

BAKER BAY ILWACO STORMWATER PROJECT

ILWACO, WA

WQC-2021-ILWACO-00209

GENERAL NOTES

1. SURVEY PROVIDED BY KPFF, DATED 12/06/2021.

VERTICAL DATUM: NAVD 88 (GEOID 12A) ELEVATION WAS ESTABLISHED THROUGH STATIC GPS OBSERVATIONS ON CONTROL POINTS NO. 1 AND 2. COLLECTED DATA WAS POST PROCESSED VIA THE ONLINE POSITIONING USER SERVICE (OPUS) TO OBTAIN A CORRECTED POSITION.

HORIZONTAL DATUM: NAD 83 (2011) BASIS OF BEARINGS FOR THIS SURVEY IS THE U.S. STATE PLANE COORDINATE SYSTEM (NAD83)(2011), WASHINGTON SOUTH ZONE. THE RESULTANT BEARING OF THE CENTERLINE OF HOWERTON AVENUE SE IS SOUTH 72°05'18" WEST.

2. CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF WASHINGTON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
3. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE ORIGINAL SURVEY PROVIDED BY BLUHM & ASSOCIATES FOR CONTROL INFORMATION.
4. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
5. WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED - DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
6. BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
7. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
8. SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
9. CONTRACTOR TO REFERENCE INFILTRATION TESTING & SOILS REPORT BY GEOENGINEERS DATED 3/18/2022 FOR THE SITE SOILS CONDITIONS.
10. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE REQUIREMENTS PACIFIC COUNTY & THE CITY OF LONG BEACH.
11. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
12. EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
13. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
14. THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
15. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO THE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
16. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.

CONSTRUCTION NOTES

GENERAL

1. ACTUAL LINES AND GRADES SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF WASHINGTON, BASED ON DIMENSIONS, ELEVATIONS AND BEARINGS AS SHOWN ON THE PLANS.
2. SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
3. SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
2. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
3. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
4. ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
6. SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

UTILITIES

1. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
2. CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
3. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
4. BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM

1. BEGIN LAYING STORM DRAIN PIPE AT THE LOW POINT OF THE SYSTEM. TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
2. ACTUAL LINES AND GRADES SHALL BE STAKED BY A QUALIFIED SURVEYOR, BASED ON COORDINATES, DIMENSIONS AND BEARINGS INDICATED ON THE PLANS. CONTRACTOR SHALL RETAIN A SURVEYOR LICENSED IN THE STATE OF WASHINGTON.
3. ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

EARTHWORKS

1. CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

SEPARATION STATEMENT

ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE FOLLOWING. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 12" MINIMUM CLEARANCE BETWEEN OUTSIDE DIAMETERS OF PIPE WITH ALL PIPE JOINTS EQUIDISTANT FROM CROSSING. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS IN PARALLEL INSTALLATIONS SHALL BE 5'. MAINTAIN 12" MINIMUM VERTICAL DISTANCE FOR ALL OTHER UTILITY CROSSINGS AND 12" HORIZONTAL PARALLEL DISTANCE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM 5' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 12" INCHES ABOVE THE SEWER.

MATERIAL NOTES

1. GENERAL: MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM ARCHITECT PRIOR TO INSTALLATION.
2. STORM AND SANITARY SEWER PIPING SHALL BE PVC PIPE, DUCTILE IRON PIPE, OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO THE PROJECT SPECIFICATIONS, AS INDICATED IN THE PLANS.
3. CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,300 PSI AT 28 DAYS.

ABBREVIATIONS

AC	ASPHALT CONCRETE	OV	OVERFLOW INLET
AD	AREA DRAIN	P/L	PROPERTY LINE
APPROX	APPROXIMATE	PC	POINT OF CURVATURE
B	BOLLARD	PCC	POINT OF COMPOUND CURVATURE
BLDG	BUILDING	PCR	POINT OF CURB RETURN
BOW	BACK OF WALK	PED	PEDESTRIAN
BS	BOTTOM OF SWALE	PIV	POST INDICATOR VALVE
	BOTTOM OF STAIR	POC	POINT ON CURVE
BW	BOTTOM OF WALL	PP	POWER POLE
CB	CATCH BASIN	PRC	POINT OF REVERSE CURVATURE
CL	CENTERLINE	PT	POINT OF TANGENT
CMP	CORRUGATED METAL PIPE	P.U.E	PUBLIC UTILITY EASEMENT
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	PVMT	PAVEMENT
COTG	CLEANOUT TO GRADE	PVT	PRIVATE
CP	CONTROL POINT	R	RIM
Δ	DELTA	RD	ROOF DRAIN
D/W	DRIVEWAY	R.O.W	RIGHT-OF-WAY
DIA, Ø	DIAMETER	S	SLOPE (%)
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
E	EASTING	SDMH	STORM DRAIN MANHOLE
EXIST./EX	EXISTING	SHT	SHEET
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FF	FINISH FLOOR ELEVATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISH GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FND	FOUNDATION	S/W	SIDEWALK
G	GUTTER	TC	TOP OF CURB
GB	GRADE BREAK	TD	TRENCH DRAIN
GL	GAS LINE	TG	TOP OF GROUND
GV	GATE VALVE	TP	TOP OF PAVEMENT
H	HEIGHT	TRANS.	TRANSFORMER
HCP	HANDICAP PARKING SPACE	TS	TOP OF STAIR
HP	HIGH POINT	TW	TOP OF WALL
ID	INSIDE DIAMETER		TOP OF WALK
IE	INVERT ELEVATION	TYP	TYPICAL
INV	INVERT	UG	UNDERGROUND
IRR.	IRRIGATION	UGE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	UNO	UNLESS NOTED OTHERWISE
MH	MANHOLE	W	WATER
MIN	MINIMUM	W/	WITH
N	NORTHING	WCR	WHEEL CHAIR RAMP
O.D	OUTSIDE DIAMETER	WM	WATER METER
OF	OUTFALL	WV	WATER VALVE
OV/H/OH	OVERHEAD	WQCB	WATER QUALITY CATCH BASIN

PROJECT CONTACTS

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CONTACT: CHRIS HATHAWAY

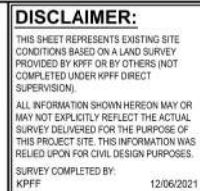
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LEGEND:	
	BUILDING OUTLINE WITH DOOR
	CONCRETE SURFACE
	ASPHALT SURFACE
	GRAVEL SURFACE
	WALL
	BUILDING OVERHANG
	CURB LINE
	EDGE OF ASPHALT
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	BRUSH LINE
	LOG
	ELECTRICAL LINE
	TELECOMMUNICATIONS LINE
	STORM LINE
	SANITARY SEWER LINE
	WATER LINE
	OVERHEAD UTILITY LINES
	UNDERGROUND LINE PER AS-BUILT
	SIGN
	DOUBLE POST SIGN
	BOLLARD
	FLAG POLE
	DRIVEWAY ENTRY
	HANDICAP
	BIKE RACK
	ROOF DRAIN
	SECURITY CAMERA
	ELECTRICAL JUNCTION BOX
	ELECTRICAL METER
	ELECTRICAL CABINET
	ELECTRICAL OUTLET
	ELECTRICAL VAULT
	TRANSFORMER
	GUN ANCHOR
	LUMINAIRE
	GRADING FLOOD LIGHT
	POWER POLE
	OVERHEAD LIGHT
	SANITARY MANHOLE WITH STRUCTURE
	STORM MANHOLE WITH STRUCTURE
	CATCH BASIN
	AREA DRAIN
	SEPTIC TANK STRUCTURE
	SANITARY/STORM CLEAN OUT
	SANITARY/STORM STRUCTURE H
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS VAULT
	TELECOMMUNICATIONS RISER
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	FIRE DEPARTMENT CONNECT
	HOSE REEL
	DRINKING FOUNTAIN
	IRRIGATION CONTROL VALVE
	MONITORING WELL
	DECIDUOUS TREE
	PERIMETER REPRESENTS DRIVEPINE
	CONIFEROUS TREE
	PERIMETER REPRESENTS DRIVEPINE
	FLOOD MONUMENT
	PROJECT CONTROL POINT



ILWACO, WA

BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

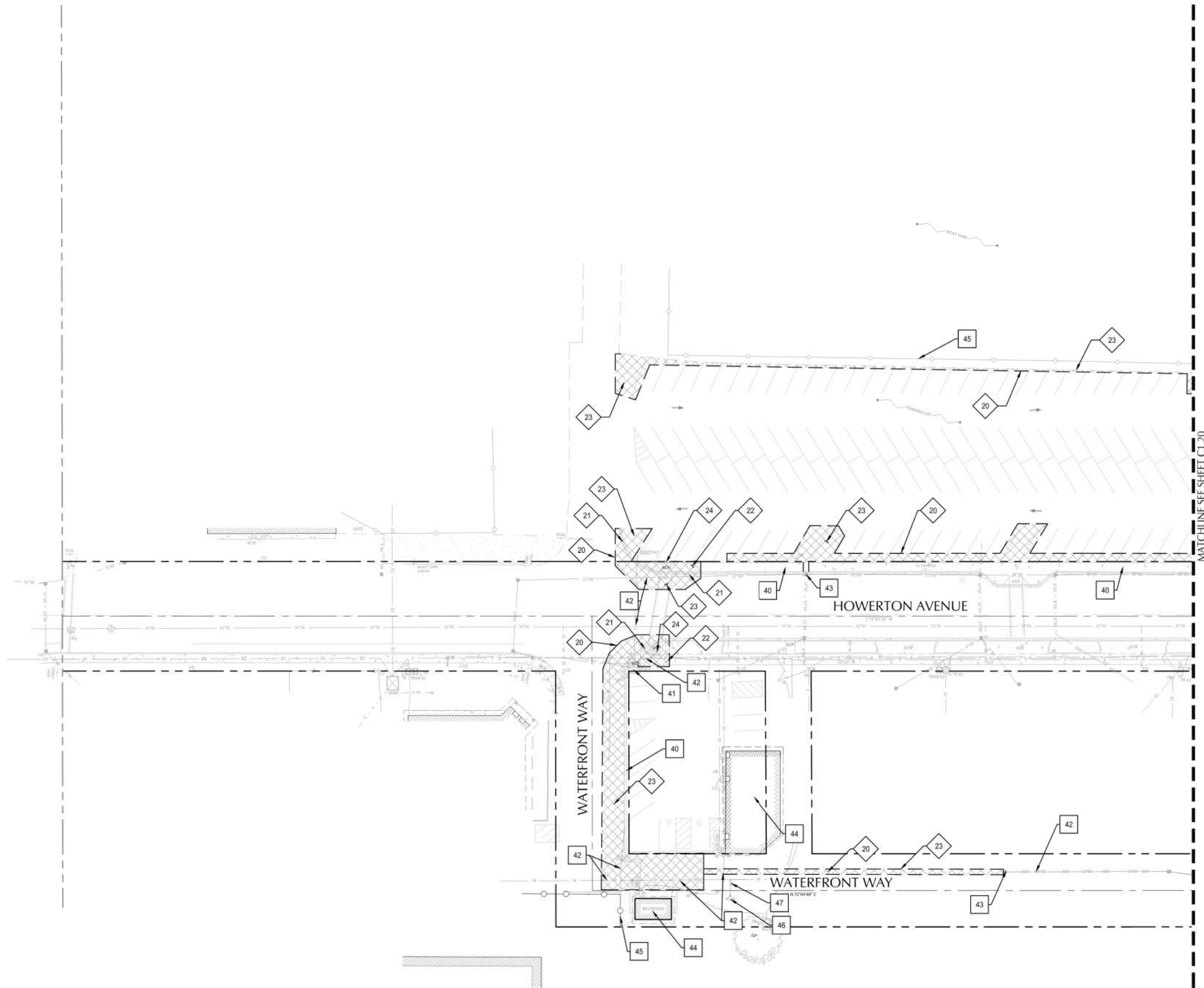
EXISTING CONDITIONS

SHEET NO.
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SHEET 2 OF 40

SHEET 4 OF 40

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22x34



SHEET NOTES

1. CONTRACTOR MAY STAGE WITHIN LIMITS OF DEMOLITION.
2. REMOVE ALL SITE COMPONENTS AND RECYCLE COMPONENTS AS REQUIRED IN THE SPECIFICATIONS.
3. GENERAL DEMOLITION PERMIT SHALL BE SECURED BY THE CONTRACTOR.
4. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING RIGHT-OF-WAY SURVEY MONUMENTATION DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT BY A LICENSED SURVEYOR OF ANY DAMAGED OR REMOVED MONUMENTS.
6. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT OF WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
7. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
8. SAWCUT STRAIGHT LINES IN SIDEWALK, AS NECESSARY.
9. CONTRACTOR IS RESPONSIBLE TO CONTROL DUST AND MUD DURING THE DEMOLITION PERIOD, AND DURING TRANSPORTATION OF DEMOLITION DEBRIS. ALL STREET SURFACES OUTSIDE THE CONSTRUCTION ZONE MUST BE KEPT CLEAN.
10. ALL EXPOSED PORTIONS OF UNDERGROUND UTILITIES TO BE ABANDONED SHALL BE PLUGGED PER DETAIL X/XX.X.

X DEMOLITION KEY NOTES

- 20 SAWCUT LINE
- 21 REMOVE CONCRETE CURB.
- 22 REMOVE CONCRETE SIDEWALK
- 23 REMOVE ASPHALT PAVEMENT AND CRUSHED ROCK SUBGRADE.
- 24 REMOVE CONCRETE ADA RAMP.
- 25 REMOVE CONCRETE DRIVEWAY.
- 28 REMOVE CATCH BASIN

X PROTECTION KEY NOTES

- 40 PROTECT CURB AND SIDEWALK.
- 41 PROTECT ELECTRICAL VAULT.
- 42 PROTECT UNDERGROUND UTILITIES.
- 43 PROTECT CATCH BASIN
- 44 PROTECT STORM STRUCTURE
- 45 PROTECT FENCE
- 46 PROTECT HYDRANT
- 47 PROTECT VALVE

SHEET LEGEND

- PROPERTY LINE
- DEMOLITION/WORK LIMITS (SHOWN OFFSET FOR CLARITY)
- SAWCUT LINE
- REMOVE OR ABANDON UTILITY LINE IN PLACE
- REMOVE TREE
- APPROXIMATE AREA OF CONCRETE SIDEWALK, CURB AND ASPHALT PAVEMENT REMOVAL

REVISION	DATE	DESCRIPTION	BY



SCALE
1 INCH = 30 FEET
30 0 30 60

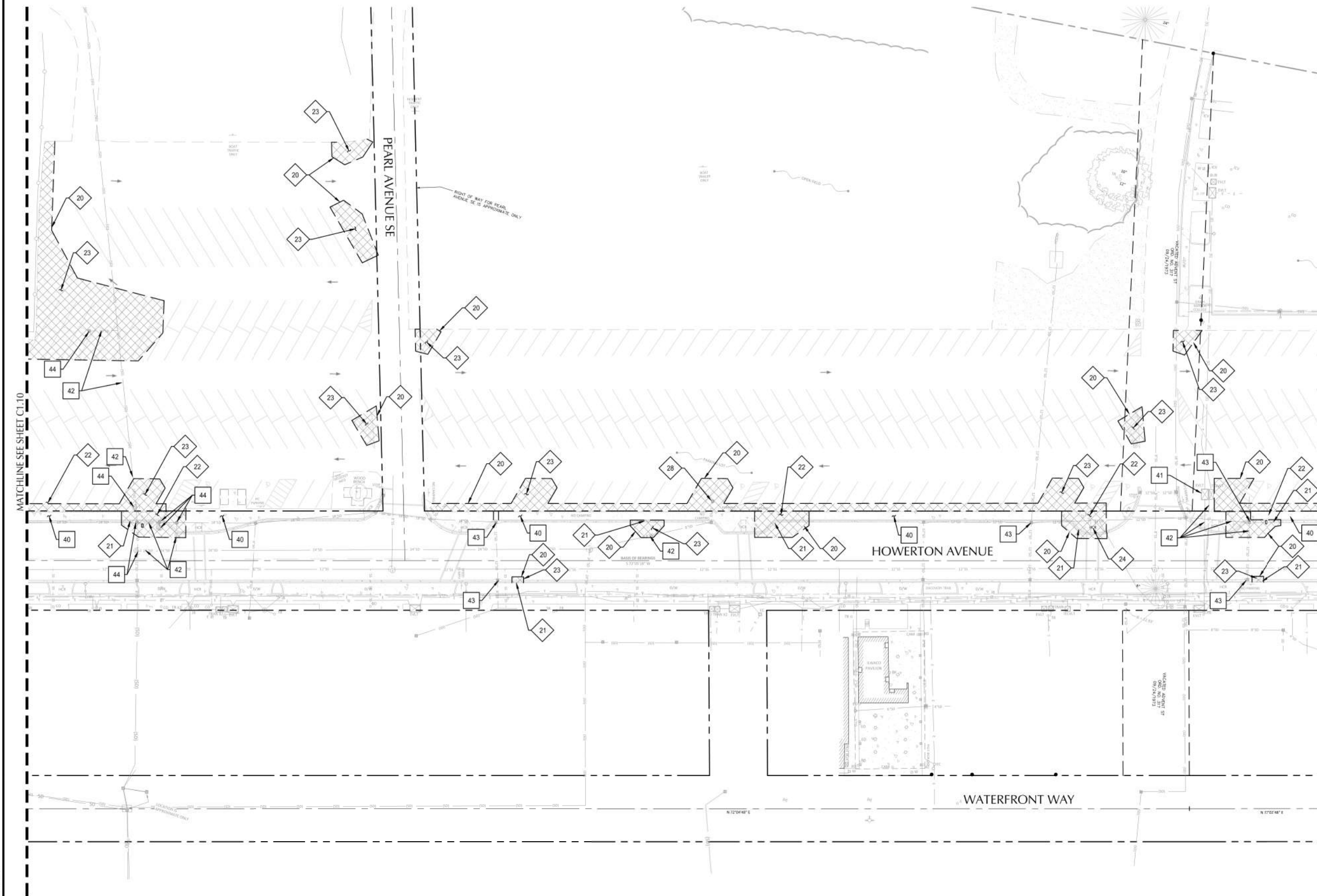


JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
DEMOLITION PLAN

SHEET NO.
C2.10
SHEET 5 OF 40

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22x34



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6. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT OF WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
7. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
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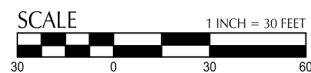
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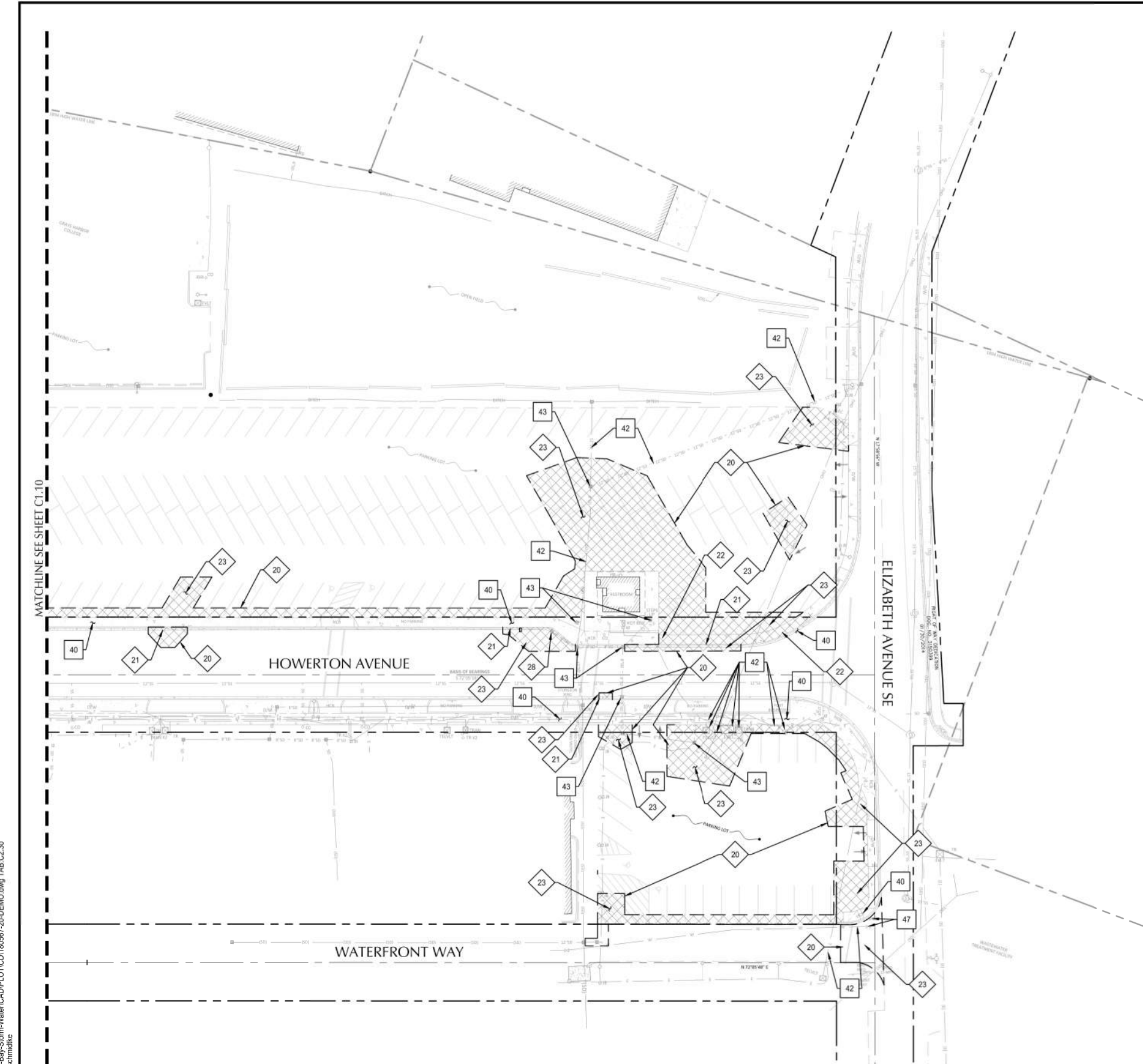


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WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
DEMOLITION PLAN

SHEET NO.
C2.20
SHEET 6 OF 40

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SHEET LEGEND

-  PROPERTY LINE
-  DEMOLITION/WORK LIMITS (SHOWN OFFSET FOR CLARITY)
-  SAWCUT LINE
-  REMOVE OR ABANDON UTILITY LINE IN PLACE
-  REMOVE TREE
-  APPROXIMATE AREA OF CONCRETE SIDEWALK, CURB AND ASPHALT PAVEMENT REMOVAL

REVISION	DATE	DESCRIPTION	BY

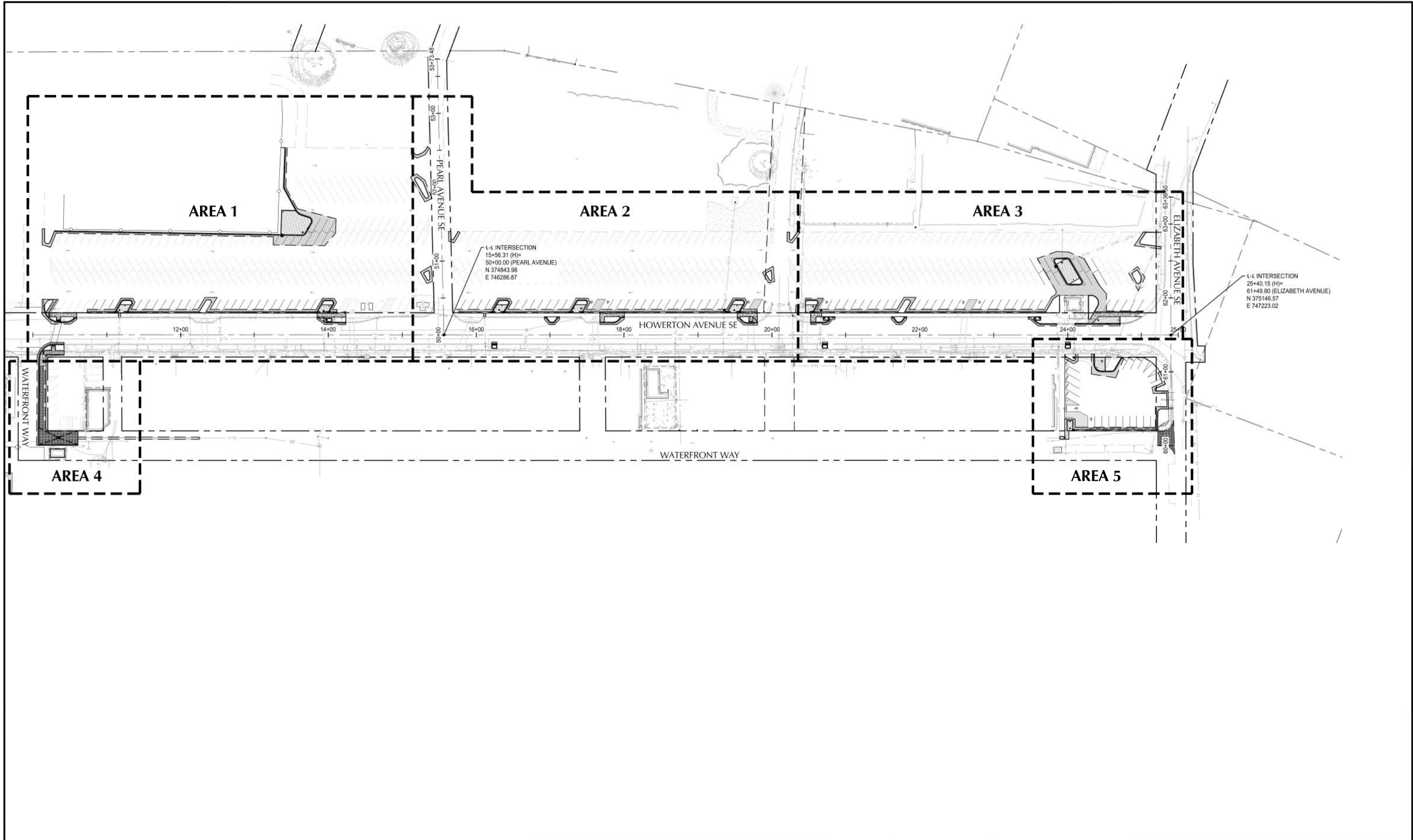


JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

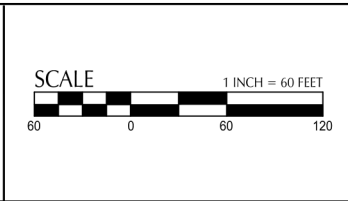
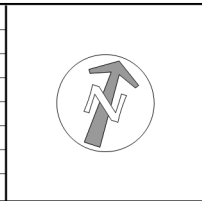
ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
DEMOLITION PLAN

SHEET NO.
C2.30
SHEET 7 OF 40

File: N:\proj\2021\81800567-Baker-Bay-Storm-Water-CAD\PROJECT\180567-30-SITE.dwg, TAB: C3.00
Plotted: 7/6/23 at 4:24pm By: jpschmidt



REVISION	DATE	DESCRIPTION	BY



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/IHJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT WQC-2021-ILWACO-00209 60% CONSTRUCTION DRAWINGS
SITE PLAN - OVERALL

SHEET NO.
C3.00
SHEET 8 OF 40

SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01.

