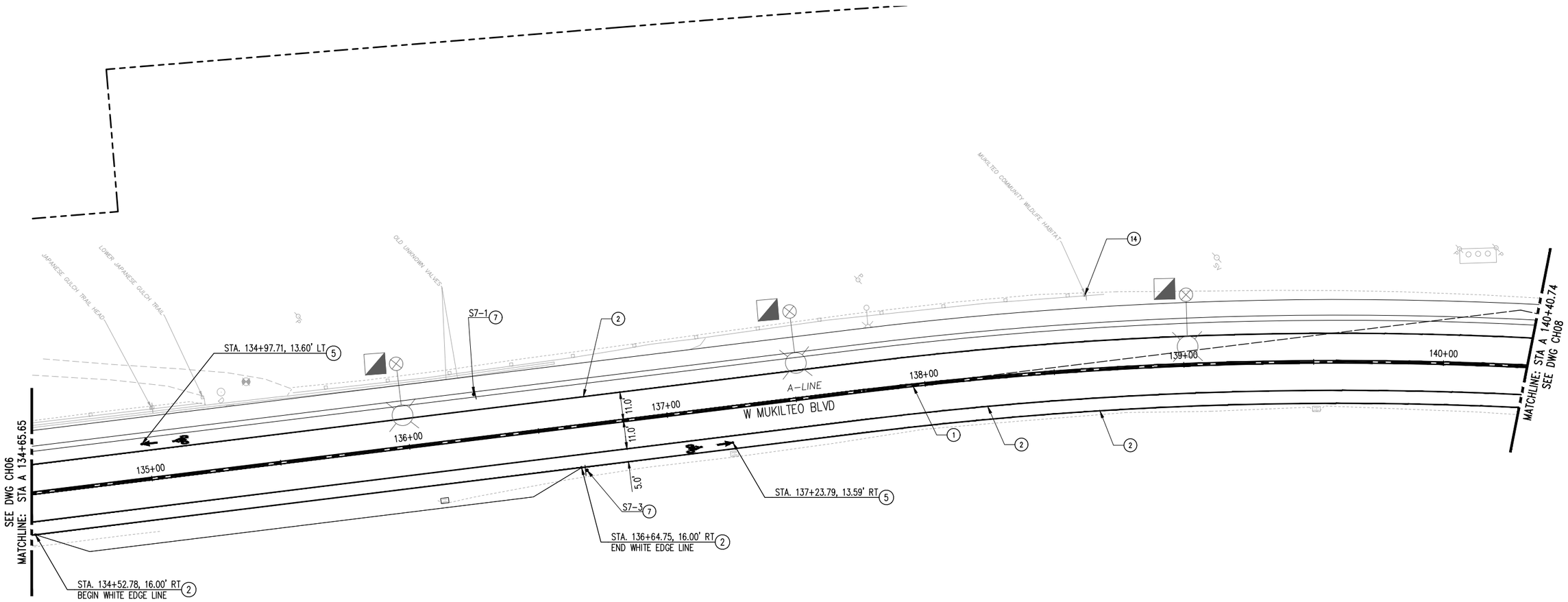
S3 T28N R4E W.M.



CONSTRUCTION NOTES

1. 4" PLASTIC DOUBLE YELLOW CENTERLINE PER WSDOT STD. PLAN M-20.10
2. 4" PLASTIC WHITE EDGE LINE PER WSDOT STD PLAN M-20.10
3. 18" PLASTIC WHITE STOP BAR PER COM STD PLAN TR-006
4. PLASTIC WHITE CROSSWALK PER COM STD PLAN TR-006
5. PLASTIC BIKE LANE SYMBOL PER COM STD. PLAN TR-007
6. PLASTIC SHARED LANE SYMBOL PER COM STD PLAN TR-007
7. SIGN ON TIMBER SIGN SUPPORT, PER WSDOT STD PLAN G-22.10 SEE SIGN SCHEDULE ON CH10
8. 4" PLASTIC YELLOW CENTER LINE PER WSDOT STD PLAN M-20.10
9. SIGN ON LIGHT STANDARD, PER WSDOT STD. PLAN G-30.10, SEE SIGN SCHEDULE
10. SOLAR-POWERED WIRELESS RECTANGULAR RAPID FLASHING BEACON
11. 8" WHITE PLASTIC CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
12. PEDESTRIAN PUSH BUTTON PER WSDOT STD PLAN J-20.10-04
13. REMOVE EXISTING SIGN AND SIGNPOST
14. PROTECT IN PLACE EXISTING SIGN
15. SIGN ON STEEL SIGN SUPPORT TYPE SB-2A, PER WSDOT STD PLAN G-24.40
16. 8" MMA YELLOW CROSSHATCH MARKING, SEE DETAIL 2, SHEET CH10
17. PLASTIC WHITE PEDESTRIAN SYMBOL, SEE DETAIL 1, SHEET CH11

