

PARKING LOT FACILITY IMPROVEMENTS

M. JAMES GLEASON MEMORIAL BOAT RAMP

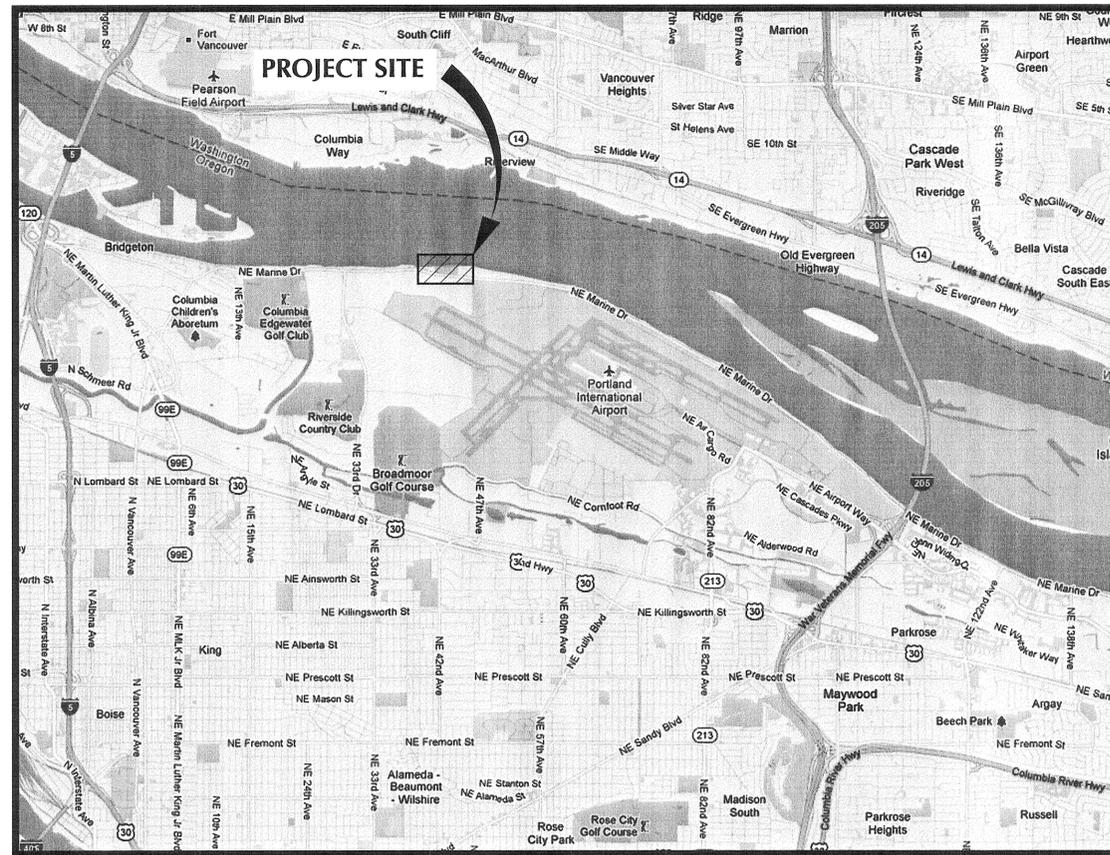
4325 NE MARINE DRIVE

PORTLAND, OREGON

PERMIT SET - AUGUST 2012

LEGEND

PROPOSED	DESCRIPTION	EXISTING
---	PROPERTY LINE	---
---	EASEMENT LINE	---
▬▬▬▬	BUILDING OUTLINE	▬▬▬▬
▬▬▬▬	SIDEWALK/CONCRETE	▬▬▬▬
▬▬▬▬	CURB	▬▬▬▬
---	SAW CUT LINE	---
---	CONTOUR	---
---	STORM DRAIN	SD
---	SANITARY SEWER	SS
---	WATER MAIN	W
---	TELECOMMUNICATIONS	T
---	POWER	E
---	GAS MAIN	GAS
///	UTILITY TO BE ABANDONED	
□	FENCELINE	
○	GUARDRAIL	
FP	FIRE PROTECTION	
■	AREA DRAIN	
□	UTILITY POLE	
□	LIGHT POLE	
□	JUNCTION BOX	
○	CLEANOUT (COTG)	
●	MANHOLE	
○	WATER METER	
○	FIRE HYDRANT	
○	GAS VALVE	
○	GAS METER	
□	SIGN	
□	UTILITY VAULT	
▬▬▬▬	AC PAVEMENT	
▬▬▬▬	PROTECTION AREA	
▬▬▬▬	AC PAVEMENT	
▬▬▬▬	PERVIOUS PAVERS	
▬▬▬▬	CONCRETE SIDEWALK	
▬▬▬▬	RIP RAP PROTECTION	
▬▬▬▬	STORMWATER FACILITY	
▬▬▬▬	LANDSCAPE AREA	



MAP FROM: GOOGLE MAP

ABBREVIATIONS

AC	ASPHALT CONCRETE	O.C.	ON CENTER
AD	AREA DRAIN	PC	POINT OF CURVATURE
BW	BOTTOM OF WALL	PCC	POINT OF COMPOUND CURVATURE
CMP	CORRUGATED METAL PIPE	PVMT	PAVEMENT
CO	CLEANOUT	R	RADIUS
DIA.	DIAMETER	S.S.	STAINLESS STEEL
E	EASTING	SD	STORM DRAIN
EL./ELEV.	ELEVATION	SDCO	STORM DRAIN CLEANOUT
EXIST.	EXISTING	SS	SANITARY SEWER
EXP./E	EXPOSURE	SSCO	SANITARY SEWER CLEANOUT
G	GAUGE	STD	STANDARD
GAL.	GALVANIZED	TC	TOP OF CURB
ID	INSIDE DIAMETER	TP	TOP OF PAVEMENT
IE	INVERT ELEVATION	TW	TOP OF WALL
LF	LINEAR FEET	TYP.	TYPICAL
MAX.	MAXIMUM	W	WATER
MIN.	MINIMUM	W/	WITH
N	NORTHING		

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NOTICE TO EXCAVATORS:
 ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
 (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS
 M-F 7am-6pm 503-226-4211 Ext.4313
 AFTER HOURS 503-226-4211
 PGE 503-464-7777
 QWEST 1-800-573-1311
 CITY BUREAU OF MAINTENANCE 503-823-1700
 CITY WATER 503-823-4874
 VERIZON 1-800-483-1000

PROJECT CONTACTS

OWNER:
 METRO
 600 NE GRAND AVE
 PORTLAND, OREGON 97232
 CELL: 503-975-4522
 CONTACT: LYDIA NEILL

CIVIL ENGINEER/PROJECT MANAGER:
 KPFF CONSULTING ENGINEERS
 111 SW FIFTH AVENUE, SUITE 2500
 PORTLAND, OREGON 97204
 TEL: 503-227-3251
 CONTACT: RYAN MILKOWSKI, PE

STRUCTURAL ENGINEER:
 KPFF CONSULTING ENGINEERS
 111 SW FIFTH AVENUE, SUITE 2600
 PORTLAND, OREGON 97204
 TEL: 503-227-3251
 CONTACT: TOMMI RUTHERFORD, PE

MECHANICAL/ELECTRICAL ENGINEER:
 MFIA, INC.
 2007 SE AST ST.
 PORTLAND, OREGON 97214
 TEL: 503-234-0548
 CONTACT: JAMES TORMEY, PE

LANDSCAPE ARCHITECT:
 MAYER/REED
 319 SW WASHINGTON ST., STE 820
 PORTLAND, OREGON 97204
 TEL: 503-223-5953
 CONTACT: RON HEIDEN

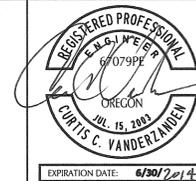
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REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



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PLOTTED BY:	pcralg
DWG NAME:	2022-01-CV.dwg
TAB NAME:	C1.0

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP

COVER SHEET

SHEET NO.	
C1.0	
SHEET	1 OF 32
RECORD NO.	312022-01

PERMIT SET - AUGUST 8, 2012
 NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

GENERAL NOTES

- SURVEY PROVIDED BY OREGON STATE MARINE BOARD. ELEVATIONS ARE BASED ON COLUMBIA RIVER VERTICAL DATUM (CRD) ESTABLISHED PER USGS BRASS CAP MARKED "RAMP" LOCATED ON THE SHOULDER OF MARINE DRIVE, IN LINE WITH THE BOAT RAMP WITH AN ELEVATION OF 37.19.
- DESIGN WATER ELEVATIONS:
 - 100YR FLOOD = 26.5 CRD
 - ORDINARY HIGH WATER = 24.0 CRD
 - ORDINARY LOW WATER = 0.0 CRD
 - DESIGN LOW WATER = -1.0 CRD
 - CONVERSION TO NAVD88 = CRD+5.5'
- CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN ON THE PLANS.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C3.0 AND C3.1 FOR PROJECT CONTROL INFORMATION.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED - DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES.
- 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.
- SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR TO REFERENCE SOILS REPORT BY GRI DATED JUNE 20, 2001 FOR THE SITE SOILS CONDITIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS, THE 2010 OREGON PLUMBING SPECIALTY CODE, AND APPLICABLE REQUIREMENTS OF THE CITY OF PORTLAND.
- 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.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). 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.
- 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 THE ENGINEER, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- THE ENGINEER AND OWNER ARE 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.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF PORTLAND EROSION CONTROL MANUAL 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.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS NEEDED.
- TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO METRO FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO THE SHERIFF'S OFFICE AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY THE OWNER'S INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRE-CONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, AND THE CONTRACTOR SHALL BE REQUIRED.

1
2

CONSTRUCTION NOTES

GENERAL

- SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- SPECIAL INSPECTION IS REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

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

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, GAS, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICTS OCCUR.
- THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE RELOCATION OF GAS, ELECTRICAL, POWER AND COMMUNICATION SERVICES, IF NECESSARY.
- THE CONTRACTOR SHALL CONCRETE ENCASE ANY UTILITIES THAT CROSS PROPOSED VEGETATED STORMWATER FACILITIES WITH LESS THAN 18" OF COVER.
- BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS, CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM AND SANITARY

- CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- BEGIN LAYING STORM DRAIN AND GRAVITY SANITARY SEWER 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.
- 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 OREGON.

WATER

- ALL WATER PIPE SHALL HAVE A MINIMUM 36-INCH COVER TO THE FINISH GRADE.
- ALL WATER FITTINGS SHALL BE PROPERLY RESTRAINED WITH MECHANICAL RESTRAINT OR THRUST BLOCKS PER DETAIL 5 ON SHEET C6.3.
- ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

EARTHWORKS

- CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- 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.

MATERIAL NOTES

- 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 REQUIRE WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.
- STORM AND GRAVITY SANITARY SEWER PIPING SHALL BE PVC PIPE, DUCTILE IRON PIPE, REINFORCED CONCRETE PIPE (RCP), OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO THE PROJECT SPECIFICATIONS, AS INDICATED IN THE PLANS.
- PRESSURE SANITARY SEWER PIPING SHALL BE BUTT FUSED HDPE PIPE CONFORMING TO THE PROJECT SPECIFICATIONS.
- PRIVATE WATER LINES 3-INCH DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING OR SCHEDULE 40 PVC CONFORMING TO THE PROJECT SPECIFICATIONS, AS INDICATED IN THE PLANS.

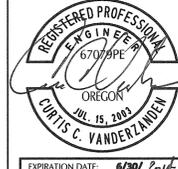
SEPARATION STATEMENT

ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT, CHAPTER 333. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 18" 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 10'. 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 10' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 18" INCHES ABOVE THE SEWER.

VEGETATED STORMWATER FACILITY NOTE

SUCCESSFUL CONSTRUCTION OF THE VEGETATED STORMWATER FACILITIES SHOWN IN THESE PLANS DEPENDS ON PROPER CONSTRUCTION SEQUENCING, MATERIALS, INSTALLATION, PROTECTION OF SUBGRADE AND EROSION CONTROL PRACTICES. THE CONTRACTOR SHALL SETUP A PRE-CONSTRUCTION MEETING WITH THE CIVIL ENGINEER TO DISCUSS THESE ITEMS.

SUBMITTAL REQUIREMENT: SUBMIT (1) 2 GALLON SAMPLE OF GROWING MEDIUM MEETING THE SOIL SPECIFICATION FOR INFILTRATION TESTING AND APPROVAL BY THE ENGINEER.



JOB No.:	312022
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CHECKED BY:	RM
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PLOTTED BY:	pcraig
DWG NAME:	2022-01-CV.dwg
TAB NAME:	C1.1

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

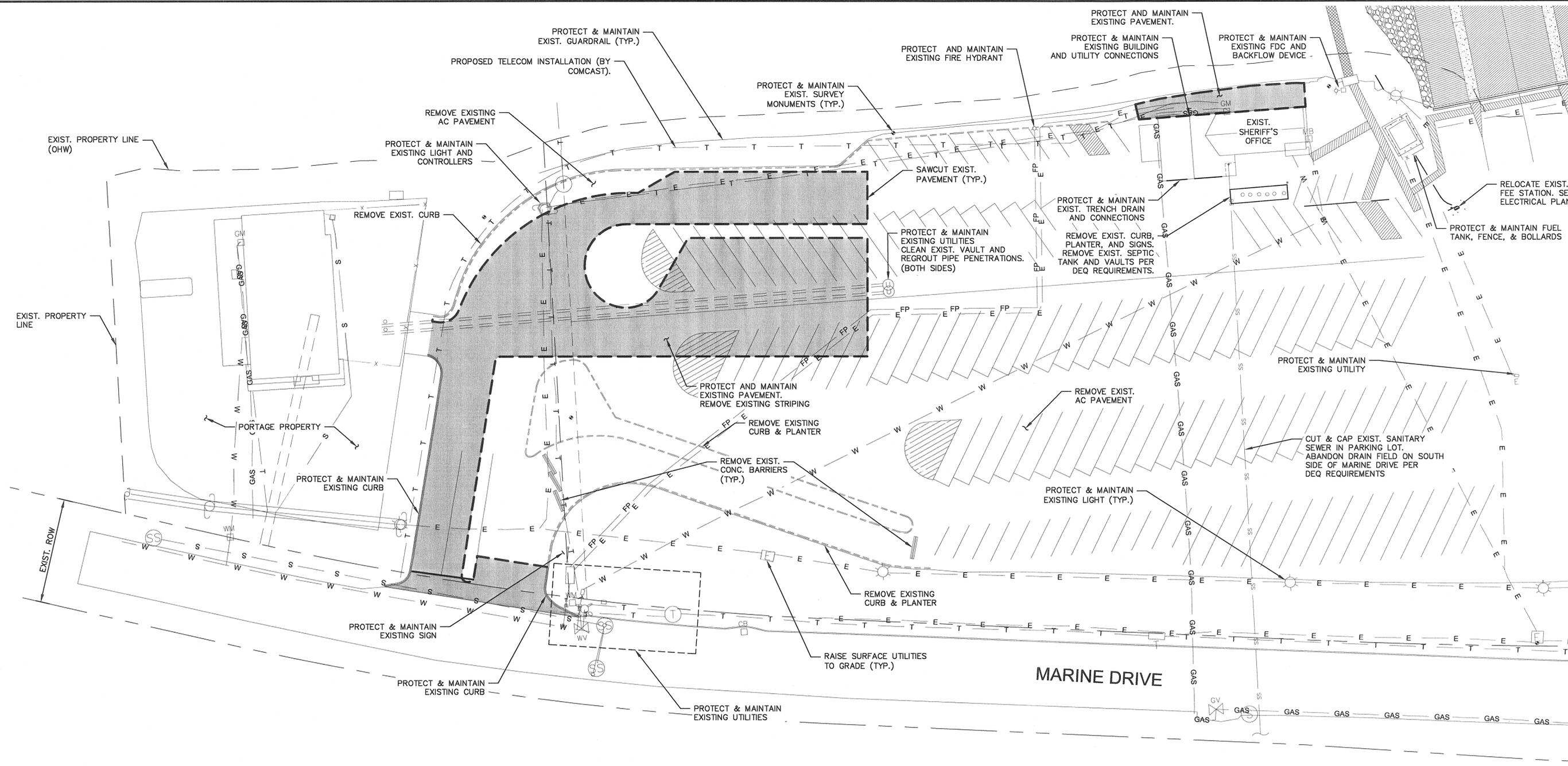
CIVIL NOTES

SHEET NO.

C1.1

SHEET 2 OF 32
RECORD NO. 312022-02

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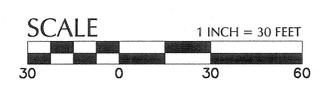


MATCHLINE - SEE SHEET C2.1

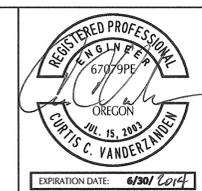
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NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

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△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



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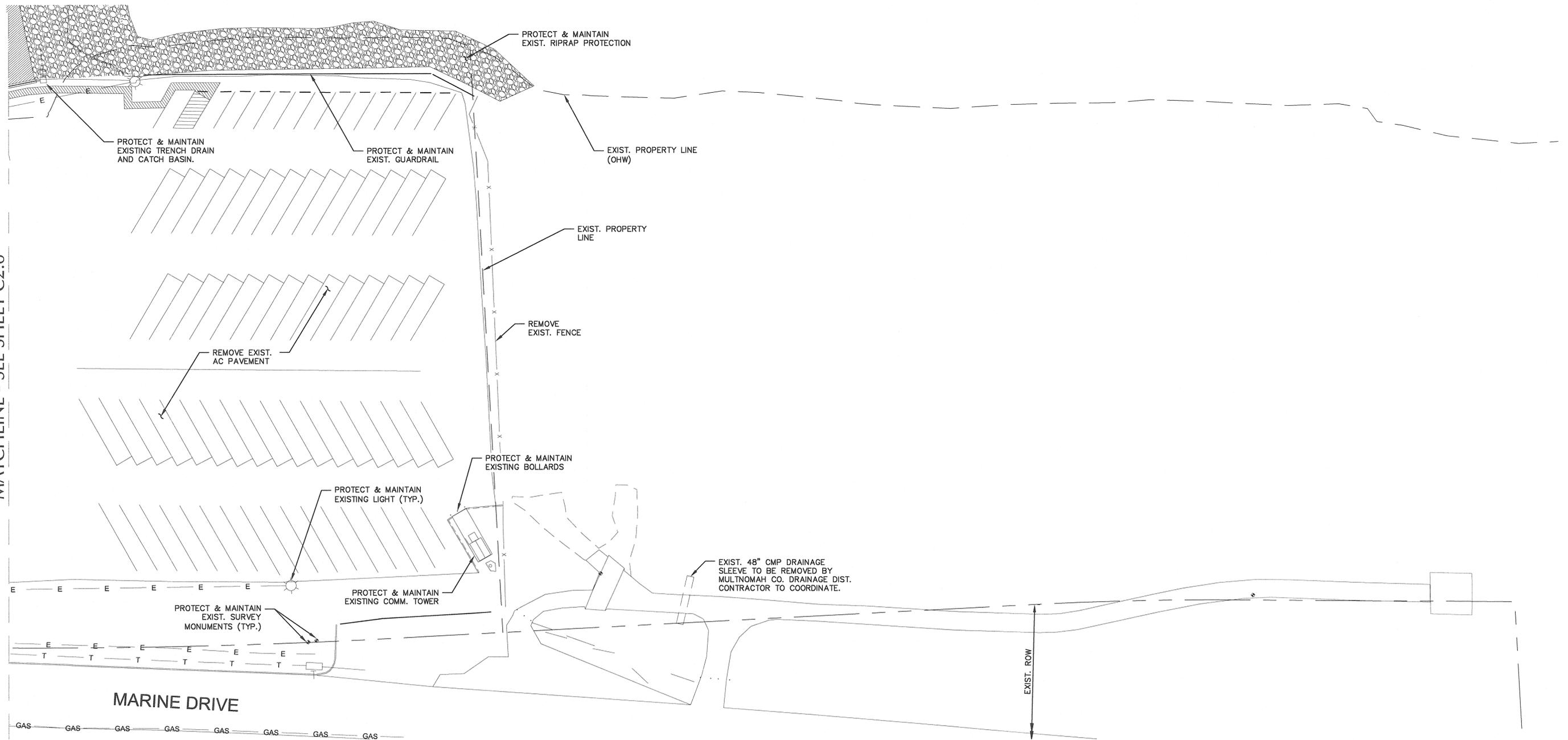
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PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP
 EXISTING CONDITIONS AND REMOVAL PLAN

SHEET NO.	
C2.0	
SHEET	3 OF 32
RECORD NO.	312022-03

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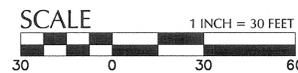
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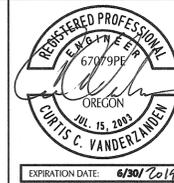
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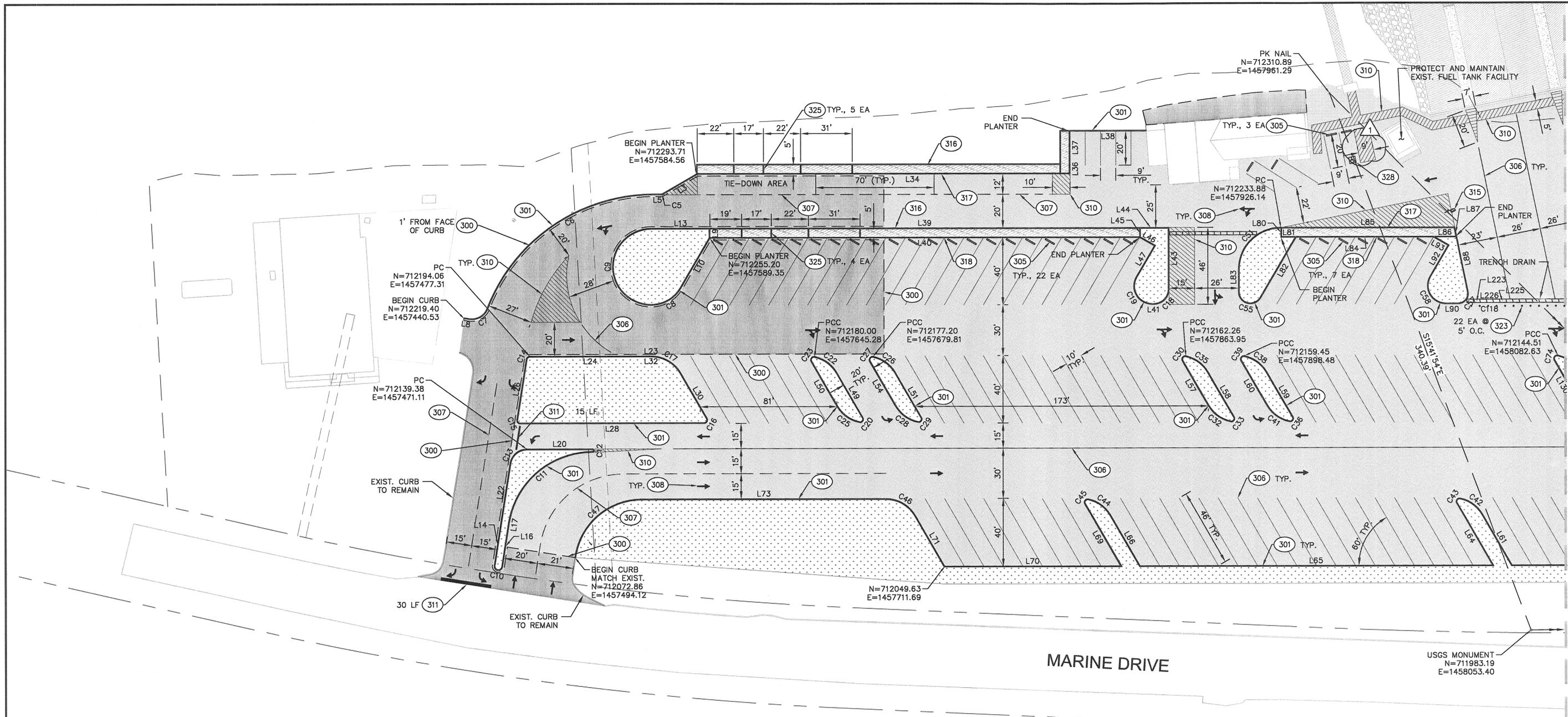
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PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP
EXISTING CONDITIONS AND REMOVAL PLAN

SHEET NO.	
C2.1	
SHEET	4 OF 32
RECORD NO.	312022-04

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MATCHLINE - SEE SHEET C3.1
 PERMIT SET - AUGUST 8, 2012
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KEY NOTES

- 300 SAWCUT AND MATCH EXISTING PAVEMENT.
- 301 CONSTRUCT CONCRETE CURB (E=6") PER DETAIL 6, SHEET C6.0.
- 302 CONSTRUCT CONCRETE CURB (E=6") WITH CURB SPILLWAYS 4' O.C. PER DETAILS 6 AND 7, SHEET C6.0.
- 303 CONSTRUCT CONCRETE CURB (E=0") PER DETAIL 6, SHEET C6.0.
- 304 CONSTRUCT CURB RAMP PER DETAILS 4 AND 5, SHEET C6.0.
- 305 INSTALL RECYCLED RUBBER WHEEL STOP PER DETAIL 8, SHEET C6.0.
- 306 INSTALL 4" SOLID WHITE PAINT LINE STRIPE, PER DETAIL 7, SHEET C6.1.
- 307 INSTALL 4" DASHED WHITE PAINT LINE STRIPE PER DETAIL 7, SHEET C6.1.
- 308 INSTALL WHITE DIRECTIONAL ARROWS AS SHOWN PER DETAIL 4, SHEET C6.1.
- 309 INSTALL WHITE CROSS WALK STRIPING PER DETAIL 5, SHEET C6.1.
- 310 INSTALL WHITE PAINTED HATCH AS SHOWN PER DETAIL 6, SHEET C6.1.
- 311 INSTALL STOP BAR PER DETAIL 2, SHEET C6.1. (LENGTH PER PLAN).
- 312 RESTROOM AND FOUNDATION BY OTHERS, CONTRACTOR TO COORDINATE.
- 313 CONSTRUCT ACCESSIBLE PATH TO BEACH PER DETAIL 2, SHEET C4.2.
- 314 INSTALL VEGETATED BANK PROTECTION PER DETAIL 9, SHEET C6.0.
- 315 RELOCATE EX. PAY STATION PER ELECTRICAL PLANS. COORDINATE LOCATION WITH OWNER.