KEY NOTES

#	DESCRIPTION	DETAIL REF.
1	SAWCUT LINE	
2A	STANDARD CURB	2A/C5.01
2B	CURB AND GUTTER	2B/C5.01
2C	CURB ENDING	2C/C5.01
2D	LOW PROFILE MOUNTABLE CURB	2D/C5.01
2E	FLUSH CURB	2E/C5.01
2F	CURB TRANSITION	
3A	CONCRETE SIDEWALK	
3B	CONCRETE CURB AND SIDEWALK-MONOLITHIC	
4	VALLEY GUTTER	4/C5.01
5	PRECAST CONCRETE WHEEL STOP	5/C5.01
6A	ADA PARKING STALLS AND STRIPING	6/C5.01
6B	'NO PARKING' ZONE STRIPING	6/C5.01
6C	4" WIDE WHITE STRIPE	6/C5.01
7	ADA PARKING SIGN	7/C5.01
8	SIDEWALK JOINTS	8/C5.01
9	PLANTER WALL	1/C5.02
10	THICKENED CURB AND GUTTER	4/C5.02
11A	SINGLE DIRECTION CURB RAMP	40.16.03 / C5.05
11B	PERPENDICULAR CURB RAMP	40.15.04 / C5.05
12	ADJUST UTILITIES TO PROPOSED GRADE	
13	12" WHITE THERMOPLASTIC PAINT	
14	BIPOD	2/C5.04
15	CURB INLET	4/C5.03

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX' XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
(XXX.Xs)	EXISTING GRADE (MATCH WHERE APPLICABLE)

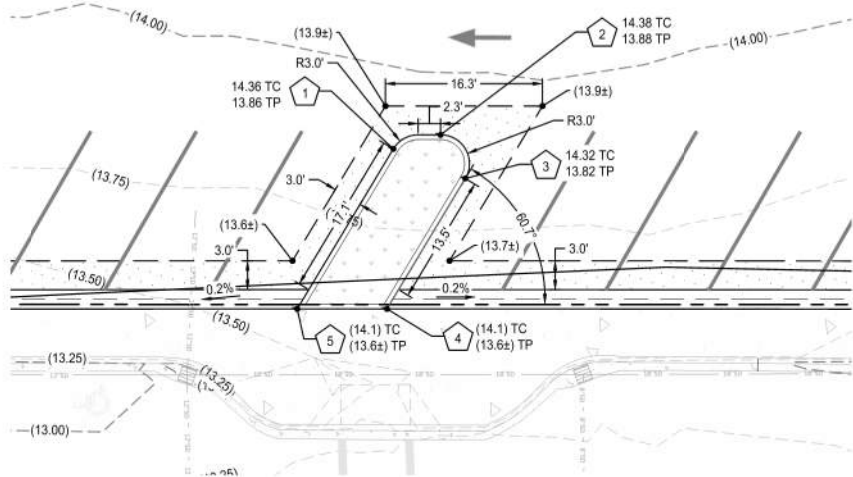
SHEET LEGEND

	PROPERTY LINE
	SAWCUT LINE
	CONCRETE SIDEWALK 3A&3B (C5.02)
	STANDARD ASPHALT PAVEMENT 1A (C5.07)
	SAND SET PAVERS 3 (C5.03)
	BIORETENTION FACILITY 3 (C5.02)
	LANDSCAPE AREA, SEE LANDSCAPE PLANS

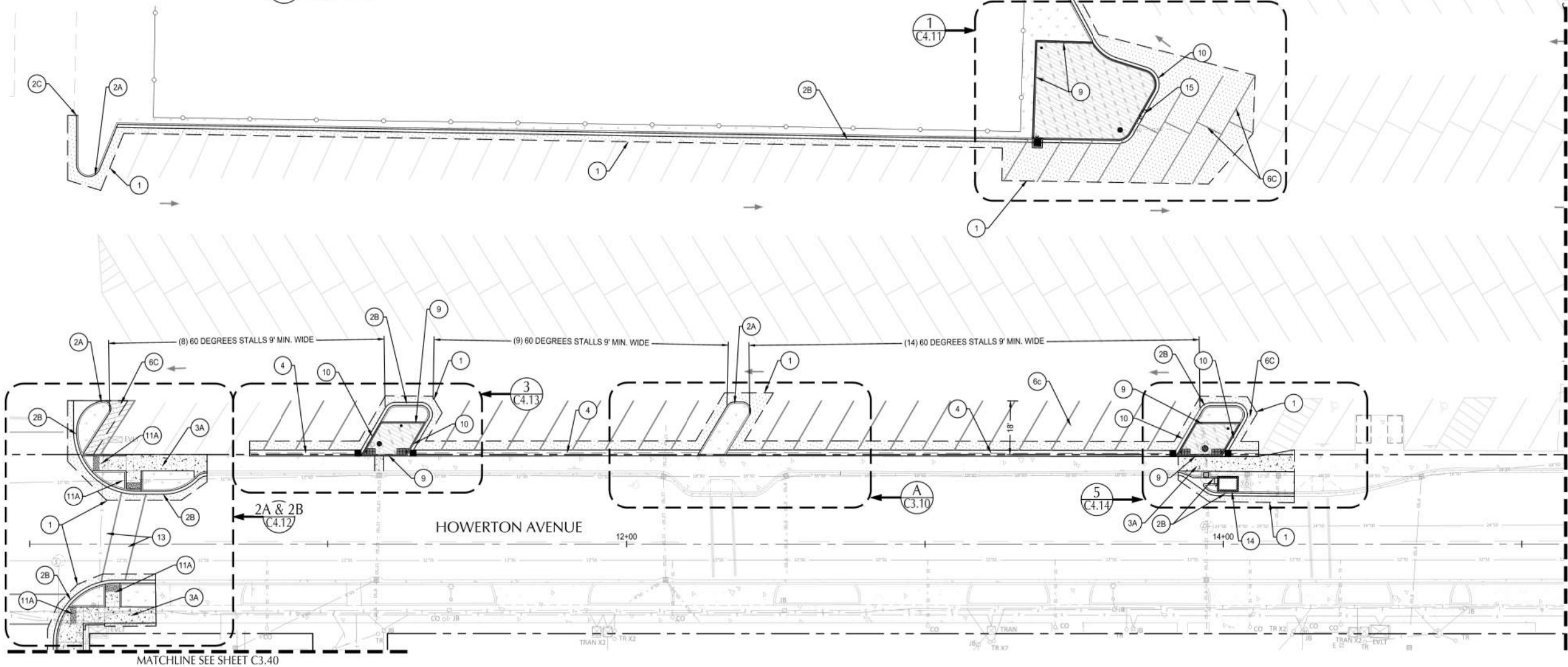
#

POINT TABLE

ID	NORTHING	EASTING
1	374788.75	745965.73
2	374791.65	745969.95
3	374788.12	745973.79
4	374772.69	745970.22
5	374769.83	745961.35



A LAYOUT & GRADING ENLARGEMENT
SCALE: 1" = 10'



File: N:\proj\2018\1800567-Baker Bay Stormwater\CD\180567-30-SITE.dwg TAB C3.10
Plotted: 7/6/23 at 4:25pm By: pschmidt

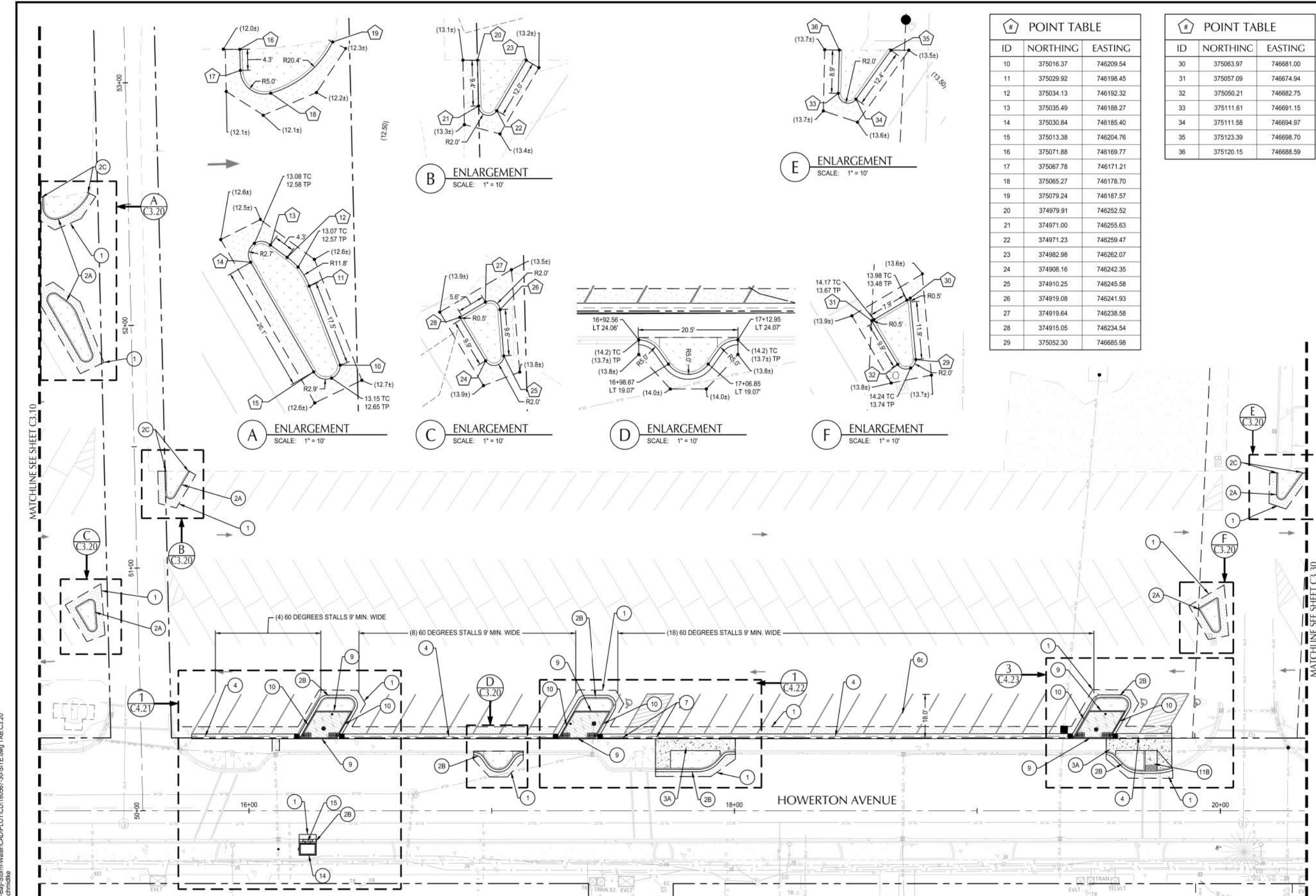
REVISION	DATE	DESCRIPTION	BY



FOR INFORMATION ONLY	JOB No.: 1800567
	DESIGNED BY: PS/HJ/RC
	DRAWN BY: RC
	CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT WQC-2021-ILWACO-00209 60% CONSTRUCTION DRAWINGS
SITE PLAN - AREA 1

SHEET NO.
C3.10
SHEET 9 OF 40



#	POINT TABLE	
ID	NORTHING	EASTING
10	375016.37	746209.54
11	375029.92	746198.45
12	375034.13	746192.32
13	375035.49	746188.27
14	375030.84	746185.40
15	375013.38	746204.76
16	375071.88	746169.77
17	375067.78	746171.21
18	375065.27	746178.70
19	375079.24	746187.57
20	374979.91	746252.52
21	374971.00	746255.63
22	374971.23	746259.47
23	374982.98	746262.07
24	374908.16	746242.35
25	374910.25	746245.58
26	374919.08	746241.93
27	374919.64	746238.58
28	374915.05	746234.54
29	375052.30	746685.98

#	POINT TABLE	
ID	NORTHING	EASTING
30	375063.97	746681.00
31	375057.09	746674.94
32	375050.21	746682.75
33	375111.61	746691.15
34	375111.58	746694.97
35	375123.39	746698.70
36	375120.15	746688.59

SHEET NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01.

KEY NOTES

#	DESCRIPTION	DETAIL REF.
1	SAWCUT LINE	
2A	STANDARD CURB	2A/C5.01
2B	CURB AND GUTTER	2B/C5.01
2C	CURB ENDING	2C/C5.01
2D	LOW PROFILE MOUNTABLE CURB	2D/C5.01
2E	FLUSH CURB	2E/C5.01
2F	CURB TRANSITION	
3A	CONCRETE SIDEWALK	
3B	CONCRETE CURB AND SIDEWALK-MONOLITHIC	
4	VALLEY GUTTER	4/C5.01
5	PRECAST CONCRETE WHEEL STOP	5/C5.01
6A	ADA PARKING STALLS AND STRIPING	6/C5.01
6B	'NO PARKING' ZONE STRIPING	6/C5.01
6C	4" WIDE WHITE STRIPE	6/C5.01
7	ADA PARKING SIGN	7/C5.01
8	SIDEWALK JOINTS	8/C5.01
9	PLANTER WALL	1/C5.02
10	THICKENED CURB AND GUTTER	4/C5.02
11A	SINGLE DIRECTION CURB RAMP	40.16.03 / C5.05
11B	PERPENDICULAR CURB RAMP	40.15.04 / C5.05
12	ADJUST UTILITIES TO PROPOSED GRADE	
13	12" WHITE THERMOPLASTIC PAINT	
14	BIOPOD	2/C5.04
15	CURB INLET	4/C5.03

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
(XXX.Xs)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

	PROPERTY LINE
	SAWCUT LINE
	CONCRETE SIDEWALK (3A&3B / C5.02)
	STANDARD ASPHALT PAVEMENT (1A / C5.07)
	SAND SET PAVERS (3 / C5.03)
	BIORETENTION FACILITY (3 / C5.02)
	LANDSCAPE AREA, SEE LANDSCAPE PLANS

REVISION	DATE	DESCRIPTION	BY

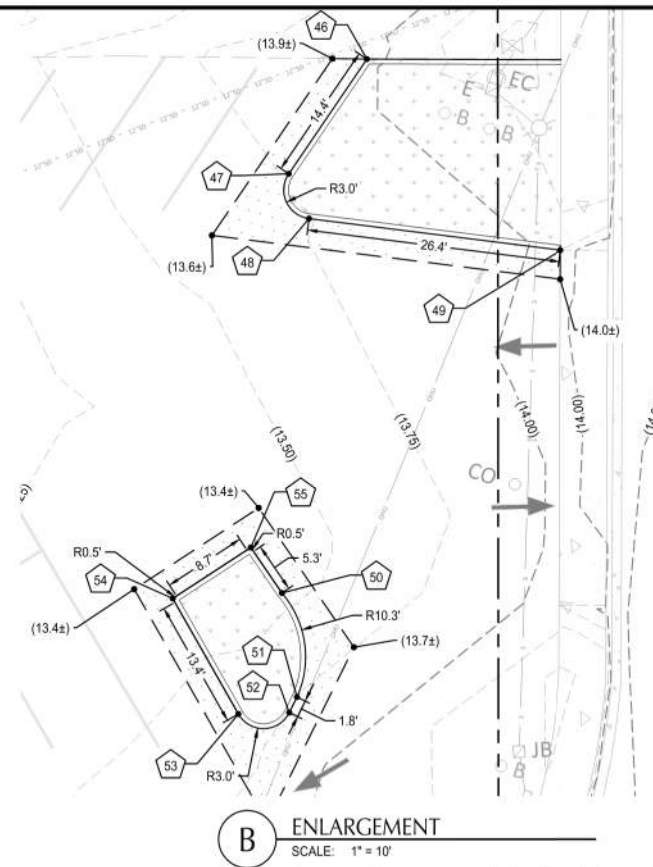


FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT WQC-2021-ILWACO-00209 60% CONSTRUCTION DRAWINGS
SITE PLAN - AREA 2

SHEET NO.
C3.20
SHEET 10 OF 40

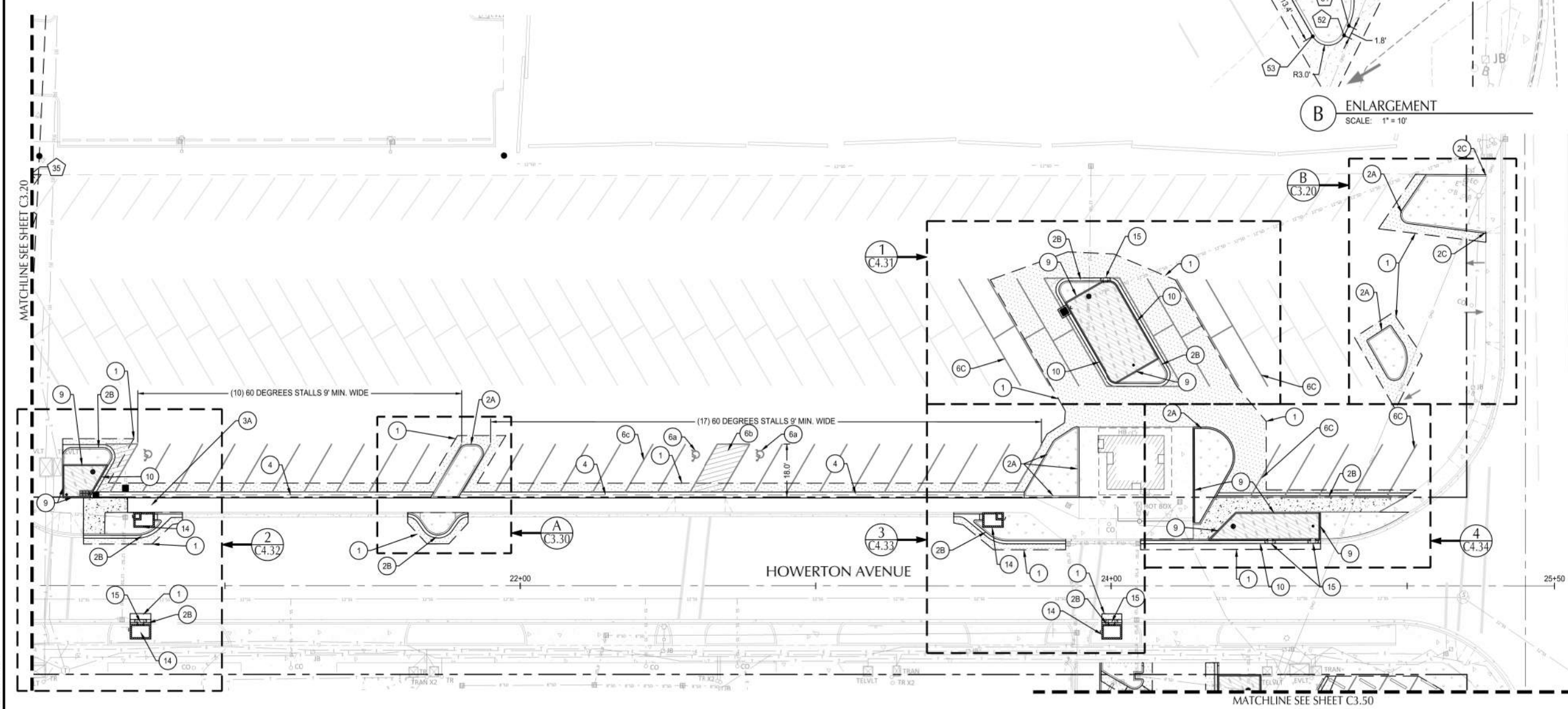
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GRADING LABEL LEGEND

<u>CALLOUT</u>	<u>DESCRIPTION</u>
<u>X X%</u> →	GRADING SLOPE DIRECTION (DOWNHILL)
<u>[X X%]</u> →	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
 XX.XX XX	
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
 (XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

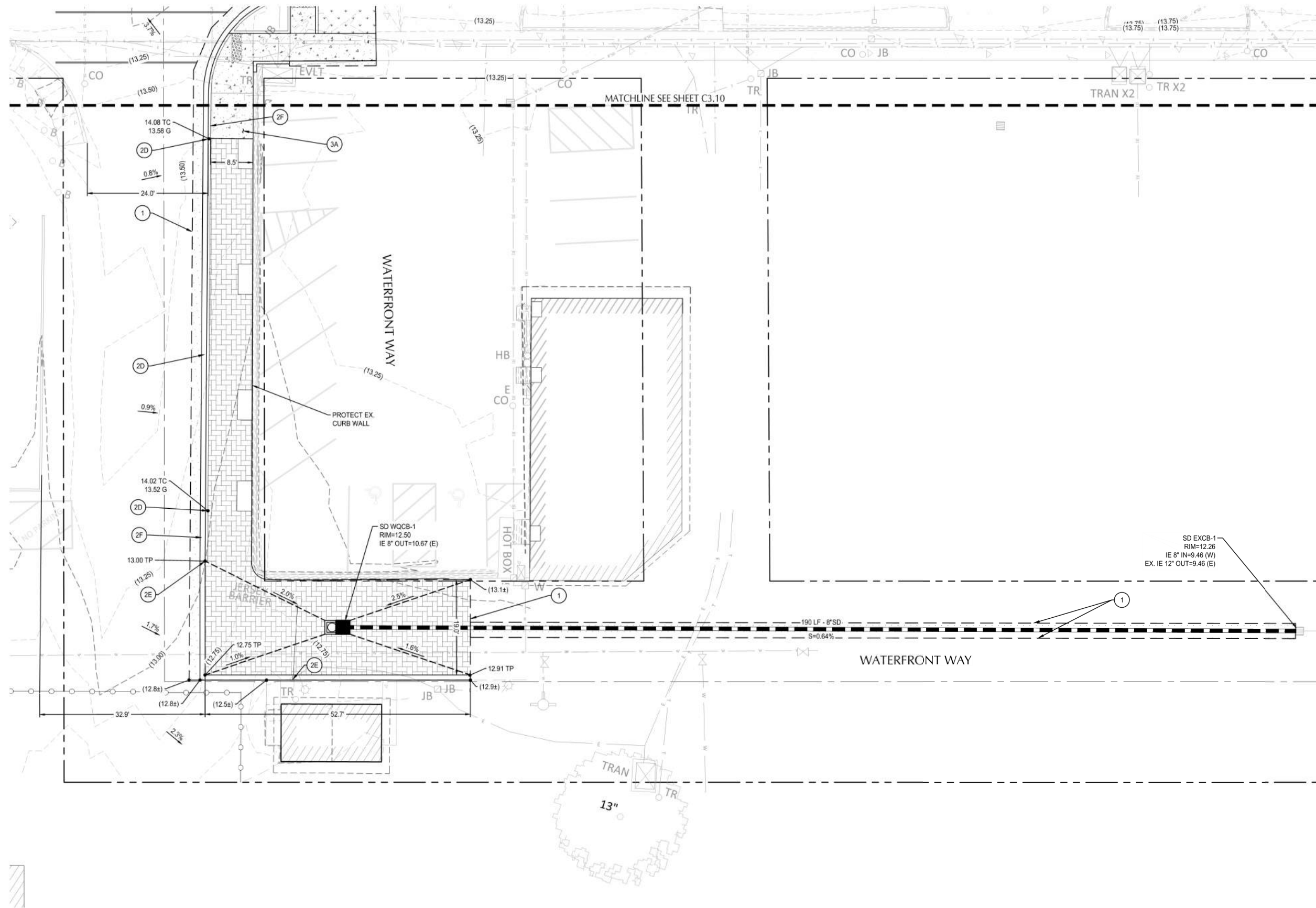
SHEET LEGEND

	PROPERTY LINE
	SAWCUT LINE
	CONCRETE SIDEWALK — 
	STANDARD ASPHALT PAVEMENT — 
	SAND SET PAVERS — 
	BIORETENTION FACILITY — 
	LANDSCAPE AREA, SEE LANDSCAPE PLANS



File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\PILOT\CD\1800567-30-SITE-AREA\4&5.dwg TAB C3.40
Plotted: 7/6/23 at 4:26pm By: jechmidke

22x34



SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01.

KEY NOTES

#	DESCRIPTION	DETAIL REF.
1	SAWCUT LINE	
2A	STANDARD CURB	2A/C5.01
2B	CURB AND GUTTER	2B/C5.01
2C	CURB ENDING	2C/C5.01
2D	RAMP CURB	
3A	CONCRETE SIDEWALK	3A/C5.01
3B	CONCRETE CURB AND SIDEWALK-MONOLITHIC	3B/C5.01
4	VALLEY GUTTER	4/C5.01
5	WHEEL STOP	5/C5.01
6A	ADA PARKING STALLS AND STRIPING	6/C5.01
6B	'NO PARKING' ZONE STRIPING	6/C5.01
6C	4\" WIDE WHITE STRIPE	6/C5.01
7	ADA PARKING SIGN	7/C5.01
8	SIDEWALK JOINTS	8/C5.01
9	PLANTER WALL	1/C5.02
10	THICKENED CURB AND GUTTER	4/C5.02
11A	SINGLE DIRECTION CURB RAMP	40.16.03 / C5.05
11B	PERPENDICULAR CURB RAMP	40.15.04 / C5.05
12	ADJUST UTILITIES TO PROPOSED GRADE	

UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	CONNECT TO EXISTING PIPE VIA 3\" PROPOSED PIPE SECTION MATCHING EXISTING IE AND SIZE	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12\" MIN. CLEARANCE, U.N.O.	
WQCB	WATER QUALITY CATCH BASIN	1/C5.04

UTILITY LABEL LEGEND

CALLOUT	DESCRIPTION	DETAIL REF.
CB	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CB4	CATCH BASIN - TYPE 4	4/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02

GRADING LABEL LEGEND

EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT

SHEET LEGEND

	PROPERTY LINE
	SAWCUT LINE
	CONCRETE SIDEWALK 3A&3B / C5.02
	STANDARD ASPHALT PAVEMENT 1A / C5.01
	SAND SET PAVERS 4 / C5.04
	BIORETENTION FACILITY 3 / C5.02
	LANDSCAPE AREA, SEE LANDSCAPE PLANS

REVISION	DATE	DESCRIPTION	BY



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
SITE PLAN - AREA 4

SHEET NO.
C3.40
SHEET 12 OF 40

File: N:\proj\2018\1800567-Baker Bay Storm Water CAD\DWG\1800567-30-SITE-AREA4&5.dwg TAB C3.50
Plotted: 7/6/23 at 4:22pm By: jtschmidke

MATCHLINE SEE SHEET C3.30

SHEET NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01.