LEGEND:

- WHITE PLASTIC CROSSWALK PER COM STD. PLAN TR-006
- GREEN PLASTIC BIKE CROSSING, SEE DETAIL 1, SHEET CH10
- PLASTIC BIKE SYMBOL PER COM STD. PLAN TR-007
- PLASTIC SHARED LANE SYMBOL PER COM STD. PLAN TR-007
- WHITE FLEXIBLE GUIDE POST PER WSDOT STD. PLAN M-40.10-03
- SIGN
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SHT. 117 OF 123

CH07

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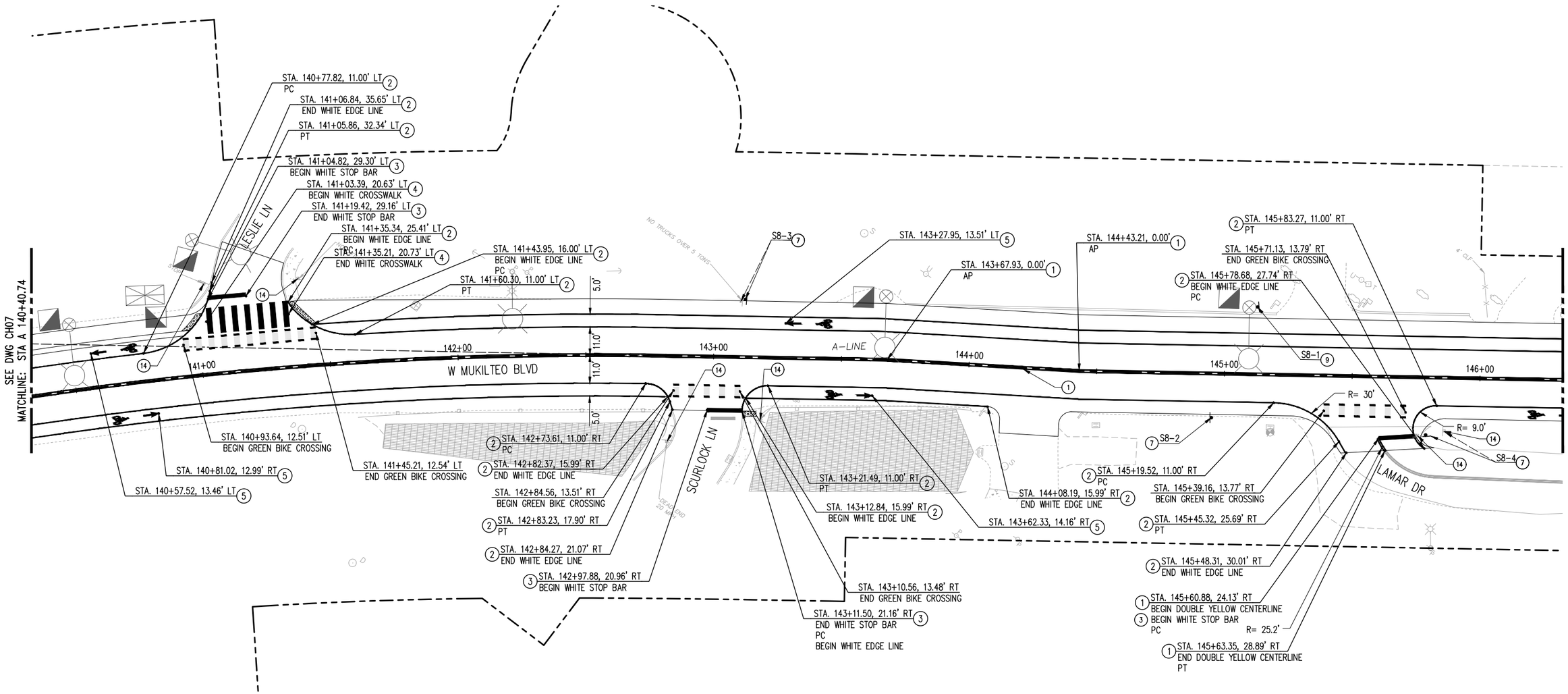