SHEET NOTES

- 316 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=6") PER DETAIL 5, SHEET C6.2.
- 317 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=6") WITH SPILLWAYS 4' O.C. PER DETAIL 5, SHEET C6.2 AND DETAIL 7, SHEET C6.0.
- 318 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=0) PER DETAIL 5, SHEET C6.2.
- 319 CONSTRUCT BIKE/ PEDESTRIAN PATH PER DETAIL 3, SHEET C6.0.
- 320 CONSTRUCT CONCRETE STAIRS PER DETAIL 1, SHEET C6.3 (RISER COUNT PER PLAN).
- 321 CONSTRUCT THICKENED EDGE PER DETAIL 2, SHEET C6.3 WHERE ADJACENT TO RIPRAP.
- 322 CONSTRUCT RETAINING WALL PER DETAIL 4, SHEET C6.3
- 323 INSTALL REMOVABLE BOLLARDS PER DETAIL 8, SHEET C6.1. SPACING AND QUANTITY PER PLAN.
- 324 RELOCATED PAY STATION, SEE ELECTRICAL. COORDINATE LOCATION WITH OWNER.
- 325 INSTALL STORMWATER PLANTER WEIR PER DETAIL 3, SHEET C6.3.
- 326 (NOT USED)
- 327 PLACE BOULDER PER DETAIL 10, SHEET C6.0.
- 328 INSTALL ADA PARKING STALL STRIPING PER DETAIL 1, SHEET C6.1.

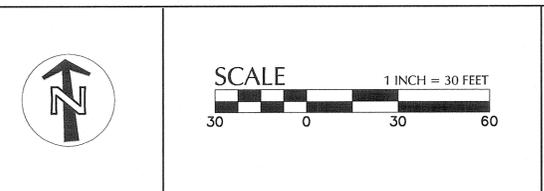
SHEET LEGEND

- 1. LINES AND CURVES ARE BASED ON FACE OF CURB OR EDGE OF PAVEMENT.
- 2. DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 3. REFER TO C3.2 FOR LINE AND CURVE DATA.
- 4. REFER TO C7.0 FOR SIGNAGE PLAN.

KEY NOTES

- PROTECT AND MAINTAIN EXISTING ASPHALT CONCRETE PAVEMENT.
- CONSTRUCT HOT-MIX ASPHALT PAVEMENT PER DETAIL 1, SHEET C6.0.
- INSTALL PERVIOUS PAVERS PER DETAIL 2, SHEET C6.0.
- CONSTRUCT CONCRETE SIDEWALK PER DETAIL 3, SHEET C6.0.
- CONSTRUCT VEGETATED STORMWATER FACILITY PER GRADING AND STORM DRAIN PLAN, SHEETS C4.0 AND C4.1.
- INSTALL LANDSCAPING PER LANDSCAPE PLANS.

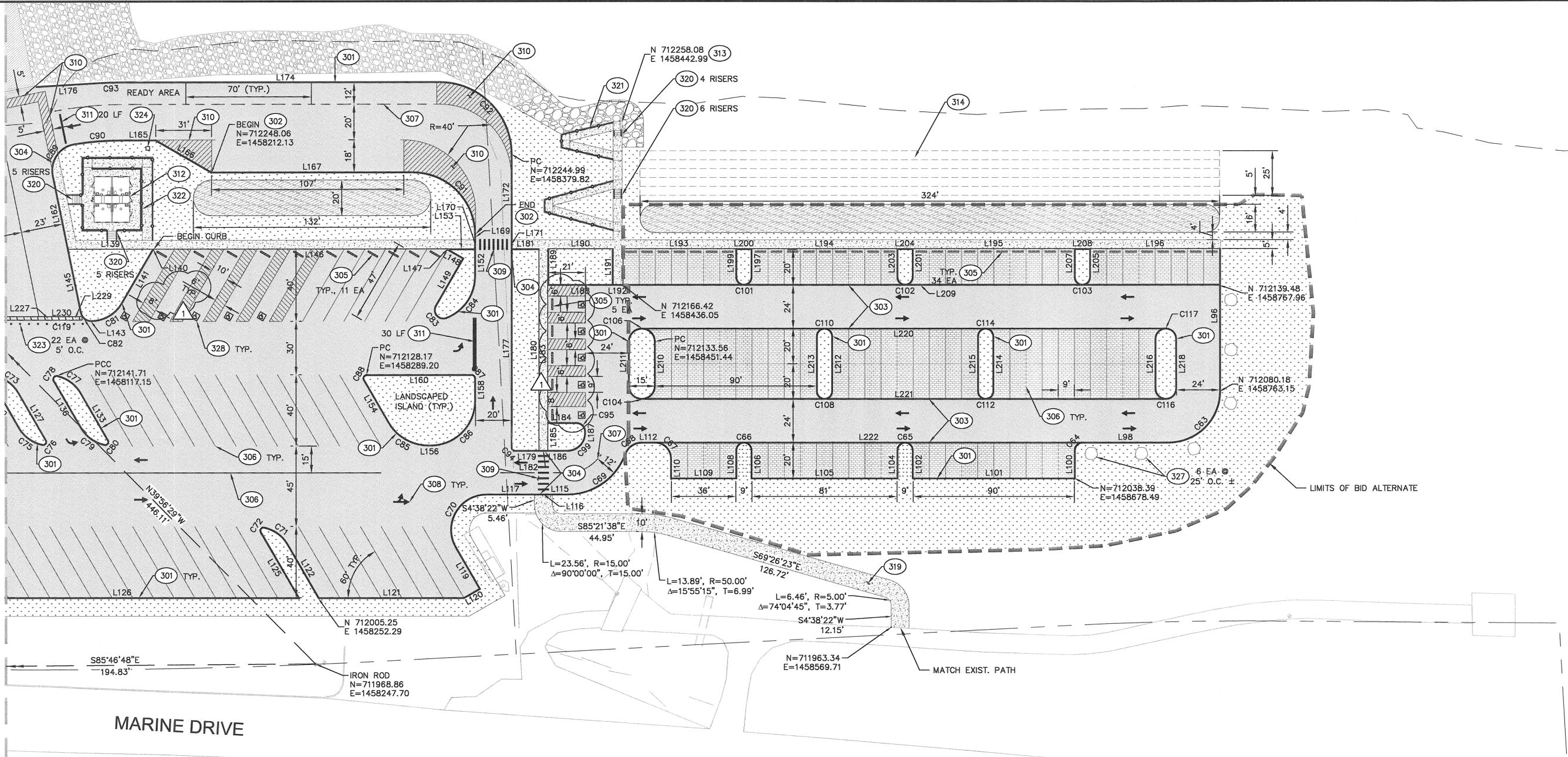
REVISION	DATE	DESCRIPTION	BY
1	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



kpff
 Consulting Engineers
 111 SW Fifth Avenue Suite 2400
 Portland, Oregon 97204
 Phone: (503) 227-3251
 Fax: (503) 274-4681

JOB No.: 312022 DESIGNED BY: PC DRAWN BY: RC CHECKED BY: RM PLOT DATE: 10/15/12 8:51am PLOTTED BY: pcrailg DWG NAME: 2022-03-ST.dwg TAB NAME: C3.0	METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736 PARKING LOT FACILITY IMPROVEMENTS M. JAMES GLEASON MEMORIAL BOAT RAMP CIVIL SITE PLAN	SHEET No. <div style="font-size: 2em; font-weight: bold; margin-bottom: 5px;">C3.0</div> SHEET 5 OF 32 RECORD NO. 312022-05
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MATCHLINE - SEE SHEET C3.0



KEY NOTES

- 300 SAWCUT AND MATCH EXISTING PAVEMENT.
- 301 CONSTRUCT CONCRETE CURB (E=6") PER DETAIL 6, SHEET C6.0.
- 302 CONSTRUCT CONCRETE CURB (E=6") WITH CURB SPILLWAYS 4' O.C. PER DETAILS 6 AND 7, SHEET C6.0.
- 303 CONSTRUCT CONCRETE CURB (E=0") PER DETAIL 6, SHEET C6.0.
- 304 CONSTRUCT CURB RAMP PER DETAILS 4 AND 5, SHEET C6.0.
- 305 INSTALL RECYCLED RUBBER WHEEL STOP PER DETAIL 8, SHEET C6.0.
- 306 INSTALL 4" SOLID WHITE PAINT LINE STRIPE, PER DETAIL 7, SHEET C6.1.
- 307 INSTALL 4" DASHED WHITE PAINT LINE STRIPE PER DETAIL 7, SHEET C6.1.
- 308 INSTALL WHITE DIRECTIONAL ARROWS AS SHOWN PER DETAIL 4, SHEET C6.1.
- 309 INSTALL WHITE CROSS WALK STRIPING PER DETAIL 5, SHEET C6.1.
- 310 INSTALL WHITE PAINTED HATCH AS SHOWN PER DETAIL 6, SHEET C6.1.
- 311 INSTALL STOP BAR PER DETAIL 2, SHEET C6.1. (LENGTH PER PLAN).
- 312 RESTROOM AND FOUNDATION BY OTHERS, CONTRACTOR TO COORDINATE.
- 313 CONSTRUCT ACCESSIBLE PATH TO BEACH PER DETAIL 2, SHEET C4.2.
- 314 INSTALL VEGETATED BANK PROTECTION PER DETAIL 9, SHEET C6.0.
- 315 RELOCATE EX. PAY STATION PER ELECTRICAL PLANS. COORDINATE LOCATION WITH OWNER.

SHEET NOTES

- 316 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=6") PER DETAIL 5, SHEET C6.2.
- 317 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=6") WITH SPILLWAYS 4' O.C. PER DETAIL 5, SHEET C6.2 AND DETAIL 7, SHEET C6.0.
- 318 CONSTRUCT VEGETATED STORMWATER PLANTER WALL (E=0) PER DETAIL 5, SHEET C6.2.
- 319 CONSTRUCT BIKE/ PEDESTRIAN PATH PER DETAIL 3, SHEET C6.0.
- 320 CONSTRUCT CONCRETE STAIRS PER DETAIL 1, SHEET C6.3 (RISER COUNT PER PLAN).
- 321 CONSTRUCT THICKENED EDGE PER DETAIL 2, SHEET C6.3 WHERE ADJACENT TO RIPRAP.
- 322 CONSTRUCT RETAINING WALL PER DETAIL 4, SHEET C6.3
- 323 INSTALL REMOVABLE BOLLARDS PER DETAIL 8, SHEET C6.1. SPACING AND QUANTITY PER PLAN.
- 324 RELOCATED PAY STATION, SEE ELECTRICAL. COORDINATE LOCATION WITH OWNER.
- 325 ~~INSTALL~~ STORMWATER PLANTER WEIR PER DETAIL 3, SHEET C6.3.
- 326 (NOT USED)
- 327 ~~PLACE~~ BOULDER PER DETAIL 10, SHEET C6.0.
- 328 INSTALL ADA PARKING STALL STRIPING PER DETAIL 1, SHEET C6.1.

SHEET LEGEND

- 1. LINES AND CURVES ARE BASED ON FACE OF CURB OR EDGE OF PAVEMENT.
- 2. DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 3. REFER TO C3.2 FOR LINE AND CURVE DATA.
- 4. REFER TO C7.0 FOR SIGNAGE PLAN.

SHEET LEGEND

- PROTECT AND MAINTAIN EXISTING ASPHALT CONCRETE PAVEMENT.
- CONSTRUCT HOT-MIX ASPHALT PAVEMENT PER DETAIL 1, SHEET C6.0.
- INSTALL PERVIOUS PAVERS PER DETAIL 2, SHEET C6.0.
- CONSTRUCT CONCRETE SIDEWALK PER DETAIL 3, SHEET C6.0.
- CONSTRUCT VEGETATED STORMWATER FACILITY PER GRADING AND STORM DRAIN PLAN, SHEETS C4.0 AND C4.1.
- INSTALL LANDSCAPING PER LANDSCAPE PLANS.

File: \\civild\1\Civil-Projects\c\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PL01\2022-03-31.dwg TAB: C3.1
 22x34 Plotted: 10/15/12 at 8:51am By: pcrailg

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC

SCALE
1 INCH = 30 FEET

111 S.W. Fifth Avenue
Suite 2400
Portland, Oregon 97204
Phone: (503) 227-3251
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REGISTERED PROFESSIONAL ENGINEER
CURTIS C. VANDERZANT
EXPIRATION DATE: 6/30/2014

JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 8:51am
PLOTTED BY:	pcrailg
DWG NAME:	2022-03-ST.dwg
TAB NAME:	C3.1

METRO, 800 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

CIVIL SITE PLAN

C3.1

SHEET 6 OF 32
RECORD NO. 312022-06

CURVE DATA TABLE

CURVE DATA TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C5	1.05'	2.00'	30°00'00"
C6	126.98'	105.00'	69°17'20"
C7	13.65'	10.00'	78°10'56"
C8	20.94'	20.00'	60°00'00"
C9	72.26'	23.00'	180°00'00"
C10	7.85'	2.50'	180°00'00"
C11	70.78'	50.00'	81°06'24"
C12	3.14'	1.00'	180°00'00"
C13	14.16'	10.00'	81°06'24"
C14	2.83'	2.00'	81°06'24"
C15	3.45'	2.00'	98°53'36"
C16	4.19'	2.00'	120°00'00"
C17	20.94'	20.00'	60°00'00"
C18	14.14'	9.00'	90°00'00"
C19	23.04'	11.00'	120°00'00"
C20	4.60'	2.00'	131°48'37"
C22	16.82'	20.00'	48°11'23"
C23	4.60'	2.00'	131°48'37"
C25	16.82'	20.00'	48°11'23"
C26	16.82'	20.00'	48°11'23"
C27	4.60'	2.00'	131°48'37"
C28	16.82'	20.00'	48°11'23"
C29	4.60'	2.00'	131°48'37"
C30	4.60'	2.00'	131°48'37"
C32	16.82'	20.00'	48°11'23"
C33	4.60'	2.00'	131°48'37"
C35	16.82'	20.00'	48°11'23"
C36	4.60'	2.00'	131°48'37"
C38	16.82'	20.00'	48°11'23"
C39	4.60'	2.00'	131°48'37"
C41	16.82'	20.00'	48°11'23"
C42	16.82'	20.00'	48°11'23"
C43	4.60'	2.00'	131°48'37"
C44	16.82'	20.00'	48°11'23"
C45	4.60'	2.00'	131°48'37"
C46	20.94'	20.00'	60°00'00"
C47	57.26'	40.00'	82°00'48"
C51	39.27'	25.00'	90°00'00"
C55	18.33'	7.00'	150°00'00"
C57	10.63'	6.00'	101°29'56"
C58	23.04'	11.00'	120°00'00"
C63	44.77'	28.50'	90°00'00"
C64	7.07'	4.50'	90°00'00"
C65	14.14'	4.50'	180°00'00"
C66	14.14'	4.50'	180°00'00"
C67	14.14'	9.00'	90°00'00"
C68	12.23'	10.00'	70°04'04"
C69	41.58'	34.00'	70°04'04"

CURVE DATA TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C70	41.88'	20.01'	119°54'29"
C71	16.82'	20.00'	48°11'23"
C72	4.60'	2.00'	131°48'37"
C73	16.82'	20.00'	48°11'23"
C74	4.60'	2.00'	131°48'37"
C75	16.82'	20.00'	48°11'23"
C76	4.60'	2.00'	131°48'37"
C77	16.82'	20.00'	48°11'23"
C78	4.60'	2.00'	131°48'37"
C79	16.82'	20.00'	48°11'23"
C80	4.60'	2.00'	131°48'37"
C81	20.94'	20.00'	60°00'00"
C82	8.22'	6.00'	78°30'04"
C83	12.26'	5.00'	140°29'13"
C84	30.33'	25.00'	69°30'47"
C85	27.23'	26.00'	60°00'00"
C86	39.27'	25.00'	90°00'00"
C87	3.14'	2.00'	90°00'00"
C88	4.19'	2.00'	120°00'00"
C89	24.22'	15.00'	92°30'51"
C90	26.34'	168.00'	8°59'05"
C91	54.98'	35.00'	90°00'00"
C92	62.83'	40.00'	90°00'00"
C93	11.86'	200.00'	3°23'49"
C94	3.14'	2.00'	90°00'00"
C95	7.85'	5.00'	90°00'00"
C99	15.71'	10.00'	90°00'00"
C101	14.14'	4.50'	180°00'00"
C102	14.14'	4.50'	180°00'00"
C103	14.14'	4.50'	180°00'00"
C104	23.56'	7.50'	180°00'00"
C106	23.56'	7.50'	180°00'00"
C108	14.14'	4.50'	180°00'00"
C110	14.14'	4.50'	180°00'00"
C112	14.14'	4.50'	180°00'00"
C114	14.14'	4.50'	180°00'00"
C116	18.85'	6.00'	180°00'00"
C117	18.85'	6.00'	180°00'00"
C118	15.40'	19.50'	45°14'23"
C119	15.40'	19.50'	45°14'23"

LINE DATA TABLE

LINE DATA TABLE		
LINE NO.	LENGTH	DIRECTION
L3	23.03'	S64°38'22"W
L5	4.46'	N85°21'38"W
L8	3.19'	N76°28'02"W
L9	6.00'	S4°38'22"W
L10	34.64'	S34°38'22"W
L13	34.64'	S85°21'38"E
L14	25.41'	S13°31'58"W
L16	25.41'	N13°31'58"E
L17	0.60'	N13°31'58"E
L20	38.98'	S85°21'38"E
L22	36.07'	S13°31'58"W
L23	0.36'	S85°21'38"E
L24	72.09'	N85°21'38"W
L26	36.44'	S13°31'58"W
L28	108.90'	S85°21'38"E
L30	31.18'	N25°21'38"W
L32	0.36'	N85°21'38"W
L34	220.87'	N85°21'38"W
L36	6.00'	S4°38'22"W
L37	19.08'	S4°38'22"W
L38	45.00'	N85°21'38"W
L39	254.03'	N85°21'38"W
L40	254.03'	N85°21'38"W
L41	0.87'	S85°21'38"E
L43	37.00'	N4°38'22"E
L44	17.37'	N85°21'38"W
L45	6.00'	S4°38'22"W
L46	10.00'	S55°21'38"E
L47	21.36'	S34°38'22"W
L49	30.74'	N25°21'38"W
L50	30.74'	S25°21'38"E
L51	30.74'	N25°21'38"W
L54	30.74'	S25°21'38"E
L57	30.74'	S25°21'38"E
L58	30.74'	N25°21'38"W
L59	30.74'	N25°21'38"W
L60	30.74'	S25°21'38"E
L61	34.64'	N25°21'38"W
L64	42.28'	S25°21'38"E
L65	207.85'	N85°21'38"W
L66	34.64'	N25°21'38"W
L69	42.28'	N25°21'38"W
L70	103.92'	N85°21'38"W
L71	34.64'	N25°21'38"W
L73	144.48'	N85°21'38"W
L81	9.00'	S85°21'38"E
L82	41.88'	S34°38'22"W
L83	13.77'	N4°38'22"E

LINE DATA TABLE		
LINE NO.	LENGTH	DIRECTION
L84	80.83'	N85°21'38"W
L85	102.55'	S85°21'38"E
L86	13.94'	S85°21'38"E
L87	6.12'	N6°51'34"W
L88	39.60'	S6°51'34"E
L90	7.23'	N85°21'38"W
L92	21.36'	N34°38'22"E
L93	10.00'	N55°21'38"W
L96	85.00'	S4°38'22"W
L98	48.00'	N85°21'38"W
L100	15.50'	S4°38'22"W
L101	90.00'	N85°21'38"W
L102	15.50'	N4°38'22"E
L104	15.50'	S4°38'22"W
L105	81.00'	N85°21'38"W
L106	15.50'	N4°38'22"E
L108	15.50'	S4°38'22"W
L109	36.00'	N85°21'38"W
L110	11.00'	N4°38'22"E
L112	7.64'	N85°21'38"W
L115	8.50'	N85°21'38"W
L116	10.00'	N85°21'38"W
L117	26.80'	N85°21'38"W
L119	26.56'	S25°21'38"E
L120	10.00'	S64°38'22"W
L121	80.83'	N85°21'38"W
L122	34.64'	N25°21'38"W
L125	42.28'	S25°21'38"E
L126	196.30'	N85°21'38"W
L127	30.74'	N25°21'38"W
L130	30.74'	S25°21'38"E
L133	30.74'	N25°21'38"W
L136	30.74'	S25°21'38"E
L139	48.10'	S85°21'38"E
L140	0.58'	S34°38'22"W
L141	34.64'	S34°38'22"W
L143	0.03'	N85°21'38"W
L145	36.43'	N6°51'34"W
L146	163.68'	N85°21'38"W
L147	0.50'	N4°38'22"E
L148	10.00'	S55°21'38"E
L149	30.29'	S34°38'22"W
L152	15.50'	N4°38'22"E
L153	15.84'	N85°21'38"W
L154	27.71'	S25°21'38"E
L156	1.24'	S85°21'38"E
L158	13.00'	N4°38'22"E
L160	58.88'	N85°21'38"W

LINE DATA TABLE		
LINE NO.	LENGTH	DIRECTION
L162	42.25'	N6°51'34"W
L165	19.15'	S85°21'38"E
L166	35.89'	S55°15'47"E
L167	112.25'	S85°21'36"E
L169	3.27'	S4°38'22"W
L170	5.00'	S4°38'22"W
L171	5.00'	N4°38'22"E
L172	48.27'	N4°38'22"E
L174	177.45'	N85°21'38"W
L176	36.00'	N88°45'26"W
L177	111.50'	S4°38'22"W
L179	13.40'	S85°21'38"E
L180	113.50'	N4°38'22"E
L181	15.40'	N85°21'38"W
L182	5.00'	N85°21'38"W
L183	77.00'	S4°38'22"W
L184	16.00'	N85°21'38"W
L185	16.00'	S4°38'22"W
L186	11.00'	S85°21'38"E
L187	1.00'	N4°38'22"E
L188	36.50'	N85°21'38"W
L189	20.50'	N4°38'22"E
L190	36.50'	S85°21'38"E
L191	20.50'	S4°38'22"W
L192	5.00'	S85°21'38"E
L193	63.50'	S85°21'38"E
L194	81.00'	S85°21'38"E
L195	90.00'	S85°21'38"E
L196	72.00'	S85°21'38"E
L197	16.00'	S4°38'22"W
L199	16.00'	N4°38'22"E
L200	9.00'	S85°21'38"E
L201	16.00'	S4°38'22"W
L203	16.00'	N4°38'22"E
L204	9.00'	S85°21'38"E
L205	16.00'	S4°38'22"W
L207	16.00'	N4°38'22"E
L208	9.00'	S85°21'38"E
L209	333.50'	S85°21'38"E
L210	25.00'	N4°38'22"E
L211	25.00'	S4°38'22"W
L212	31.00'	N4°38'22"E
L213	31.00'	S4°38'22"W
L214	31.00'	N4°38'22"E
L215	31.00'	S4°38'22"W
L216	28.00'	S4°38'22"W
L218	28.00'	N4°38'22"E
L220	292.50'	N85°21'38"W