KEY NOTES

#	DESCRIPTION	DETAIL REF.
1	SAWCUT LINE	2A/C5.01
2A	STANDARD CURB	2B/C5.01
2B	CURB AND GUTTER	2C/C5.01
2C	CURB ENDING	3A/C5.01
3A	CONCRETE SIDEWALK	3B/C5.01
3B	CONCRETE CURB AND SIDEWALK-MONOLITHIC	4/C5.01
4	VALLEY GUTTER	5/C5.01
5	WHEEL STOP	6/C5.01
6A	ADA PARKING STALLS AND STRIPING	6/C5.01
6B	'NO PARKING' ZONE STRIPING	6/C5.01
6C	4" WIDE WHITE STRIPE	7/C5.01
7	ADA PARKING SIGN	8/C5.01
8	SIDEWALK JOINTS	1/C5.02
9	PLANTER WALL	40.16.03 / C5.05
10	THICKENED CURB AND GUTTER	40.15.04 / C5.05
11A	SINGLE DIRECTION CURB RAMP	5/C5.03
11B	PERPENDICULAR CURB RAMP	
12	ADJUST UTILITIES TO PROPOSED GRADE	
15	CURB INLET	

UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	CONNECT TO EXISTING PIPE VIA 3' PROPOSED PIPE SECTION MATCHING EXISTING IE AND SIZE	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	

UTILITY LABEL LEGEND

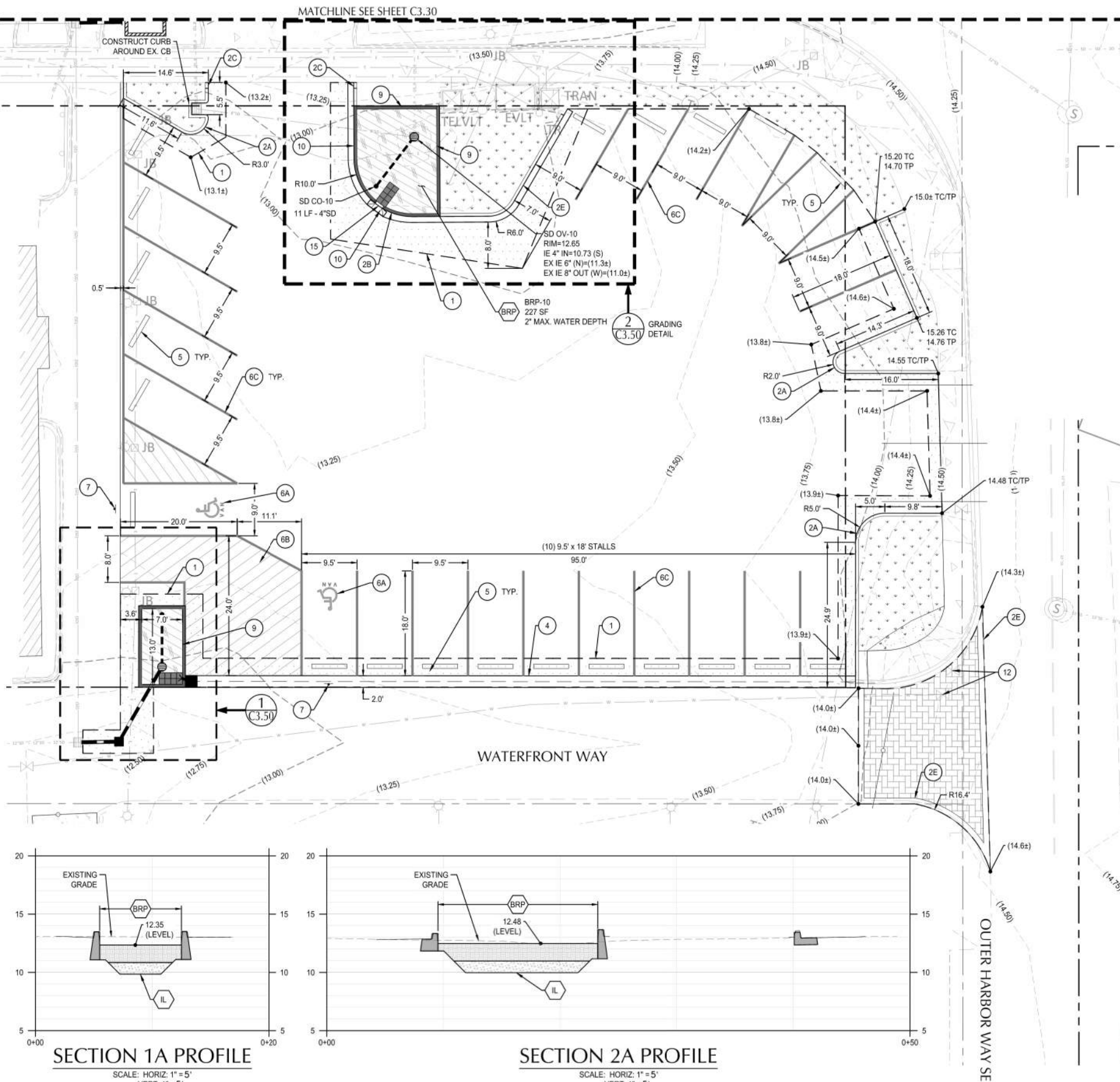
CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	4/C5.03
CB	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CB4	CATCH BASIN - TYPE 4	4/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OV	OVERFLOW - TYPE 1	2/C5.03
OV2	OVERFLOW - TYPE 2	6/C5.02

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT

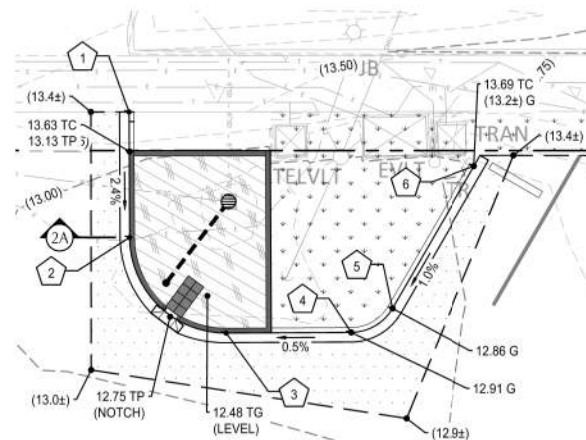
SHEET LEGEND

	PROPERTY LINE
	SAWCUT LINE
	CONCRETE SIDEWALK (3A&3B/C5.02)
	STANDARD ASPHALT PAVEMENT (1A/C5.01)
	PERMEABLE PAVERS (3/C5.04)
	BIORETENTION FACILITY (3/C5.03)
	LANDSCAPE AREA, SEE LANDSCAPE PLANS



1 ENLARGEMENT

SCALE: 1" = 5'



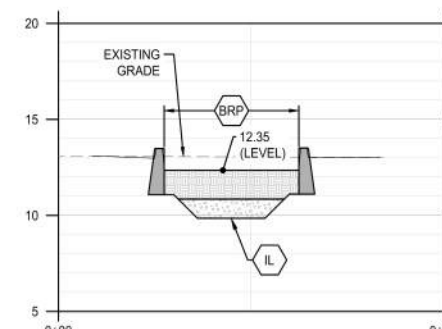
2 GRADING DETAIL

SCALE: 1" = 10'

SECTION 1A PROFILE

SCALE: HORIZ: 1" = 5'

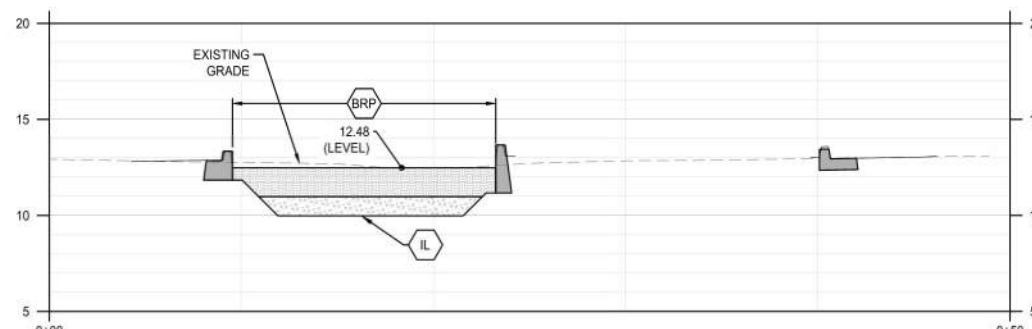
VERT: 1" = 5'



SECTION 2A PROFILE

SCALE: HORIZ: 1" = 5'

VERT: 1" = 5'

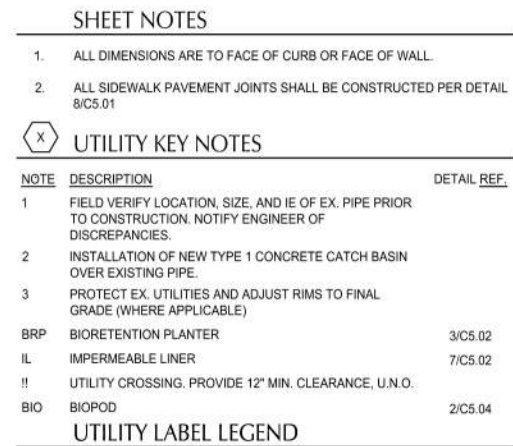


FOR
INFORMATION
ONLY

JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
SITE PLAN - AREA 5

SHEET NO.
C3.50
SHEET 13 OF 40



STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT

XX XX-XX ← ID NUMBER (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X ← STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

<u>STRUCTURE TYPE</u>		
<u>CALLOUT</u>	<u>DESCRIPTION</u>	<u>DETAIL REF.</u>
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

X KEY NOTES		
CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

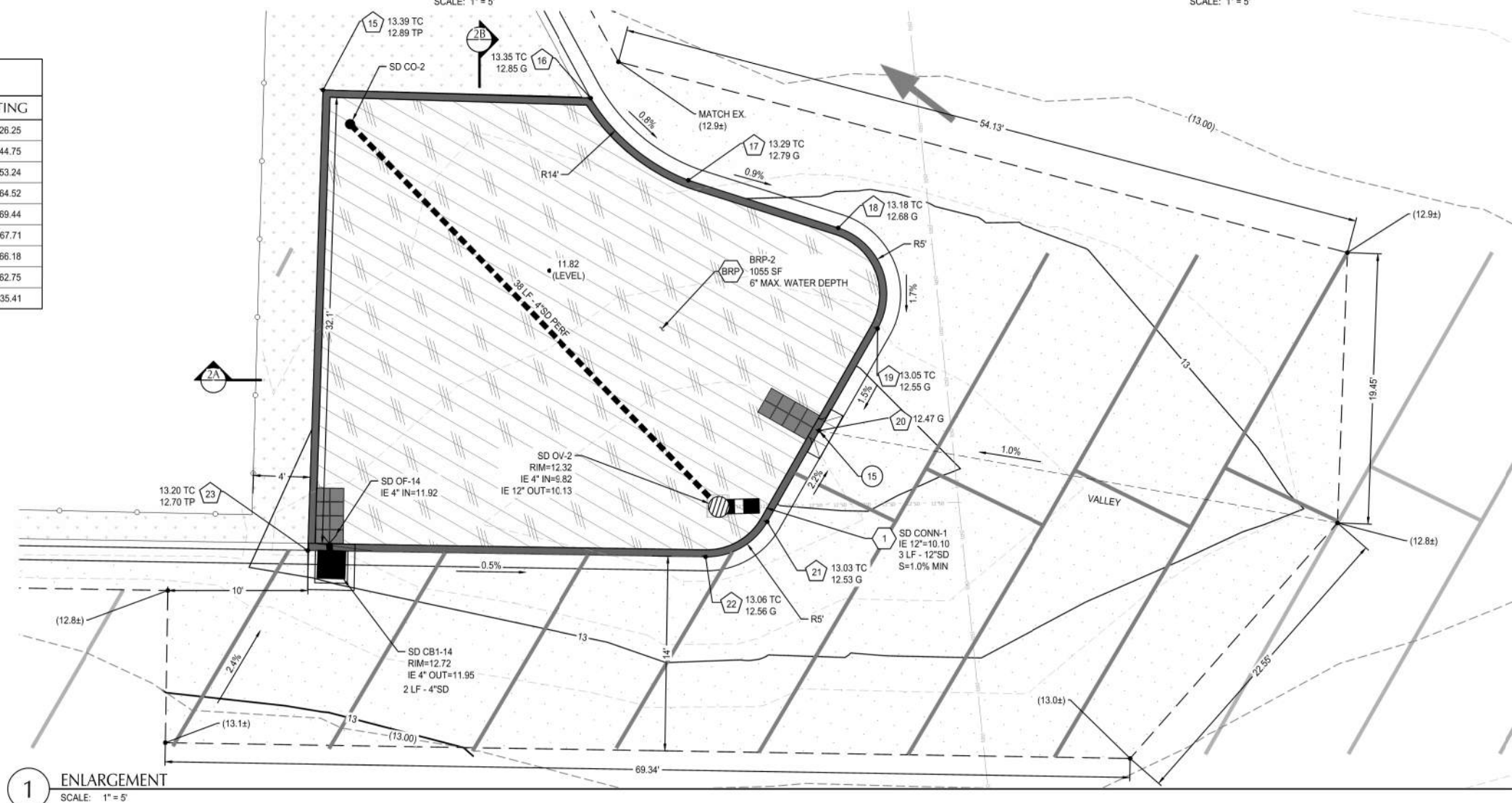
GRADING LABEL LEGEND

<u>CALLOUT</u>	<u>DESCRIPTION</u>
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
	SPOT ELEVATION
	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
XXXX XX	
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

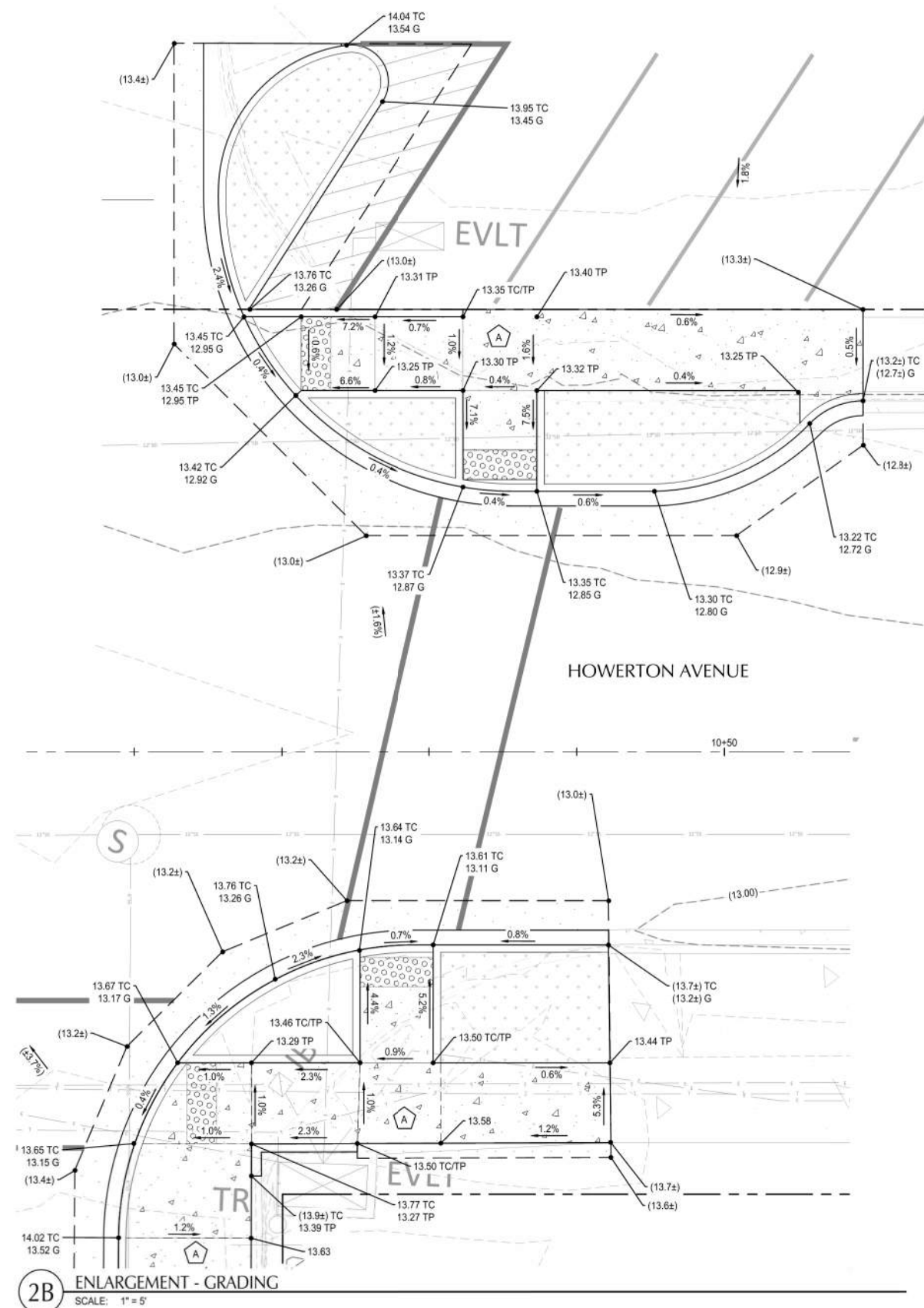
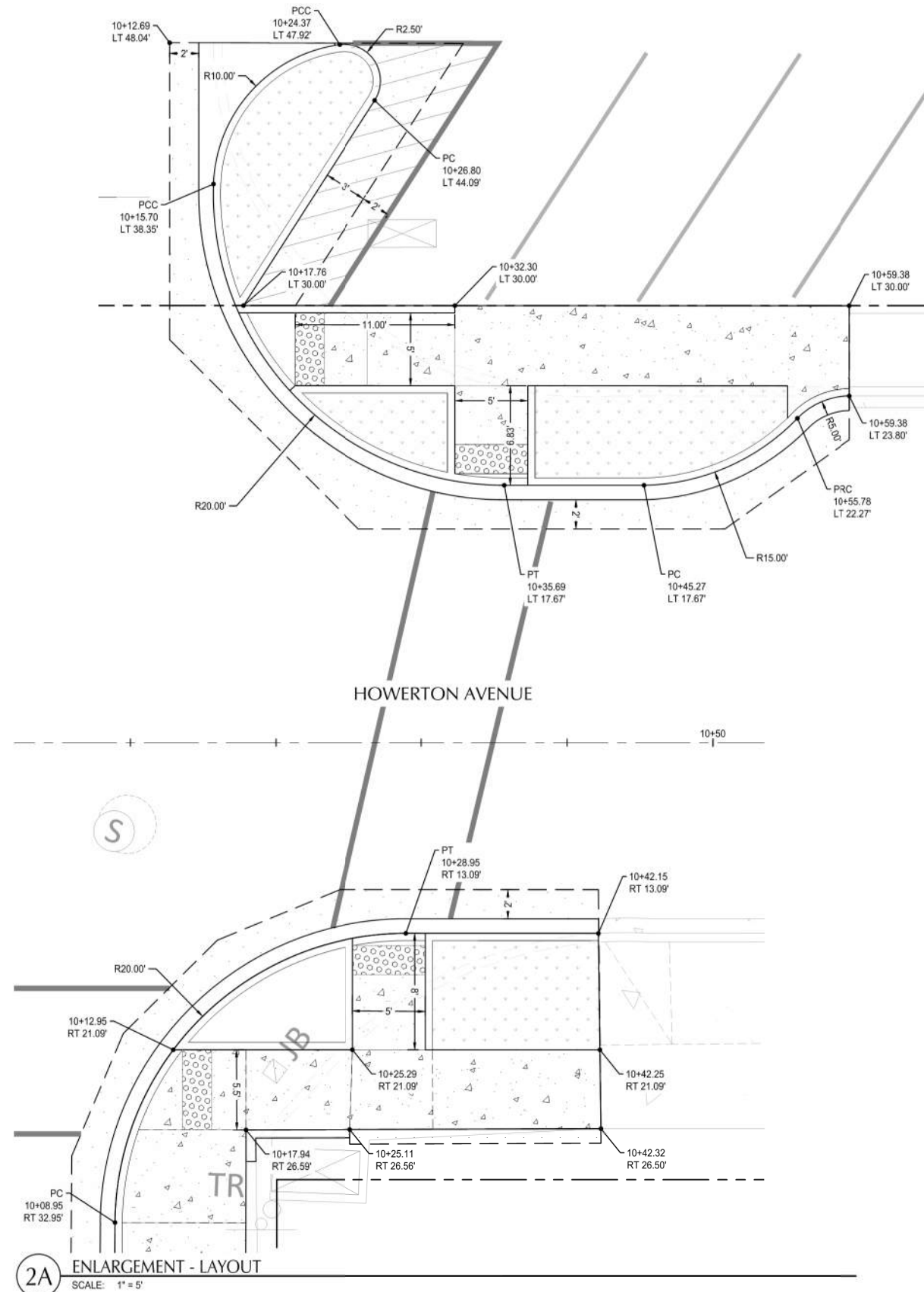
—————	PROPERTY LINE
----- (266) -----	EX. CONTOUR MINOR
----- (270) -----	EX. CONTOUR MAJOR
-----	GRADE BREAK
-----	SAWCUT

POINT TABLE		
ID	NORTHING	EASTING
15	374937.12	746026.25
16	374942.48	746044.75
17	374939.03	746053.24
18	374939.07	746064.52
19	374933.05	746069.44
20	374924.77	746067.71
21	374917.39	746066.18
22	374913.63	746062.75
23	374905.26	746035.41



File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\PILOT\CD\1800567-40-GD-SD-PLNTR.dwg TAB C4.12
Plotted: 7/6/23 at 4:23pm By: jechmide

22x34



SHEET NOTES

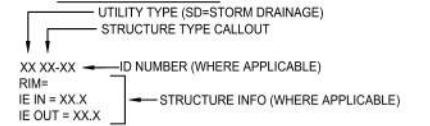
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

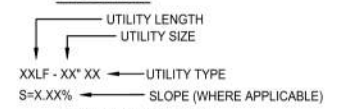
NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

GRADING KEY NOTES

NOTE	DESCRIPTION
A	LANDING ZONE, ACCESSIBLE ROUTE THROUGH THIS ZONE REQUIRES NO MORE THAN 2% SLOPE IN ANY DIRECTION.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.X)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

---	PROPERTY LINE
---(266)---	EX. CONTOUR MINOR
---(270)---	EX. CONTOUR MAJOR
- - - - -	GRADE BREAK
- - - - -	SAWCUT

REVISION	DATE	DESCRIPTION	BY



111 SW Fifth Ave., Suite 2600
Portland, OR 97204
O: 503.542.3860
F: 503.274.4681
www.kpff.com

FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

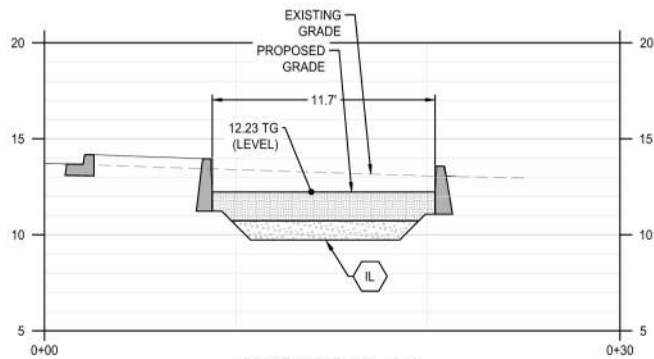
SHEET NO.