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SHT. 118 OF 123

CH08

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tmg
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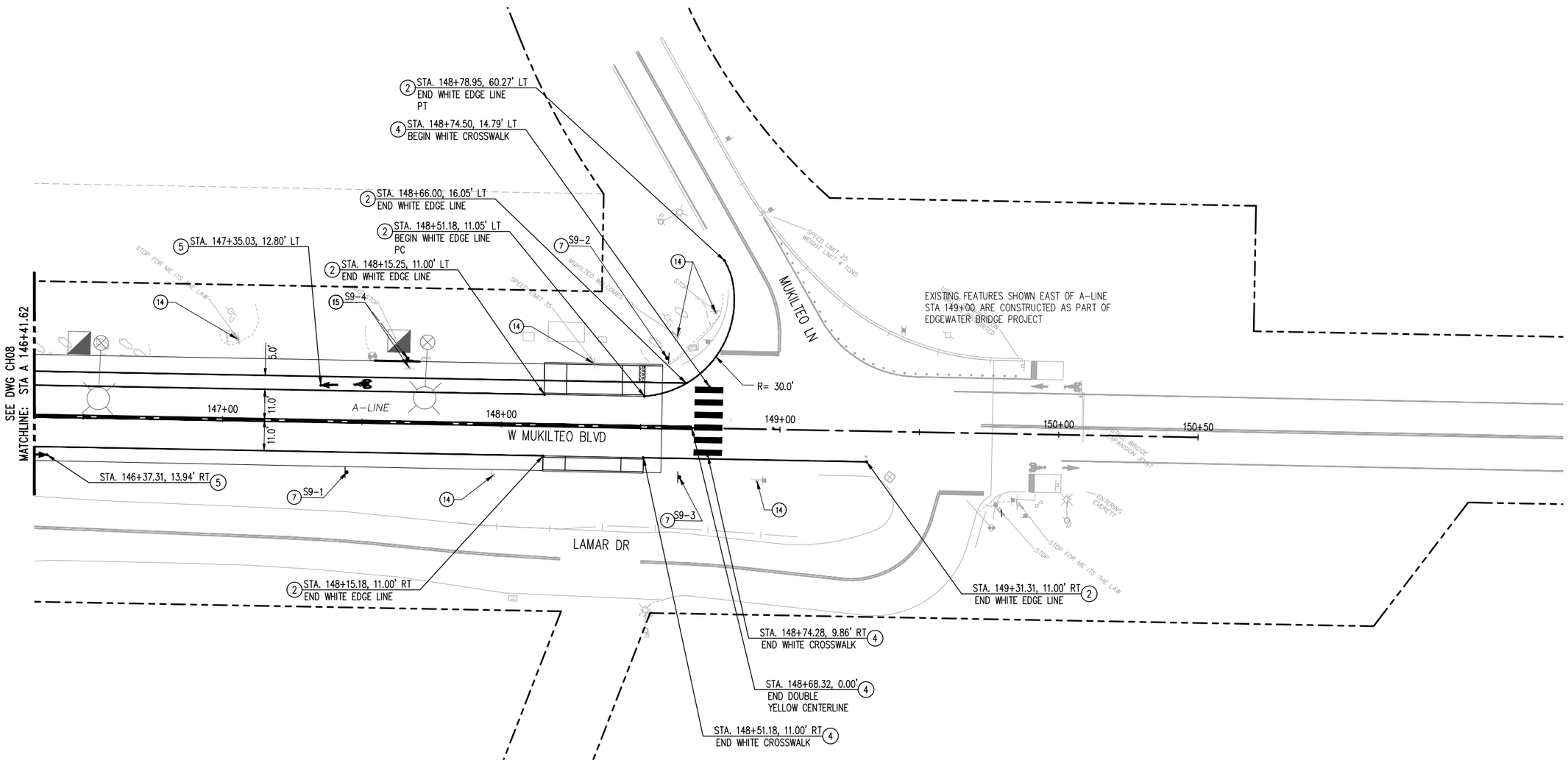

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CH09

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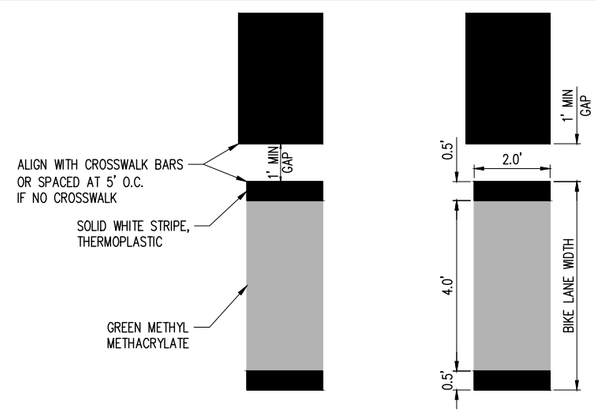
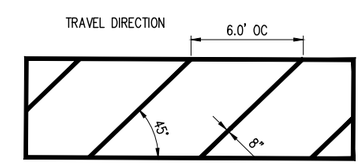
tjmg
Aug 19, 2022 - 7:00pm