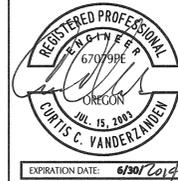
LINE DATA TABLE		
LINE NO.	LENGTH	DIRECTION
L221	292.50'	S85°21'38"E
L222	238.50'	S85°21'38"E
L223	0.50'	S4°38'22"W
L225	0.50'	N4°38'22"E
L226	15.00'	N85°21'38"W
L227	0.50'	S4°38'22"W
L229	0.50'	N4°38'22"E
L230	15.00'	N85°21'38"W
L239	6.00'	S4°38'22"W

File: \\civildsk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PL01\2022-03-ST.dwg TAB: C3.2
 22x34 Plotted: 10/15/12 at 8:52am By: pcralg

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



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 Phone: (503) 227-3251
 Fax: (503) 274-4681



JOB No.: 312022
 DESIGNED BY: PC
 DRAWN BY: RC
 CHECKED BY: RM
 PLOT DATE: 10/15/12 8:52am
 PLOTTED BY: pcralg
 DWG NAME: 2022-03-ST.dwg
 TAB NAME: C3.2

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

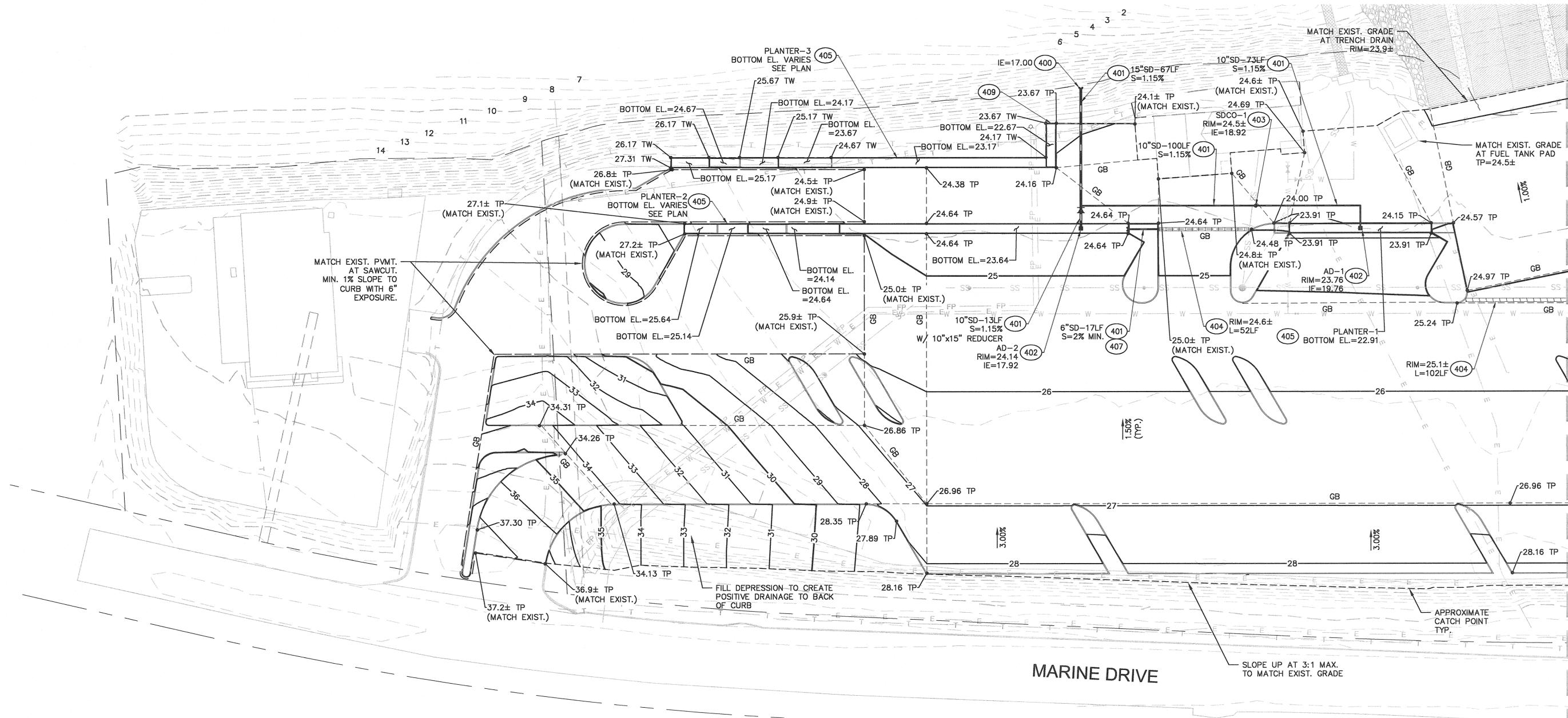
CURVE AND LINE TABLE

SHEET NO.
C3.2
 SHEET 7 OF 32
 RECORD NO.
 312022-07

PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

File: \\civildk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\Plot\2022-04-GD.dwg TAB: C4.0
 2/23/12 Plotted: 10/15/12 at 8:53am By: pcralg



MATCHLINE SEE SHEET C4.1

PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

KEY NOTES

- 400 CONSTRUCT STORM DRAIN OUTFALL TO BANK PER DETAIL 7, SHEET C6.2 (INVERT ELEVATION PER PLAN).
- 401 INSTALL STORM DRAIN PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 402 INSTALL AREA DRAIN PER DETAIL 2, SHEET C6.2.
- 403 INSTALL STORM DRAIN CLEANOUT PER DETAIL 3, SHEET C6.2.
- 404 INSTALL TRENCH DRAIN PER DETAIL 4, SHEET C6.2 (RIM ELEVATION AND LENGTH PER PLAN).
- 405 CONSTRUCT VEGETATED STORMWATER PLANTER PER DETAIL 5, SHEET C6.2 (BOTTOM ELEVATION PER PLAN).
- 406 CONSTRUCT VEGETATED STORMWATER BASIN PER DETAIL 6, SHEET C6.2 (BOTTOM AND TOP ELEVATIONS PER PLAN). SLOPE SIDES AT 3:1.
- 407 CONSTRUCT STORM DRAIN OUTFALL TO INFILTRATION FACILITY PER DETAIL 8, SHEET C6.2.
- 408 CONNECT TO RETAINING WALL FOUNDATION DRAIN.
- 409 PLANTER SPILLWAY, LOWER TOP OF WALL 2" FOR 4' WIDTH. PLACE 5CY ODOT CLASS 50 RIPRAP ON BANK SIDE OF SPILLWAY.

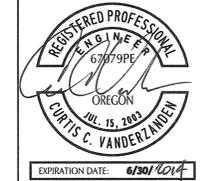
SHEET NOTES

1. CONSTRUCT TRENCH SECTION FOR NEW UTILITIES PER DETAIL 1, SHEET C6.2.
2. ADJUST EXISTING UTILITY STRUCTURES TO MATCH FINISHED GRADE AS REQUIRED.
3. SANITARY SEWER AND WATER SHOWN FOR REFERENCE. SEE SHEETS C5.0 AND C5.1 FOR ADDITIONAL INFORMATION.

SITE EARTHWORK QUANTITIES WITHIN THE FLOOD HAZARD BOUNDARY (INCLUDES PORTION OF SITE BELOW EL. 26.5)	
CUT	2,376 CY
FILL	1,636 CY
BALANCE	740 CY CUT

STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
AD-1	712226.90	1457975.15
AD-2	712239.82	1457815.87
SDCO-1	712244.69	1457916.59

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 8:53am
DWG NAME:	2022-04-GD.dwg
TAB NAME:	C4.0

METRO, 800 NE GRAND AVE., PORTLAND, OREGON 97232-2736

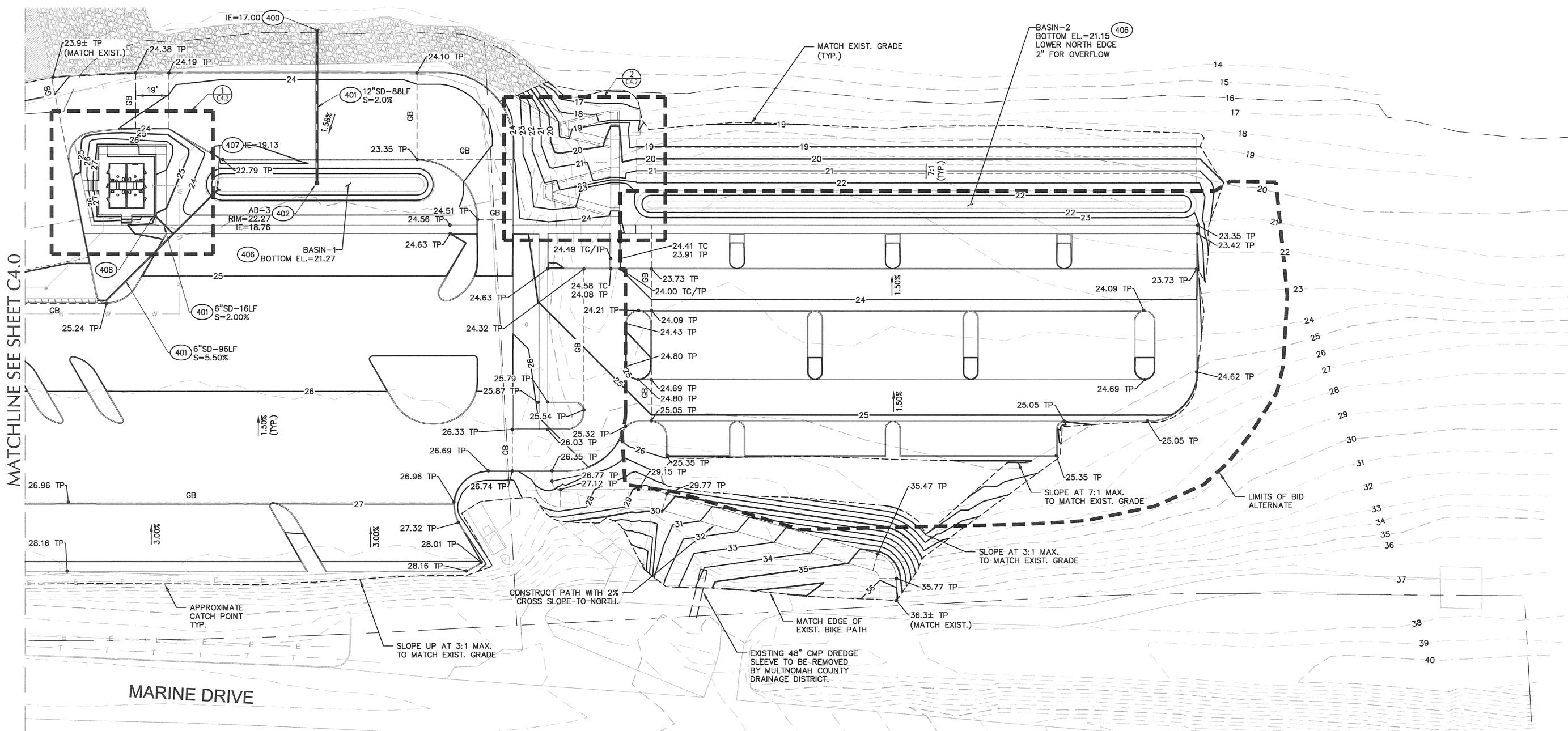
PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

GRADING AND STORM DRAIN PLAN

SHEET NO. **C4.0**

SHEET 8 OF 32

RECORD NO. 312022-08



MATCHLINE SEE SHEET C4.0

KEY NOTES

- 400 CONSTRUCT STORM DRAIN OUTFALL TO BANK PER DETAIL 7, SHEET C6.2 (INVERT ELEVATION PER PLAN).
- 401 INSTALL STORM DRAIN PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 402 INSTALL AREA DRAIN PER DETAIL 2, SHEET C6.2.
- 403 INSTALL STORM DRAIN CLEANOUT PER DETAIL 3, SHEET C6.2.
- 404 INSTALL TRENCH DRAIN PER DETAIL 4, SHEET C6.2 (RIM ELEVATION AND LENGTH PER PLAN).
- 405 CONSTRUCT VEGETATED STORMWATER PLANTER PER DETAIL 5, SHEET C6.2 (BOTTOM ELEVATION PER PLAN).
- 406 CONSTRUCT VEGETATED STORMWATER BASIN PER DETAIL 6, SHEET C6.2 (BOTTOM AND TOP ELEVATIONS PER PLAN). SLOPE SIDES AT 3:1.
- 407 CONSTRUCT STORM DRAIN OUTFALL TO INFILTRATION FACILITY PER DETAIL 8, SHEET C6.2.
- 408 CONNECT TO RETAINING WALL FOUNDATION DRAIN.
- 409 PLANTER SPILLWAY, LOWER TOP OF WALL 2" FOR 4' WIDTH. PLACE 5CY ODOT CLASS 50 RIPRAP ON BANK SIDE OF SPILLWAY.

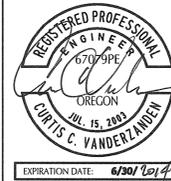
SHEET NOTES

1. CONSTRUCT TRENCH SECTION FOR NEW UTILITIES PER DETAIL 1, SHEET C6.2.
2. ADJUST EXISTING UTILITY STRUCTURES TO MATCH FINISHED GRADE AS REQUIRED.
3. SANITARY SEWER AND WATER SHOWN FOR REFERENCE. SEE SHEETS C5.0 AND C5.1 FOR ADDITIONAL INFORMATION.

STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
AD-1	712226.90	1457975.15
AD-2	712239.82	1457815.87
SDCO-1	712244.69	1457916.59

File: \\civildesk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PLT\2022-04-GD.dwg TAB:C4.1 22x34 Plotted: 10/15/12 at 8:54am By: pcrraig

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC

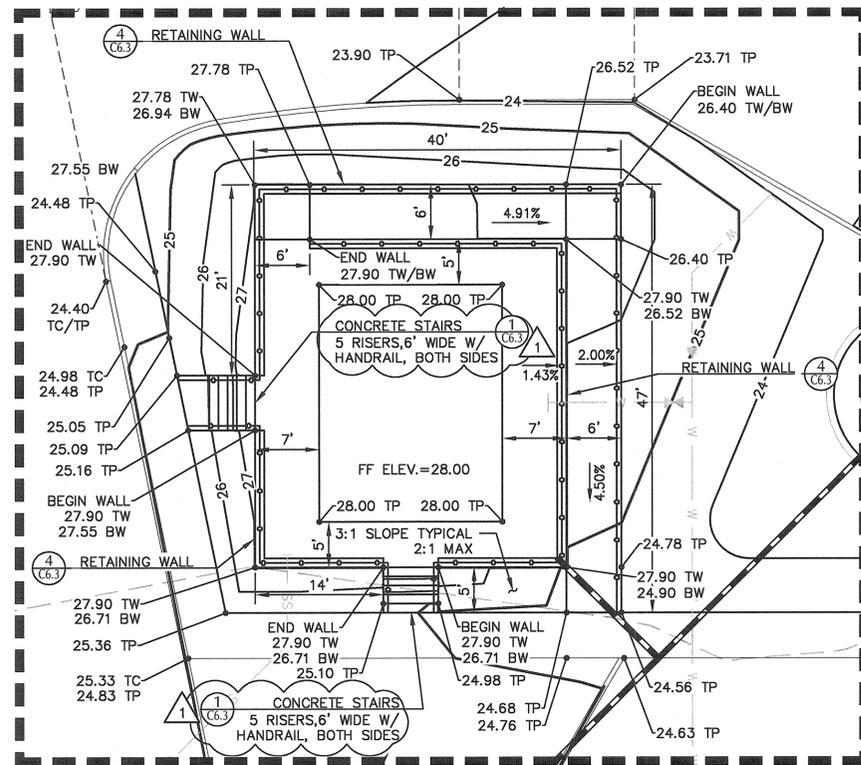


JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 8:54am
PLOTTED BY:	pcraig
DWG NAME:	2022-04-GD.dwg
TAB NAME:	C4.1

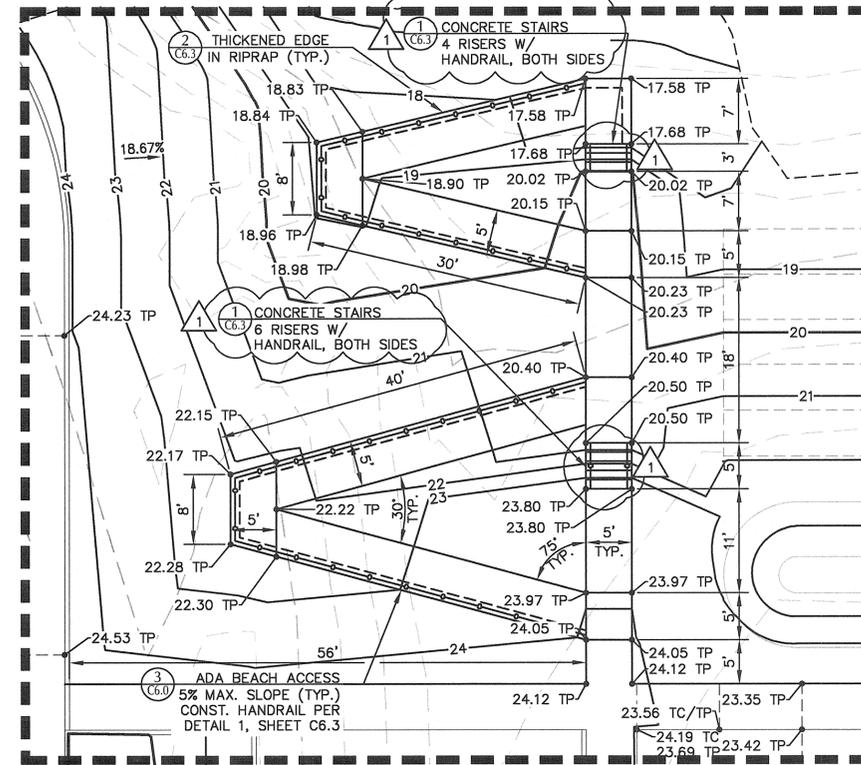
METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

GRADING AND STORM DRAIN PLAN



1 RESTROOM
SCALE: 1" = 10'



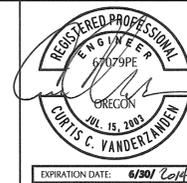
2 BEACH ACCESS RAMP
SCALE: 1" = 10'

File: \\civilds1\Civil\Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\Plot\2022-04-GD.dwg TAB: C4.2
22x34 Plotted: 10/15/12 at 11:17am By: pcrag

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



kpff
Consulting Engineers
111 SW Fifth Avenue
Suite 2400
Portland, Oregon 97204
Phone: (503) 227-3251
Fax: (503) 274-4681



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 11:17am
PLOTTED BY:	pcraig
DWG NAME:	2022-04-GD.dwg
TAB NAME:	C4.2

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

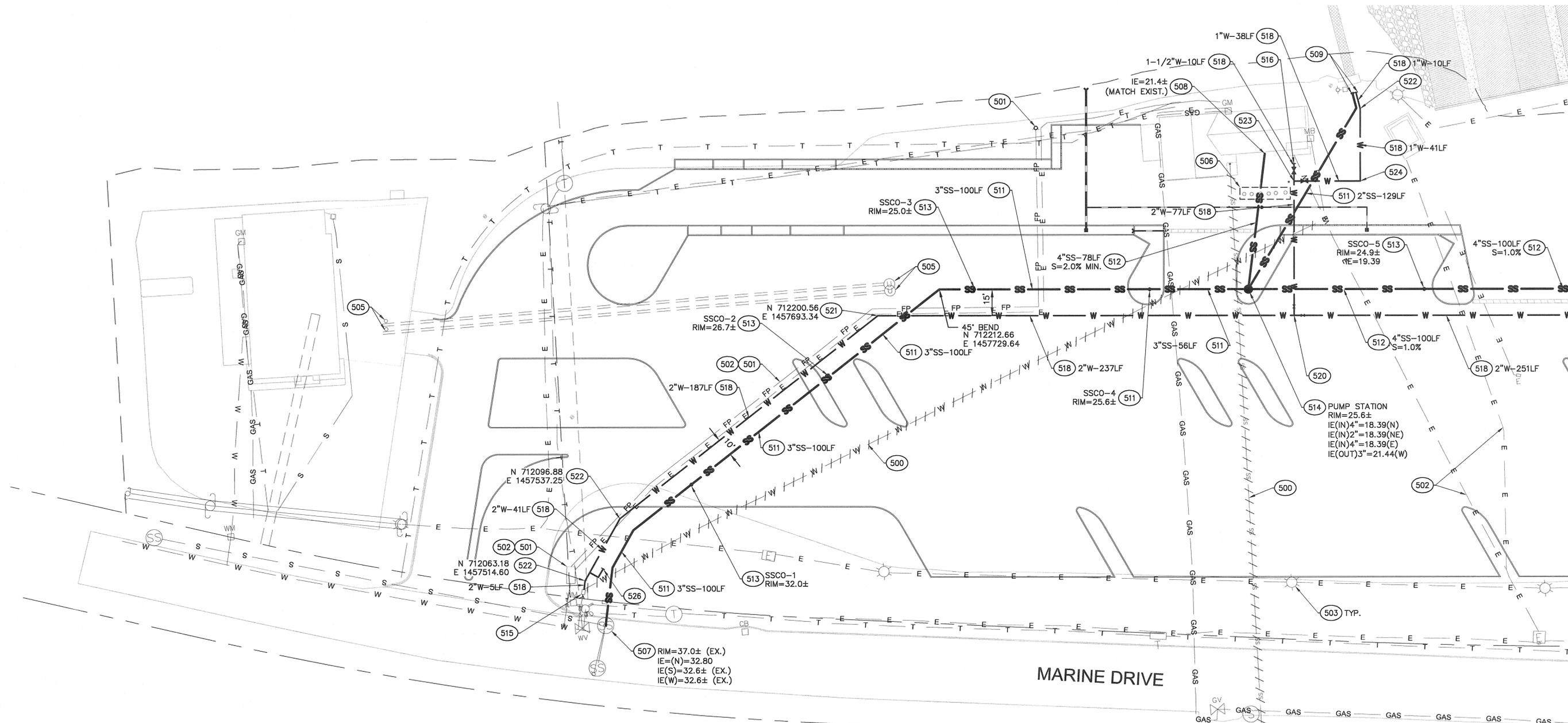
DETAILED GRADING

SHEET NO.	
C4.2	
SHEET	10 OF 32
RECORD NO.	312022-10

PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

File: \\civildat1\Civil-Projects\c\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PL01\2022-05-SS.dwg TAB:C5.0
 Plotted: 10/15/12 at 8:59am By: pcrqg



MATCHLINE SEE SHEET C5.1
 PERMIT SET - AUGUST 8, 2012
 NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

KEY NOTES

- 500 ABANDON EXISTING UTILITY, SEE SHEETS C2.0 & C2.1.
- 501 PROTECT AND MAINTAIN EXISTING FIRE PROTECTION SYSTEM.
- 502 PROTECT AND MAINTAIN EXISTING ELECTRICAL SYSTEM.
- 503 PROTECT EXISTING LIGHTING INSTALLATION.
- 504 PROTECT EXISTING COMMUNICATIONS TOWER AND CONNECTED UTILITIES.
- 505 CLEAN EXISTING UTILITY VAULT AND REGROUT PIPE PENETRATIONS.
- 506 REMOVE EXISTING SANITARY SEWER FACILITIES.
- 507 CONNECT TO EXISTING SANITARY SEWER MANHOLE. COORDINATE WORK WITH CITY OF PORTLAND.
- 508 CONNECT TO EXISTING SANITARY SEWER CLEANOUT. FIELD VERIFY POINT OF DISCHARGE FOR BUILDING.
- 509 CONNECT TO EXISTING GANGWAY DOMESTIC WATER AT BACKFLOW DEVICE AND PRESSURE SEWER. VERIFY UTILITY SIZE AND LOCATION PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- 510 CONNECT TO RESTROOM SANITARY SEWER SERVICE. SEE PLUMBING PLANS FOR DETAILS.
- 511 INSTALL PRESSURE SANITARY SEWER PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 512 INSTALL GRAVITY SANITARY SEWER PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 513 INSTALL SANITARY SEWER CLEANOUT PER DETAIL 3, SHEET C6.2 (RIM AND INVERT ELEVATIONS PER PLAN).
- 514 INSTALL SANITARY SEWER PUMP STATION. SEE PLUMBING PLANS FOR DETAILS.
- 515 CONNECT TO EXISTING 1-1/2" WATER METER. INSTALL 1-1/2" x 2" REDUCER.
- 516 CONNECT TO EXISTING 1-1/2" WATER SERVICE TO BUILDING. FIELD VERIFY LOCATION.
- 517 CONNECT TO RESTROOM WATER SERVICE. SEE PLUMBING PLANS FOR DETAILS.
- 518 INSTALL WATER PIPE, VALVES, AND FITTINGS WITH 3' MINIMUM BURIAL DEPTH (SIZE AND LENGTH PER PLAN).