C4.12

SHEET 15 OF 40

File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\PILOTCD\180567-40-GD-SD-PLNTR.dwg TAB C4.13
Plotted: 7/6/23 at 4:26pm By: jpschmidt

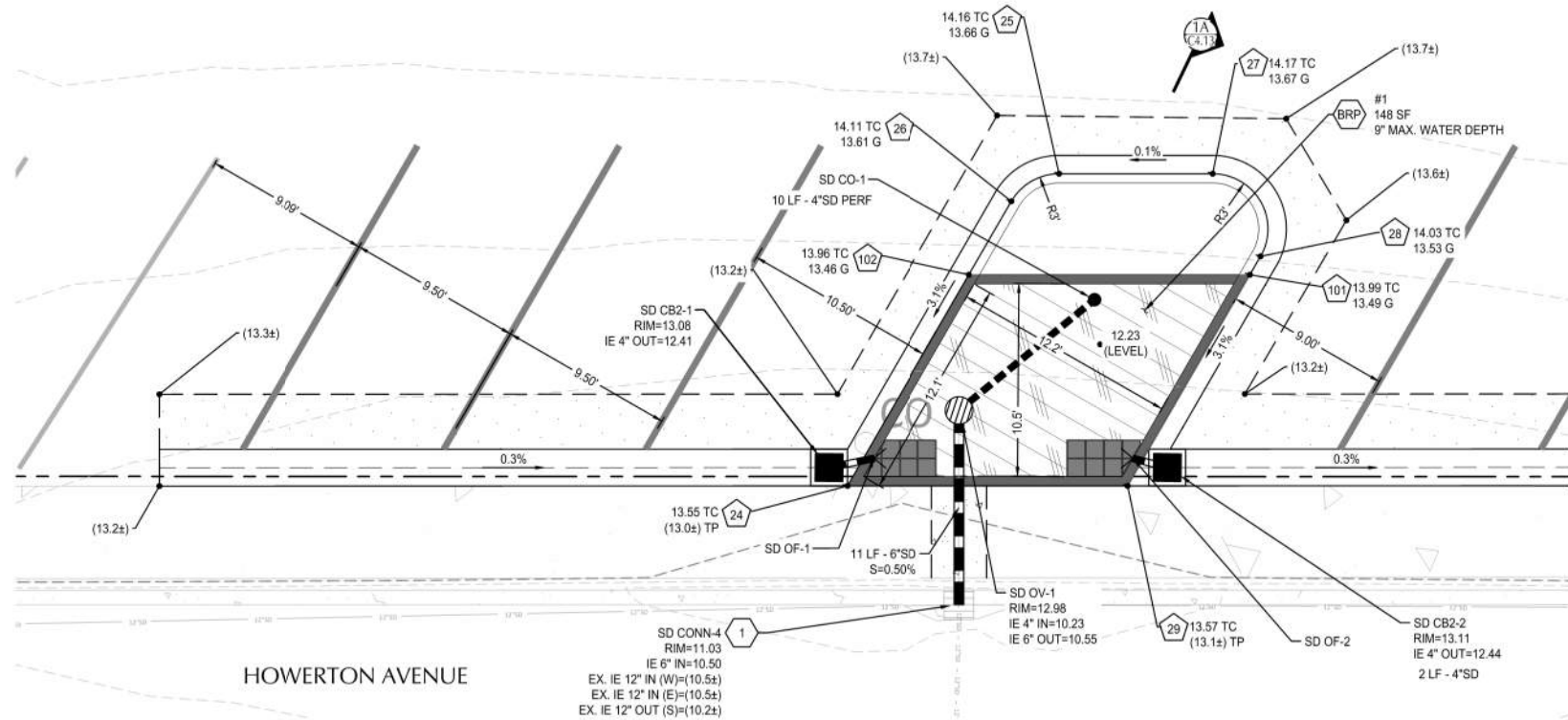
2/2x34



SECTION 1A
SCALE: 1" = 5'

POINT TABLE		
ID	NORTHING	EASTING
24	374735.12	745854.18
25	374754.85	745859.94
26	374752.62	745857.93
27	374757.42	745867.88
28	374753.93	745871.73
29	374739.82	745868.71
101	374752.81	745871.49
102	374748.11	745856.96

3 ENLARGEMENT
SCALE: 1" = 5'



SHEET NOTES

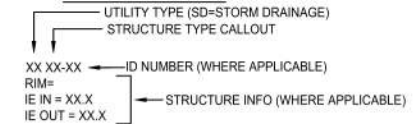
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

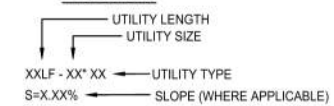
<u>NOTE</u>	<u>DESCRIPTION</u>	<u>DETAIL REF.</u>
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

GRADING KEY NOTES

NOTE	DESCRIPTION
A	LANDING ZONE, ACCESSIBLE ROUTE THROUGH THIS ZONE REQUIRES NO MORE THAN 2% SLOPE IN ANY DIRECTION.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

---	PROPERTY LINE
---(266)---	EX. CONTOUR MINOR
---(270)---	EX. CONTOUR MAJOR
- - - - -	GRADE BREAK
- - - - -	SAWCUT



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

SHEET NO.

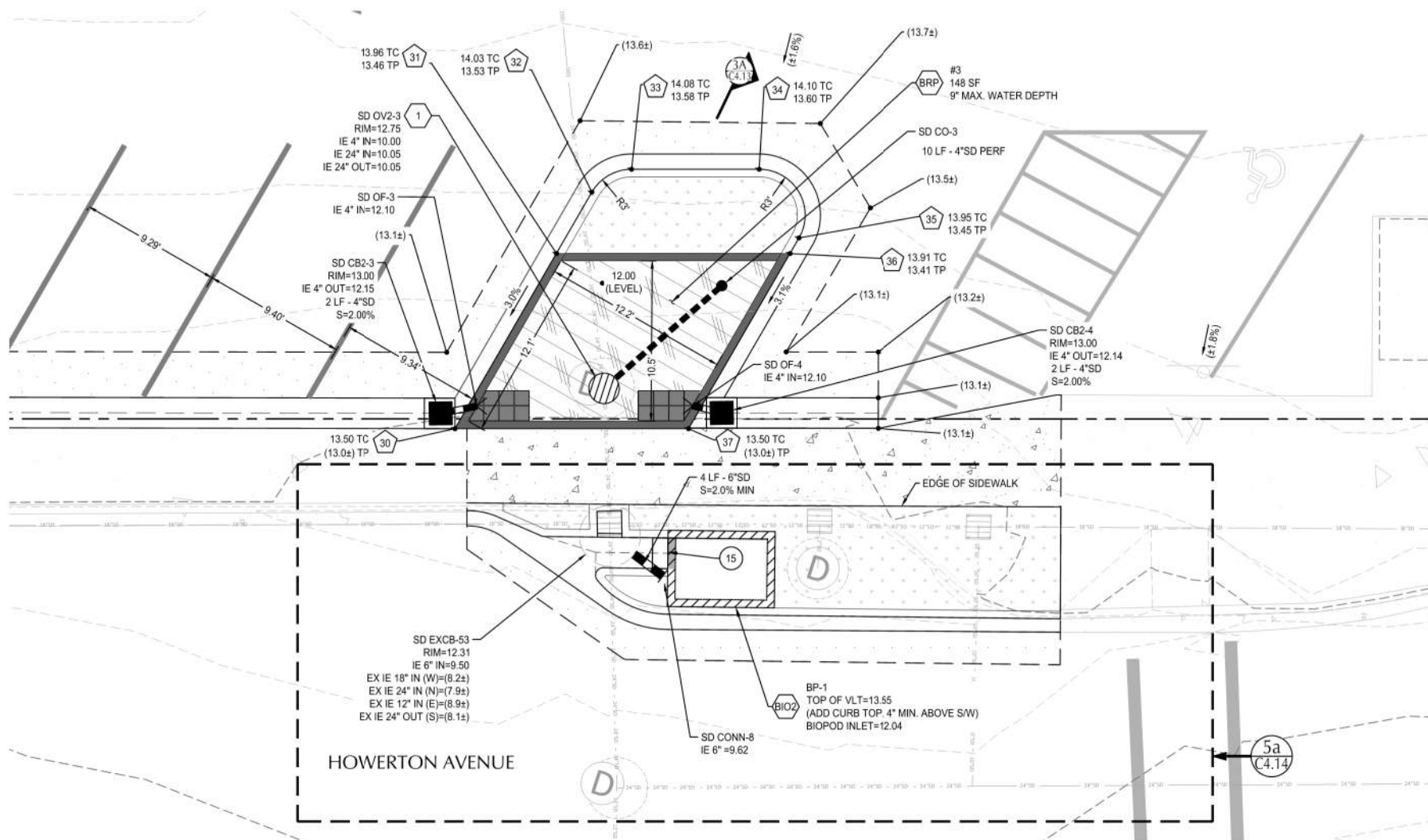
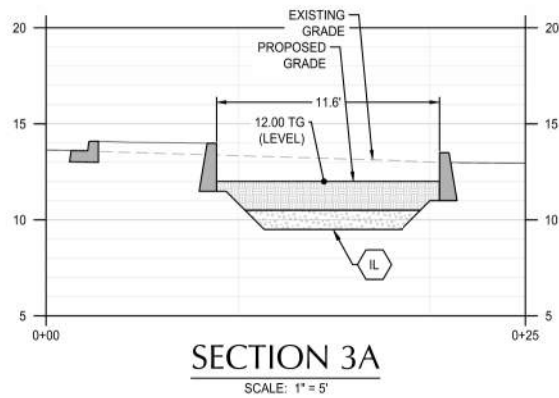
C4.13

SHEET 16 OF 40

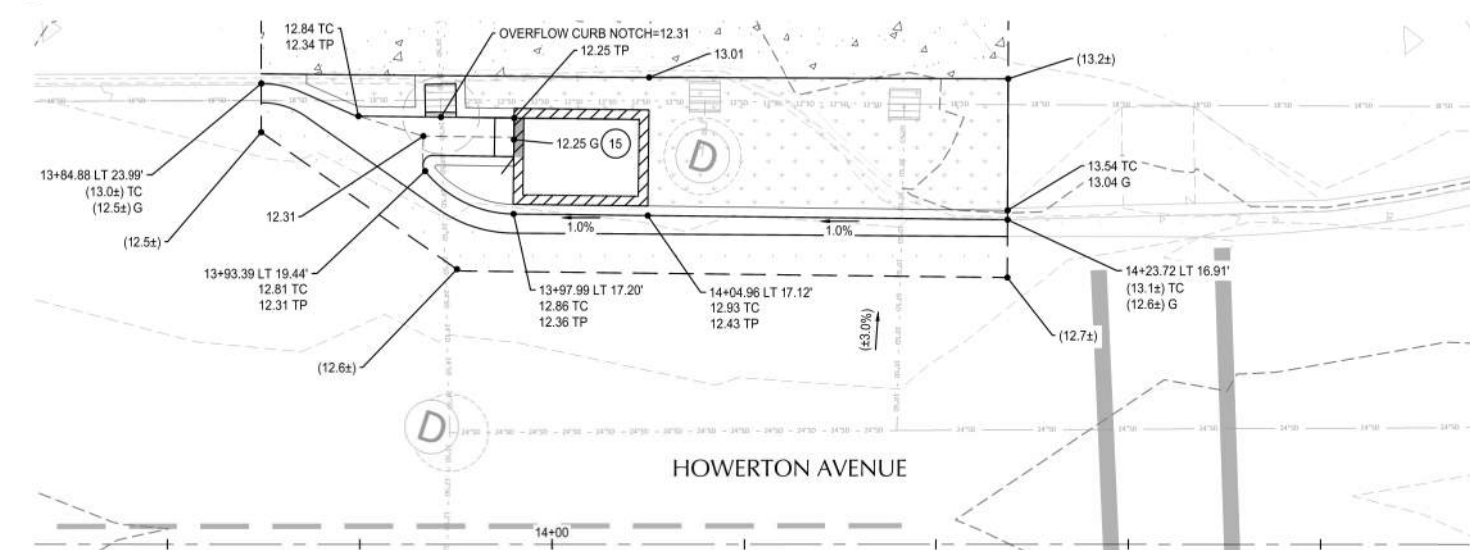
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Plotted: 7/23 at 4:25pm By: jpschmidt

22x34

POINT TABLE		
ID	NORTHING	EASTING
30	374818.96	746113.96
31	374831.92	746116.75
32	374836.46	746117.71
33	374838.68	746119.72
34	374841.25	746127.66
35	374837.77	746131.52
36	374836.62	746131.28
37	374823.65	746128.49



5 ENLARGEMENT
SCALE: 1" = 5'



5a ENLARGEMENT-STREET GRADING & LAYOUT
SCALE: 1" = 5'

SHEET NOTES

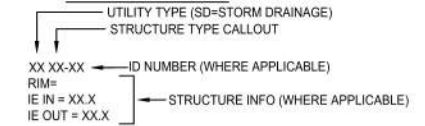
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

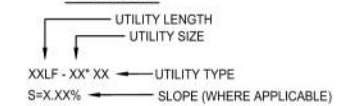
NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
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3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

KEY NOTES

CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

GRADING LABEL LEGEND

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION
XX.XX XX	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.Xz)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

SYMBOL	DESCRIPTION
---	PROPERTY LINE
(266)	EX. CONTOUR MINOR
(270)	EX. CONTOUR MAJOR
---	GRADE BREAK
---	SAWCUT

REVISION	DATE	DESCRIPTION	BY

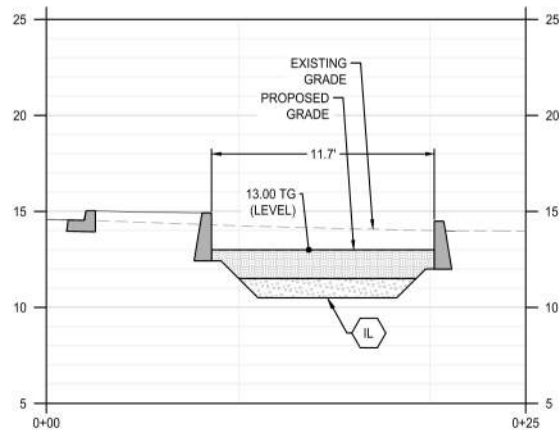


FOR INFORMATION ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

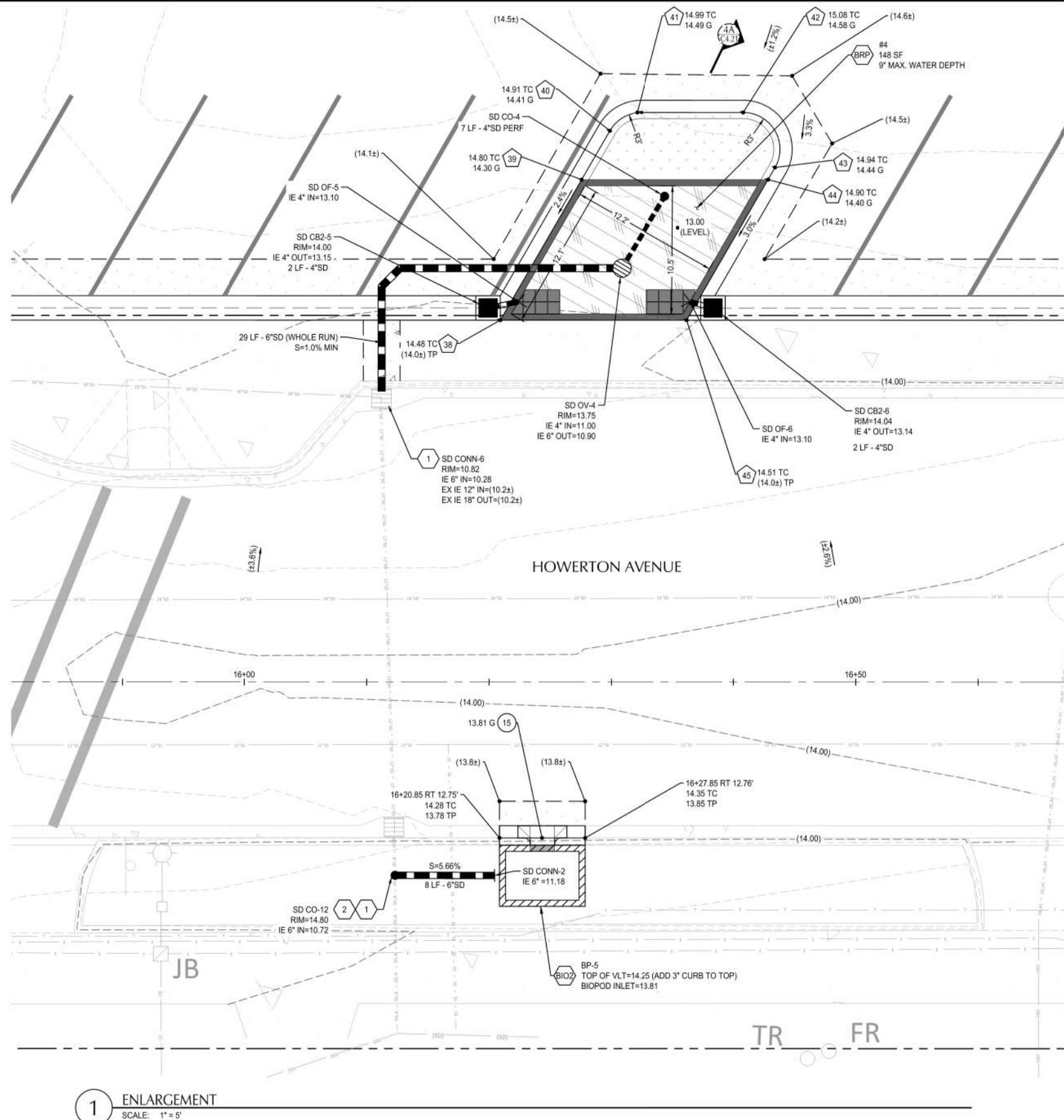
ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT WQC-2021-ILWACO-00209 60% CONSTRUCTION DRAWINGS
ENLARGEMENTS

SHEET NO.
C4.14
SHEET 17 OF 40



SECTION 4A
SCALE: 1" = 5'

POINT TABLE		
ID	NORTHING	EASTING
38	374892.04	746339.23
39	374905.02	746342.01
40	374909.54	746342.97
41	374911.76	746344.98
42	374914.33	746352.92
43	374910.85	746356.78
44	374909.72	746356.54
45	374896.73	746353.76



1 ENLARGEMENT
SCALE: 1" = 5'

SHEET NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
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BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL	
UTILITY TYPE (SD=STORM DRAINAGE)	STRUCTURE TYPE CALLOUT
XX XX-XX	ID NUMBER (WHERE APPLICABLE)
RIM=	STRUCTURE INFO (WHERE APPLICABLE)
IE IN = XX.X	
IE OUT = XX.X	
PIPE LABEL	
UTILITY LENGTH	UTILITY SIZE
XXLF - XX' XX	UTILITY TYPE
S=X.XX%	SLOPE (WHERE APPLICABLE)
STRUCTURE TYPE	
CALLOUT	DESCRIPTION
CB1	CATCH BASIN - TYPE 1
CB2	CATCH BASIN - TYPE 2
CB3	CATCH BASIN - TYPE 3
CO	CLEANOUT
CONN	CONNECTION TO EXISTING PIPE
OF	OUTFALL WITH FOREBAY
OV	OVERFLOW INLET
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE

KEY NOTES

CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION
DESCRIPTION LISTED BELOW.	NO DESCRIPTION MEANS TP OR TG
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.Xz)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

---	PROPERTY LINE
---(266)---	EX. CONTOUR MINOR
---(270)---	EX. CONTOUR MAJOR
- - - - -	GRADE BREAK
- - - - -	SAWCUT



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

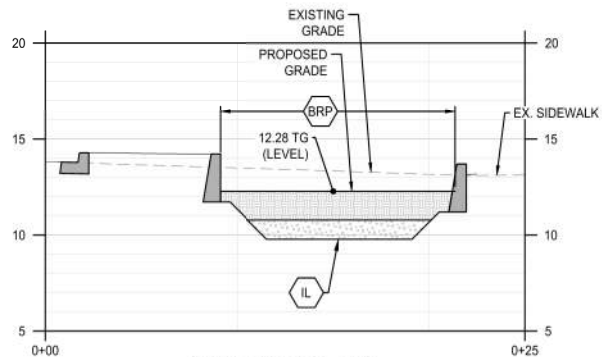
ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

SHEET NO.

C4.21

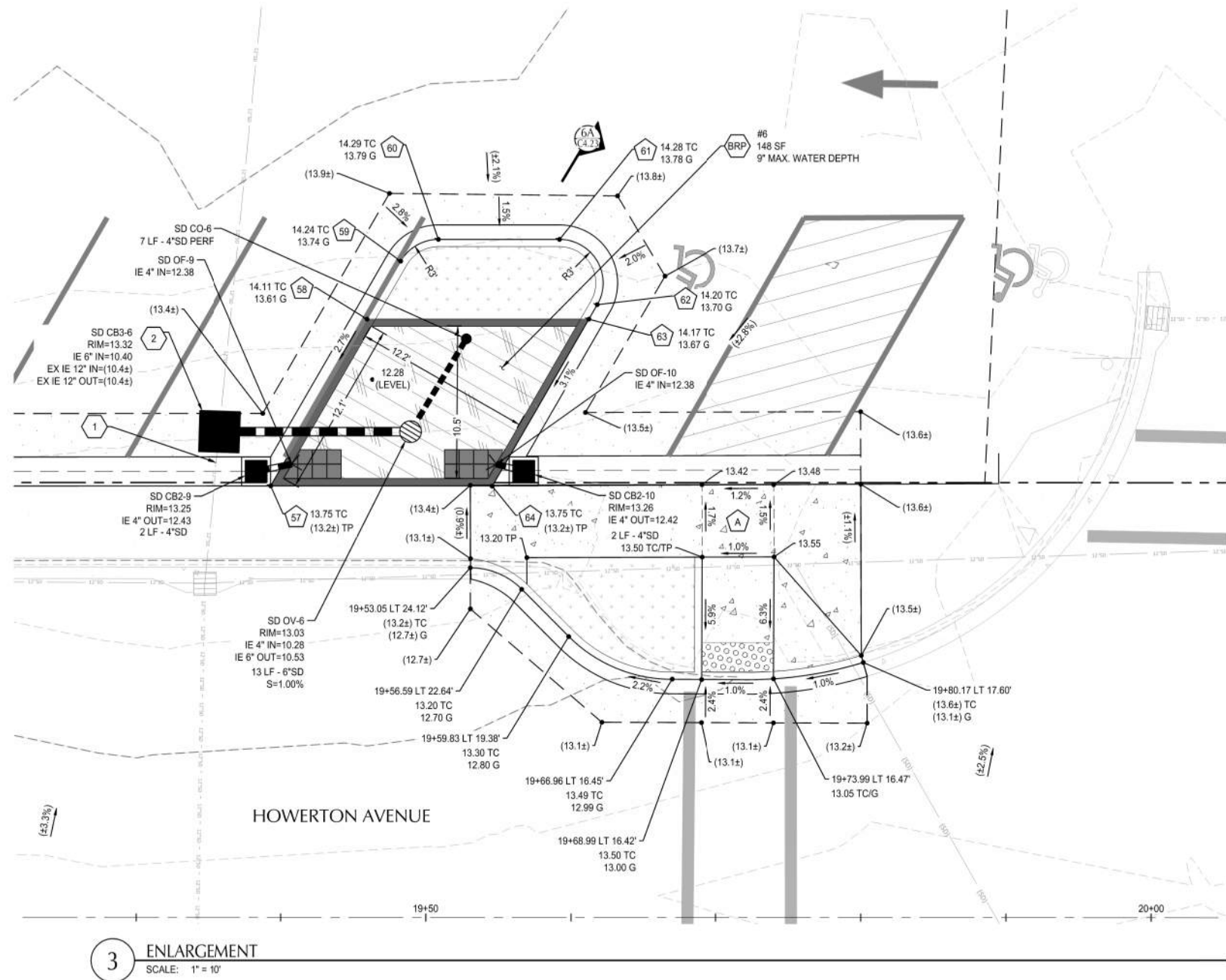
SHEET 18 OF 40



SECTION 6A

SCALE: 1" = 5'

POINT TABLE		
ID	NORTHING	EASTING
57	374990.11	746642.14
58	375003.09	746644.92
59	375007.61	746645.89
60	375009.84	746647.90
61	375012.40	746655.84
62	375008.92	746659.70
63	375007.79	746659.46
64	374994.78	746656.66



3 ENLARGEMENT

SCALE: 1" = 10'

SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL	
UTILITY TYPE (SD=STORM DRAINAGE)	STRUCTURE TYPE CALLOUT
XX XX-XX	ID NUMBER (WHERE APPLICABLE)
RIM=	STRUCTURE INFO (WHERE APPLICABLE)
IE IN = XX.X	
IE OUT = XX.X	
PIPE LABEL	
UTILITY LENGTH	UTILITY SIZE
XXLF - XX" XX	UTILITY TYPE
S=X.XX%	SLOPE (WHERE APPLICABLE)

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

GRADING KEY NOTES

NOTE	DESCRIPTION
A	LANDING ZONE, ACCESSIBLE ROUTE THROUGH THIS ZONE REQUIRES NO MORE THAN 2% SLOPE IN ANY DIRECTION.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)
XX.XX XX	SPOT ELEVATION
DESCRIPTION LISTED BELOW.	NO DESCRIPTION MEANS TP OR TG
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G	GUTTER
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RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

---	PROPERTY LINE
---(266)---	EX. CONTOUR MINOR
---(270)---	EX. CONTOUR MAJOR
- - - - -	GRADE BREAK
- - - - -	SAWCUT

REVISION	DATE	DESCRIPTION	BY



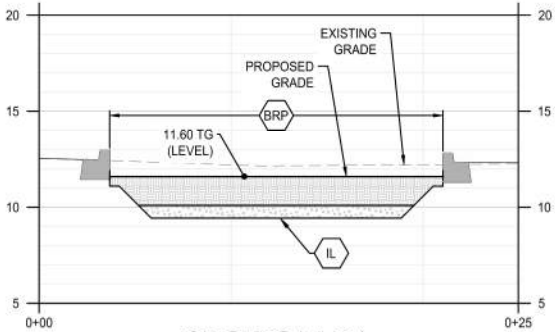
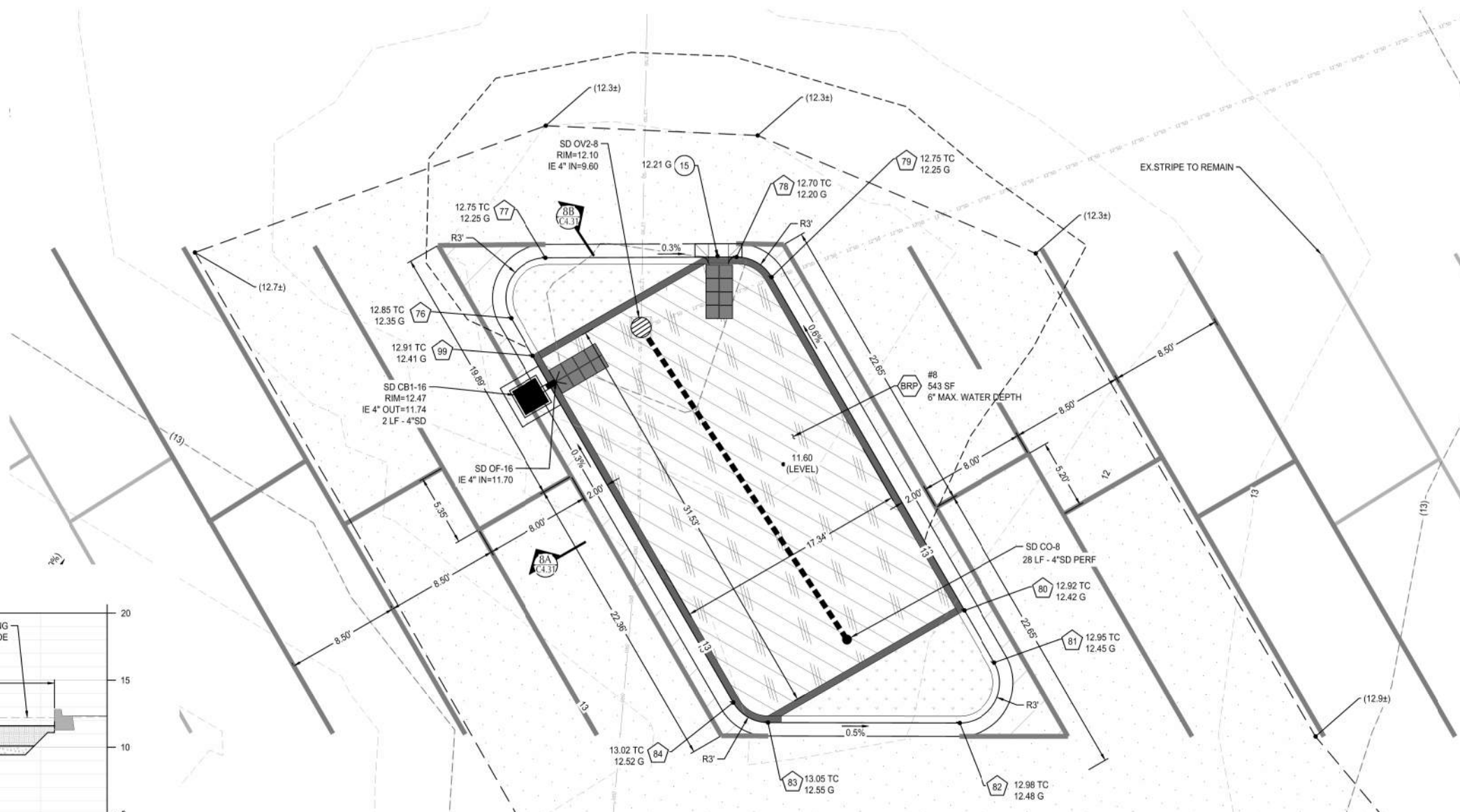
FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