SIGNAGE SCHEDULE

SIGN NO.	DESIGNATION	STATION/OFFSET	NOTES
S1-1	"4 HOUR PARKING" R7-108	STA 104+16.16, 24.03' RT	RELOCATE
S1-2	"TRAFFIC SIGNAL AHEAD" W3-3	STA 104+12.92, 22.29' LT	RELOCATE
S1-3	"SPEED LIMIT 25" R2-1	STA 105+39.96, 19.73' RT	REMOVE & REPLACE
S1-4	"BICYCLE" W11-1 "SHARE THE ROAD" W16-1P"	STA 102+69.57, 20.56' RT	NEW
S2-1	"4 HOUR PARKING" R7-108	STA 108+37.88, 20.00' RT	RELOCATE
S2-2	"USE OF COMPRESSION BRAKES PROHIBITED"	STA 109+46.07, 20.45' LT	RELOCATE
S2-3	"4 HOUR PARKING" R7-108	STA 109+81.78, 20.45' LT	RELOCATE
S2-4	"4 HOUR PARKING" R7-108	STA 110+42.69, 20.00' RT	RELOCATE
S2-5	"CROSSWALK" W11-2, W16-7P	STA 107+49.80, 20.05' RT	NEW
S2-6	"CROSSWALK" W11-2, W16-7P	STA 107+49.65, 21.14' LT	NEW
S2-7	"BUS STOP" R7-28	STA 111+38.82, 21.78' LT	REMOVE & REPLACE
S2-8	"CROSSWALK AHEAD" W11-2, W16-9P	STA 106+09.97, 20.35' LT	RELOCATE
S2-9	"SPEED LIMIT 25" R2-1	STA 107+23.67, 20.87' LT	RELOCATE
S3-1	"CROSSWALK" W11-2, W16-7P	STA 112+40.64, 30.13' RT	RELOCATE
S3-2	"SPEED LIMIT 25" R7-108	STA 114+19.69, 30.69' RT	RELOCATE
S3-3	"4 HOUR PARKING" R7-108	STA 115+92.76, 11.92' LT	RELOCATE
S3-4	"CROSSWALK AHEAD" W11-2, W16-9P	STA 116+66.17, 11.73' LT	RELOCATE
S3-5	"STREET NAME SIGN" D3-1, "5th St" "STREET NAME SIGN" D3-1, "Loveland Ave" "STOP" R1-1"	STA 111+99.07, 30.05' LT	RELOCATE
S3-6	"CROSSWALK" W11-2, W16-7P	STA 112+44.10, 17.76' LT	RELOCATE
S3-7	"NO PARKING 2:30 AM TO 4:30 AM" R7-2 "4 HR PARKING THIS BLOCK" R7-108 "TOW-AWAY ZONE" R7-201aP"	STA 113+85.42, 19.98' LT	RELOCATE
S3-8	"BUS STOP" R7-28	STA 112+93.30, 21.89' RT	REMOVE & REPLACE
S4-1	"CROSSWALK" W11-2, W16-7P	STA 120+00.47, 24.94' LT	RELOCATE
S4-2	"""BICYCLE"" W11-1 ""SHARE THE ROAD"" W16-1P"	STA 120+10.46, 41.89' LT	NEW
S4-3	"CROSSWALK" W11-2, W16-7P	STA 120+05.02, 23.08' RT	RELOCATE
S4-4	"CROSSWALK AHEAD" W11-2, W16-9P	STA 121+77.04, 18.95' LT	RELOCATE
S4-5	"BIKE LANE ENDS" R3-17, R3-17bP	STA 120+55.28, 16.92' LT	NEW
S4-6	"DOWNTOWN" D1-1b-R	STA 121+34.58, 16.96' LT	NEW
S4-7	"STREET NAME SIGN" D3-1 "Cornelia Ave" "STOP"" R1-1"	STA 120+68.54, 30.49' RT	RELOCATE
S4-8	"BIKE LANE" R3-17	STA 120+70.26, 17.10' RT	NEW
S4-9	"NO PARKING BIKE LANE" R7-9	STA 121+96.98, 17.07' RT	NEW