SHEET NOTES

- 519 INSTALL CAP AND 2x4 MARKER.
- 520 FURNISH AND INSTALL
 - 1 - 2"x2"x2" TEE
 - 2 - 2" GATE VALVES
 - THRUST BLOCKS
- 521 INSTALL 45° BEND.
- 522 INSTALL 22.5° BEND.
- 523 FURNISH AND INSTALL
 - 1 - 2"x2"x1" TEE
 - 1 - 1-1/2" x 2" REDUCER
 - 1 - 1-1/2" GATE VALVE
 - 1 - 1" GATE VALVE
- 524 INSTALL 90° BEND.
- 525 INSTALL 2" GATE VALVE WITH BOX & LID.
- 526 INSTALL 1-1/2" IRRIGATION POINT OF CONNECTION.
- 1. CONSTRUCT TRENCH SECTION FOR NEW UTILITIES PER DETAIL 1, SHEET C6.2.
- 2. ADJUST EXISTING UTILITY STRUCTURES TO MATCH FINISHED GRADE AS REQUIRED.
- 3. STORM DRAIN SHOWN FOR REFERENCE. SEE SHEETS C4.0 AND C4.1 FOR ADDITIONAL INFORMATION.
- 4. CONSTRUCT PRESSURE SEWER LINES SO AS NOT TO CREATE HIGH OR LOW POINTS IN THE LINE BETWEEN CONNECTION POINTS.
- 5. RESTRAIN ALL WATER FITTINGS WITH MECHANICAL RESTRAINTS OR THRUST BLOCKS PER DETAIL 5, SHEET C6.3.

STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
PUMP STATION	712198.41	1457905.16
SSCO-1	712112.98	1457579.56
SSCO-2	712168.31	1457662.86
SSCO-3	712211.05	1457749.27
SSCO-4	712202.97	1457848.94
SSCO-5	712190.33	1458004.69

REVISION	DATE	DESCRIPTION	BY
10/15/12		CITY PERMIT CHECKSHEET RESPONSE	PC

SCALE

Consulting Engineers
 111 SW Fifth Avenue
 Suite 2400
 Portland, Oregon 97204
 Phone: (503) 227-3251
 Fax: (503) 274-4681

JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 8:59am
PLOTTED BY:	pcraig
DWG NAME:	2022-05-SS.dwg
TAB NAME:	C5.0

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

SANITARY SEWER AND WATER PLAN

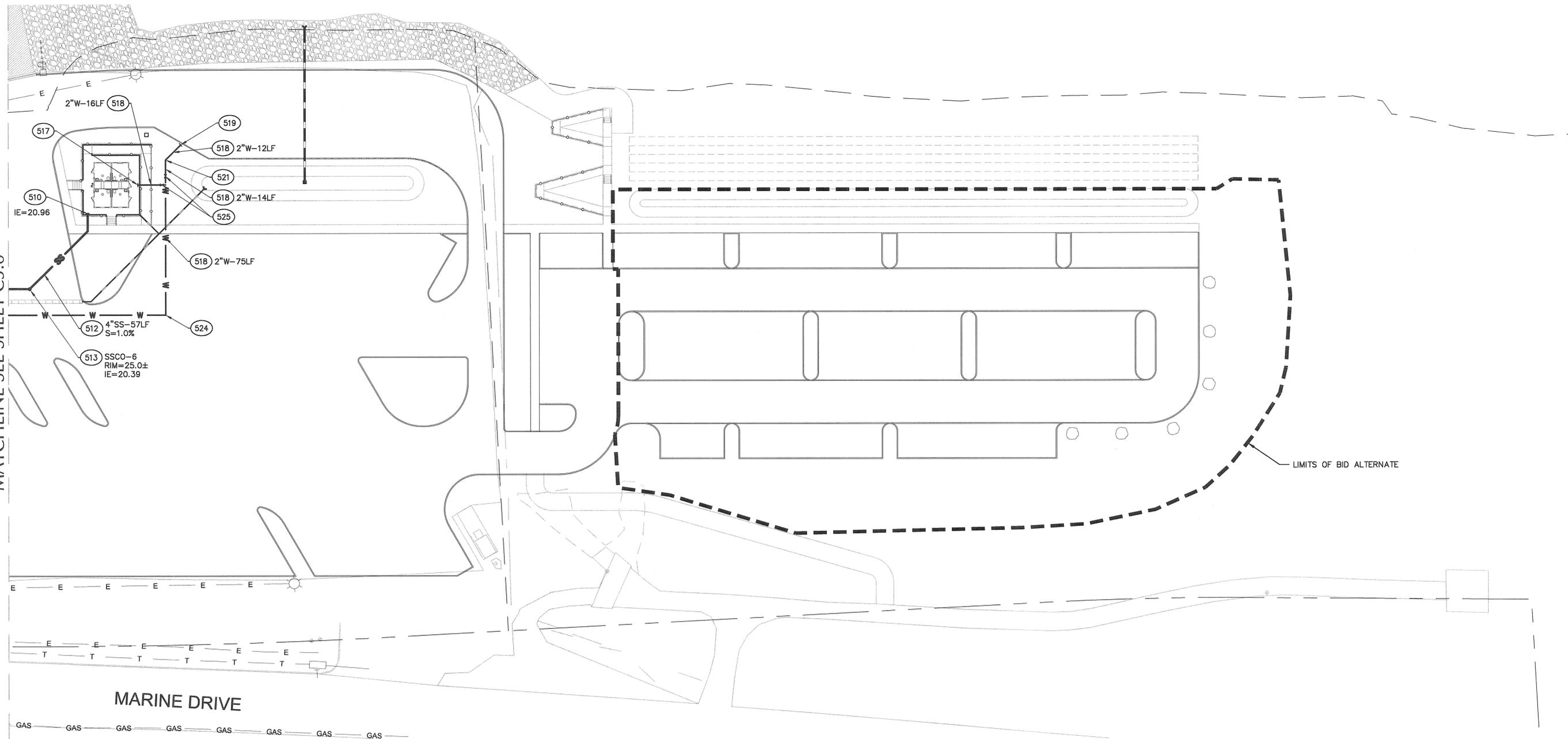
SHEET No.

C5.0

SHEET 11 OF 32
RECORD NO. 312022-11

File: \\civildsk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PL01\2022-05-SS.dwg TAB: C5.1
 22x34 Plotted: 10/15/12 at 9:00am By: pcrraig

MATCHLINE SEE SHEET C5.0



KEY NOTES

- 500 ABANDON EXISTING UTILITY, SEE SHEETS C2.0 & C2.1.
- 501 PROTECT AND MAINTAIN EXISTING FIRE PROTECTION SYSTEM.
- 502 PROTECT AND MAINTAIN EXISTING ELECTRICAL SYSTEM.
- 505 CLEAN EXISTING UTILITY VAULT AND REGROUT PIPE PENETRATIONS.
- 506 REMOVE EXISTING SANITARY SEWER FACILITIES.
- 507 CONNECT TO EXISTING SANITARY SEWER MANHOLE. COORDINATE WORK WITH CITY OF PORTLAND.
- 508 CONNECT TO EXISTING SANITARY SEWER CLEANOUT. FIELD VERIFY POINT OF DISCHARGE FOR BUILDING.
- 509 CONNECT TO EXISTING GANGWAY DOMESTIC WATER AT BACKFLOW DEVICE AND PRESSURE SEWER. VERIFY

- 510 CONNECT TO RESTROOM SANITARY SEWER SERVICE. SEE PLUMBING PLANS FOR DETAILS.
- 511 INSTALL PRESSURE SANITARY SEWER PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 512 INSTALL GRAVITY SANITARY SEWER PIPE AND FITTINGS (SIZE AND LENGTH PER PLAN).
- 513 INSTALL SANITARY SEWER CLEANOUT PER DETAIL 3, SHEET C6.2 (RIM AND INVERT ELEVATIONS PER PLAN).
- 514 INSTALL SANITARY SEWER PUMP STATION. SEE

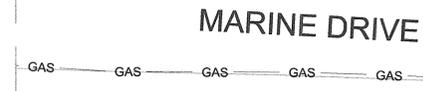
- 515 CONNECT TO EXISTING 1-1/2" WATER METER. INSTALL 1-1/2" x 2" REDUCER.
- 516 CONNECT TO EXISTING 1-1/2" WATER SERVICE TO BUILDING. FIELD VERIFY LOCATION.
- 517 CONNECT TO RESTROOM WATER SERVICE. SEE PLUMBING PLANS FOR DETAILS.
- 518 INSTALL WATER PIPE, VALVES, AND FITTINGS WITH 3' MINIMUM BURIAL DEPTH (SIZE AND LENGTH PER PLAN).
- 519 INSTALL CAP AND 2x4 MARKER.
- 520 FURNISH AND INSTALL
1 - 2"x2"x2" TEE
2 - 2" GATE VALVES

- 521 INSTALL 45° BEND.
- 522 INSTALL 22.5° BEND.
- 523 FURNISH AND INSTALL
1 - 2"x2"x1" TEE
1 - 1-1/2" x 2" REDUCER
1 - 1-1/2" GATE VALVE
1 - 1" GATE VALVE
- 524 INSTALL 90° BEND.
- 525 INSTALL 2" GATE VALVE WITH BOX & LID.
- 526 INSTALL 1-1/2" IRRIGATION POINT OF CONNECTION.

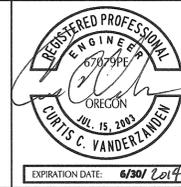
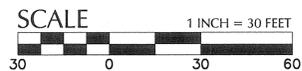
SHEET NOTES

1. CONSTRUCT TRENCH SECTION FOR NEW UTILITIES PER DETAIL 1, SHEET C6.2.
2. ADJUST EXISTING UTILITY STRUCTURES TO MATCH FINISHED GRADE AS REQUIRED.
3. STORM DRAIN SHOWN FOR REFERENCE. SEE SHEETS C4.0 AND C4.1 FOR ADDITIONAL INFORMATION.
4. CONSTRUCT PRESSURE SEWER LINES SO AS NOT TO CREATE HIGH OR LOW POINTS IN THE LINE BETWEEN CONNECTION POINTS.
5. RESTRAIN ALL WATER FITTINGS WITH MECHANICAL RESTRAINTS OR THRUST BLOCKS PER DETAIL 5, SHEET C6.3.

STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
SSCO-6	712182.24	1458104.36



REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 9:00am
PLOTTED BY:	pcraig
DWG NAME:	2022-05-SS.dwg
TAB NAME:	C5.1

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

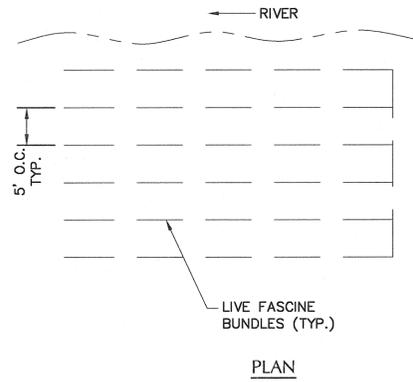
PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

SANITARY SEWER AND WATER PLAN

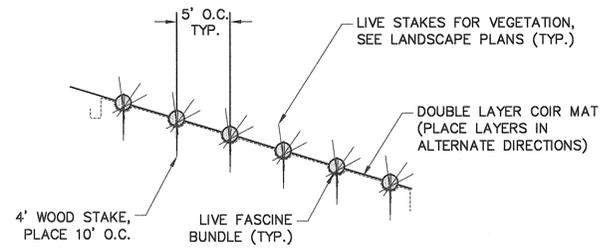
SHEET NO.	
C5.1	
SHEET	12 OF 32
RECORD NO.	312022-12

PERMIT SET - AUGUST 8, 2012
 NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

File: \\civildesk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PLT\2022-06-01.dwg TAB: C6.0
 22x34 Plotted: 10/15/12 at 9:46am By: pcralg

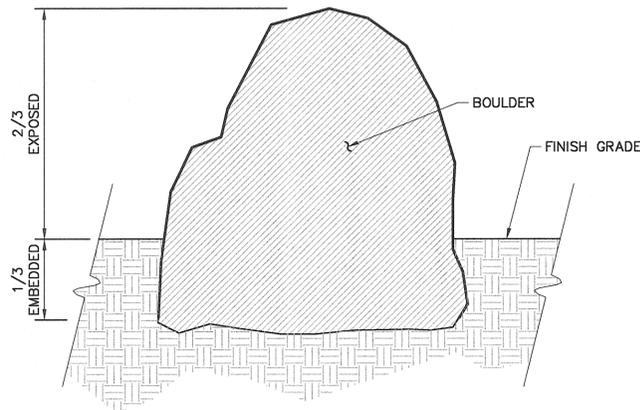


PLAN



SECTION

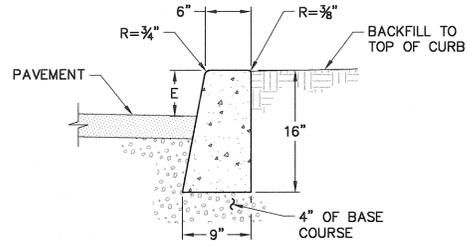
9 VEGETATED BANK PROTECTION
SCALE: NTS



NOTES:

- BOLDERS: CAMAS BASALT GRAY NATURAL BOLDERS, APPROXIMATELY SIZE 3' TALL x 3'-5' WIDE.
- IRRIGATION HEADS SHALL BE ADJUSTED IN FIELD TO AVOID BOLDERS.
- COORDINATE BOULDER PLACEMENT IN FIELD WITH OWNER'S REPRESENTATIVE.

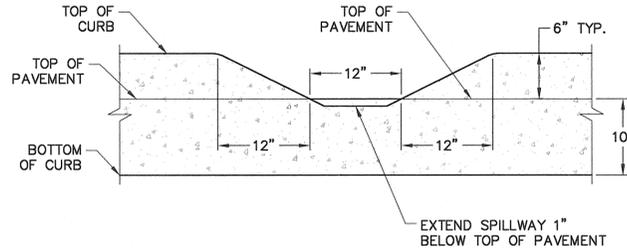
10 BOULDER
SCALE: NTS



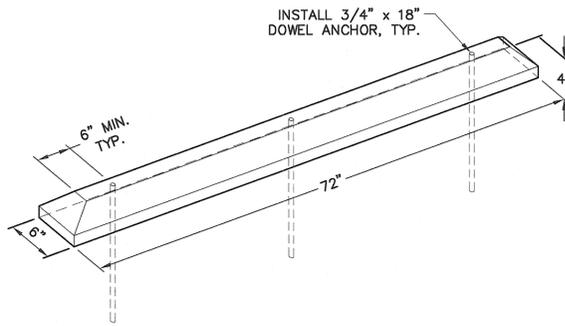
NOTES:

- CURB EXPOSURE 'E'=6" FOR STANDARD CURB AND 0" FOR FLUSH CURB, TYP. VARY AS SHOWN ON PLANS.
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMP. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
- SLOPE THE TOP OF CURB TOWARD THE DRIVING SURFACE AT 2%.
- DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

6 CONCRETE CURB
SCALE: NTS



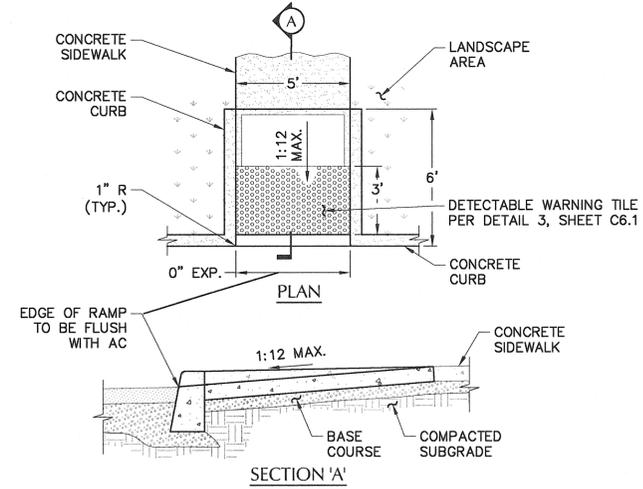
7 CURB SPILLWAY
SCALE: NTS



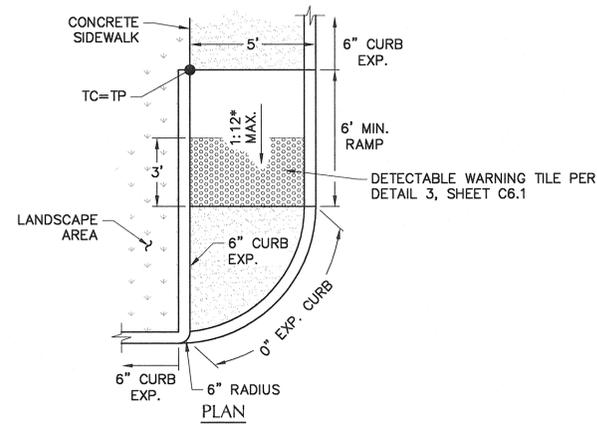
NOTES:

- DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM TO MANUFACTURER'S PRODUCTS AS APPROVED BY ENGINEER.

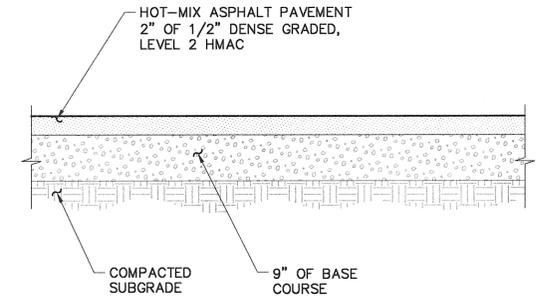
8 RECYCLED RUBBER WHEEL STOP
SCALE: NTS



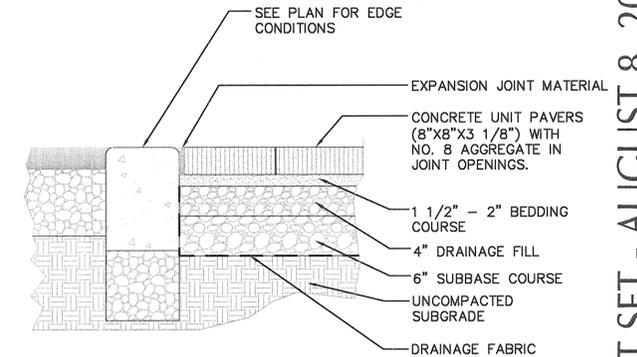
4 CURB RAMP
SCALE: NTS



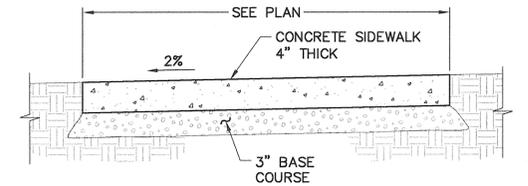
5 CURB RAMP ON RADIUS
SCALE: NTS



1 HOT-MIX ASPHALT PAVEMENT
SCALE: NTS

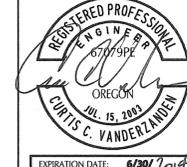


2 PERVIOUS PAVERS
SCALE: NTS



- NOTES:
- CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMP. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.

3 CONCRETE SIDEWALK
SCALE: NTS



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 9:46am
PLOTTED BY:	pcralg
DWG NAME:	2022-06-DT.dwg
TAB NAME:	C6.0

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

DETAILS

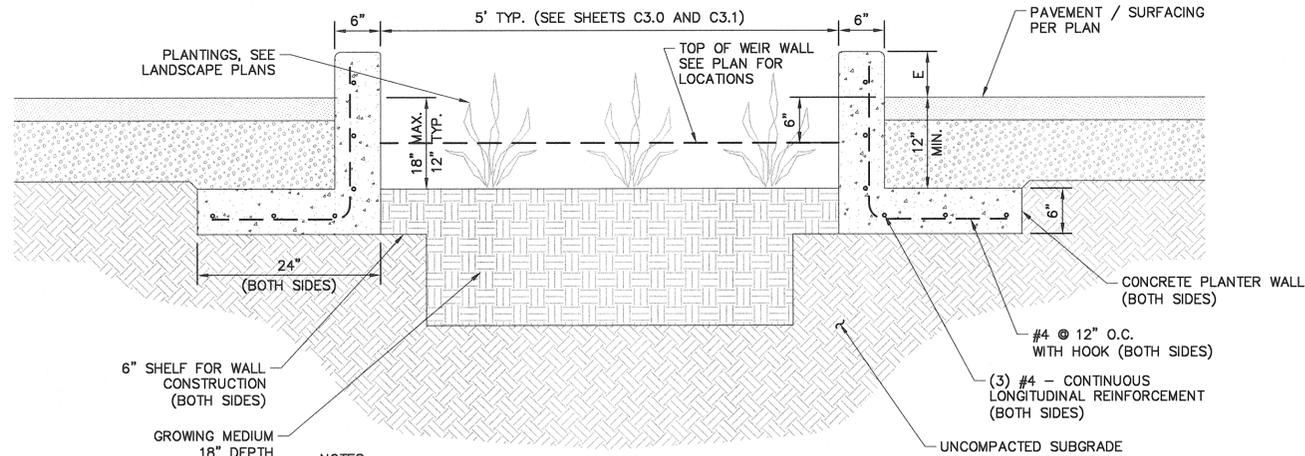
SHEET NO.

C6.0

SHEET 13 OF 32
RECORD NO. 312022-13

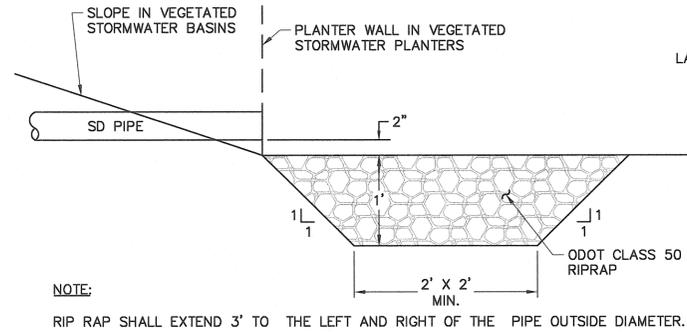
PERMIT SET - AUGUST 8, 2012
 NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



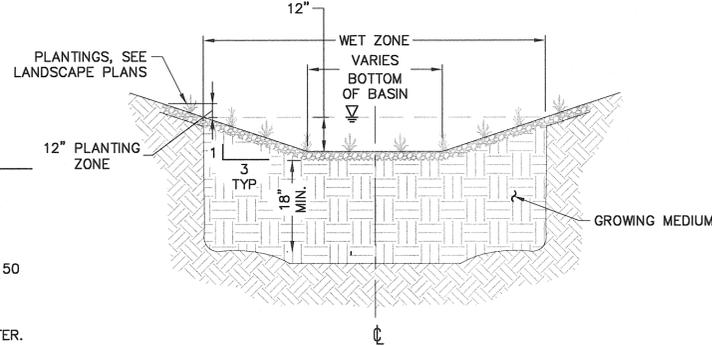
- NOTES:**
- VARY WALL EXPOSURE 'E' AS SHOWN ON PLANS.
 - CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING. CONSTRUCT EXPANSION JOINTS AT 200' MAX. SPACING.
 - SLOPE THE TOP OF WALL AT 2% TOWARD THE PLANTER.
 - CONSTRUCT SPILLWAYS PER DETAIL 7, SHEET C6.0 WHERE CALLED FOR ON PLANS.
 - CONSTRUCT WEIR WALLS PER DETAIL 3, SHEET C6.3.