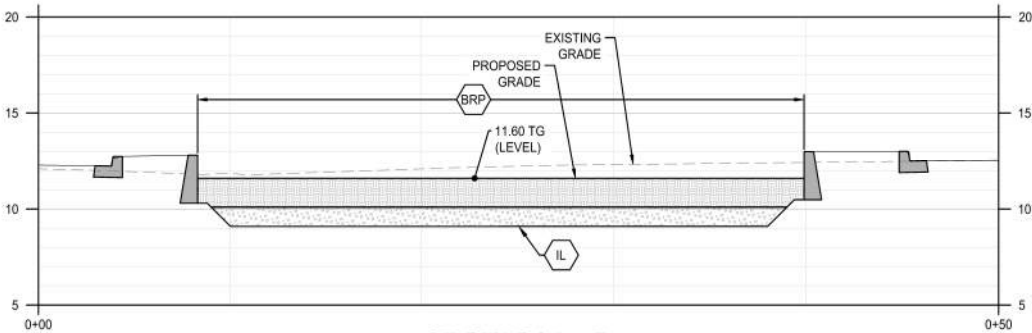
ENLARGEMENTS

POINT TABLE		
ID	NORTHING	EASTING
76	375192.02	747042.67
77	375197.10	747043.75
78	375201.53	747057.26
79	375200.90	747060.21
80	375181.67	747081.52
81	375178.65	747084.86
82	375173.57	747083.77
83	375169.20	747070.18
84	375169.83	747067.26
99	375189.85	747045.08



SECTION 8A
SCALE: 1" = 5'

1 ENLARGEMENT
SCALE: 1" = 5'



SECTION 8B
SCALE: 1" = 5'

SHEET NOTES

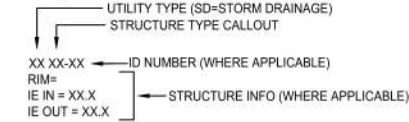
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

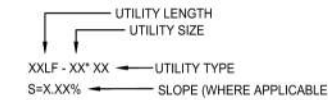
NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



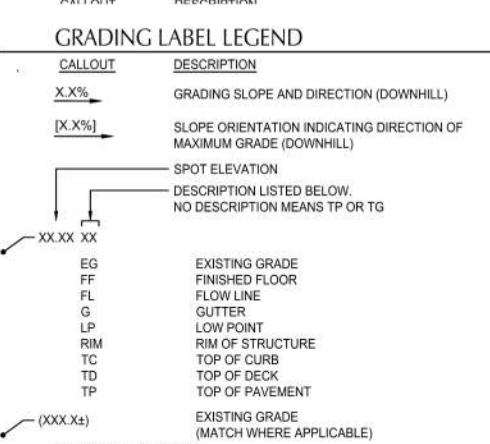
STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

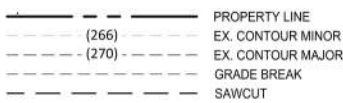
KEY NOTES

CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

GRADING LABEL LEGEND



SHEET LEGEND



File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\PILOTCD\180567-40-GD-SD-PLNTR.dwg TAB C4.31
Plotted: 7/6/23 at 4:53pm By: jpcmdmke

REVISION	DATE	DESCRIPTION	BY



FOR
INFORMATION
ONLY

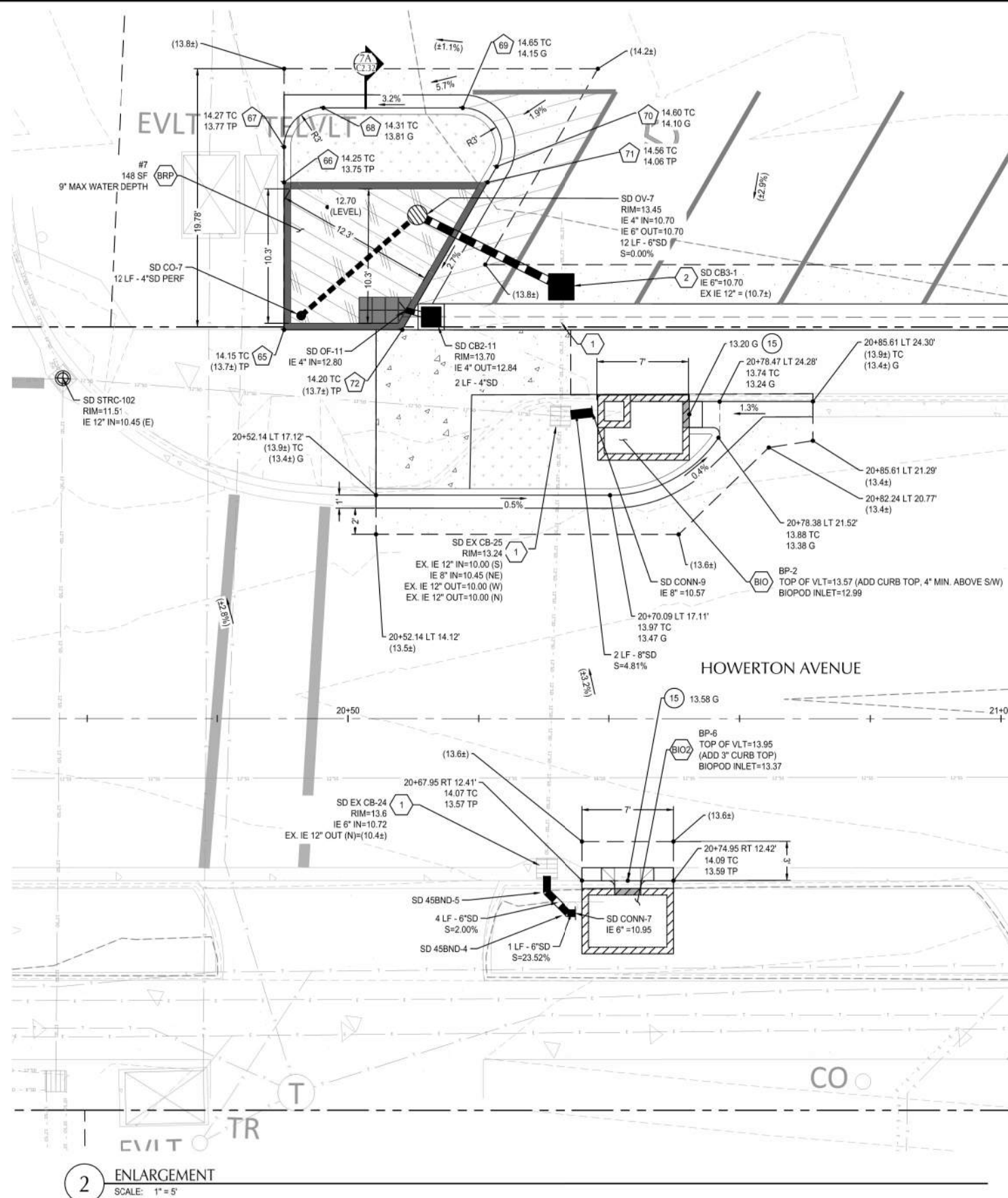
JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS



POINT TABLE		
ID	NORTHING	EASTING
65	375022.65	746742.81
66	375033.40	746739.34
67	375035.97	746738.51
69	375043.03	746750.58
70	375039.54	746754.44
71	375038.19	746754.15
72	375025.43	746751.42



1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

<u>NOTE</u>	<u>DESCRIPTION</u>	<u>DETAIL REF.</u>
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
2	INSTALLATION OF NEW TYPE 1 CONCRETE CATCH BASIN OVER EXISTING PIPE.	
3	PROTECT EX. UTILITIES AND ADJUST RIMS TO FINAL GRADE (WHERE APPLICABLE)	
BRP	BIORETENTION PLANTER	3/C5.02
IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
XX XX-XX ← ID NUMBER (WHERE APPLICABLE)
RIM= ← STRUCTURE INFO (WHERE APPLICABLE)
IE IN = XX.X
IE OUT = XX.X

UTILITY LENGTH
UTILITY SIZE
XXLF - XX XX ← UTILITY TYPE
S=X.XX% ← SLOPE (WHERE APPLICABLE)

<u>CALLOUT</u>	<u>DESCRIPTION</u>	<u>DETAIL REF.</u>
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

<u>CALLOUT</u>	<u>DESCRIPTION</u>	<u>DETAIL REF.</u>
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

<u>CALLOUT</u>	<u>DESCRIPTION</u>
<u>X.X%</u>	GRADING SLOPE AND DIRECTION (DOWNHILL)
<u>[X.X%]</u>	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)

SPOT ELEVATION
DESCRIPTION LISTED BELOW.
NO DESCRIPTION MEANS TP OR TG

XX XX	EXISTING GRADE
EG	FINISHED FLOOR
FF	FLOW LINE
FL	GUTTER
G	LOW POINT
LP	RIM OF STRUCTURE
RIM	TOP OF CURB
TC	TOP OF DECK
TD	TOP OF PAVEMENT

—————	PROPERTY LINE
----- (266) -----	EX. CONTOUR MINOR
----- (270) -----	EX. CONTOUR MAJOR
-----	GRADE BREAK
—————	SAWCUT



Lower Columbia
Estuary
Partnership



111 SW Fifth Ave., Suite 2600
Portland, OR 97204
O: 503.542.3860
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www.kaff.com

FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

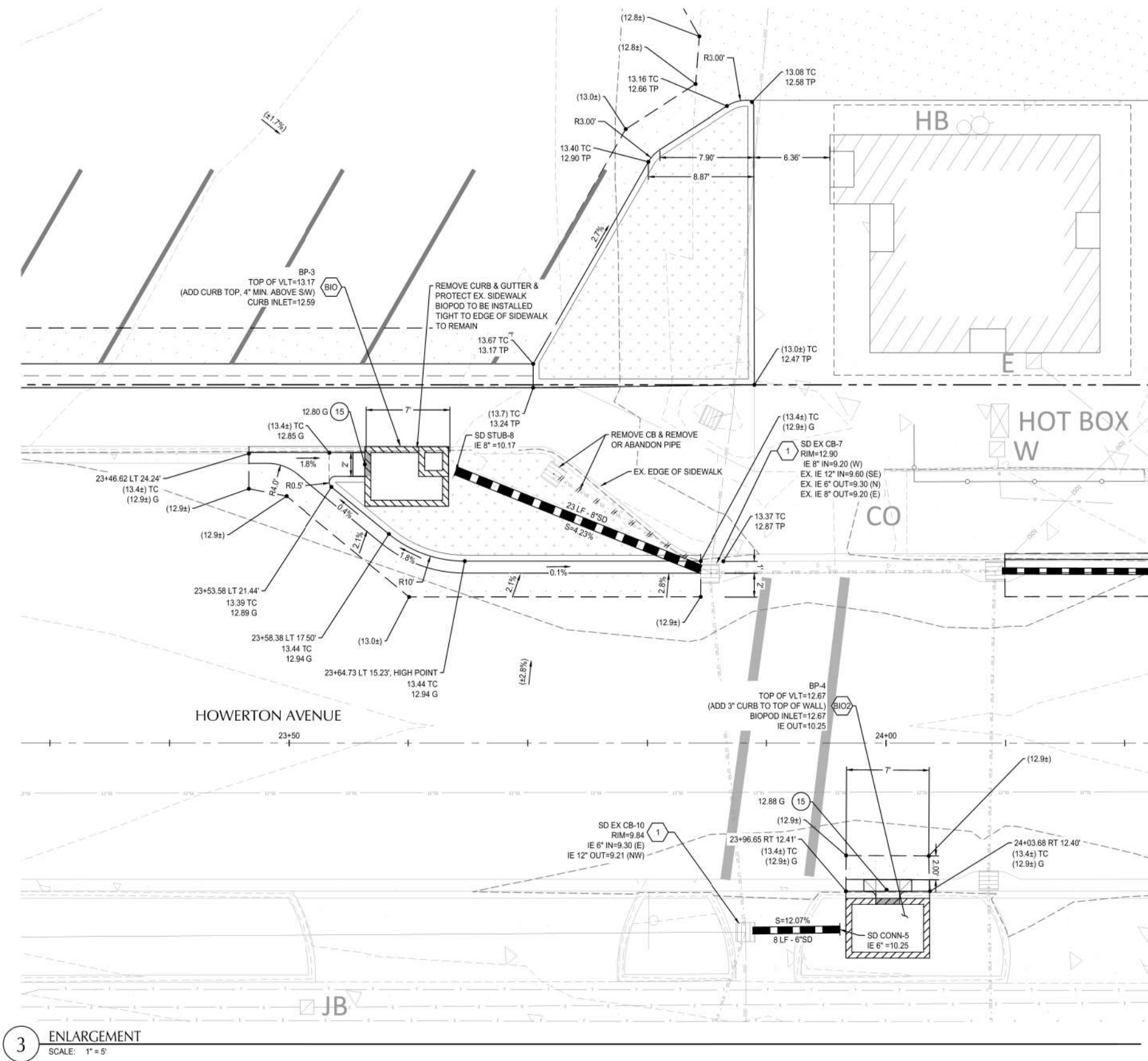
ILWACO, WA

BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

SHEET NO.

C4.32



3 ENLARGEMENT
SCALE: 1" = 5'

SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	FIELD VERIFY LOCATION, SIZE, AND IE OF EX. PIPE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.	
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IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL
UTILITY TYPE (SD=STORM DRAINAGE) STRUCTURE TYPE CALLOUT
XX XX-XX ID NUMBER (WHERE APPLICABLE)
RIM= IE IN = XX.X IE OUT = XX.X
STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL
UTILITY LENGTH UTILITY SIZE
XXLF - XX" XX UTILITY TYPE
S=X.XX% SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
OF	OUTFALL WITH FOREBAY	1/C5.03
OV	OVERFLOW INLET	2/C5.02
OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

KEY NOTES

CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)

SPOT ELEVATION	
DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG	
XX.XX XX	
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TD	TOP OF DECK
TP	TOP OF PAVEMENT
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

PROPERTY LINE
(266) EX. CONTOUR MINOR
(270) EX. CONTOUR MAJOR
GRADE BREAK
SAWCUT



FOR
INFORMATION
ONLY

JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

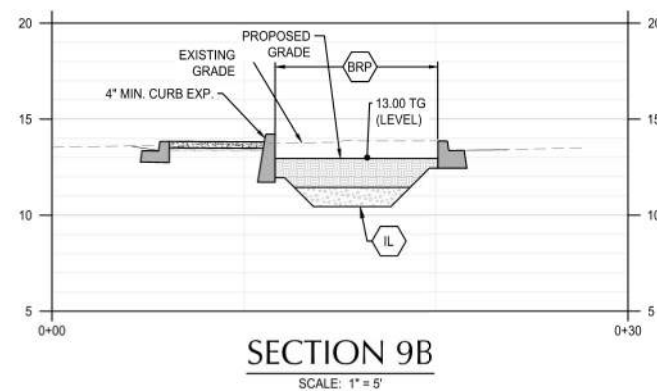
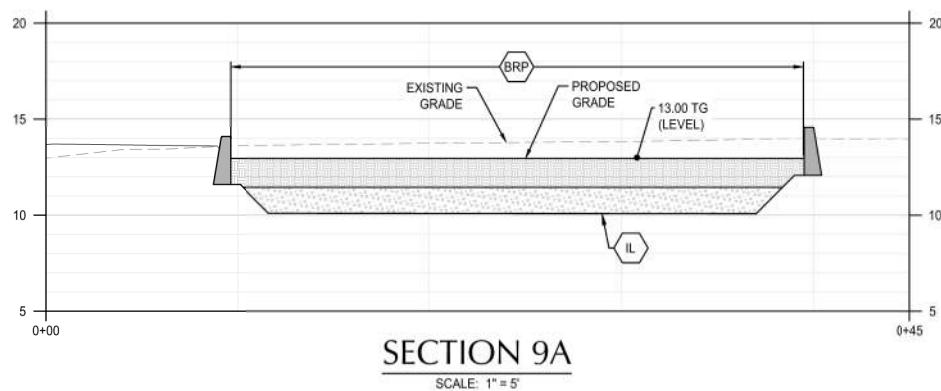
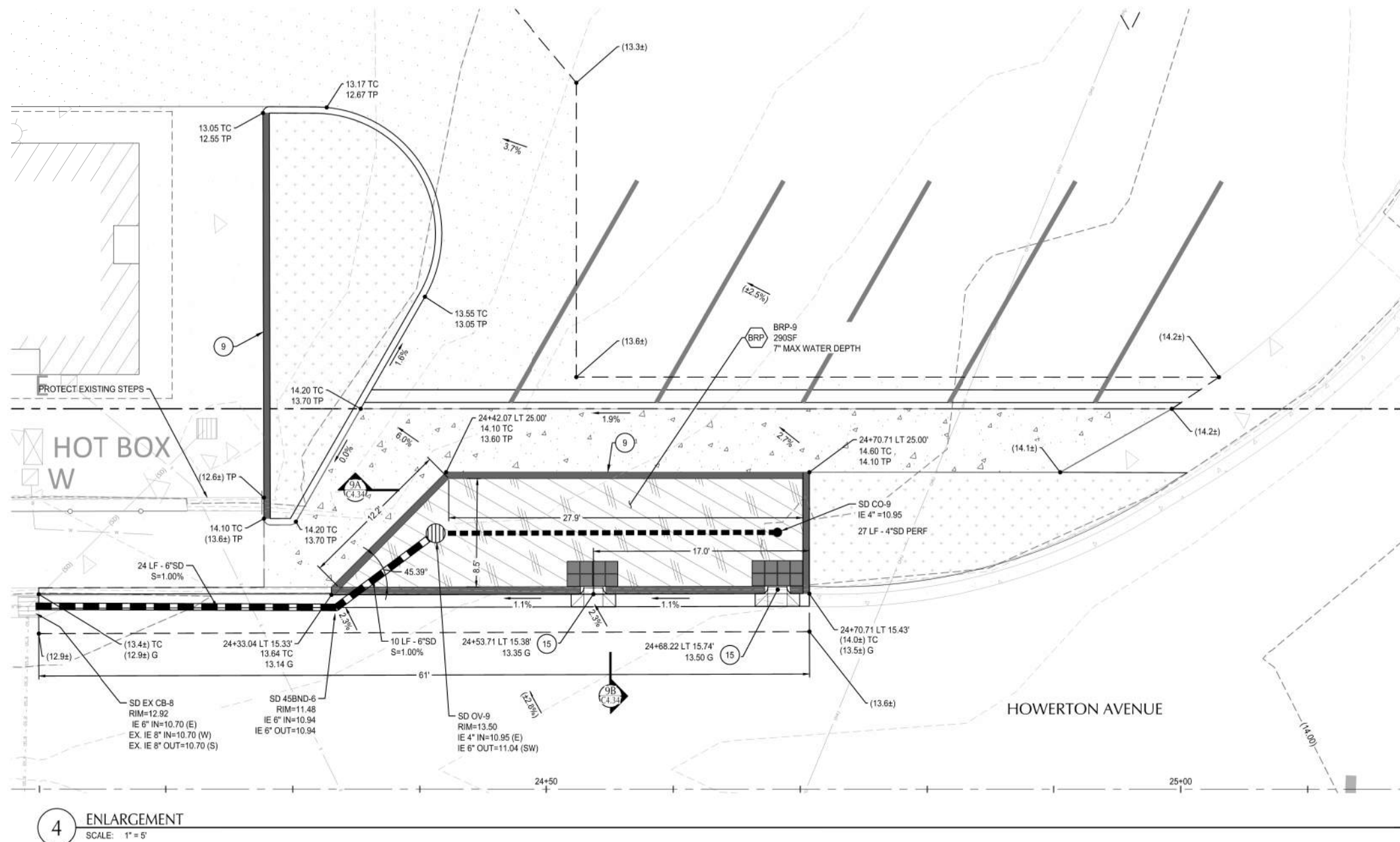
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C4.33

SHEET 23 OF 40

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Plotted: 7/6/23 at 4:35pm By: jpschmidt

22x34



SHEET NOTES

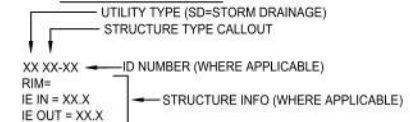
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 8/C5.01

UTILITY KEY NOTES

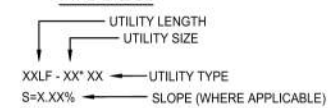
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IL	IMPERMEABLE LINER	7/C5.02
!!	UTILITY CROSSING. PROVIDE 12\"	
BIO	BIOPOD	2/C5.04

UTILITY LABEL LEGEND

STRUCTURE LABEL



PIPE LABEL



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
CB1	CATCH BASIN - TYPE 1	1/C5.03
CB2	CATCH BASIN - TYPE 2	2/C5.03
CB3	CATCH BASIN - TYPE 3	3/C5.03
CO	CLEANOUT	6/C5.02
CONN	CONNECTION TO EXISTING PIPE	
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OV2	MODIFY EX STRUCTURE W/ BEEHIVE GRATE	7/C5.02

KEY NOTES

CALLOUT	DESCRIPTION	DETAIL REF.
9	PLANTER WALL	1/C5.02
15	CURB INLET	5 OR 6/C5.03

GRADING LABEL LEGEND

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
[X.X%]	SLOPE ORIENTATION INDICATING DIRECTION OF MAXIMUM GRADE (DOWNHILL)

SPOT ELEVATION
DESCRIPTION LISTED BELOW.
NO DESCRIPTION MEANS TP OR TG

XX.XX XX	EXISTING GRADE
EG	FINISHED FLOOR
FF	FLOW LINE
FL	GUTTER
G	LOW POINT
LP	RIM OF STRUCTURE
RIM	TOP OF CURB
TC	TOP OF DECK
TD	TOP OF PAVEMENT
TP	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

---	PROPERTY LINE
---(266)---	EX. CONTOUR MINOR
---(270)---	EX. CONTOUR MAJOR
---	GRADE BREAK
---	SAWCUT

REVISION	DATE	DESCRIPTION	BY



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	PS/HJ/RC
DRAWN BY:	RC
CHECKED BY:	JL

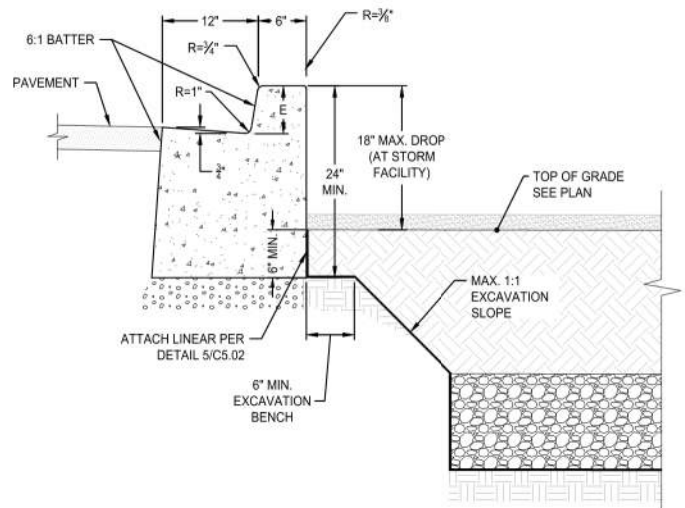
ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

ENLARGEMENTS

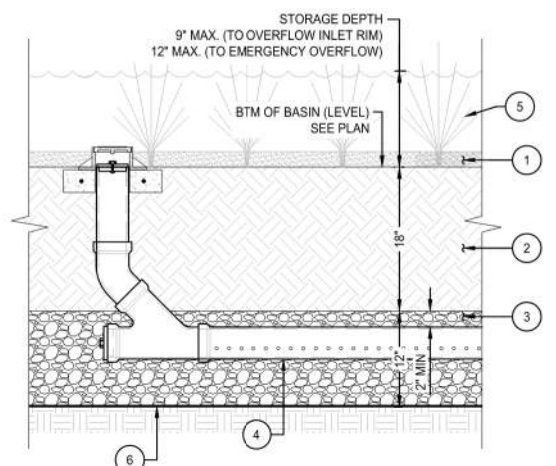
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C4.34

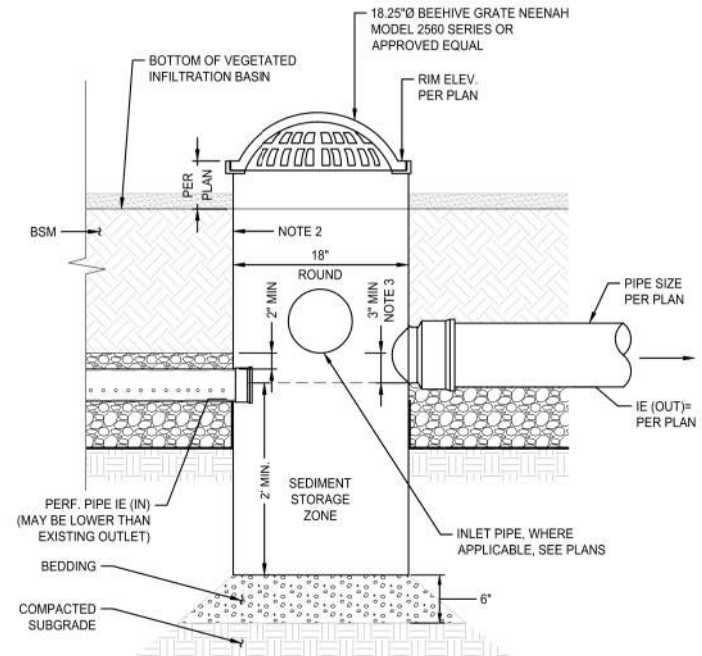
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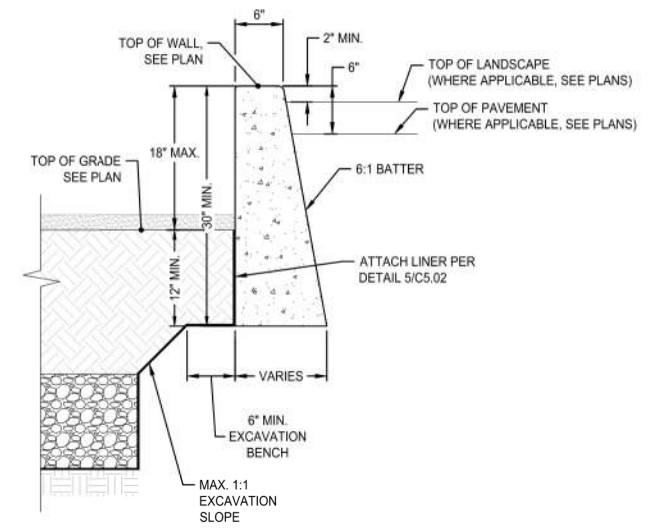
- NOTES:
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
 2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 20' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
 3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.