S4-10	"BIKE LANE" R3-17	STA 122+35.49, 18.28' LT	NEW
S4-11	"STREET NAME SIGN" D3-1, "5th St" "STREET NAME SIGN"" D3-1, "Prospect Ave" "STOP" R1-1"	STA 122+42.05, 22.12' LT	RELOCATE, MOVE STOP SIGN TO S4-12
S4-12	"STOP" R1-1	STA 122+49.23, 36.64' LT	NEW
S4-13	"HIDDEN DRIVEWAYS AHEAD"	STA 122+84.30, 54.62' LT	REMOVE & REPLACE
S4-14	"NO PARKING 2:30 AM TO 4:30 AM" R7-2 "4 HR PARKING THIS BLOCK" R7-108 "TOW-AWAY ZONE" R7-201aP"	STA 120+74.66, 31.61' RT	RELOCATE
S5-1	"SPEED LIMIT 25" R7-108 WITH RADAR & LIGHTS	STA 123+75.83, 18.98' LT	RELOCATE
S5-2	"BUS STOP" R7-28	STA 124+79.51, 25.11' RT	RELOCATE
S5-3	"SPEED LIMIT 35" R7-108	STA 126+45.45, 23.05' RT	RELOCATE
S5-4	"NO PARKING BIKE LANE" R7-9	STA 123+69.13, 16.99' RT	NEW
S5-5	"BUS STOP" R7-28	STA 123+87.51, 23.36' LT	RELOCATE
S5-6	"NO PARKING 2:30 AM TO 4:30 AM" R7-2 "4 HR PARKING THIS BLOCK" R7-108 "TOW-AWAY ZONE" R7-201aP"	STA 125+04.38, 26.53' LT	RELOCATE
S5-7	"CROSSWALK AHEAD" W11-2, W16-9P	STA 125+41.86, 17.02' RT	NEW
S5-8	"NO PARKING BIKE LANE" R7-9	STA 126+16.99, 23.03' RT	NEW
S5-9	"CROSSWALK" W11-2, W16-7P	STA 126+61.46, 15.97' RT	NEW
S5-10	"CROSSWALK" W11-2, W16-7P	STA 126+79.21, 16.93' LT	NEW
S5-11	"USE CROSSWALK" R9-3Bp "NO PEDESTRIANS" R9-3"	STA 126+79.51, 15.74' RT	NEW
S5-12	"CROSSWALK AHEAD" W11-2, W16-9P	STA 128+05.22, 17.10' LT	NEW
S5-13	"NO PARKING BIKE LANE" R7-9	STA 128+17.70, 17.05' RT	NEW
S7-1	"NO PARKING BIKE LANE" R7-9	STA 136+62.39, 17.08' LT	NEW
S7-2	"NO PARKING BIKE LANE" R7-9	STA 137+02.08, 17.30' RT	NEW
S7-3	"NO PARKING 2:30 AM TO 4:30 AM" R7-2 "4 HR PARKING THIS BLOCK" R7-108 "TOW-AWAY ZONE" R7-201aP"	STA 136+66.69, 17.30' RT	NEW
S8-1	"NO PARKING BIKE LANE" R7-9	STA 145+28.84, 24.58' RT	NEW
S8-2	"NO PARKING BIKE LANE" R7-9	STA 145+30.59, 17.54' RT	NEW
S8-3	"NO TRUCKS OVER 5 TONS" R12-3	STA 143+47.39, 22.56' LT	RELOCATE
S8-4	"STOP" R1-1	STA 145+79.14, 22.75' RT	RELOCATE
S9-1	"CROSSWALK AHEAD" W11-2, W16-9P	STA 147+80.22, 18.45' RT	NEW
S9-2	"CROSSWALK" W11-2, W16-7P	STA 148+94.58, 21.90' LT	NEW
S9-3	"CROSSWALK" W11-2, W16-7P	STA 148+99.72, 20.75' RT	NEW
S9-4	"BUS STOP" R7-28	STA 147+66.09, 22.79' LT	RELOCATE