5 VEGETATED STORMWATER PLANTER
SCALE: NTS

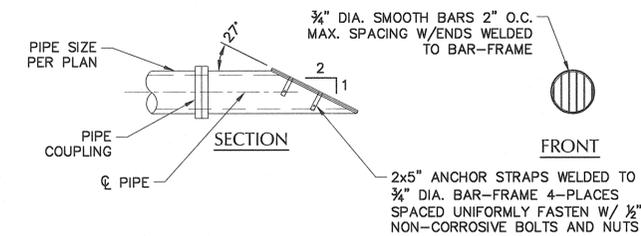


NOTE:
RIP RAP SHALL EXTEND 3' TO THE LEFT AND RIGHT OF THE PIPE OUTSIDE DIAMETER.

8 STORM DRAIN OUTFALL TO INFILTRATION FACILITY
SCALE: NTS

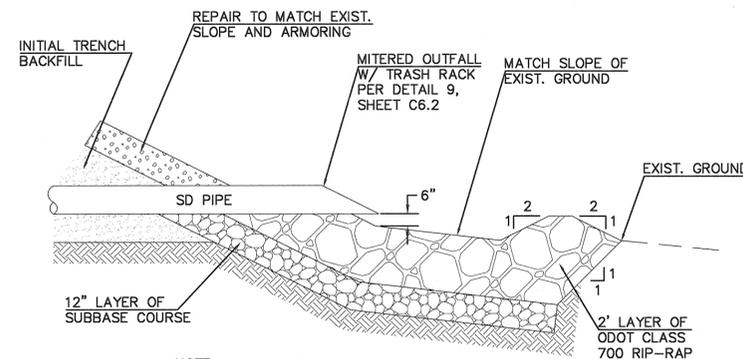


6 VEGETATED STORMWATER BASIN
SCALE: NTS



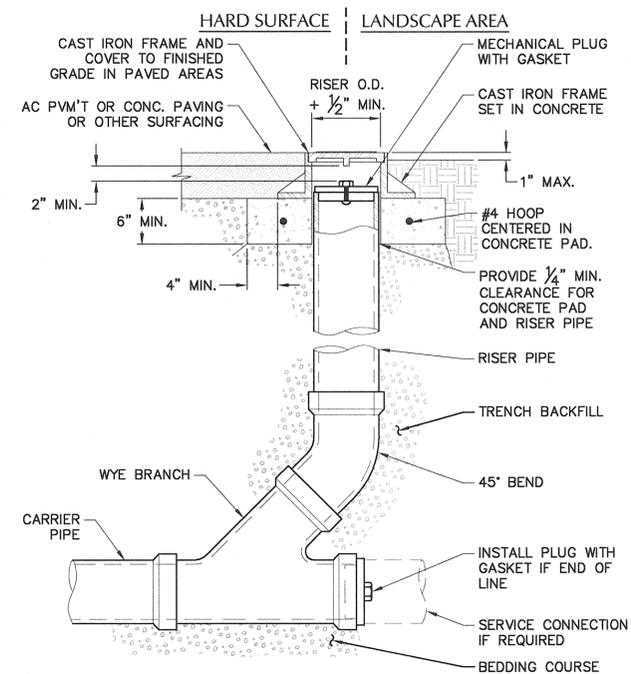
- NOTES:**
- ALL TRASH RACK PARTS AND CONNECTORS MUST BE ASPHALT COATED GALVANIZED STEEL (TREATMENT 1 OR BETTER).
 - WELD AT ALL JOINTS.
 - SHOP DRAWINGS REQUIRED.

9 MITERED OUTFALL W/ TRASH RACK
SCALE: NTS



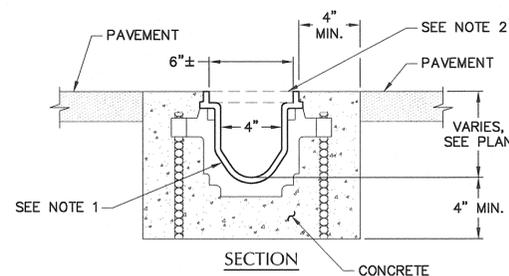
NOTE:
RIP RAP SHALL EXTEND 3' TO THE LEFT AND RIGHT OF THE PIPE OUTSIDE DIAMETER.

7 STORM DRAIN OUTFALL TO BANK
SCALE: NTS



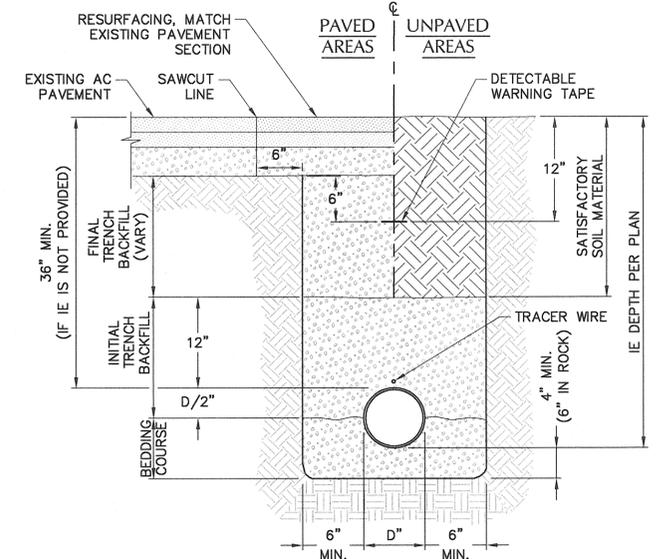
- NOTES:**
- CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.
 - FOR CARRIER PIPE SIZE 10" AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
 - FOR CARRIER PIPE SIZE 12" AND LARGER, RISER PIPE SHALL BE 10" DIA.
 - RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.
 - PRESSURE SANITARY SEWER CLEANOUTS SHALL BE FUSION FITTINGS AS REQUIRED FOR HDPE PIPE. PROVIDE PRESSURE RATED CAP.

3 STORM DRAIN / SANITARY SEWER CLEANOUT
SCALE: NTS

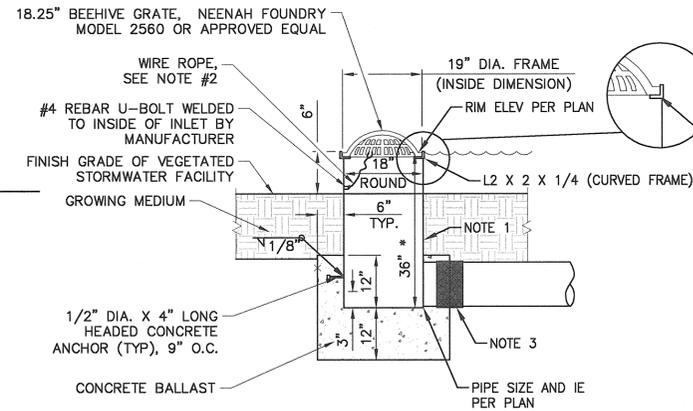


- NOTES:**
- TRENCH DRAIN SHALL BE NEUTRAL-SLOPED 6" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.
 - TRENCH DRAIN GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE - CLASS C.
 - TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

4 TRENCH DRAIN
SCALE: NTS



1 TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS



*SHALLOWER INLETS ALLOWED (18" MIN.) WHERE EXISTING CONDITIONS PROHIBIT 36" DEPTH INLETS.

- NOTES:**
- 10 GA. STEEL PLATE, BITUMINOUS COATED BASIN AS MANUFACTURED BY GIBSON STEEL, GRATEMASTER OR APPROVED EQUAL.
 - WIRE ROPE TO BE 1/8" - 3/16" STAINLESS STEEL, 7 STRANDS OF 19 WIRES, CLAMP CABLE AROUND GRATE AND U-BOLT AS SHOWN.
 - CONNECT PVC PIPE TO STEEL OUTLET PIPE WITH FLEXIBLE COUPLING BY FERNCO OR APPROVED EQUAL. ALL METAL PARTS SHALL BE STAINLESS STEEL.

2 AREA DRAIN
SCALE: NTS

File: \\civildk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\PL01\2022-06-DT.dwg TAB: C6.2
22x34 Plotted: 10/15/12 at 9:47am By: pcrraig



111 S.W. Fifth Avenue
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JOB No.: 312022
DESIGNED BY: PC
DRAWN BY: RC
CHECKED BY: RM
PLOT DATE: 10/15/12 9:47am
PLOTTED BY: pcrraig
DWG NAME: 2022-06-DT.dwg
TAB NAME: C6.2

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PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

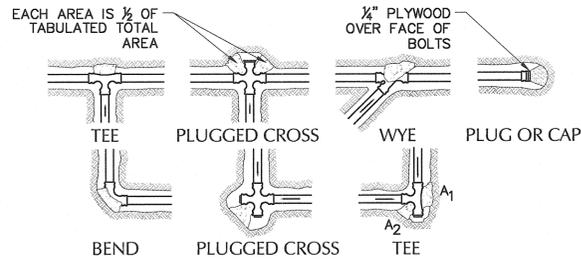
DETAILS

SHEET NO.

C6.2

SHEET 15 OF 32
RECORD NO. 312022-15

PERMIT SET - AUGUST 8, 2012
NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF



- CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
- KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
- THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLAN; e.g. 15 INDICATES 15 SQUARE FEET BEARING AREA REQUIRED.
- IF NOT SHOWN ON PLANS REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUST IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS (ES) STATED IN THE SPECIAL SPECIFICATIONS.
- BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

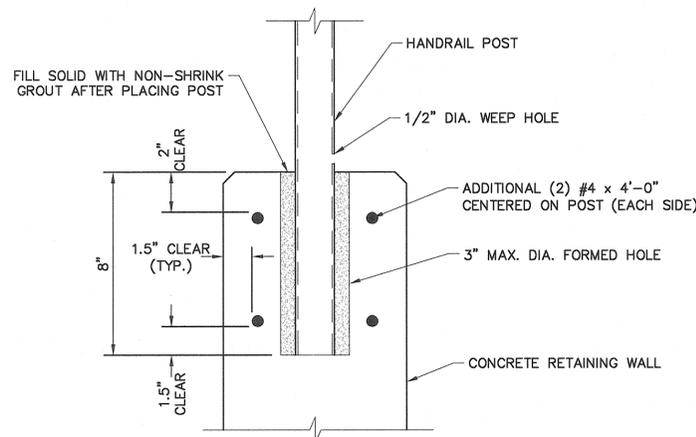
BEARING AREA OF THRUST BLOCK IN SQUARE FOOT

FITTING SIZE	TEE, WYE, PLUG OR CAP		90° BEND PLUGGED CROSS		TEE PLUGGED ON RUN		45° BEND	22½° BEND	11½° BEND
	A1	A2	A1	A2	A1	A2			
4	1.0	1.4	1.9	1.4	1.0				
6	2.1	3.0	4.3	3.0	1.6				
8	3.8	5.3	7.6	5.4	2.9				
10	5.9	8.4	11.8	8.4	4.6				

NOTE: ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 p.s.i.. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURE AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150)X(2000/SOIL BEARING STRESS)X(TABLE VALUE).

5 THRUST BLOCK

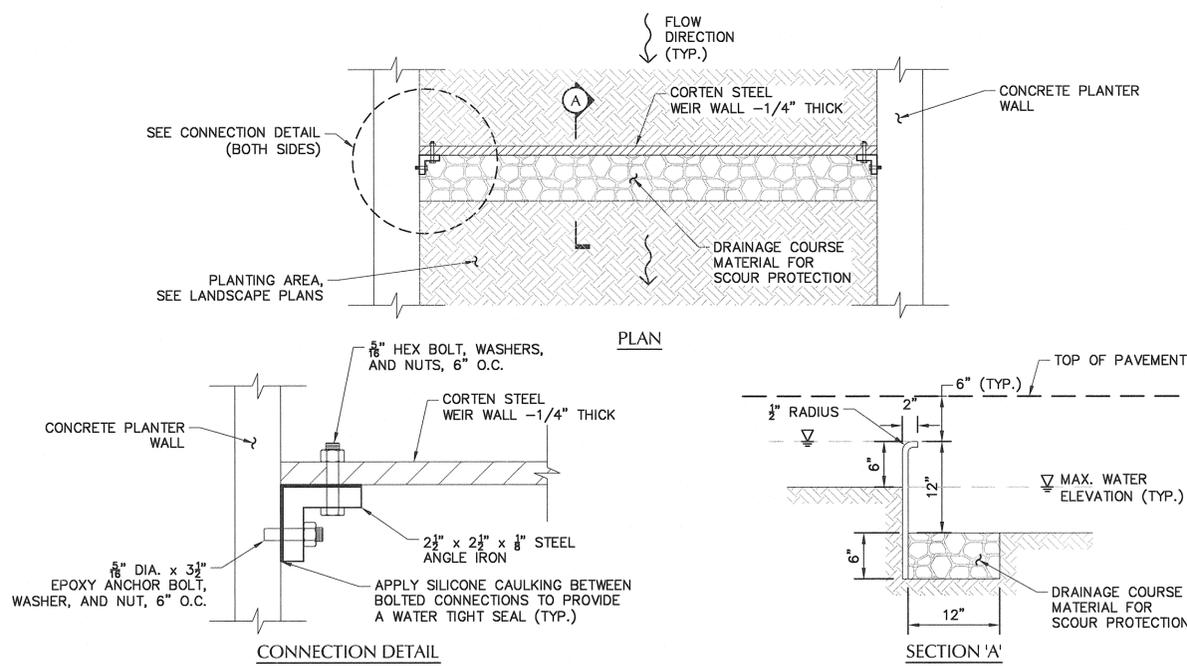
SCALE: NTS



- NOTES:
- PLACE VERTICAL REINFORCEMENT 1.5" MINIMUM CLEAR OF FORMED HOLE.
 - SEE DETAIL 4, THIS SHEET FOR ADDITIONAL WALL REINFORCEMENT.

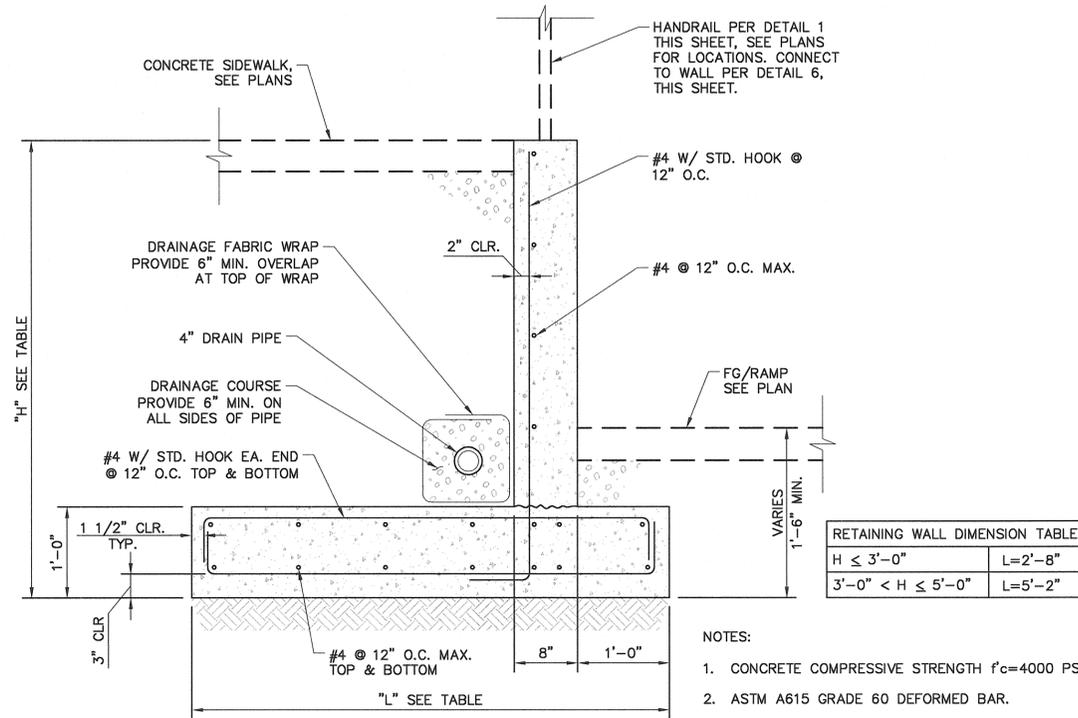
6 HANDRAIL CONNECTION TO RETAINING WALL

SCALE: NTS



3 STORMWATER PLANTER WEIR

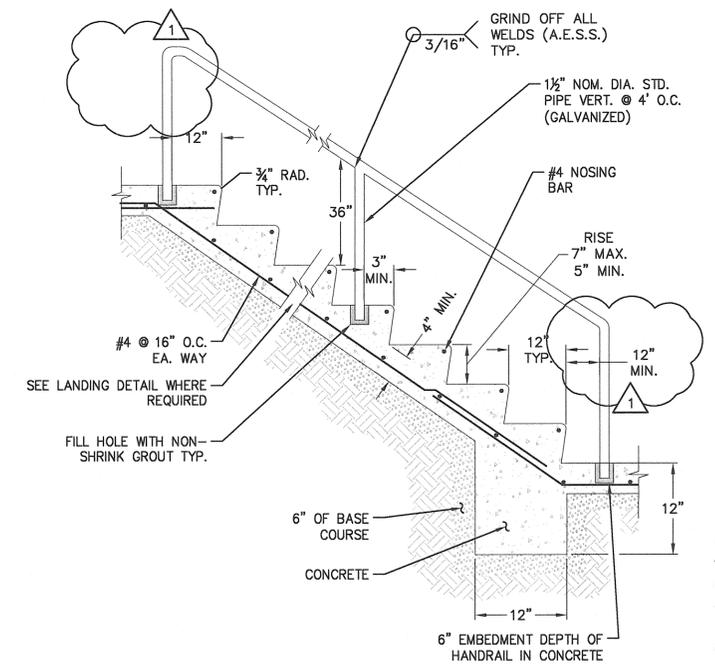
SCALE: NTS



- NOTES:
- CONCRETE COMPRESSIVE STRENGTH $f'_c=4000$ PSI
 - ASTM A615 GRADE 60 DEFORMED BAR.
 - ANTI-GRAFFITI COATING TO BE APPLIED TO ALL EXPOSED SURFACES.
 - INSTALL BACKFLOW VALVE ON DRAIN PIPE DISCHARGE AND CONNECT TO STORM DRAINAGE SYSTEM.

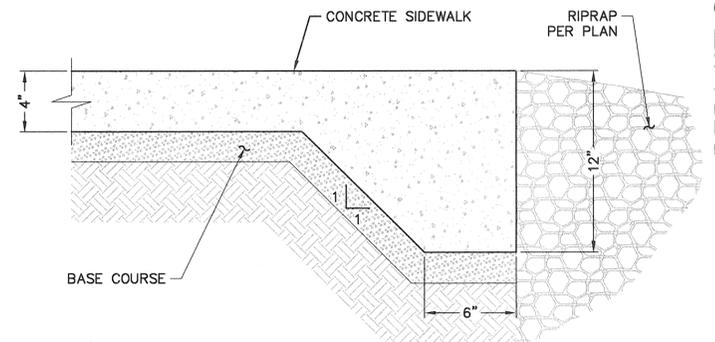
4 RETAINING WALL

SCALE: NTS



1 STAIR AND HANDRAIL

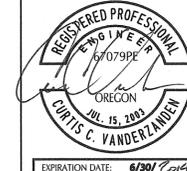
SCALE: NTS



2 CONCRETE THICKENED EDGE

SCALE: NTS

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22x34 Plotted: 10/15/12 at 11:14am By: pcralg



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 11:14am
PLOTTED BY:	pcralg
DWG NAME:	2022-06-DT.dwg
TAB NAME:	C6.3

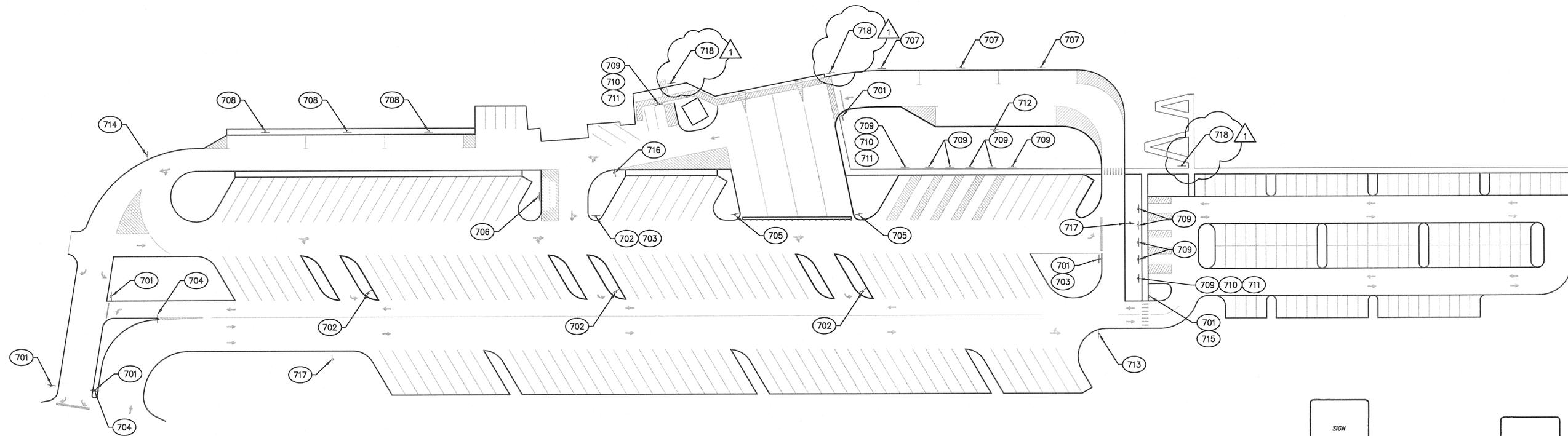
METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736
PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

SHEET NO. **C6.3**
SHEET 16 OF 32
RECORD NO. 312022-16

PERMIT SET - AUGUST 8, 2012
NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

REVISION	DATE	DESCRIPTION	BY
10/15/12	CITY PERMIT CHECKSHEET RESPONSE		PC

File: \\civildat1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg-&-Restroom\CAD\LOT\2022-07-SI.dwg TAB: C7.0
 2/23/12 Plotted: 10/15/12 at 9:49am By: pcrraig



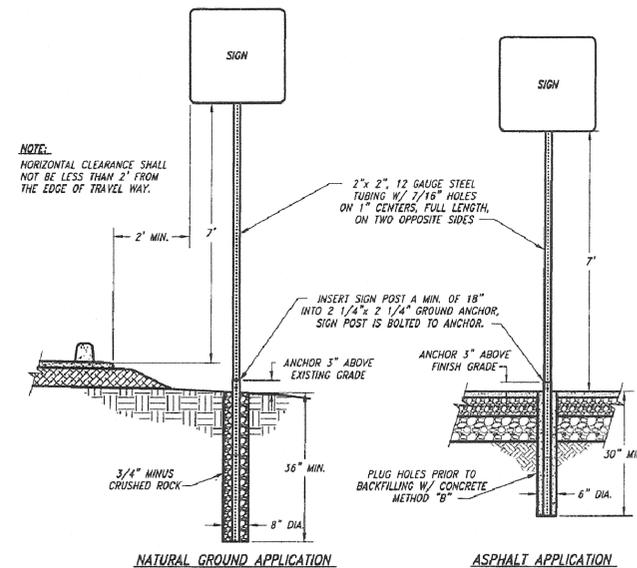
KEY NOTES

- 701 INSTALL STOP SIGN PER DETAIL 1, SHEET C7.1.
- 702 INSTALL YIELD SIGN PER DETAIL 2, SHEET C7.1.
- 703 INSTALL NO RIGHT TURN SIGN PER DETAIL 3, SHEET C7.1.
- 704 INSTALL KEEP RIGHT SIGN PER DETAIL 4, SHEET C7.1.
- 705 INSTALL NO PARKING - MANEUVER AREA SIGN PER DETAIL 5, SHEET C7.1.
- 706 INSTALL NO PARKING - RESERVED SHERIFF SIGN PER DETAIL 6, SHEET C7.1.
- 707 INSTALL READY AREA SIGN PER DETAIL 7, SHEET C7.1.
- 708 INSTALL TIE-DOWN AREA SIGN PER DETAIL 8, SHEET C7.1.
- 709 INSTALL DISABLED PARKING SIGN PER DETAIL 9, SHEET C7.1.