1. 3" OF COARSE COMPOST PER DOE REQUIREMENTS.
2. 18" OF BIORETENTION SOIL MEDIA (BSM) PER DOE REQUIREMENTS.
3. 12" OF 1/4" - NO. 10 ANGULAR AGGREGATE.
4. 4" PVC PERF. PIPE, ORIENT WITH HOLES FACING DOWN. INSTALL LEVEL.
5. PLANTING SEE LANDSCAPE PLANS.
6. 30 MIL IMPERMEABLE LINER, SEE DETAIL 7/C5.0



- NOTES:
1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.
 2. 10 GA STEEL PLATE, BITUMINOUS COATED BASIN AS MANUFACTURED BY GIBSON STEEL, GRATEMASTER OR APPROVED EQUAL.
 3. MINIMUM SEPARATION BETWEEN BOTTOM OF (BSM) AND EXISTING OUTLET PIPE INVERT IS TO BE 0.25'.

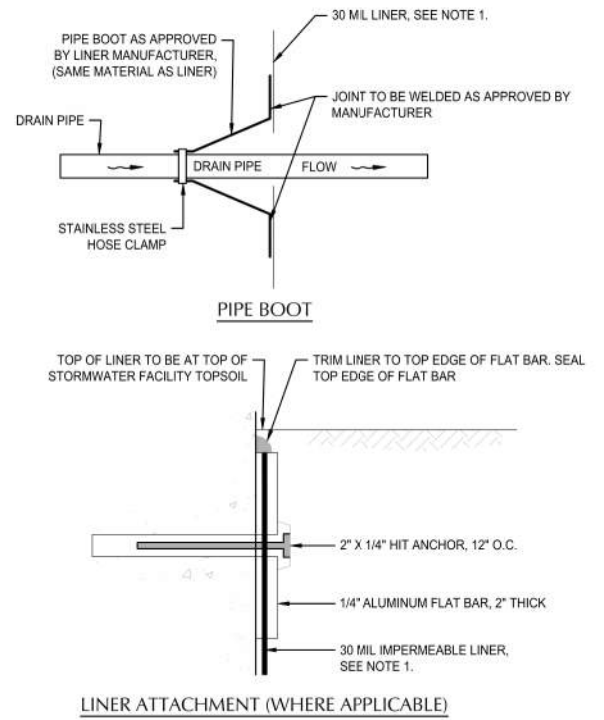


4 THICKENED CURB AND GUTTER
SCALE: NTS

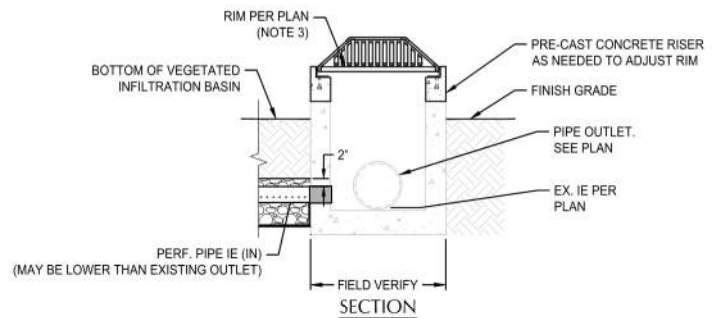
3 TYPICAL BIORETENTION FACILITY SECTION
SCALE: NTS

2 OVERFLOW INLET - TYPE 1
SCALE: NTS

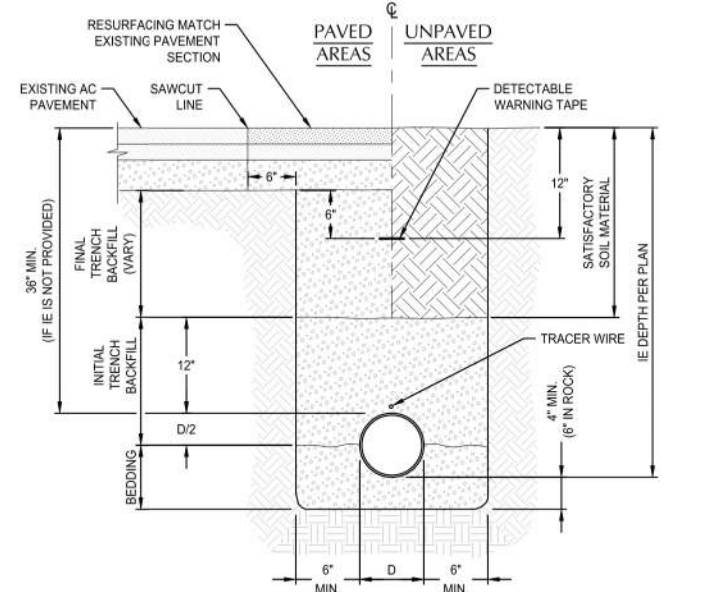
1 PLANTER WALL
SCALE: NTS



- NOTES:
1. LINER MATERIALS TO BE HDPE OR PVC. LINER TO EXTEND WHERE SHOWN ON PLAN.



- NOTES:
1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.
 2. FOR CARRIER PIPE SIZE 6"Ø AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
 3. FOR CARRIER PIPE SIZE 8"Ø AND LARGER, RISER PIPE SHALL BE 6"Ø.
 4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.



8 30 MIL IMPERMEABLE LINER
SCALE: NTS

6 STANDARD CLEANOUT (COTG)
SCALE: NTS

5 TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS

File: N:\proj\2021\1800567-Baker-Bay-Storm-Water\CAD\PILOT\CD\1800567-50-DTL5.dwg TAB C5.02
Plotted: 7/6/23 at 4:53pm By: jcmahide

REVISION	DATE	DESCRIPTION	BY



Lower Columbia
Estuary
Partnership



kpff
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Portland, OR 97204
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F: 503.274.4681
www.kpff.com

FOR
INFORMATION
ONLY

JOB No.: 1800567

DESIGNED BY: PS/HJ/RC

DRAWN BY: RC

CHECKED BY: JL

ILWACO, WA

BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS

DETAILS

SHEET NO.

C5.02

SHEET 26 OF 40



Oldcastle Infrastructure
A BURNS & MCDONNELL COMPANY

800.828.8812 www.oldcastleinfrastructure.com

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Blod® Bladder System (STANDARD)
Plaster vault with External Pipes

DESIGNER: _____
PROJECT NAME: _____

DATE: _____
PROJECT: _____

DESIGN: _____
SPECIFIC DRAWING: _____
REV: _____
DATE: _____

1 OF 1

2 SCALE: NTS



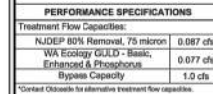
1. SANDSET PAVERS SHALL BE HOLLAND 8CM (3 1/8" X 7 7/8" X 3 15/16"), FROM MUTUAL MATERIALS FOR APPROVED EQUAL. PROVIDE SAMPLE OF COLOR OPTIONS TO OWNER FOR DETERMINATION.
2. JOINT SAND SHALL BE DESIGNMIX PAVES JOINT SAND OR APPROVED EQUAL.
3. INSTALL WITH HARRINGBONE PATTERN.

(5) SANDS
SCALE: NTS

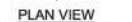
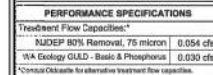


1. PERMEABLE PAVERS SHALL BE 4"x8" PERMEABLE HOLLAND HERRINGBONE 8 CM, FROM MUTUAL MATERIALS FOR APPROVED EQUAL. PROVIDE SAMPLE OF COLOR OPTIONS TO OWNER FOR DETERMINATION.
2. INSTALL WITH HERRINGBONE PATTERN.

4 PERMEABILITY
SCALE: NTS



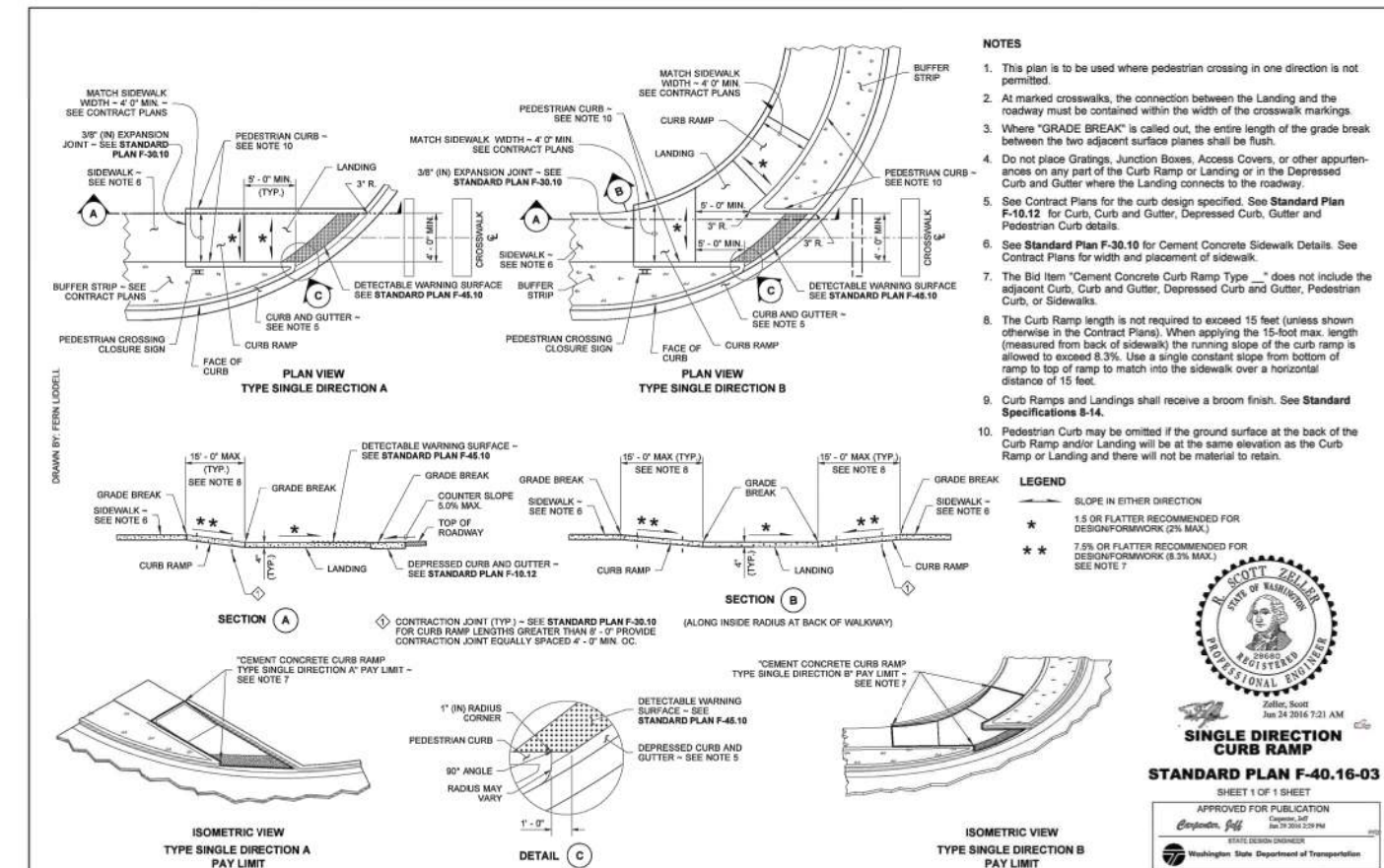
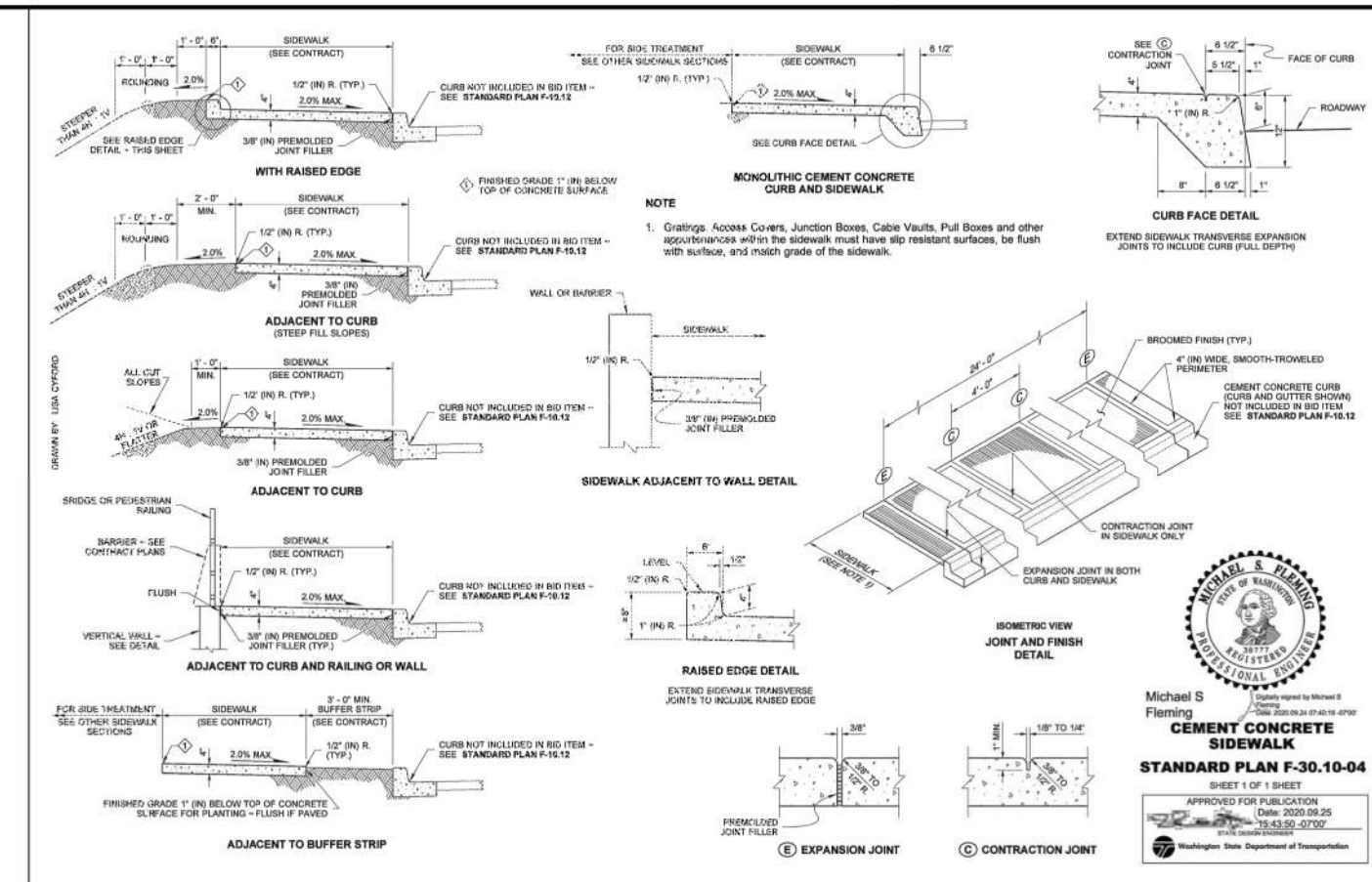
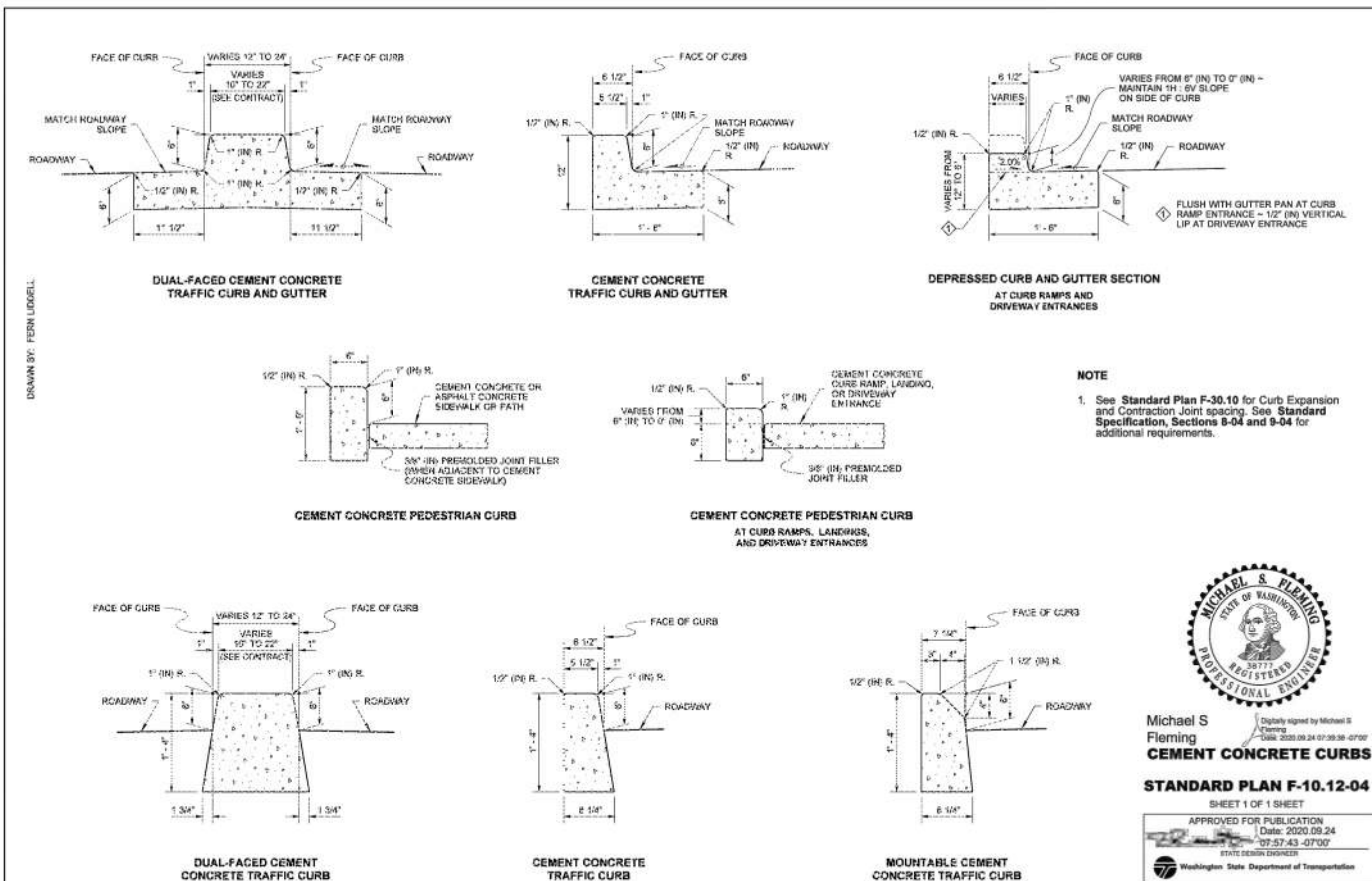
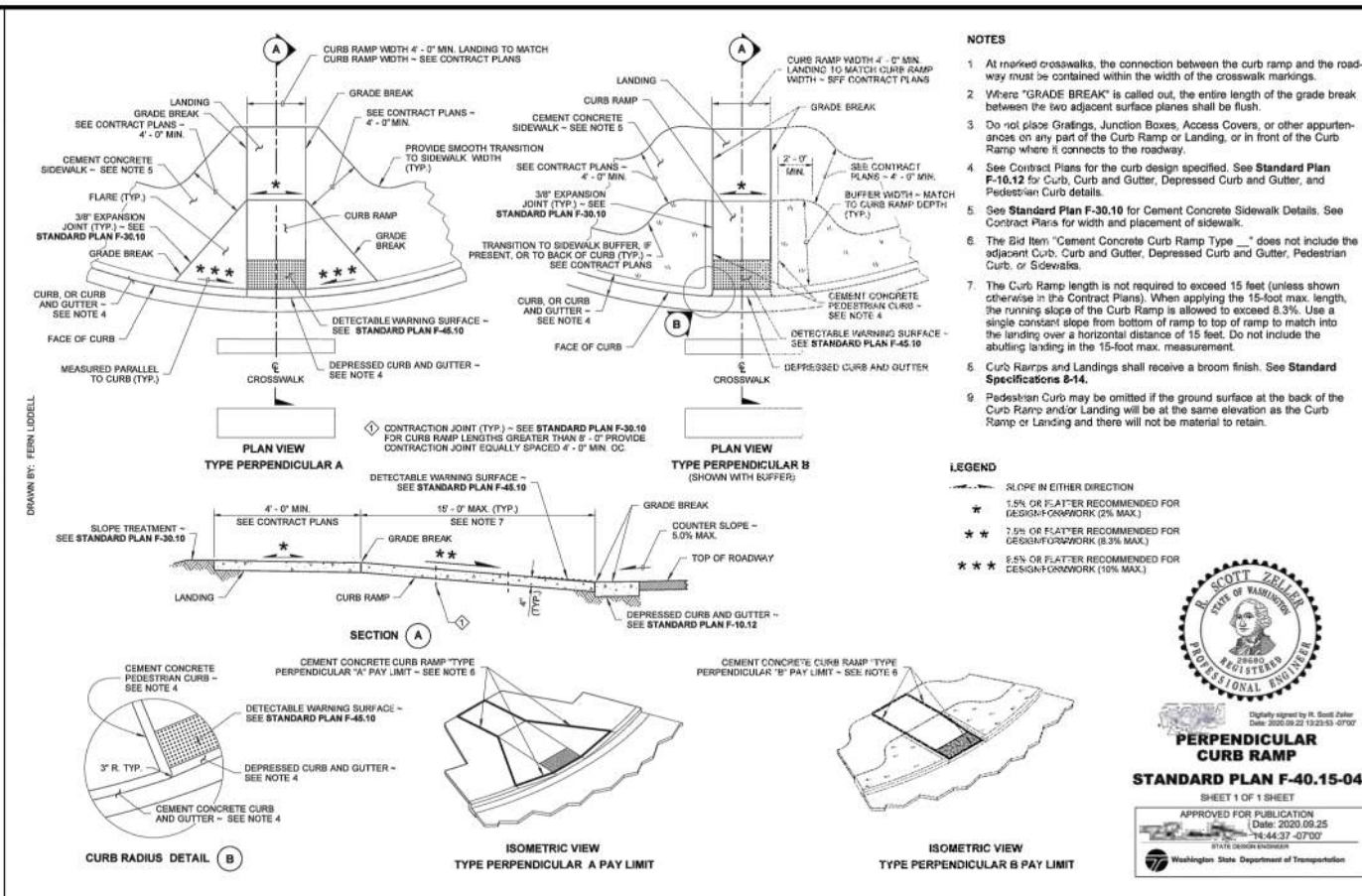
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- PRELIMINARY -
NOT FOR CONSTRUCTION

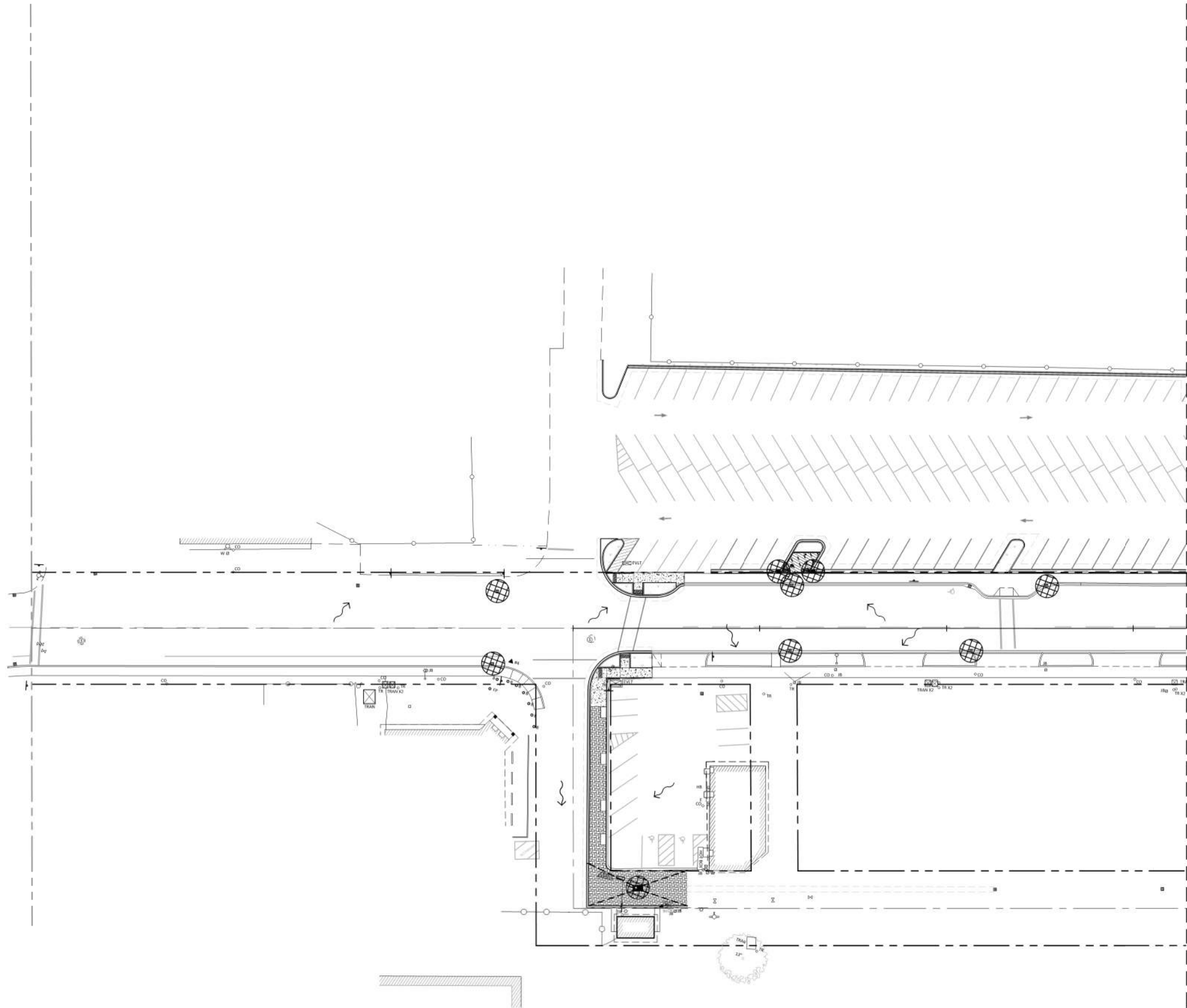
PROJECT NAME					
DATE -/-/22	BY	ISSUED	DESIGNED	CHECKED	SALES/PRINT
SHEET NAME Specifier Drawing PCOB 25-1x12			REVISION REV DATE		SHEET 1 OF 1

(3) WATER
SCALE: NTS



File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\Plot\CD\1800567-60-ESCP.dwg TAB C6.10
Plotted: 7/6/23 at 4:24pm By: jpschmidt

22x34



EROSION CONTROL PLAN NOTES

- APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED 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 CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED 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.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAYING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO THE STORMWATER COLLECTION SYSTEM SHALL BE REMOVED OR CLEANED UP IMMEDIATELY, AND NO LATER THAN END OF THE WORK DAY. THE USE OF WATER TRUCKS TO WASH THE MATERIAL OFF THE ROADWAY IS NOT ALLOWED. WATER TRUCKS MAY BE USED IMMEDIATELY BEFORE SWEEPERS OR VACUUM SYSTEMS TO LOOSEN SEDIMENT, PROVIDED THAT DISCHARGE TO THE STORMWATER COLLECTION SYSTEM DOES NOT OCCUR.
- DEMOLITION WILL REMOVE IMPERVIOUS SURFACES. UNTIL NEW IMPERVIOUS SURFACES ARE INSTALLED, STORMWATER WILL BE INFILTRATED IN PLACE. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS NEEDED TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE.
- THE STORMWATER FACILITIES ARE PERMANENT STORMWATER FACILITIES AND MUST BE PROTECTED FROM SILTATION AND SCOURING DURING THE CONSTRUCTION PHASE. DURING CONSTRUCTION, STORMWATER MAY BE ROUTED TO THE STORMWATER FACILITIES PROVIDED EROSION CONTROL MEASURES LISTED BELOW ARE IMPLEMENTED.