BIKE CROSSING DETAIL (1 / CH01-CH09)
SCALE: 1" = 2'



NOTE: COLOR INDICATED ON PLAN

CROSSHATCH MARKING DETAIL (2 / CH01-CH09)
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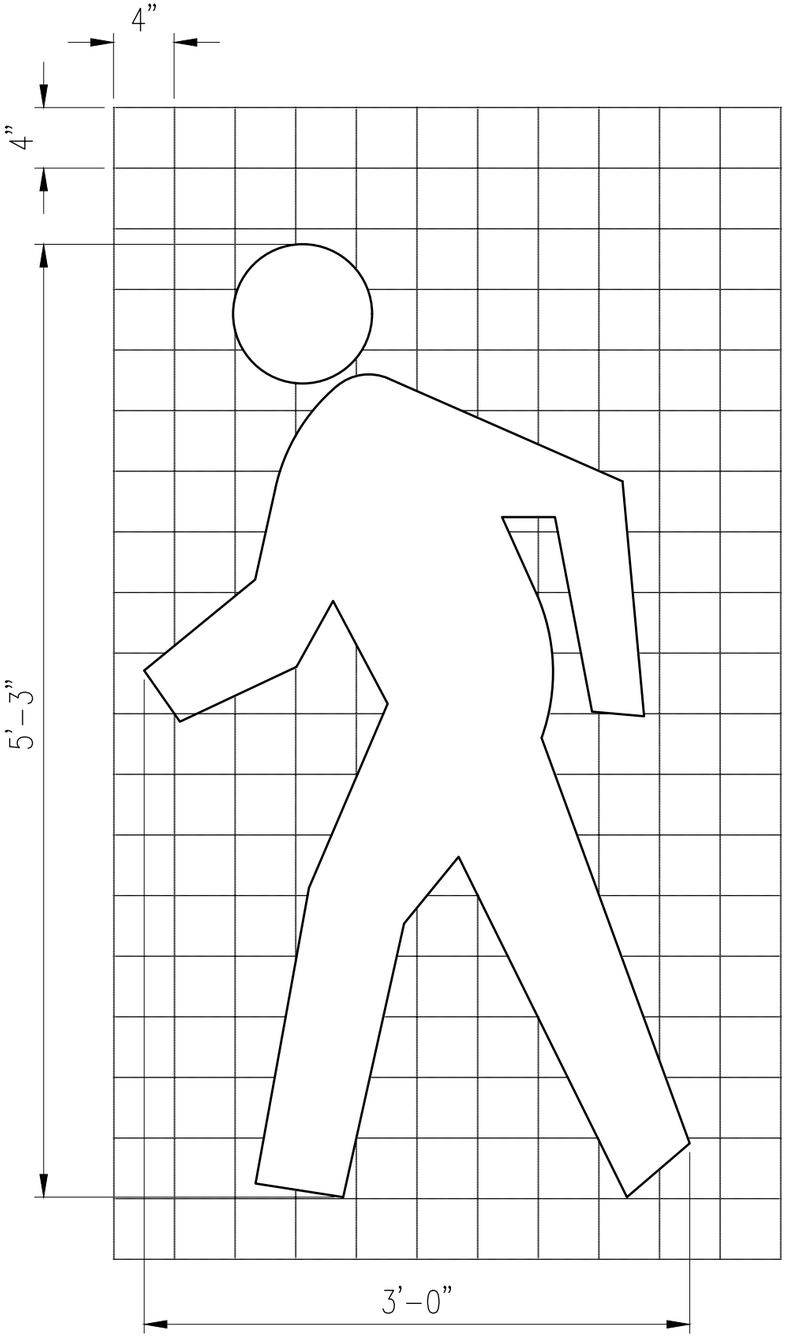

PEDESTRIAN SYMBOL (1 / CH08)
SCALE: 1" = 5'