- 710 INSTALL VAN ACCESSIBLE SIGN PER DETAIL 10, SHEET C7.1.
- 711 INSTALL WHEELCHAIR USER ONLY SIGN PER DETAIL 11, SHEET C7.1.
- 712 INSTALL 15 MIN. PARKING ZONE SIGN PER DETAIL 12, SHEET C7.1.
- 713 INSTALL DIRECTIONAL SIGN 1 PER DETAIL 13, SHEET C7.1.
- 714 INSTALL DIRECTIONAL SIGN 2 PER DETAIL 14, SHEET C7.1.
- 715 INSTALL DIRECTIONAL SIGN 3 PER DETAIL 15, SHEET C7.1.
- 716 INSTALL DIRECTIONAL SIGN 4 PER DETAIL 16, SHEET C7.1.
- 717 INSTALL DIRECTIONAL SIGN 5 PER DETAIL 17, SHEET C7.1.
- 718 INSTALL PEDESTRIAN WARNING SIGN PER DETAIL 18, SHEET C7.1.

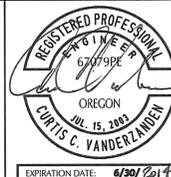
SHEET NOTES

1. ALL SIGNS SHALL BE INSTALLED ON METAL SIGN POSTS PER DETAIL 1, THIS SHEET.
2. ALL SIGNS SHALL COMPLY WITH OREGON STATE MARINE BOARD STANDARDS.



1 SIGN POST INSTALLATION
 SCALE: NTS

REVISION	DATE	DESCRIPTION	BY
1	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 9:49am
PLOTTED BY:	pcraig
DWG NAME:	2022-07-SI.dwg
TAB NAME:	C7.0

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PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP

SIGNAGE PLAN

SHEET NO.	
C7.0	
SHEET 17	OF 32
RECORD NO.	312022-17

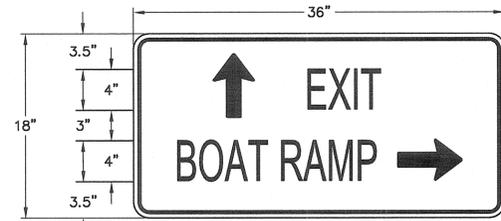
PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

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 22x34 Plotted: 10/15/12 at 9:50am By: perdig



14 DIRECTIONAL SIGN 2
 SCALE: NTS



15 DIRECTIONAL SIGN 3
 SCALE: NTS



16 DIRECTIONAL SIGN 4
 SCALE: NTS



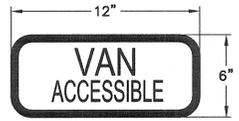
17 DIRECTIONAL SIGN 5
 SCALE: NTS



18 PEDESTRIAN WARNING SIGN
 SCALE: NTS



9 DISABLED PARKING SIGN
 SCALE: NTS



10 VAN ACCESSIBLE SIGN
 SCALE: NTS



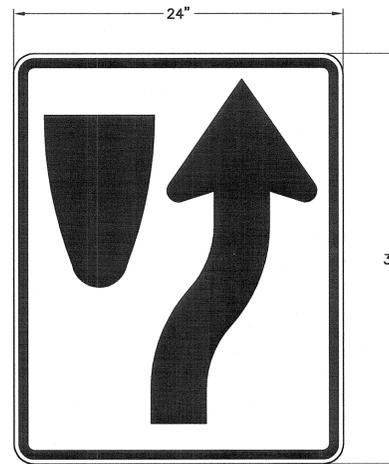
11 WHEELCHAIR USER ONLY SIGN
 SCALE: NTS



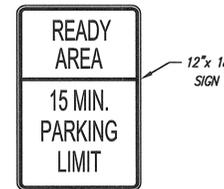
12 15 MIN. PARKING ZONE SIGN
 SCALE: NTS



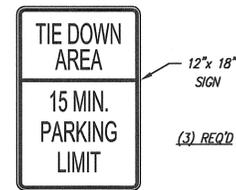
13 DIRECTIONAL SIGN 1
 SCALE: NTS



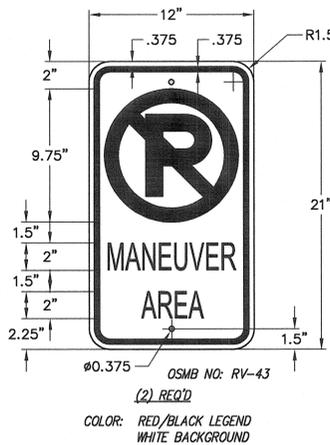
4 KEEP RIGHT SIGN
 SCALE: NTS



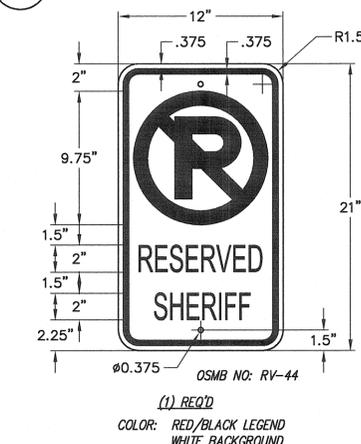
7 READY AREA SIGN
 SCALE: NTS



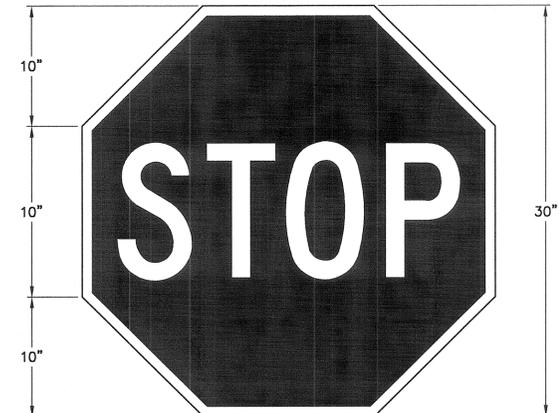
8 TIE-DOWN AREA SIGN
 SCALE: NTS



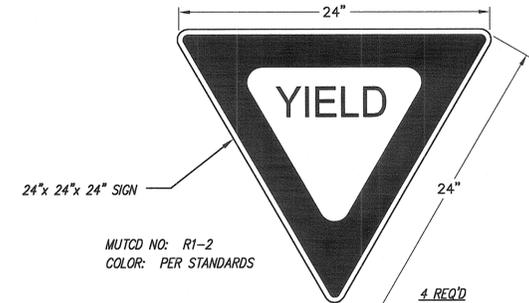
5 NO PARKING - MANEUVER AREA SIGN
 SCALE: NTS



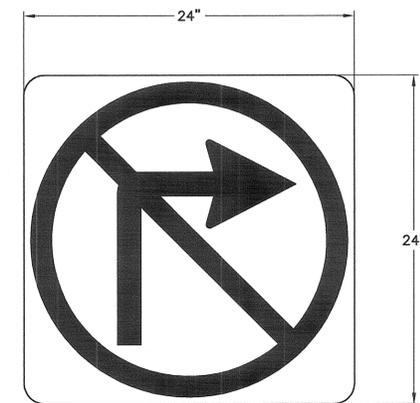
6 NO PARKING - RESERVED SHERIFF SIGN
 SCALE: NTS



1 STOP SIGN
 SCALE: NTS



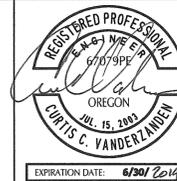
2 YIELD SIGN
 SCALE: NTS



3 NO RIGHT TURN SIGN
 SCALE: NTS



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JOB No.: 312022
 DESIGNED BY: PC
 DRAWN BY: RC
 CHECKED BY: RM
 PLOT DATE: 10/15/12 9:50am
 PLOTTED BY: pcrraig
 DWG NAME: 2022-07-SI.dwg
 TAB NAME: C7.1

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PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP

SIGNAGE DETAILS

SHEET NO.

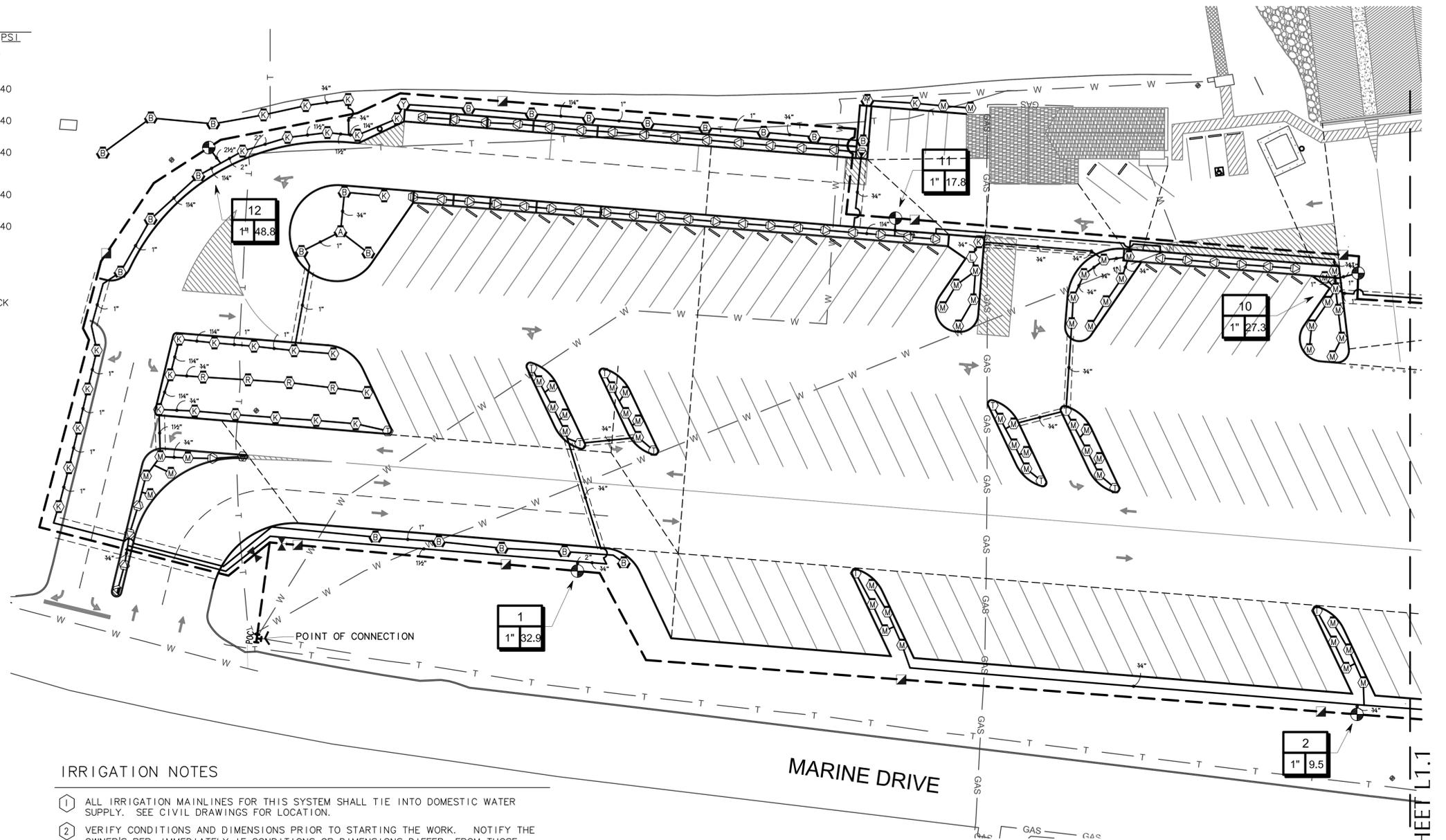
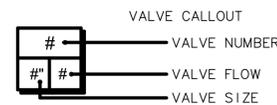
C7.1

SHEET 18 OF 32
 RECORD NO. 312022-18

PERMIT SET - AUGUST 8, 2012
 NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

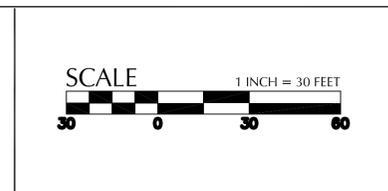
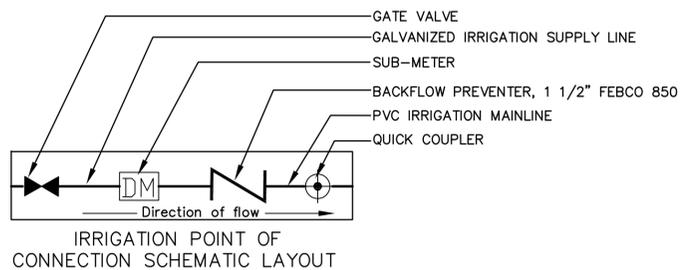
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
(M) (O)	TORO 570Z-12P-SI SPRAY BODY WITH HUNTER MP1000 ROTATOR NOZZLE. M=MAROON, O=OLIVE	40
(K) (G) (R)	TORO 570Z-12P-SI SPRAY BODY WITH HUNTER MP2000 ROTATOR NOZZLE. K=BLACK, G=GREEN, R=RED	40
(B) (Y) (A)	TORO 570Z-12P-SI SPRAY BODY WITH HUNTER MP3000 ROTATOR NOZZLE, CHECK VALVE, B=BLUE, Y=YELLOW, A=GRAY	40
(T)	TORO 570Z-12P-SI SPRAY BODY WITH HUNTER MP CORNER ROTATOR NOZZLE, T=TURQUOISE	40
(S) (L) (R)	TORO 570Z-12P-SI SPRAY BODY WITH HUNTER MP STRIP ROTATOR NOZZLE, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP, LST= IVORY LEFT STRIP	40
(E)	TORO P220-27-00 ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	
(C)	TORO 474-03, 1" QUICK COUPLER VALVE, VINYL COVER W/LOCK BODY, LOCKING COVER	
(V)	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS PIPE DIAMETER	
(A)	TORO T1S-12-1D CONTROLLER. INSTALL ON WALL INSIDE RESTROOM MECHANICAL ROOM	
---	IRRIGATION MAINLINE: 2 1/2", PVC SCHEDULE 40	
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	
---	PIPE SLEEVE: PVC SCHEDULE 40 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	



IRRIGATION NOTES

- ALL IRRIGATION MAINLINES FOR THIS SYSTEM SHALL TIE INTO DOMESTIC WATER SUPPLY. SEE CIVIL DRAWINGS FOR LOCATION.
- VERIFY CONDITIONS AND DIMENSIONS PRIOR TO STARTING THE WORK. NOTIFY THE OWNER'S REP. IMMEDIATELY IF CONDITIONS OR DIMENSIONS DIFFER FROM THOSE PROPOSED.
- NOTIFY OWNER'S REP. IMMEDIATELY IF SITE CONDITIONS DIFFER FROM THOSE SHOWN ON PLANS.
- EXCEPT FOR CROSSING UNDER PAVED AREAS WHERE SLEEVES ARE INDICATED, IRRIGATION MATERIALS ARE SHOWN OUTSIDE OF PLANTING AREAS FOR GRAPHIC CLARITY ONLY. INSTALL IN ADJACENT BED.
- ALTHOUGH THESE IRRIGATION PLANS ARE SCHEMATIC ALL EQUIPMENT SHALL BE PLACED AS CLOSE TO THE LOCATIONS SHOWN AS PRACTICAL. PLACE IRRIGATION LINES IN COMMON TRENCH WHENEVER POSSIBLE. AFTER CONSULTING WITH THE OWNER'S REP., FIELD ADJUST PIPE LOCATIONS TO AVOID CONFLICT WITH EXISTING UTILITIES.
- GRADE MAIN AND LATERAL LINES TO DRAIN. PLACE QUICK COUPLER AT LOCATIONS AS SHOWN TO FACILITATE DRAINING OF SYSTEM USING COMPRESSED AIR.
- COORDINATE POINTS OF CONNECTION WITH THE OWNER'S REPRESENTATIVE AND WITH THE WORK OF ALL OTHER TRADES INVOLVED.
- ALL COMPONENTS OF THE SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE COMPLETE COVERAGE OF ALL PLANTING AREAS AND TO MINIMIZE OVERSPRAY ONTO ADJACENT PATHWAYS, OR OTHER PAVED SURFACES AS MUCH AS POSSIBLE.
- INSTALL PIPE AND WIRE IN SLEEVE INDICATED.
- INSTALL TRACING WIRE OVER ALL PIPE AND OVER CONTROL WIRE WHICH IS NOT INSTALLED IN TRENCH WITH PIPE. ROUTE FROM CONTROLLER TO ENDS OF PIPE. PROVIDE 12 INCHES OF COILED TRACING WIRE IN CONTROLLER. MAKE ALL CONNECTIONS WATER TIGHT.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SOURCE FOR IRRIGATION CONTROLLER TO BE PROVIDED BY ELECTRICAL CONTRACTOR.



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Mayer/Reed

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REGISTERED
82
Carol Mayer-Reed
CAROL MAYER-REED
OREGON
LANDSCAPE ARCHITECT

JOB No.:	312022
DESIGNED BY:	RBH
DRAWN BY:	BRC
CHECKED BY:	BMR
PLOT DATE:	10/11/12 3:55pm
PLOTTED BY:	jcarlson
DWG NAME:	L1.0.dwg
TAB NAME:	L1.0

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PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

LANDSCAPE IRRIGATION PLAN

SHEET NO.	L1.0
SHEET 19 OF 32	
RECORD NO.	312022-XX

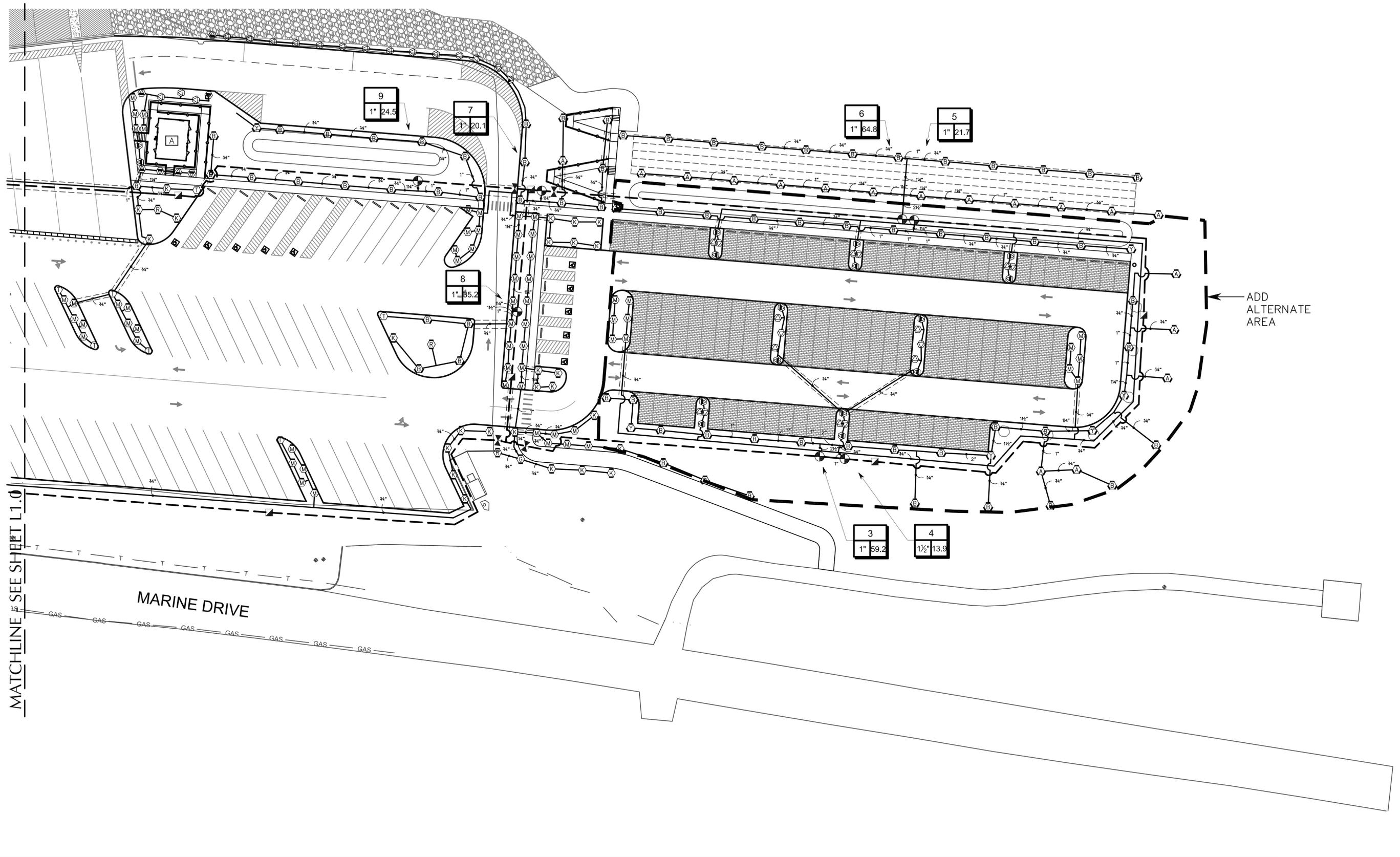
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MATCHLINE - SEE SHEET L1.1

PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

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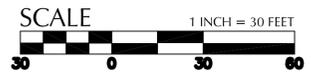


MATCHLINE SEE SHEET L1.0

ADD ALTERNATE AREA

MARINE DRIVE

REVISION	DATE	DESCRIPTION	BY



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JOB No.:	312022
DESIGNED BY:	RBH
DRAWN BY:	BEC
CHECKED BY:	BMR
PLOT DATE:	10/11/12 3:57pm
PLOTTED BY:	jcarlson
DWG NAME:	L1.1.dwg
TAB NAME:	L1.1

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

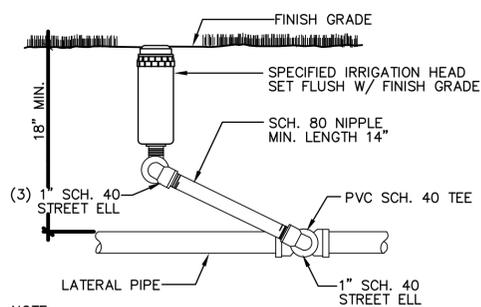
PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP
 LANDSCAPE IRRIGATION PLAN

SHEET NO.	L1.1
SHEET	20 OF 32
RECORD NO.	312022-XX

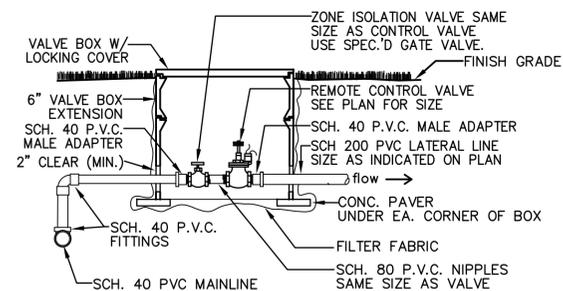
PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

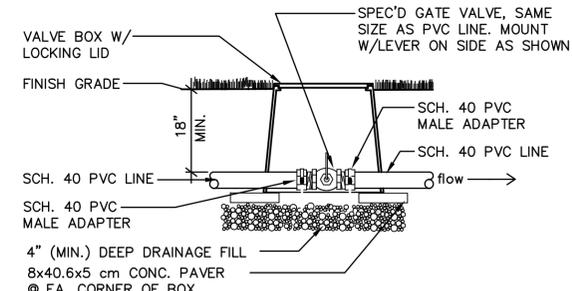
NOTE:
 - USE TEFLON TAPE ON ALL THREADED CONNECTIONS.
 - PRE-FABRICATED SWING JOINT ASSEMBLY MAY BE ACCEPTABLE WHEN ALLOWED BY OWNER - SEE SPECS.