SHEET LEGEND

	PROPERTY LINE
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	PROP. CONTOUR MINOR
	PROP. CONTOUR MAJOR
	EXTENT OF WORK
	INLET PROTECTION
	BIO-BAG PROTECTION IN DITCHES AND SWALES
	SURFACE FLOW DIRECTION
	DRAINAGE FLOW DIRECTION

EMERGENCY CONTACT:

NAME: _____
PHONE: _____
E-MAIL: _____

REVISION	DATE	DESCRIPTION	BY



SCALE
1 INCH = 30 FEET
30 0 30 60



DISCLAIMER:

THIS SHEET REPRESENTS EXISTING SITE CONDITIONS BASED ON A LAND SURVEY PROVIDED BY KPFF OR BY OTHERS (NOT COMPLETED UNDER KPFF DIRECT SUPERVISION).
ALL INFORMATION SHOWN HEREON MAY OR MAY NOT EXPLICITLY REFLECT THE ACTUAL SURVEY DELIVERED FOR THE PURPOSE OF THIS PROJECT SITE. THIS INFORMATION WAS RELIED UPON FOR CIVIL DESIGN PURPOSES.
SURVEY COMPLETED BY: KPFF
12/06/2021

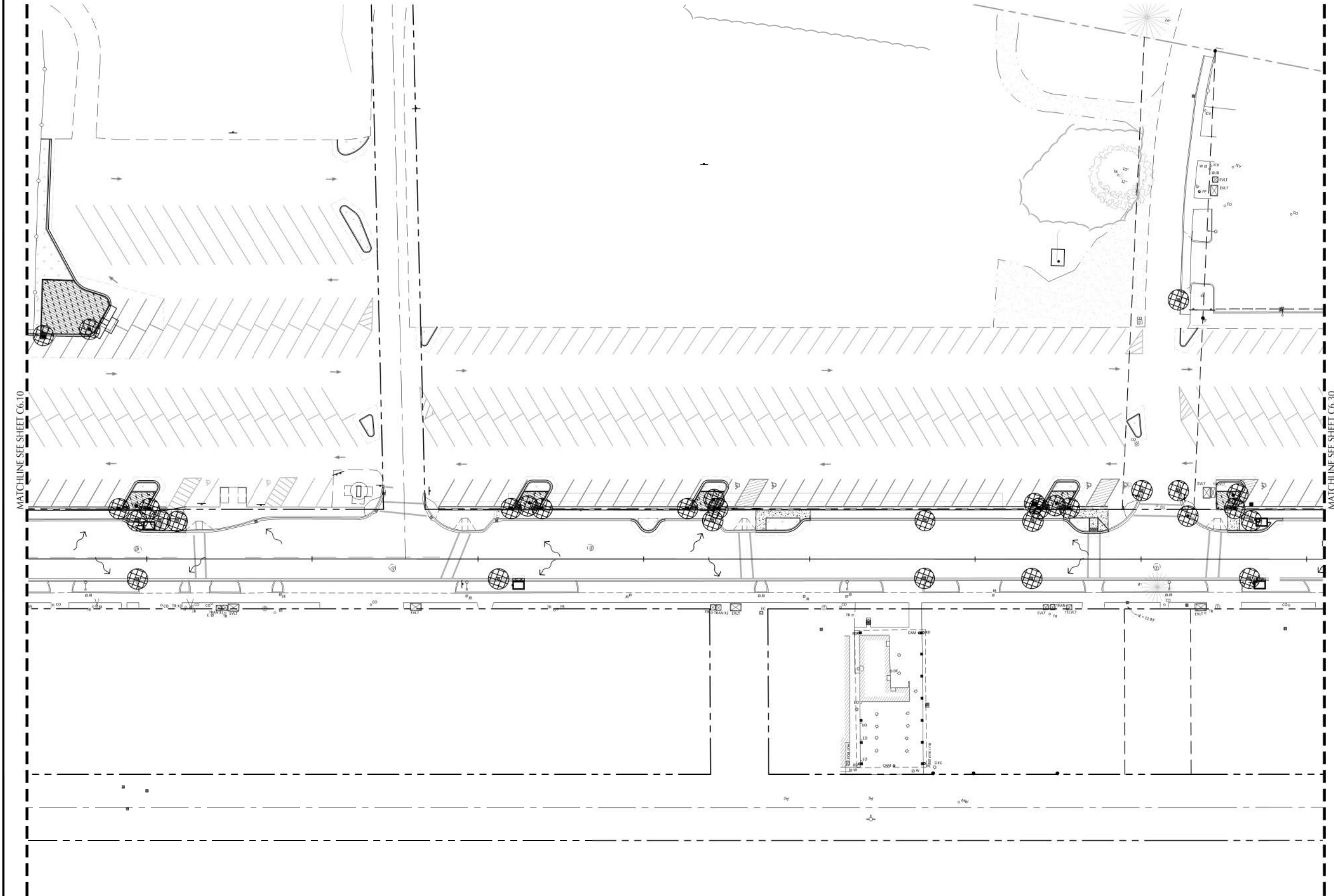
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CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
EROSION AND SEDIMENT CONTROL PLAN

SHEET NO.
C6.10
SHEET 30 OF 40

File: N:\proj\2018\1800567-Baker-Bay-Storm-Water-CAD\LOT\CD\1800567-60-ESCP.dwg TAB C6.20
Plotted: 7/6/23 at 4:24pm By: jpschmidt

22x34



EROSION CONTROL PLAN NOTES

1. APPROVAL OF THIS EROSION/SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED 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 CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED 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 FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAIVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSIDE DRAINAGE SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO THE STORMWATER COLLECTION SYSTEM SHALL BE REMOVED OR CLEANED UP IMMEDIATELY, AND NO LATER THAN END OF THE WORK DAY. THE USE OF WATER TRUCKS TO WASH THE MATERIAL OFF THE ROADWAY IS NOT ALLOWED. WATER TRUCKS MAY BE USED IMMEDIATELY BEFORE SWEEPERS OR VACUUM SYSTEMS TO LOOSEN SEDIMENT, PROVIDED THAT DISCHARGE TO THE STORMWATER COLLECTION SYSTEM DOES NOT OCCUR.
11. DEMOLITION WILL REMOVE IMPERVIOUS SURFACES. UNTIL NEW IMPERVIOUS SURFACES ARE INSTALLED, STORMWATER WILL BE INFILTRATED IN PLACE. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS NEEDED TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE.
12. THE STORMWATER FACILITIES ARE PERMANENT STORMWATER FACILITIES AND MUST BE PROTECTED FROM SILTATION AND SCOURING DURING THE CONSTRUCTION PHASE. DURING CONSTRUCTION, STORMWATER MAY BE ROUTED TO THE STORMWATER FACILITIES PROVIDED EROSION CONTROL MEASURES LISTED BELOW ARE IMPLEMENTED.

SHEET LEGEND

	PROPERTY LINE
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	PROP. CONTOUR MINOR
	PROP. CONTOUR MAJOR
	EXTENT OF WORK
	INLET PROTECTION
	BIO-BAG PROTECTION IN DITCHES AND SWALES
	SURFACE FLOW DIRECTION
	DRAINAGE FLOW DIRECTION

EMERGENCY CONTACT:

NAME: _____
PHONE: _____
E-MAIL: _____

REVISION	DATE	DESCRIPTION	BY



DISCLAIMER:
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SURVEY COMPLETED BY: KPFF
12/06/2021

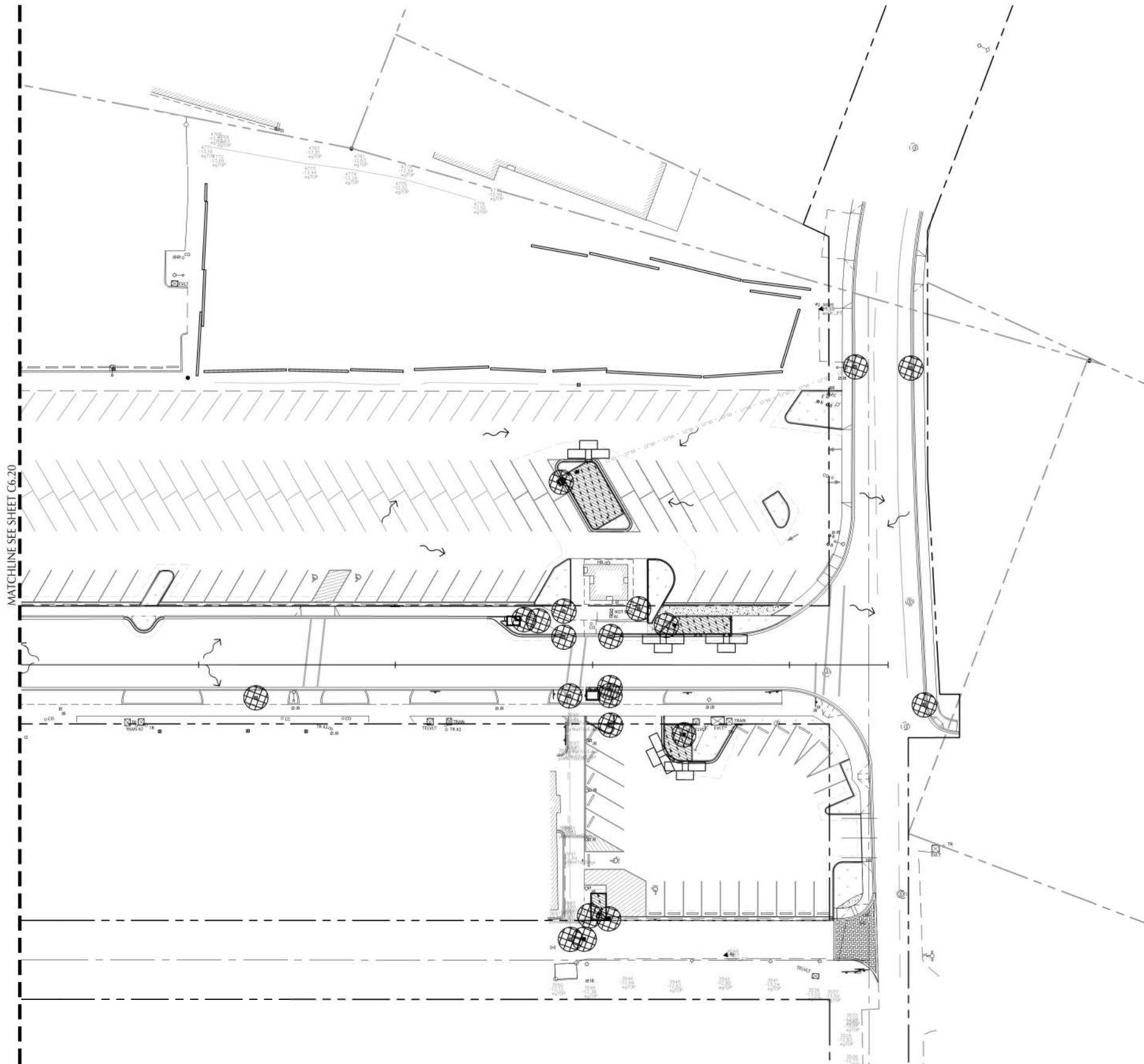
JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
EROSION AND SEDIMENT CONTROL PLAN

SHEET NO.
C6.20
SHEET 31 OF 40

File: N:\proj\2021\81-800567-Baker-Bay-Storm-Water-CAD\LOT\CD\180567-60-ESC2.dwg TAB C6.30
Plotted: 7/6/23 at 4:24pm By: jschmidtke

22x34



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	EX. CONTOUR MAJOR
	PROP. CONTOUR MINOR
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	SURFACE FLOW DIRECTION
	DRAINAGE FLOW DIRECTION

EMERGENCY CONTACT:

NAME: _____
PHONE: _____
E-MAIL: _____

REVISION	DATE	DESCRIPTION	BY



SCALE
1 INCH = 30 FEET
30 0 30 60



111 SW Fifth Ave., Suite 2600
Portland, OR 97204
O: 503.542.3860
F: 503.274.4681
www.kpff.com

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SURVEY COMPLETED BY: KPFF
12/06/2021

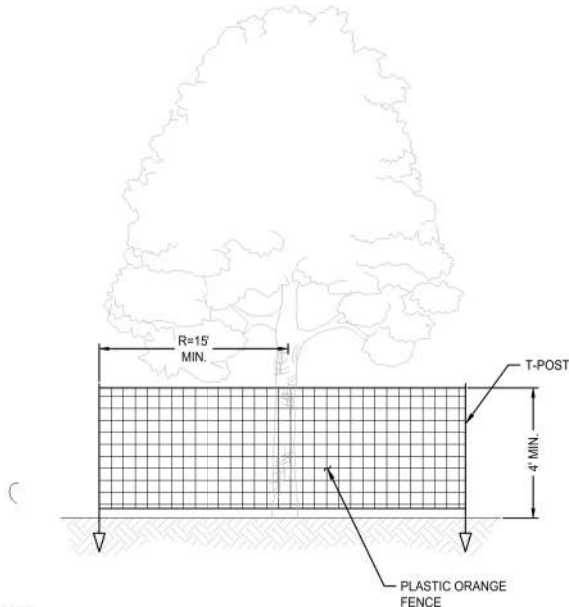
JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
EROSION AND SEDIMENT CONTROL PLAN

SHEET NO.

C6.30

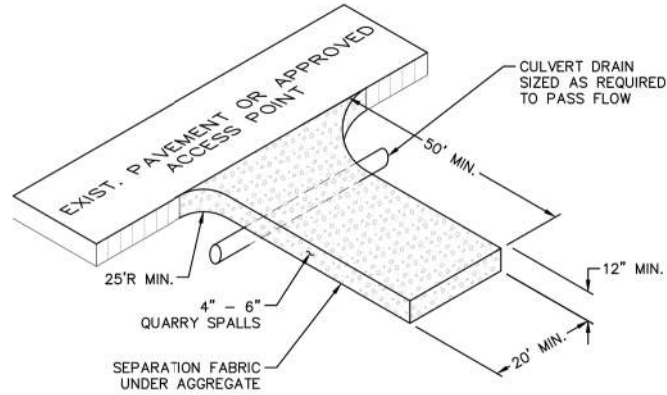
SHEET 32 OF 40



NOTES:

1. TEMPORARY FENCE SHALL BE PLACED AT 15' MIN RADIUS FROM TRUNK OF TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING T-POST ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION. MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOILS AS SOON AS POSSIBLE.
3. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE FENCING.
4. WITHIN CLEARING/GRADING LIMITS OR AT THE EDGE OF THE CLEARING/GRADING LIMITS, TREE PROTECTION MAY BE INSTALLED AROUND GROUPS OF TREES.

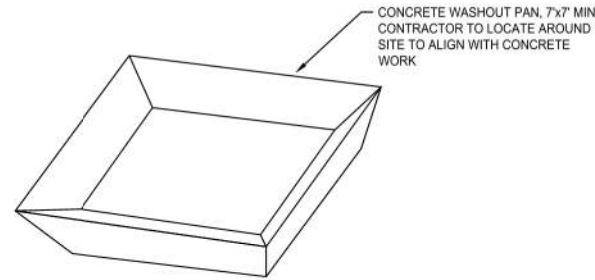
5 TREE PROTECTION - CONSTRUCTION FENCE
SCALE: NTS



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS: 50' LONG BY 20' WIDE 3-6" CLEAN ROCK, GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

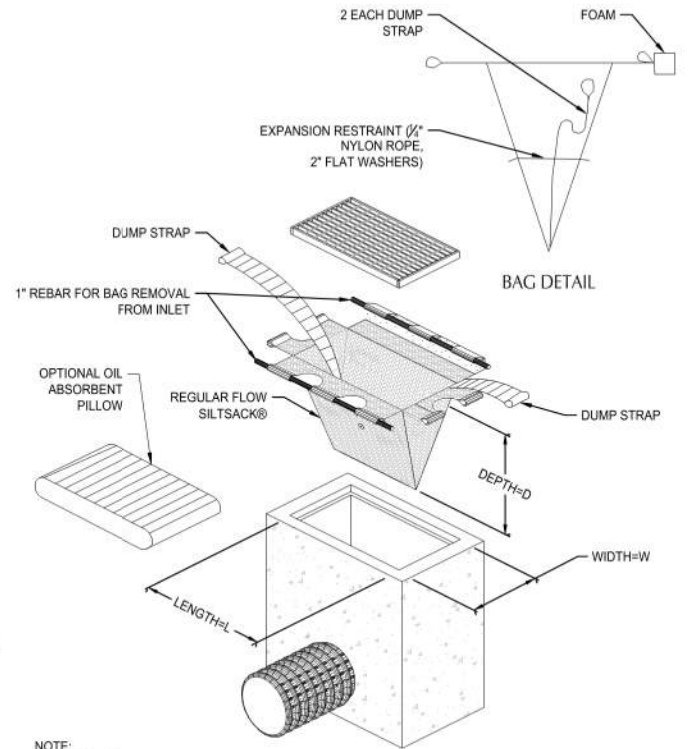
3 CONSTRUCTION ENTRANCE
SCALE: NTS



NOTES:

1. INSTALL A MOBILE CONCRETE WASH OUT, ECO PAN OR APPROVED EQUAL. LOCATE THE WASH OUT IN A PLACE THAT WILL BE ACCESSIBLE TO CONCRETE TRUCKS.
2. PROVIDE 7' X 7' MINIMUM WASHOUT PAN. INCREASES SIZE OR PROVIDE ADDITIONAL WASHOUTS AS REQUIRED TO ACCOMMODATE PROJECT CONDITIONS.
3. FOR WASHOUTS LOCATED IN AREAS DESIGNATED TO RECEIVE HARDSCAPE, SOLIDS MAY BE BURIED IN PLACE. FOR OTHER APPLICATIONS, REMOVE AND DISPOSE OF SOLIDS.

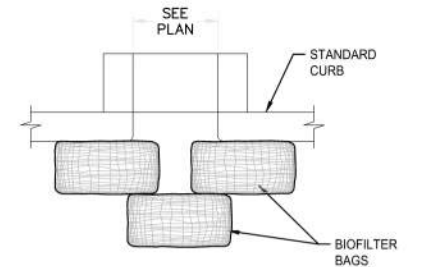
4 CONCRETE WASHOUT
SCALE: NTS



NOTE:

1. DO NOT USE HIGH FLOW INSERT BAGS.

1 INLET SEDIMENT PROTECTION
SCALE: NTS



NOTES:

1. PLACE BIOFILTER BAG FLUSH AGAINST CURB IN GUTTER

2 BIOFILTER BAG AT CURB SPILLWAY
SCALE: NTS

REVISION	DATE	DESCRIPTION	BY



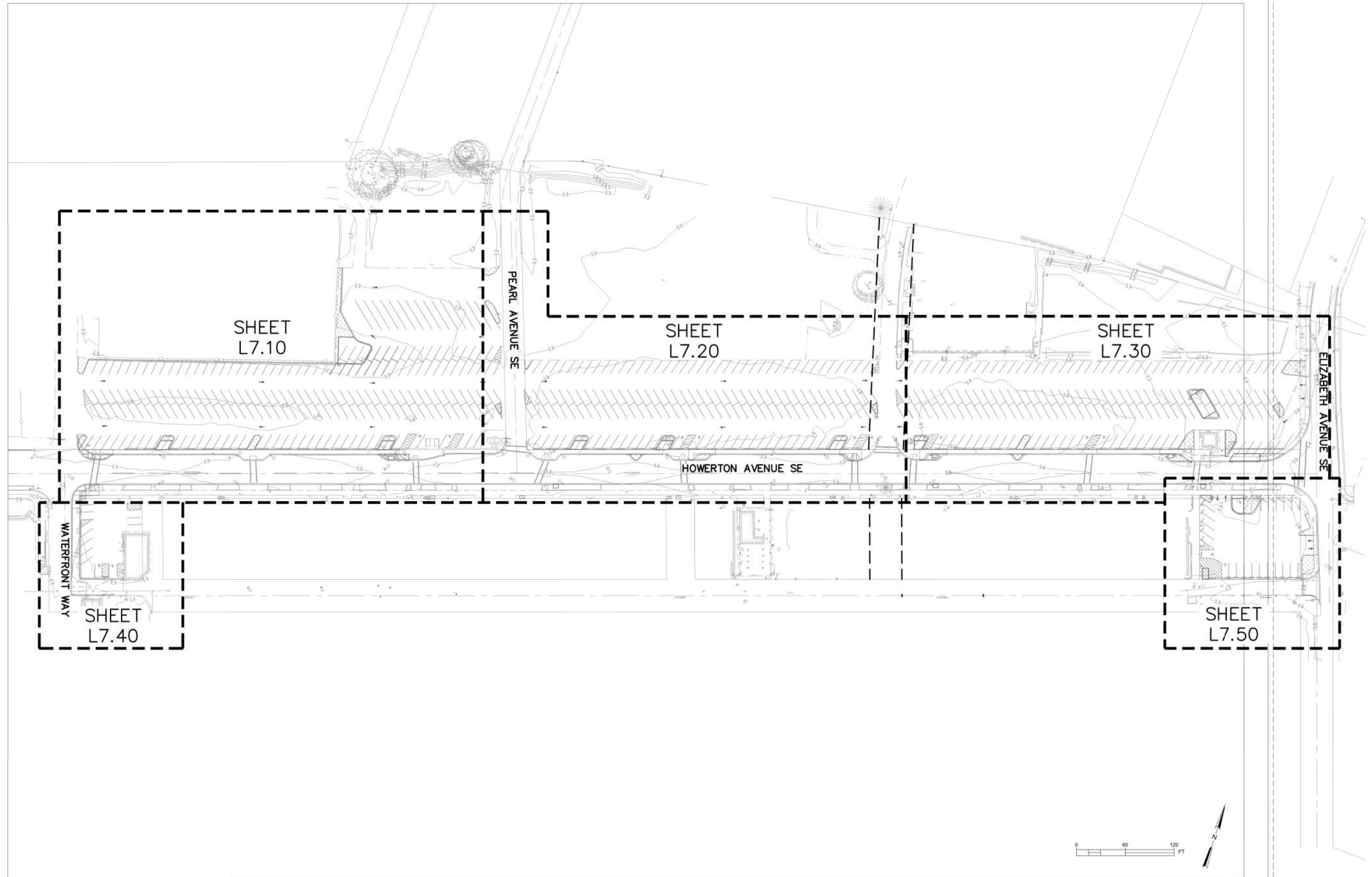
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JOB No.: 1800567
DESIGNED BY: PS/HJ/RC
DRAWN BY: RC
CHECKED BY: JL

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
60% CONSTRUCTION DRAWINGS
EROSION AND SEDIMENT CONTROL PLAN

SHEET NO.
C6.40
SHEET 33 OF 40



REVISION	DATE	DESCRIPTION	BY



FOR
INFORMATION
ONLY

JOB No.:	1800567
DESIGNED BY:	HH
DRAWN BY:	HH
CHECKED BY:	MM

ILWACO, WA

BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
90% CONSTRUCTION DRAWINGS

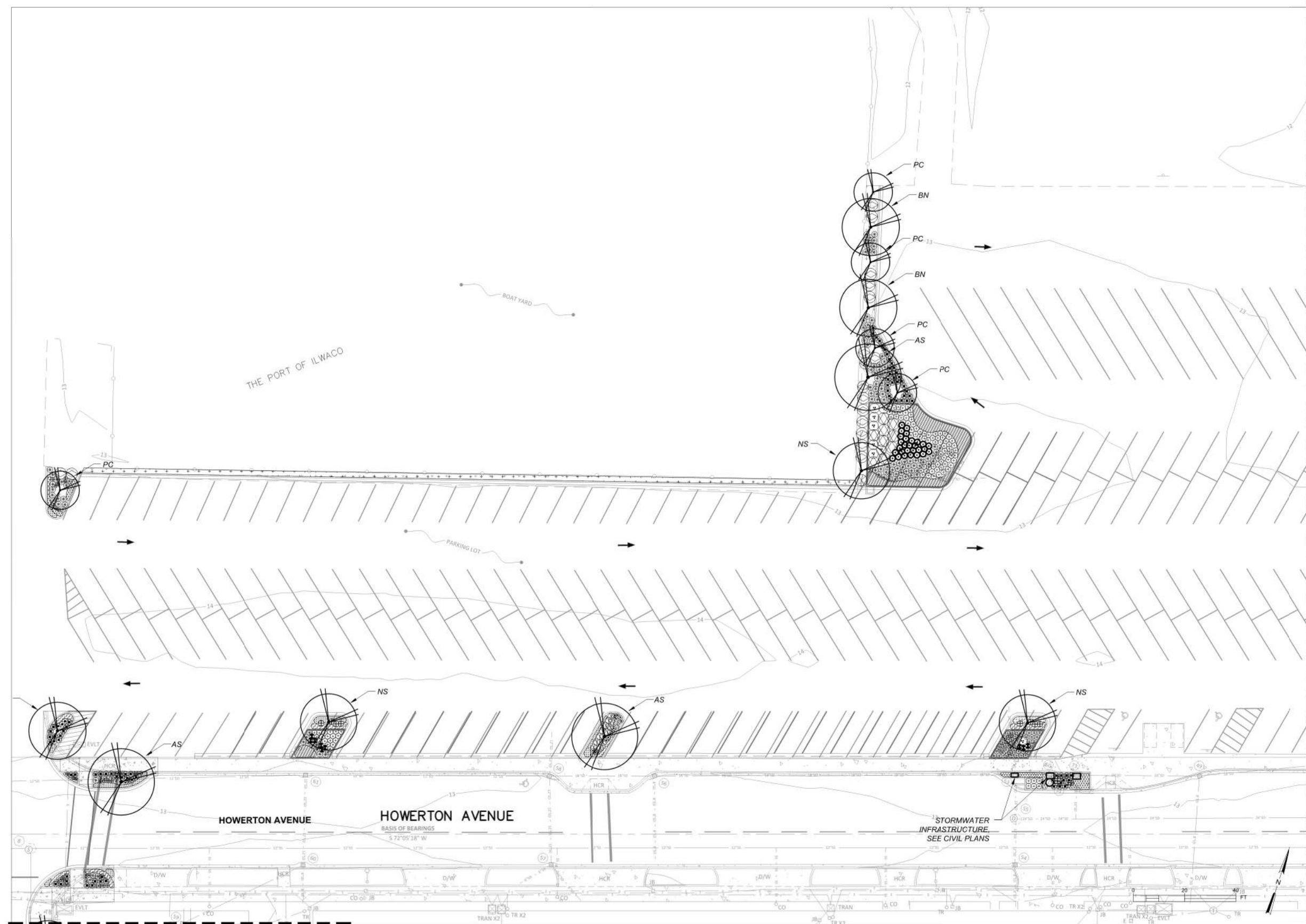
LANDSCAPE PLAN

SHEET NO.