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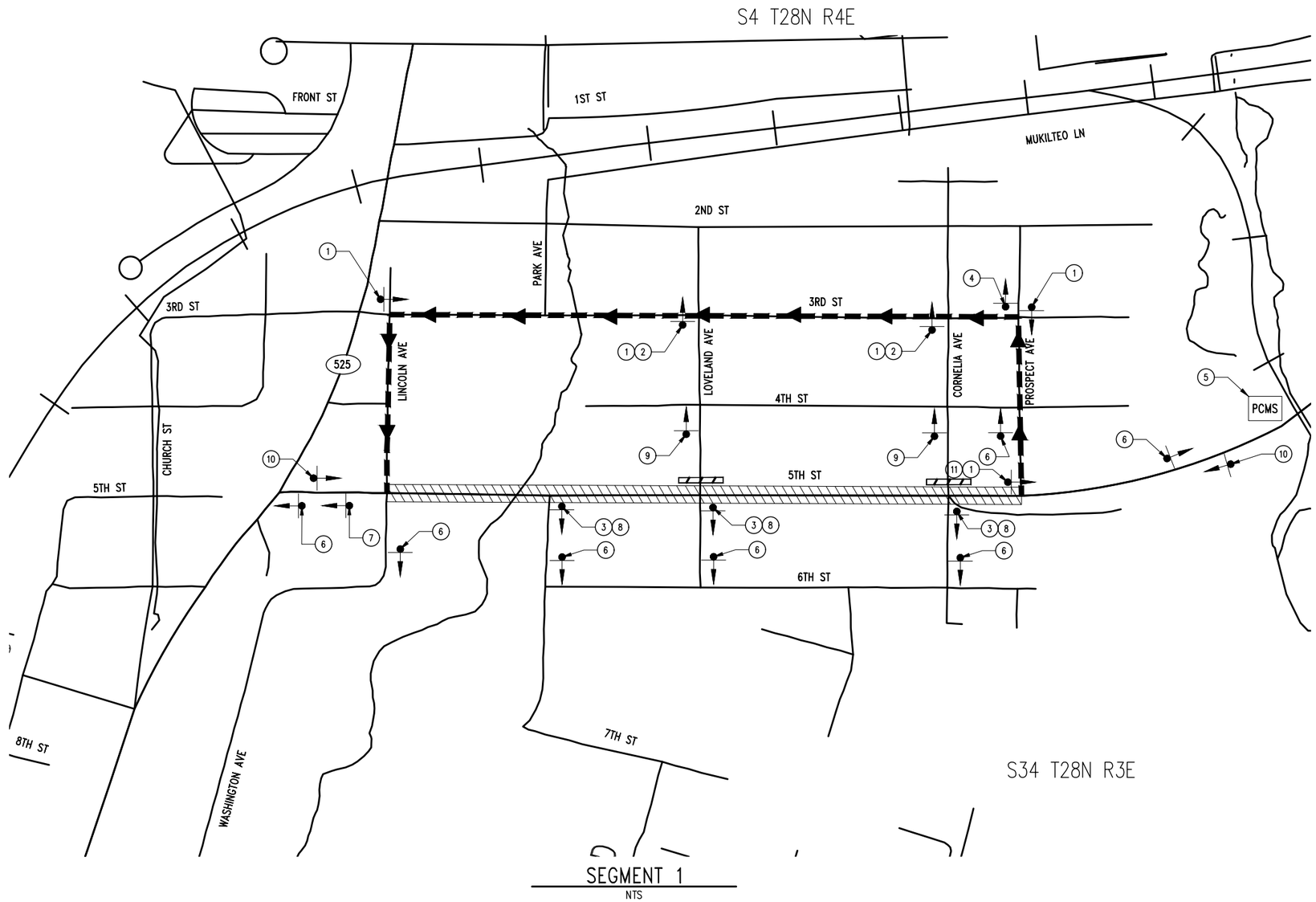

LEGEND

- TEMPORARY SIGN
- DETOUR ROUTE
- WORK ZONE
- TYPE 3 BARRICADE WITH WARNING LIGHTS
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR SIGN DIMENSIONS, SHAPE AND COLOR.
2. CONTRACTOR TO PROVIDE TRAFFIC CONTROL PLANS SIGNED BY A LICENSED TCS TO THE ENGINEER PRIOR TO IMPLEMENTATION OF MAINTENANCE OF TRAFFIC SHOWN ON THESE PLANS. MODIFICATIONS TO THE DETOUR ROUTING AND LAYOUT ARE ALLOWED WITH PRIOR CITY APPROVAL

CONSTRUCTION NOTES

1. DETOUR SIGN WITH ARROW M4-9
2. ROAD CLOSED TO THRU TRAFFIC R11-4
3. ONE WAY ONLY R6-2
4. WB DETOUR SIGN WITH ARROW
5. PCMS TO READ "5TH STREET CLOSED AHEAD, FOLLOW DETOUR ROUTE"
6. ROAD WORK AHEAD W20-1
7. ONE LANE ROAD AHEAD W20-4
8. RIGHT TURN ONLY
9. ROAD CLOSED AHEAD W20-3
10. END WORK ZONE
11. LEFT TURN ONLY