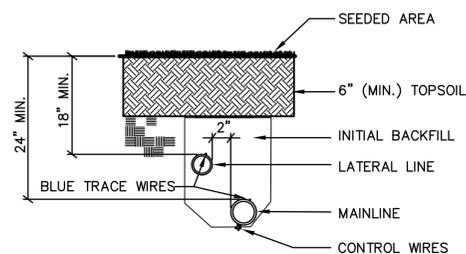
1 POP-UP SPRINKLER SECTION
 N.T.S. (WPC-4101)



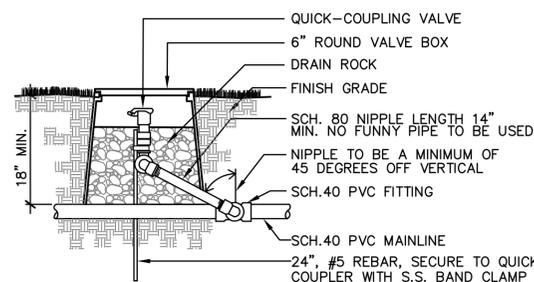
2 REMOTE CONTROL VALVE SECTION
 N.T.S. (WPC-4102)



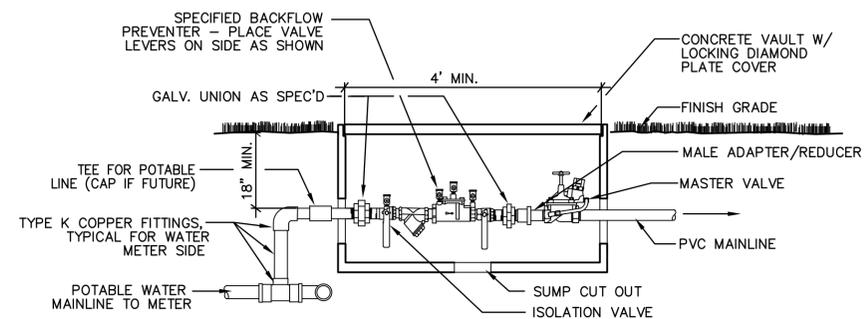
3 ISOLATION / MANUAL VALVE SECTION
 N.T.S. (WPC-4103)



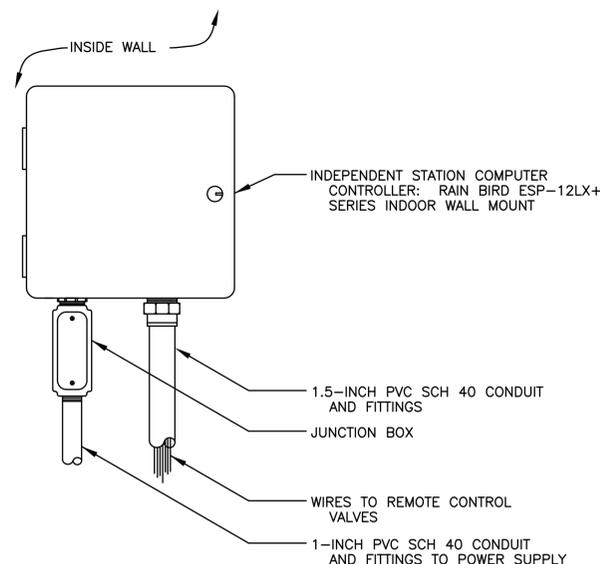
4 TRENCHING SECTION
 N.T.S. (REFER TO CIVIL DETAILS FOR TRENCHING IN PAVED AREAS) (WPC-4104)



5 QUICK COUPLER VALVE SECTION
 N.T.S. (WPC-4105)



6 POINT OF CONNECTION VAULT ASSEMBLY SECTION
 N.T.S. (WPC-4106)



7 WALL MOUNTED CONTROLLER SECTION
 N.T.S. (WPC-4113)

File: M:\1 LA PROJECTS\GBR.1\Drawings\SHETS\1.1.2.dwg TAB:Layout1
 22x34 Plotted: 10/11/12 at 3:59pm By: jcarlson

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REGISTERED
 82
 CAROL MAYER-REED
 LANDSCAPE ARCHITECT
 OREGON

JOB No.: 312022
 DESIGNED BY: RGH
 DRAWN BY: BRC
 CHECKED BY: BMR
 PLOT DATE: 10/11/12 3:59pm
 PLOTTED BY: jcarlson
 DWG NAME: L1.2.dwg
 TAB NAME: Layout1

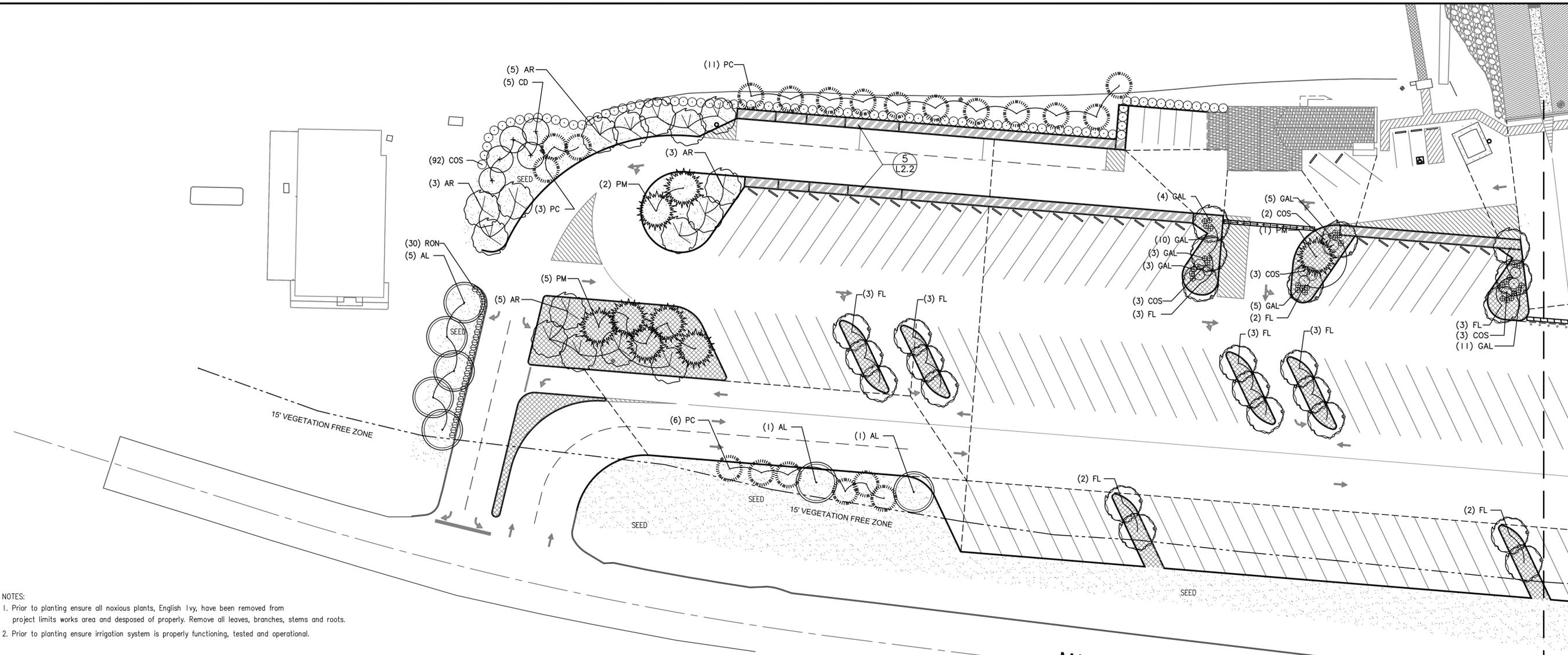
METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP
 LANDSCAPE IRRIGATION DETAILS

SHEET NO.
L1.2
 SHEET 21 OF 32
 RECORD NO.
 312022-XX

PERMIT SET - AUGUST 8, 2012

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NOTES:
1. Prior to planting ensure all noxious plants, English Ivy, have been removed from project limits works area and disposed of properly. Remove all leaves, branches, stems and roots.
2. Prior to planting ensure irrigation system is properly functioning, tested and operational.

PLANT MATERIAL LEGEND

Tag	Botanical Name	Common Name	Quantity	Size	Comments	Tag	Botanical Name	Common Name	Quantity	Size	Comments
TREES						SHRUBS					
FL	Fraxinus latifolia	Oregon Ash	57	1 1/2"	LARGE TREE	AC	Acer circinatum	Vine Maple	24	3"	-
AL	Alnus rhombifolia	White Alder	22	1 1/2"	LARGE TREE	COS	Cornus stolonifera	Redtwig Dogwood	355	2 gal.	5' o.c.
AR	Alnus rubra	Red Alder	48	1 1/2"	MEDIUM TREE	GAL	Gaultheria shallon	Salal	237	2 gal.	3' o.c.
CD	Crataegus douglasii	Black Hawthorn	32	1 1/2"	SMALL TREE	MAH	Mahonia aquifolium	Oregon Grape	159	2 gal.	3' o.c.
CN	Cornus nuttallii	'Eddie's W. Wonder' Dogwood	15	1 1/2"	SMALL TREE	RON	Rosa nutkana	Nutka Rose	154	2 gal.	3' o.c.
PM	Pinus monticola	Western White Pine	25	6'-8' ht.	LARGE TREE	GROUNDCOVERS/PERENNIALS					
PC	Pinus contorta 'contorta'	Shore Pine	52	6'-8' ht.	SMALL TREE	ASUM	Arctostaphylos uva ursi 'Massachusetts'	Bearberry	2369	4" pot	3' o.c.
						SCIR	Scirpus lacustris	Hard Stemmed Bulrush	793	10 CU. IN.	SEE DTL. 5/L2.2 FOR LAYOUT
						SEED	See Specifications For Seed Mix		-	SEED	
						LIVE WILLOW (FASCINE) STAKING					
						SASC	Salix scouleriana	Scouler's Willow	1638	24" Long Stakes	24"-30" o.c. Average Live Stakes

File: M:\LA PROJECTS\GBR.1\Drawings\SHEETS\L2.0.dwg TAB: L2.0
22x34 Plotted: 10/11/12 at 4:05pm By: jcarlson

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC



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REGISTERED
82
LANDSCAPE ARCHITECT
OREGON
CAROL MAYER-REED

JOB No.:	312022
DESIGNED BY:	RBH
DRAWN BY:	BRC
CHECKED BY:	BMR
PLOT DATE:	10/11/12 4:05pm
PLOTTED BY:	jcarlson
DWG NAME:	L2.0.dwg
TAB NAME:	L2.0

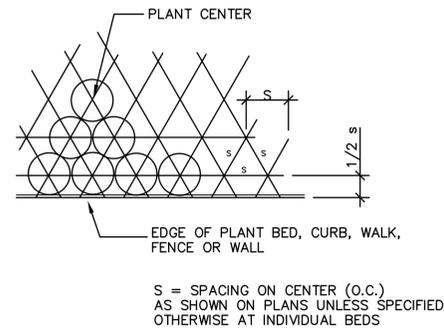
METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

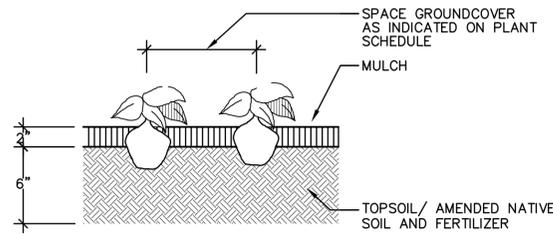
LANDSCAPE PLANTING PLAN

SHEET NO.
L2.0
SHEET 22 OF 32
RECORD NO.
312022-XX

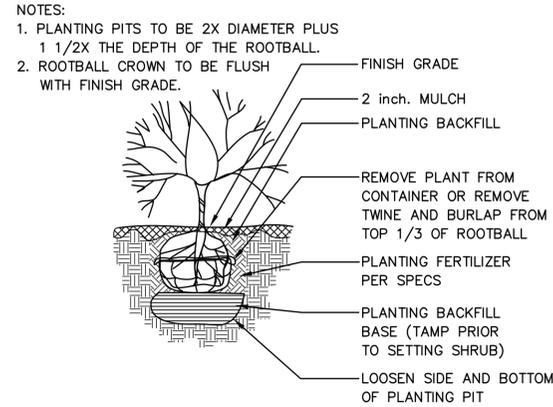
MATCHLINE - SEE SHEET L2.1



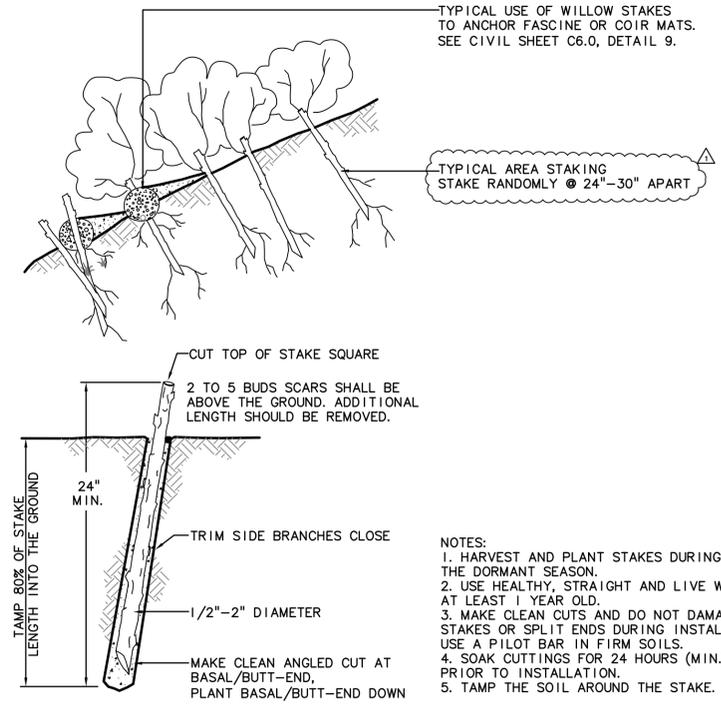
1 PLANTING SPACING PLAN



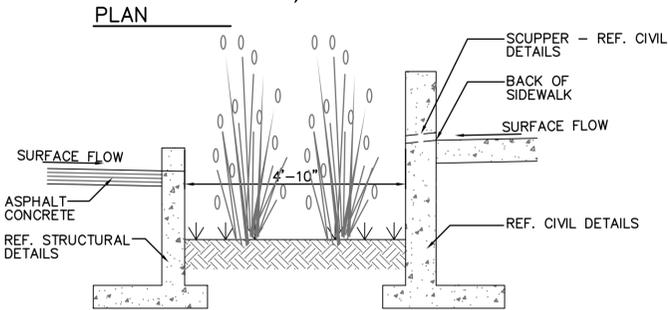
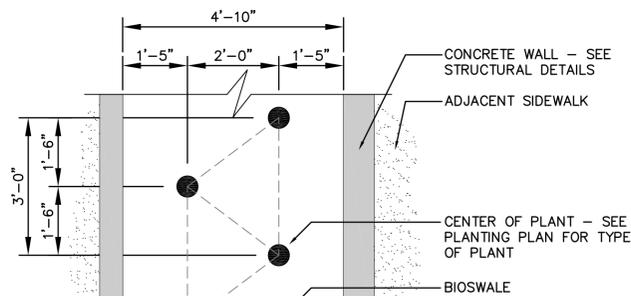
2 GROUNDCOVER PLANTING SECTION



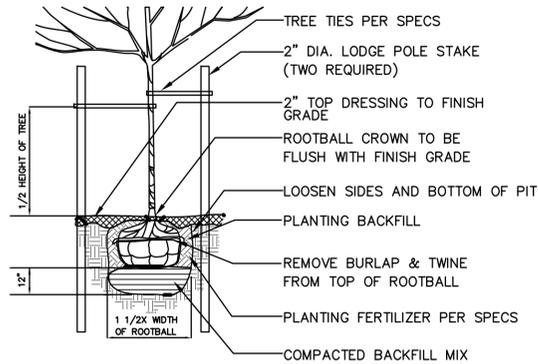
3 SHRUB PLANTING SECTION



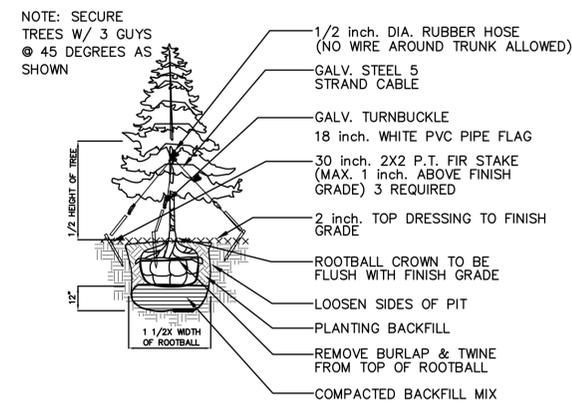
4 LIVE WILLOW (FASCINE) STAKING SECTION



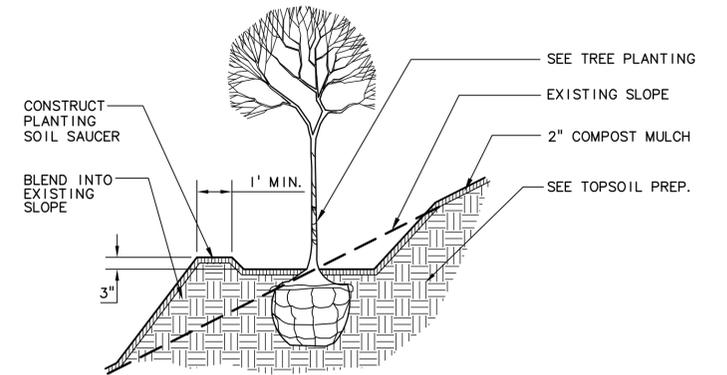
5 BIOSWALE GRASS PLANTING LAYOUT PLAN



6 DECIDUOUS TREE PLANTING SECTION



7 EVERGREEN TREE PLANTING SECTION



8 SLOPE PLANTING SECTION

File: M:\1 LA PROJECTS\GBR\1\Drawings\Sheets\L2.2.dwg TAB: L2.2
22x34 Plotted: 10/11/12 at 4:05pm By: jcarlson

REVISION	DATE	DESCRIPTION	BY
Δ	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PC

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REGISTERED
82
LANDSCAPE ARCHITECT
OREGON
CAROL MAVER-FEED

JOB No.:	312022
DESIGNED BY:	RBH
DRAWN BY:	BEC
CHECKED BY:	BMR
PLOT DATE:	10/11/12 4:09pm
PLOTTED BY:	jcarlson
DWG NAME:	L2.2.dwg
TAB NAME:	L2.2

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PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

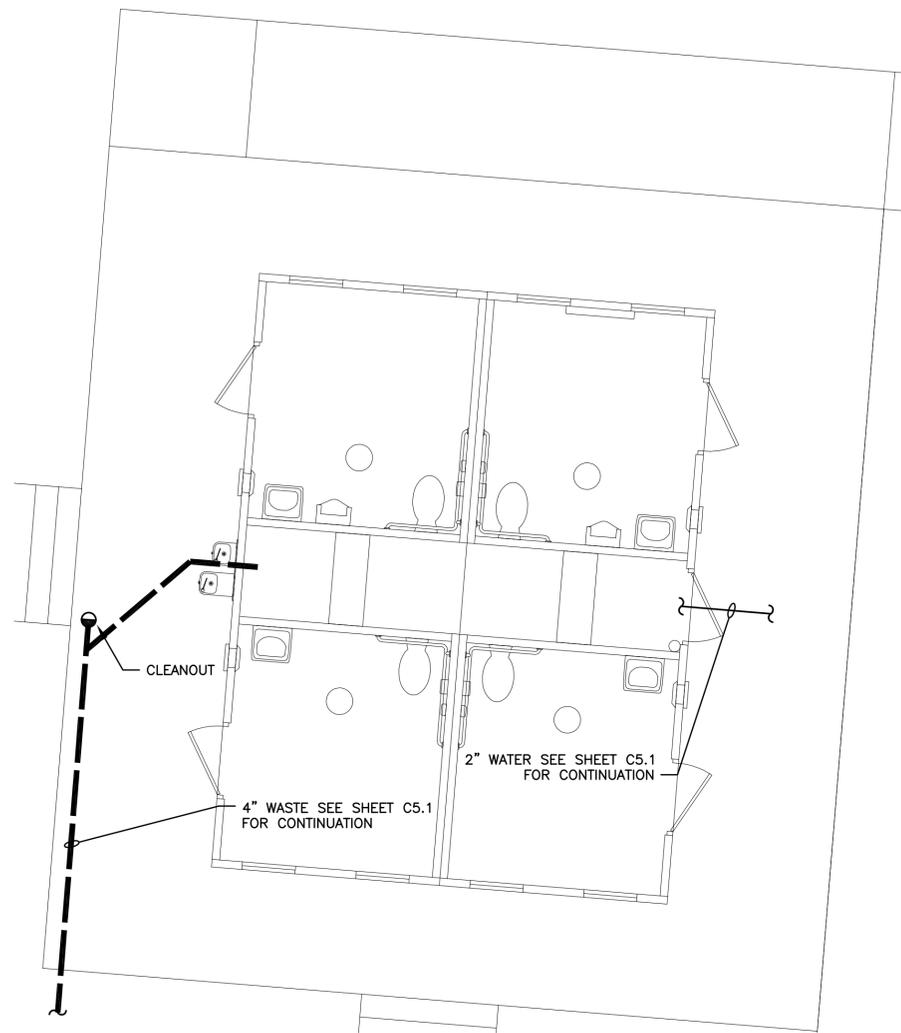
LANDSCAPE PLANTING DETAILS

SHEET NO.