L7.00

SHEET 34 OF 40

22x34



DEPAVED PLANT LEGEND

TREES		QTY
AS	<i>Acer saccharum</i> 'Legacy'	13
AA	Legacy Sugar Maple, 2.5" Cal. B&B	
	<i>Amelanchier alnifolia</i>	2
	Western Serviceberry, 2.5" Cal. B&B	
BN	<i>Betula nigra</i> - River Birch	16
	2.5" Cal. B&B	
NS	<i>Nyssa Sylvatica</i> - Black Tupelo	9
	MALE VARIETY , 2.5" Cal. B&B	
PC	<i>Pinus contorta</i> - Shore Pine	7
	7-8" ft. B&B	

SHRUBS		QTY
⊖	<i>Arctostaphylos x media</i> 'Martha Ewan' - Martha Ewan Manzanita, 1 gal pot, 3" O.C.	118
⊕	<i>Berberis nervosa</i> - Oregon Low Grape, 1 gal pot, 2" O.C.	277
⊗	<i>Ceanothus impressus</i> 'Vandenburg'	32
	California Lilac, 3 gal pot, 3" O.C.	
⊛	<i>Convolvulus cneorum</i> - Silverbush, 1 gal pot, 2" O.C.	194

GROUNDCOVERS, GRASSES, PERENNIALS		QTY
▨	<i>Armeria alliacea</i> - Sea Pink, 4" pot, 1" O.C.	685
▩	<i>Arctostaphylos uva-ursi</i> - kinnikinnick, 4" pot, 1" O.C.	480
▧	<i>Festuca glauca</i> - 'Elijah Blue', 4" pot, 1" O.C.	1115
⊛	<i>Rudbeckia</i> - Black Eyed Susan, 4" pot, 1.5" O.C.	142
⊕	<i>Symphyotrichum chilense</i> - Pacific Aster, 4" pot, 1.5" O.C.	111
⊕	Seed Mix, As Specified	602 sq ft

FILTRATION & BIOPOD PLANT LEGEND

SHRUBS		QTY
⊖	<i>Berberis nervosa</i> - Oregon Low Grape, 1 gal pot, 2" O.C.	63
⊕	<i>Cornus sericea</i> 'Kelsey' - Redtwig Dogwood, 3 gal pot, 3" O.C.	13
⊗	<i>Cornus sericea</i> 'Flaviramea' - Yellow-twig dogwood, 3 gal pot, 4" O.C.	11
⊛	<i>Philadelphus lewisii</i> - Mock Orange, 3 gal pot, 4" O.C.	1

GROUNDCOVERS, GRASSES, PERENNIALS		QTY
▨	<i>Fragaria chiloensis</i> - Coastal Strawberry, 4" pot, 1" O.C.	700
⊖	<i>Carex obnupta</i> - Slough Sedge, 4" pot, 2" O.C.	177
⊕	<i>Juncus patens</i> - Spreading Rush, 4" pot, 2" O.C.	100
⊗	<i>Lupinus latifolius</i> - Broadleaf Lupine, 4" pot, 2" O.C.	92
⊛	<i>Iris tenax</i> - Tough-Leaf Iris, 4" pot, 2" O.C.	53

- PLANTING PLAN NOTES
1. ALL NEW PLANTING AREAS SHALL BE SUFFICIENTLY WATERED TO ESTABLISH NEW PLANTINGS WITHIN THE FIRST TWO YEARS, AND THEN SLOWLY DECREASE WATERING, LIMITED TO DRY MONTHS, OR PERIODS OF DROUGHT THE FOLLOWING (3) YEARS.
 2. CONTRACTOR SHALL PROVIDE TOPSOIL, SOIL AMENDMENTS AND MULCH AS SPECIFIED.
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REVISION
DATE
DESCRIPTION
BY

Learning Landscapes

Lower Columbia Estuary Partnership

kpff
111 SW Fifth Ave., Suite 2600
Portland, OR 97204
O: 503.542.3860
F: 503.274.4681
www.kpff.com

FOR INFORMATION ONLY

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DRAWN BY: HH
CHECKED BY: MM

ILWACO, WA
BAKER BAY ILWACO STORMWATER PROJECT
WQC-2021-ILWACO-00209
90% CONSTRUCTION DRAWINGS
LANDSCAPE PLAN

SHEET NO.
L7.10
SHEET 35 OF 40



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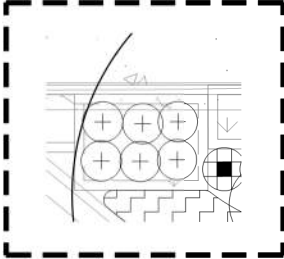
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BIOPOD PLANTING, TYP



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SHRUBS		
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⊙	<i>Berberis nervosa</i> - Oregon Low Grape, 1 gal pot, 2' O.C.	277
⊗	<i>Ceanothus impressus</i> 'Vandenburg' California Lilac, 3 gal pot, 3' O.C.	32
⊕	<i>Convolvulus cneorum</i> - Silverbush, 1 gal pot, 2' O.C.	194

GROUNDCOVERS, GRASSES, PERENNIALS		
▨	<i>Armeria alliacea</i> - Sea Pink, 4" pot, 1' O.C.	685
▩	<i>Arctostaphylos uva-ursi</i> - kinnikinnick, 4" pot, 1' O.C.	480
▧	<i>Festuca glauca</i> - 'Elijah Blue', 4" pot, 1' O.C.	1115
⊛	<i>Rudbeckia</i> - Black Eyed Susan, 4" pot, 1.5' O.C.	142
⊙	<i>Symphyotrichum chilense</i> - Pacific Aster, 4" pot, 1.5' O.C.	111
⊕	Seed Mix	602 sq ft
⊕	As Specified	

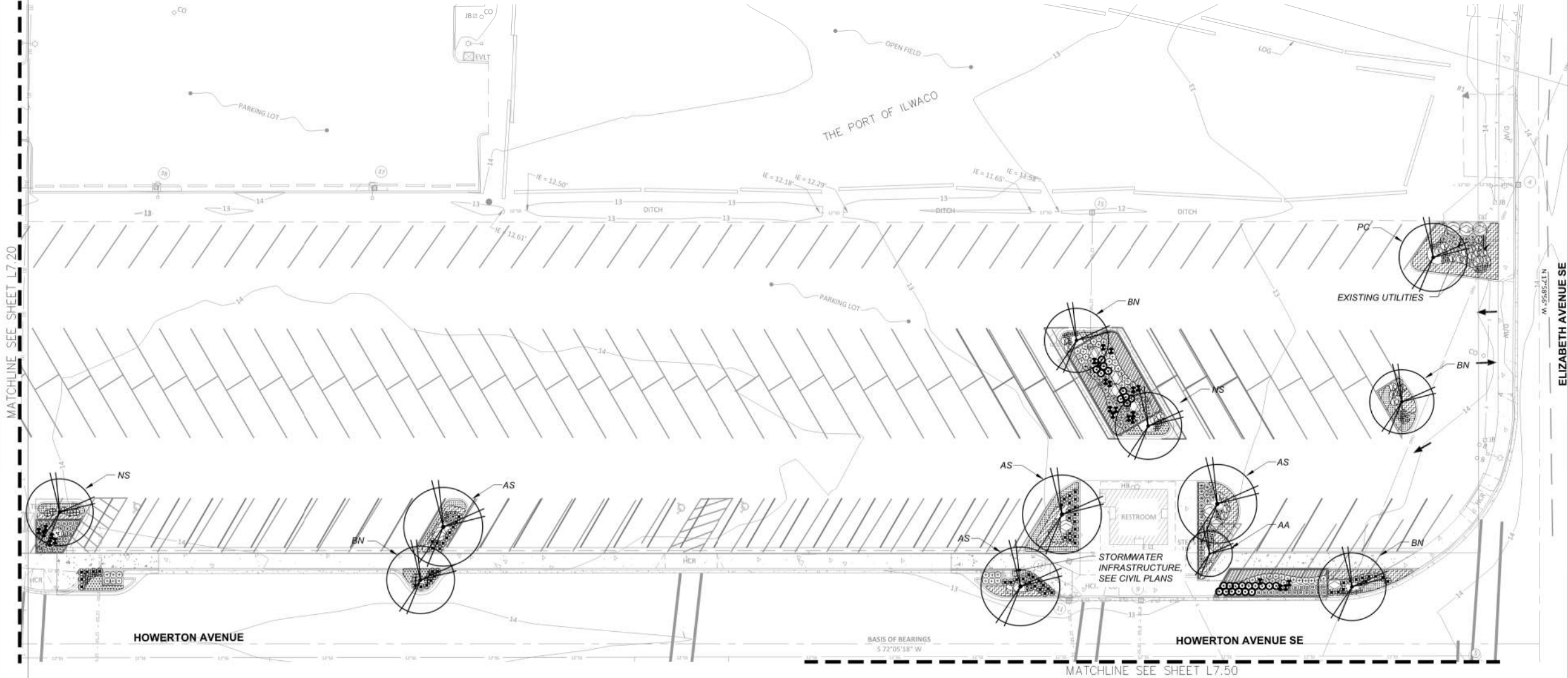
FILTRATION & BIOPOD PLANT LEGEND

SHRUBS		
⊙	<i>Berberis nervosa</i> - Oregon Low Grape, 1 gal pot, 2' O.C.	63
⊙	<i>Cornus sericea</i> 'Kelsey' - Redtwig Dogwood, 3 gal pot, 3' O.C.	13
⊗	<i>Cornus sericea</i> 'Flaviramea' - Yellow-twig dogwood, 3 gal pot, 4' O.C.	11
⊕	<i>Philadelphus lewisii</i> - Mock Orange, 3 gal pot, 4' O.C.	1

GROUNDCOVERS, GRASSES, PERENNIALS		QTY
▨	<i>Fragaria chiloensis</i> - Coastal Strawberry, 4" pot, 1' O.C.	700
⊙	<i>Carex obnupta</i> - Slough Sedge, 4" pot, 2' O.C.	177
⊕	<i>Juncus patens</i> - Spreading Rush, 4" pot, 2' O.C.	100
⊕	<i>Lupinus latifolius</i> - Broadleaf Lupine, 4" pot, 2' O.C.	92
⊕	<i>Iris tenax</i> - Tough-Leaf Iris, 4" pot, 2' O.C.	53

PLANTING PLAN NOTES

- ALL NEW PLANTING AREAS SHALL BE SUFFICIENTLY WATERED TO ESTABLISH NEW PLANTINGS WITHIN THE FIRST TWO YEARS, AND THEN SLOWLY DECREASE WATERING, LIMITED TO DRY MONTHS, OR PERIODS OF DROUGHT THE FOLLOWING (3) YEARS.
- CONTRACTOR SHALL PROVIDE TOPSOIL, SOIL AMENDMENTS AND MULCH AS SPECIFIED.
- ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS PROVIDED AS PART OF THE CONSTRUCTION DOCUMENT PACKAGE.
- SEE SHEET L8.01 FOR PLANTING DETAILS.
- QUANTITIES ARE LISTED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND.



0 20 40 FT



REVISION	DATE	DESCRIPTION	BY

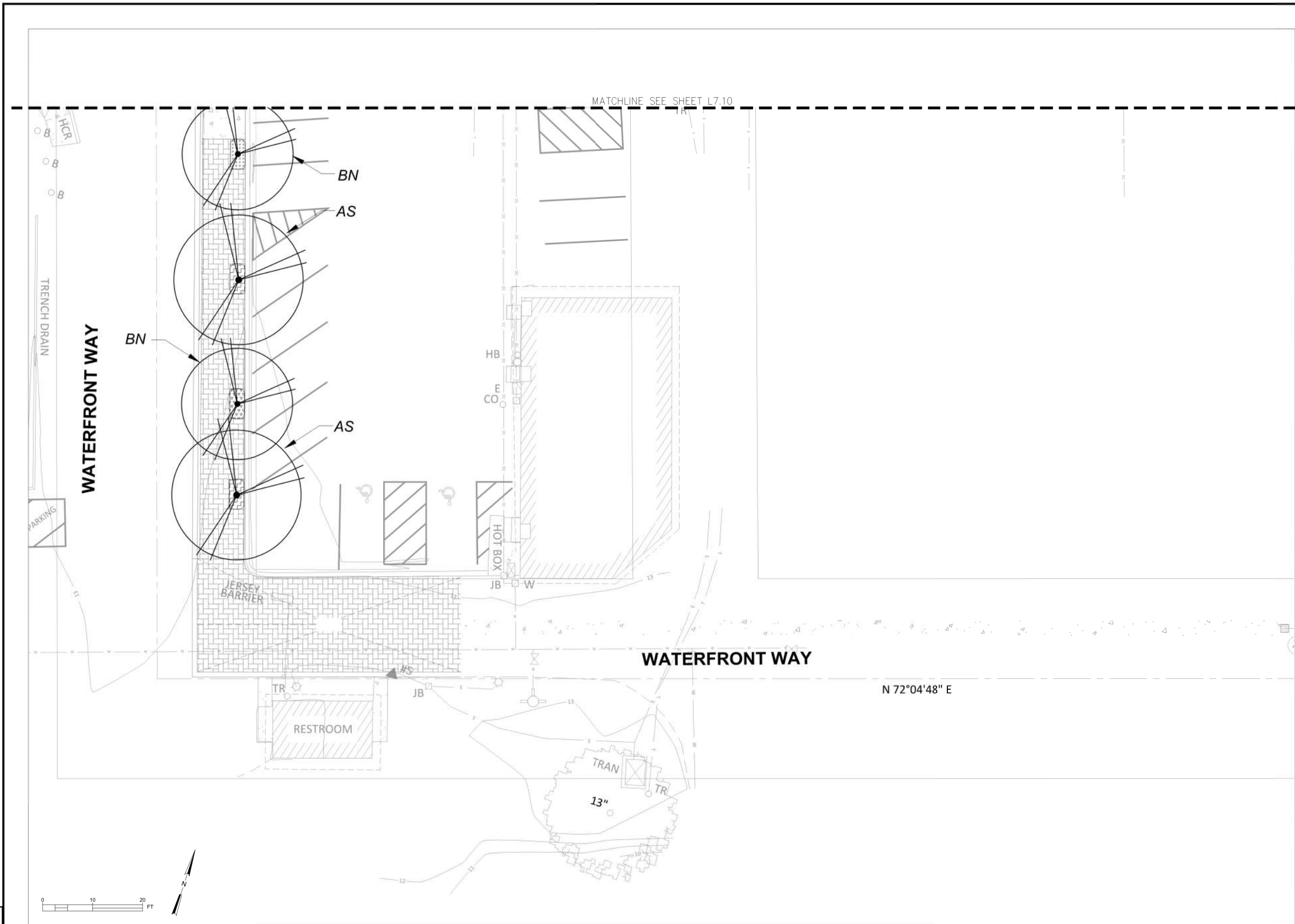


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DESIGNED BY:	HH
DRAWN BY:	HH
CHECKED BY:	MM

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WQC-2021-ILWACO-00209
90% CONSTRUCTION DRAWINGS

LANDSCAPE PLAN



DEPAVED PLANT LEGEND

TREES		QTY
AS	<i>Acer saccharum</i> 'Legacy'	13
AA	Legacy Sugar Maple, 2.5" Cal. B&B	
AA	<i>Amelanchier alnifolia</i>	2
BN	Western Serviceberry, 2.5" Cal. B&B	
BN	<i>Betula nigra</i> - River Birch	16
NS	2.5" Cal. B&B	
NS	<i>Nyssa Sylvatica</i> - Black Tupelo	9
PC	MALE VARIETY , 2.5" Cal. B&B	
PC	<i>Pinus contorta</i> - Shore Pine	7
PC	7-8" ft. B&B	

SHRUBS

⊗	<i>Arctostaphylos x media</i> 'Martha Ewan' - Martha Ewan Manzanita, 1 gal pot, 3" O.C.	118
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GROUNDCOVERS, GRASSES, PERENNIALS

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⊞	4" pot, 1" O.C.	
⊞	<i>Arctostaphylos uva-ursi</i> - kinnikinnick	480
⊞	4" pot, 1" O.C.	
⊞	<i>Festuca glauca</i> - 'Elijah Blue'	1115
⊞	4" pot, 1" O.C.	
⊞	<i>Rudbeckia</i> - Black Eyed Susan	142
⊞	4" pot, 1.5" O.C.	
⊞	<i>Symphyotrichum chilense</i> - Pacific Aster	111
⊞	4" pot, 1.5" O.C.	
⊞	Seed Mix	602 sq ft
⊞	As Specified	

FILTRATION & BIOPOD PLANT LEGEND

SHRUBS

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⊗	1 gal pot, 2" O.C.	
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⊗	3 gal pot, 3" O.C.	
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GROUNDCOVERS, GRASSES, PERENNIALS

		QTY
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⊞	4" pot, 1" O.C.	
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⊞	4" pot, 2" O.C.	
⊞	<i>Juncus patens</i> - Spreading Rush	100
⊞	4" pot, 2" O.C.	
⊞	<i>Lupinus latifolius</i> - Broadleaf Lupine	92
⊞	4" pot, 2" O.C.	
⊞	<i>Iris tenax</i> - Tough-Leaf Iris	53
⊞	4" pot, 2" O.C.	

PLANTING PLAN NOTES

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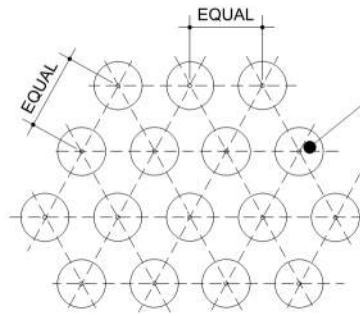
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LANDSCAPE PLAN

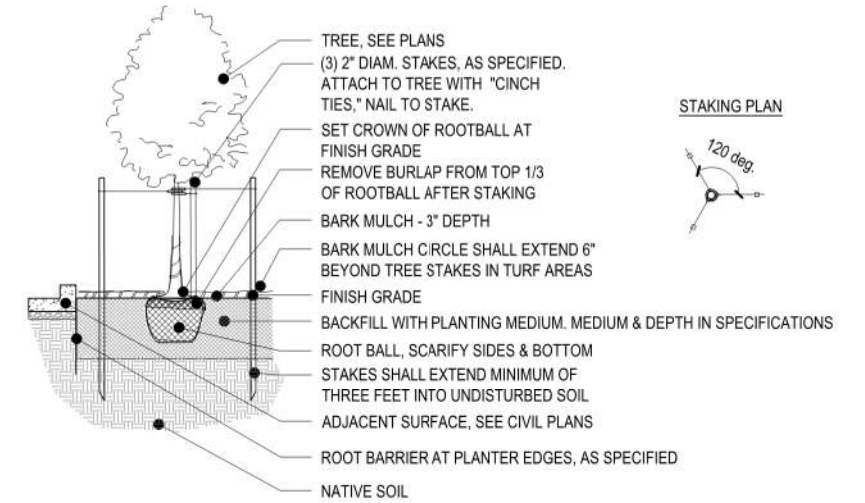
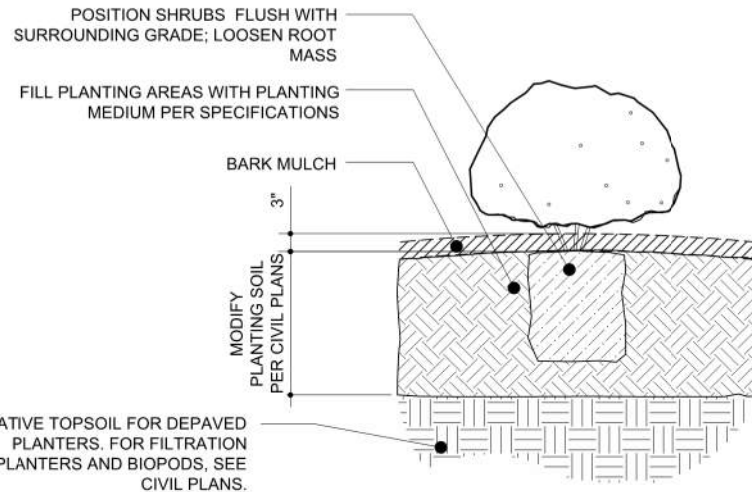
SHEET NO.
L7.40
SHEET 38 OF 40



ALL GROUND COVER, GRASSES & PERENNIALS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING AS NOTED ON PLANTING PLAN

NOTES:

1. LOCATE GROUND COVER, GRASSES & PERENNIALS ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB, SIDEWALK, OR OTHER HARD SURFACE, UNLESS OTHERWISE DIRECTED
2. AMEND SOIL MIXTURE ACCORDING TO CIVIL PLANS



STAKING PLAN



1 GROUNDCOVER, GRASSES & PERENNIALS PLANTING

PLAN 0" 6" 12" 24"

2 SHRUB PLANTING AREA

SECTION 0" 2" 4" 8"

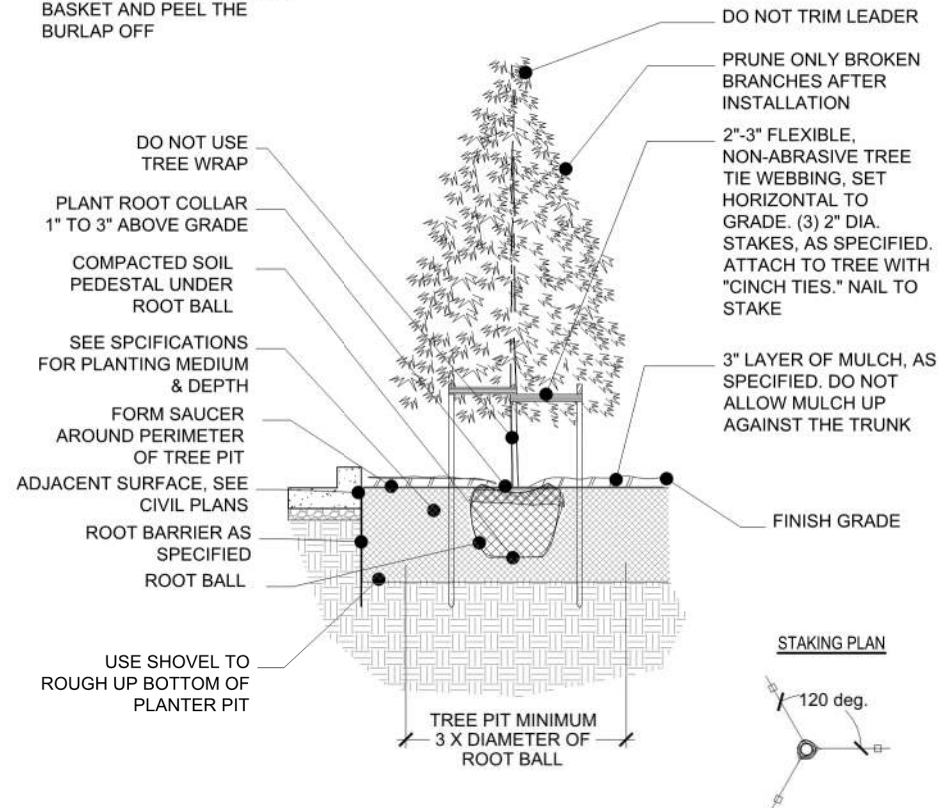
3 DECIDUOUS TREE PLANTING

Section

NOT TO SCALE

B & B NOTES: REMOVE THE ROPE AROUND TRUNK, PEEL THE TOP OF BURLAP BACK AND SCRAPE EXCESS SOIL TO EXPOSE THE ROOT COLLAR. REMOVE THE WIRE BASKET AND PEEL THE BURLAP OFF

DNR NOTES: THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT, 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10/25



4 EVERGREEN TREE PLANTING

SECTION

NTS

REVISION	DATE	DESCRIPTION	BY



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ILWACO, WA
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LANDSCAPE DETAILS

SHEET NO.

L8.01

SHEET 40 OF 40