N

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MAINTENANCE OF TRAFFIC PLAN

MOT1

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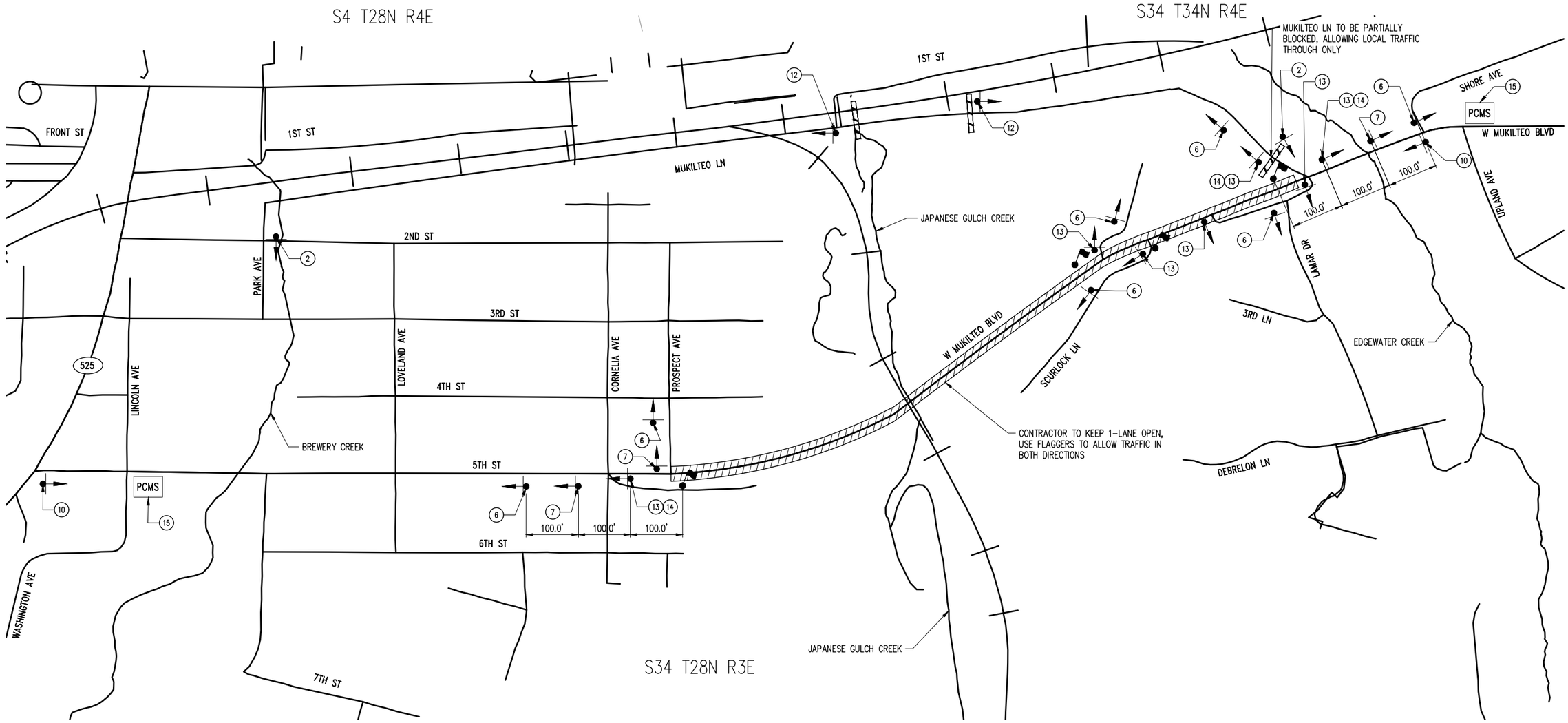

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- DETOUR ROUTE
- WORK ZONE
- TYPE 3 BARRICADE WITH WARNING LIGHTS
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
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9. ROAD CLOSED AHEAD W20-3
10. END WORK ZONE
11. LEFT TURN ONLY
12. ROAD CLOSED R1 1-2
13. FLAGGER W20-7
14. 100 FEET W16-2P
15. PCMS TO READ "ROAD CONSTRUCTION AHEAD. 1-LANE ROAD, MUKILTEO LN. CLOSED TO THRU TRAFFIC"

SEGMENT 2

NTS

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1. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR SIGN DIMENSIONS, SHAPE AND COLOR.
2. CONTRACTOR TO PROVIDE TRAFFIC CONTROL PLANS SIGNED BY A LICENSED TCS TO THE ENGINEER PRIOR TO IMPLEMENTATION OF MAINTENANCE OF TRAFFIC SHOWN ON THESE PLANS. MODIFICATIONS TO THE DETOUR ROUTING AND LAYOUT ARE ALLOWED WITH PRIOR CITY APPROVAL

NOT FOR CONSTRUCTION - 90 PERCENT

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY MRV | DESIGNED BY TCG
CHECKED BY JMM | APPROVED BY JGM
DATE 08/2022
J O B No. : 2000722

CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

S C A L E: AS SHOWN

kpff — 1601 5th Avenue, Suite 1600, Seattle, WA 98101, 206.622.5822, www.kpff.com

CITY OF MUKILTEO

MUKILTEO 5TH ST BICYCLE & PEDESTRIAN
MUKILTEO, WA

MAINTENANCE OF TRAFFIC PLAN

SHT. 123 OF 123

MOT2

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tzeng
Aug 19, 2022 - 7:00pm