L2.2

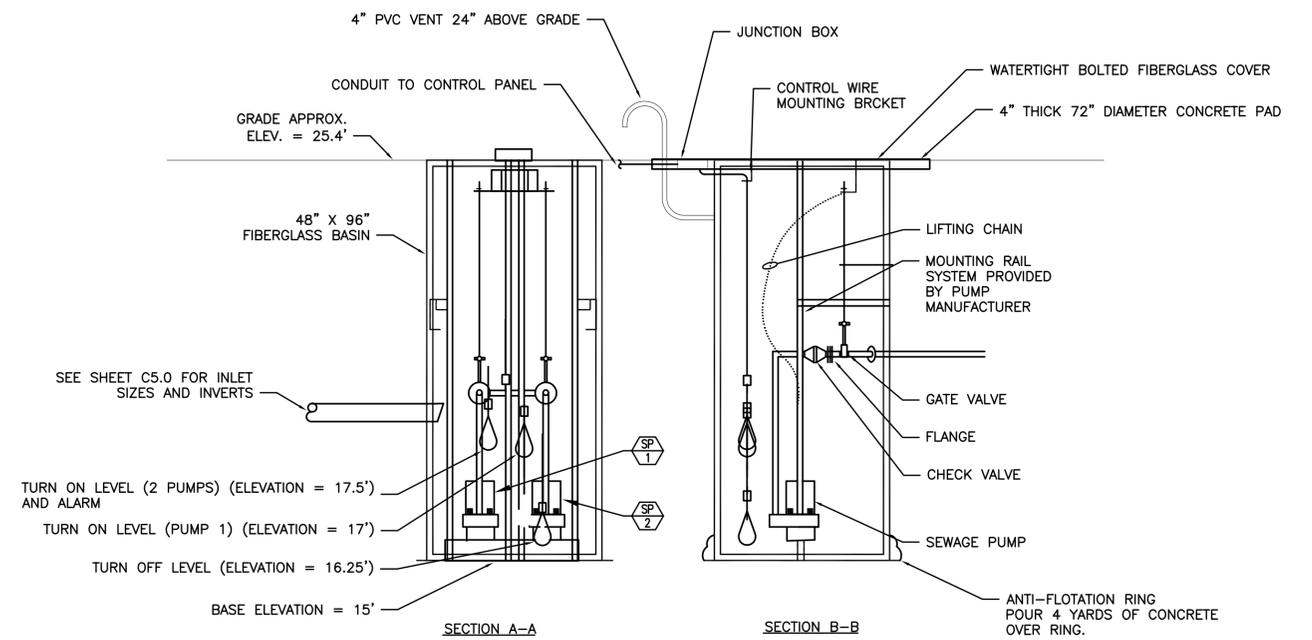
SHEET 24 OF 32
RECORD NO.
312022-XX

PERMIT SET - AUGUST 8, 2012
NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF



1 RESTROOM PLUMBING PLAN
P1.0 3" = 1'-0"

SEWAGE PUMP		
MARK NUMBER	SP 1	SP 2
GPM	45	45
HEAD (FT)	28	28
RPM	1750	1750
MOTOR HP	1	1
SOLID SIZE (IN)	2	2
WEIGHT (LB)	130	130



2 SEWAGE LIFT STATION
P1.0 NO SCALE

GENERAL NOTES

1. VERIFY PIPING CONNECTION POINTS AT MODULAR RESTROOM BUILDING.

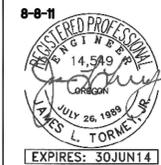
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Plotted: 10/12/12 at 1:44pm By: paul.sonia

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PRS



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JOB No.:	312022
DESIGNED BY:	BKG
DRAWN BY:	BKG
CHECKED BY:	JLT
PLOT DATE:	10/12/12 1:44pm
PLOTTED BY:	paul.sonia
DWG NAME:	8489_P1.dwg
TAB NAME:	P-1

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

PLUMBING PLAN

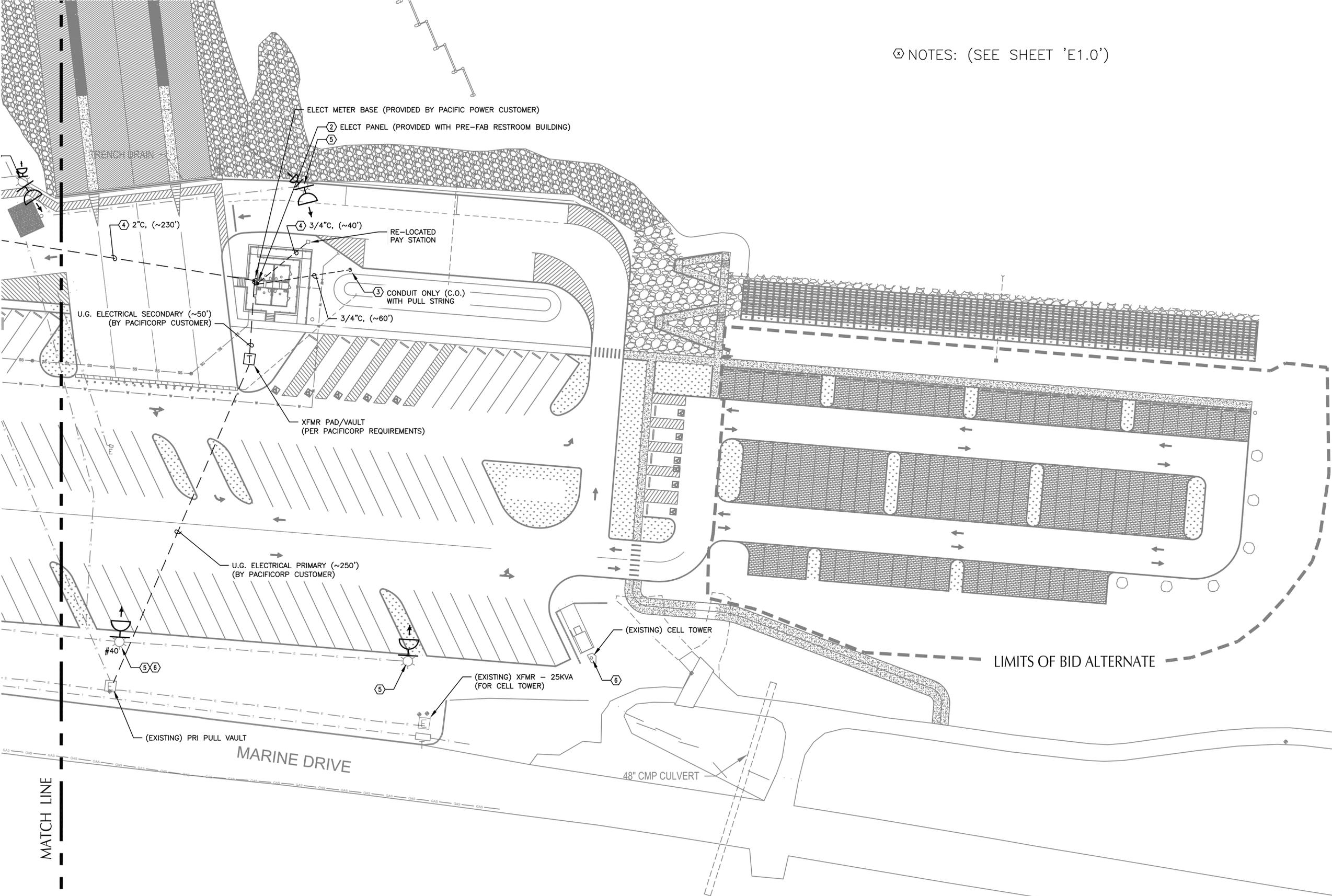
PERMIT SET - AUGUST 8, 2012
NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

SHEET NO.

P1.0

SHEET 25 OF 32
RECORD NO. 312022-25

⊗ NOTES: (SEE SHEET 'E1.0')



PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

File: G:\KPF\8489_Gleason_Boat_Ramp\Elect\8489_E1_E2.dwg TAB:E-2
Plotted: 10/12/12 at 1:46pm By: paul.sonia

REVISION	DATE	DESCRIPTION	BY
△	10/15/12	CITY PERMIT CHECKSHEET RESPONSE	PRS



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JOB No.:	312022
DESIGNED BY:	PRS
DRAWN BY:	PRS
CHECKED BY:	RLC
PLOT DATE:	10/12/12 1:46pm
PLOTTED BY:	paul.sonia
DWG NAME:	8489_E1_E2.dwg
TAB NAME:	E-2

METRO, 800 NE GRAND AVE., PORTLAND, OREGON 97232-2736

PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

ELECTRICAL SITE PLAN - EAST END

SHEET NO.
E2.0
SHEET 27 OF 32
RECORD NO.
312022-27

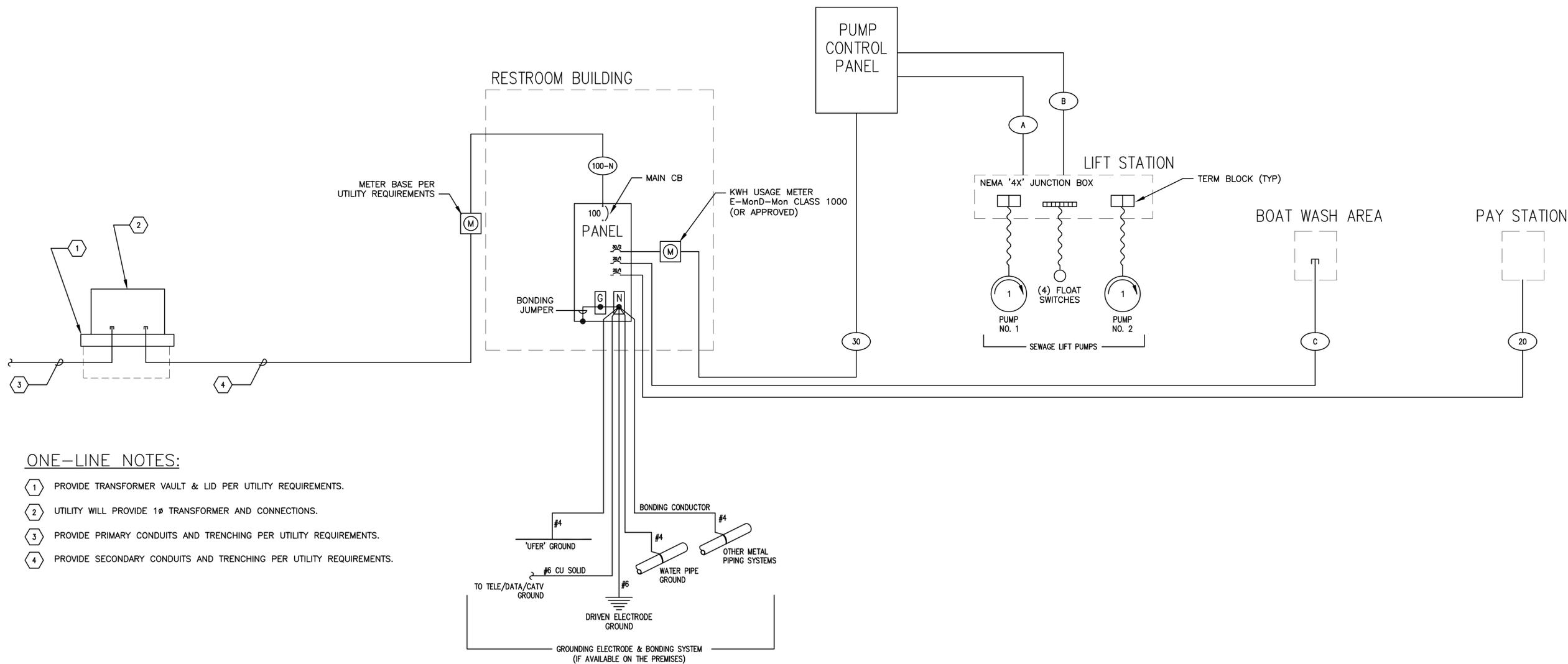
GLEASON BOAT RAMP - PARKING LOT IMPROVEMENTS ELECTRICAL LOAD SUMMARY								
LOAD:	LIGHTS	RECEPT	HEAT	KITCHEN	EQUIP	MOTORS	MISC.	LARGEST MOTOR
RESTROOM BUILDING							5,000	
SEWAGE PUMPS (2 x 1hp)						2,500		1,008
BOAT WASH RECEIPT (FUTURE)					1,920			
PAY STATION					1,920			
SUBTOTAL	0	0	0	0	3,840	2,500	5,000	1,008
X-FACTOR	1.25	1 + .5	1	0.65	1	1	1	0.25
CODE LOAD:	0	0	0	0	3,840	2,500	5,000	252

CONN LOAD: 11 KVA

VOLTS: 240 1ph
TOTAL CALC: 12 KVA
CALC AMPS: 48 AMPS

7/30/2012

FEEDER SCHEDULE	
100-N	2"C, (3) #1
30	2"C, (3) #8 & #10 GND
20	3/4"C, (2) #10 & #10 GND
A	1"C, (4) #10 & #10 GND
B	1"C, (8) #10
C	3/4"C



ONE-LINE NOTES:

- 1 PROVIDE TRANSFORMER VAULT & LID PER UTILITY REQUIREMENTS.
- 2 UTILITY WILL PROVIDE 1Ø TRANSFORMER AND CONNECTIONS.
- 3 PROVIDE PRIMARY CONDUITS AND TRENCHING PER UTILITY REQUIREMENTS.
- 4 PROVIDE SECONDARY CONDUITS AND TRENCHING PER UTILITY REQUIREMENTS.

File: G:\KPF\B489_Gleason_Boat_Ramp\Elect\B489_E3.dwg TAB:E-3
Plotted: 10/12/12 at 1:45pm By: paul.sonia



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JOB No.:	312022
DESIGNED BY:	PRS
DRAWN BY:	PRS
CHECKED BY:	RLC
PLOTTED BY:	paul.sonia
DWG NAME:	8489_E3.dwg
TAB NAME:	E-3

METRO, 600 NE GRAND AVE., PORTLAND, OREGON 97232-2736
PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP
ELECTRICAL ONE-LINE DIAGRAM
120/240V, 1PH, 3W

SHEET NO.	E3.0
SHEET	28 OF 32
RECORD NO.	312022-28

PERMIT SET - AUGUST 8, 2012

NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

DEQ ESPC NOTES

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS.
- RETAIN A COPY OF THE ESPC AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESPC AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION. (SCHEDULE B.2.A)
- ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESPC. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESPC IS A VIOLATION OF THE PERMIT. (SCHEDULE A.8.A)
- THE ESPC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS. (SCHEDULE A.8.C.II.(1)(C))
- SUBMISSION OF ALL ESPC REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESPC REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT. (SCHEDULE A.12.C.III)
- PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A.8.C.II.(1)(D))
- IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1) & (2))
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A.7.B.III(1) AND A.7.B.III(3))
- EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS. (SCHEDULE A.7.D.I AND A.8.C)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULE A.8.C.I.(6))
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS. (SCHEDULE A.8.C.II.(2))
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.C.I.(7))
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A.7.D.II.(1) AND A.8.C.I.(4))
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.(3))
- USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.E.I.(2))
- IMPLEMENT THE FOLLOWING BMPs WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCH A.7.E.II.)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A.7.B.II)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.9.B.III)
- IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.D)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A.7.B)
- AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SCHEDULE A.7.E.I.(2))
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER. (SCHEDULE A.7.A.I)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)

- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT. AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.II)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.C.III & IV)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED, INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.B.I)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
- THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.F.I)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.F.II)
- PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. HOWEVER, DO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPs. (SCHEDULE A.7.B.II(2) AND A.8.C.II)

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS:

BOAT RAMP WITH PARKING LOT.

SITE SOIL TYPE

PILCHUCK-URBAN LAND COMPLEX 0 TO 3 PERCENT SLOPES

DEVELOPED CONDITIONS:

BOAT RAMP WITH ADDITIONAL/IMPROVED PARKING

EROSION POTENTIAL

MODERATE EROSION HAZARD

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE:

CLEARING (OCTOBER 2012)
GRADING & UTILITY WORK (OCTOBER 2012 - APRIL 2013)
FINAL STABILIZATION (APRIL 2013)

RECEIVING WATER BODIES

COLUMBIA RIVER

TOTAL SITE AREA = 15.69 ACRES

TOTAL DISTURBED AREA = 8.7 ACRES

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

PLANTING & SEEDING NOTES

PROVIDE PERMANENT PLANTING PER THE LANDSCAPE PLANS AND SPECIFICATIONS AND THE FOLLOWING:

- PERMANENT SEEDING MIX:
25% CREEPING RED FESCUE
25% CHEWING'S FESCUE
25% HARD FESCUE
25% BLUE FESCUE
- STORMWATER FACILITY VEGETATION:
HARD STEMMED BULRUSH (SEE LANDSCAPE PLANS)
- THE CONTRACTOR SHALL PHASE CONSTRUCTION TO AVOID THE NEED FOR TEMPORARY SEEDING.

BMP MATRIX

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S

	CLEARING	MASS GRADING	UTILITY INSTALLATION	PARKING LOT CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT 1 - APRIL 30)
EROSION PREVENTION						
DUST CONTROL	X	X	X	X		
TEMP./PERM. SEEDING					X	X
SEDIMENT CONTROL						
SEDIMENT FENCE (PERIMETER)	** X	X	X	X		X
INLET PROTECTION			X	X		X
RUN OFF CONTROL						
CONSTRUCTION ENTRANCE	** X	X	X	X		X
POLLUTION PREVENTION						
SPILL KIT ON-SITE	X	X	X	X		X
CONCRETE WASHOUT AREA			X	X		X

** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY

INSPECTION FREQUENCY

SITE CONDITION	
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING. AT LEAST ONCE EVERY TWO (2) WEEKS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE, OR IN ANTICIPATION OF SITE INACCESSIBLE	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	ONCE EVERY TWO (2) WEEKS.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

- HOLD A PRE-CON MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EROSION CONTROL INSPECTOR.
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200C PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200C PERMIT REQUIREMENTS.
- CHANGES TO THE APPROVED EROSION CONTROL PLANS MUST BE SUBMITTED TO DEQ IN THE FORM OF AN ACTION PLAN.
- THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT, THIS EROSION CONTROL PLAN AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S 1200-C PERMIT APPLICATION AND ESPC GUIDANCE DOCUMENT HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMPs WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESPC, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL CCV

PROJECT LOCATION

4325 NE MARINE DRIVE, PORTLAND, OR SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST, WILLAMETTE MERIDIAN.

PERMITEE'S SITE INSPECTOR

NAME: MIKE BEYER
COMPANY/AGENCY: KPFF CONSULTING ENGINEERS
PHONE: 503227-3251
E-MAIL: MIKE.BEYER@KPFFCIVIL.PDX.COM
DESCRIPTION OF EXPERIENCE: CPESC CERTIFICATION (#3375)

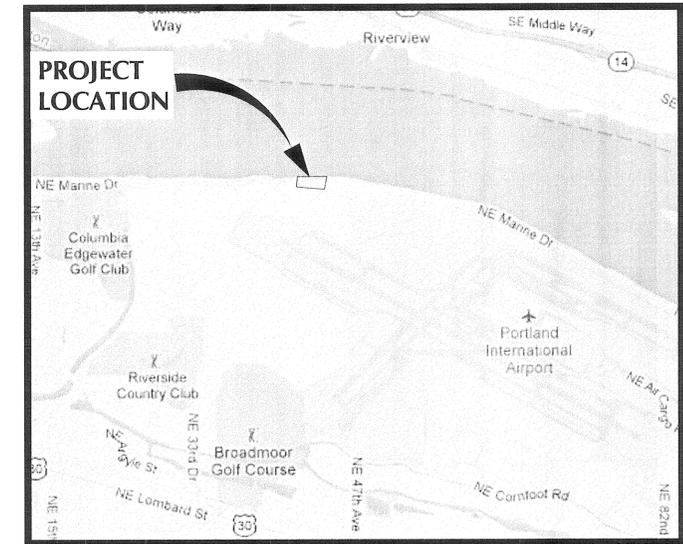
PROJECT CONTACTS

OWNER:
METRO
600 NE GRAND AVENUE
PORTLAND, OREGON 97232
TEL: 503-797-1700
CONTACT: LYDIA NEILL

CIVIL ENGINEER:
KPFF CONSULTING ENGINEERS
111 SW FIFTH AVENUE, SUITE 2500
PORTLAND, OREGON 97204
TEL: 503-227-3251
CONTACT: RYAN MILKOWSKI, PE

SHEET INDEX

EROSION AND SEDIMENT CONTROL PLANS	
EC1.0	EROSION AND SEDIMENT CONTROL COVER SHEET
EC2.0	EROSION AND SEDIMENT CONTROL PLAN
EC2.1	EROSION AND SEDIMENT CONTROL PLAN
EC3.0	EROSION AND SEDIMENT CONTROL DETAILS



VICINITY MAP

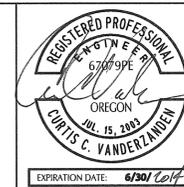
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NORTH



File: \\civildsk1\Civil-Projects\p\2012\312022-Gleason-Boat-Ramp-Prkg- & -Restroom\CAO\PL01\2022-08-EC.dwg TAB:EC1.0 22x34 Plotted: 10/15/12 at 10:00am By: pcorig

REVISION	DATE	DESCRIPTION	BY
9/12/12	DEQ COMMENTS	PC	



JOB No.:	312022
DESIGNED BY:	PC
DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 10:00am
PLOTTED BY:	pcorig
DWG NAME:	2022-08-EC.dwg
TAB NAME:	EC1.0

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PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP

EROSION AND SEDIMENT CONTROL
COVER SHEET

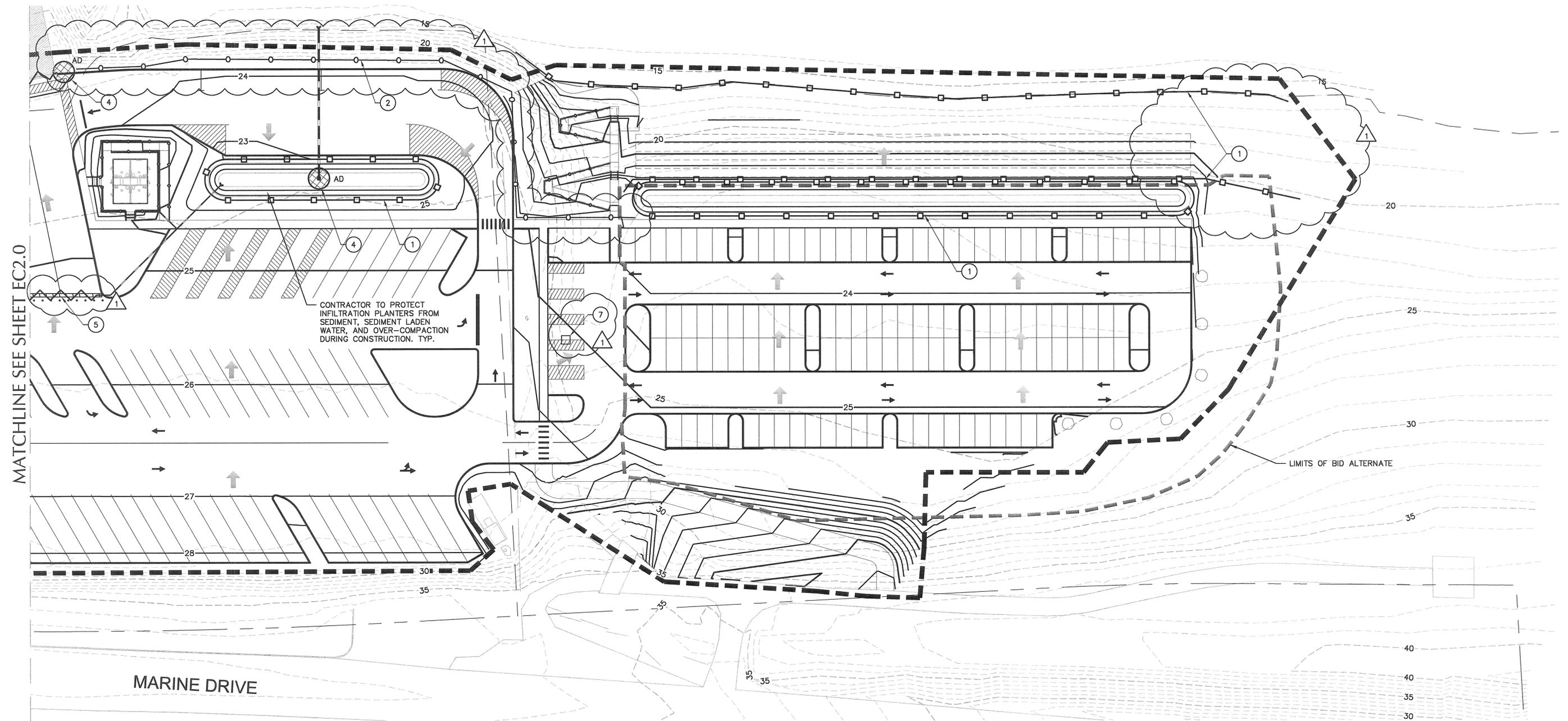
SHEET NO.

EC1.0

SHEET 29 OF 32
RECORD NO. 312022-29

PERMIT SET - AUGUST 8, 2012
NO FIELD CHANGES WITHOUT APPROVAL BY BDS LAND USE REVIEW STAFF

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 2x34 Plotted: 10/15/12 at 10:02am By: pcrraig



MATCHLINE SEE SHEET EC2.0

(X) KEY NOTES

- 1 INSTALL SEDIMENT FENCE PER DETAIL 1, SHEET EC3.0.
- 2 INSTALL STRAW WATTLES PER DETAIL 2, SHEET EC3.0.
- 3 INSTALL COMPOST SOCK PER DETAIL 3, SHEET EC3.0.
- 4 INSTALL INLET SEDIMENT PROTECTION PER DETAIL 4, SHEET EC3.0.
- 5 TRENCH DRAIN SEDIMENT PROTECTION PER DETAIL 5, SHEET EC3.0.
- 6 INSTALL CONSTRUCTION ENTRANCE PER DETAIL 6, SHEET EC3.0.
- 7 INSTALL CONCRETE WASHOUT PER DETAIL 7, SHEET EC3.0.

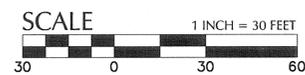
SHEET LEGEND

- EXTENT OF WORK
- SEDIMENT FENCE
- STRAW WATTLE
- COMPOST SOCK
- INLET SEDIMENT PROTECTION
- TRENCH DRAIN SEDIMENT PROTECTION
- CONSTRUCTION ENTRANCE
- FINISHED GRADE DRAINAGE FLOW DIRECTION

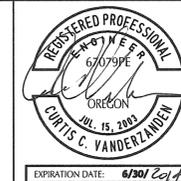
MARINE DRIVE

LIMITS OF BID ALTERNATE

REVISION	DATE	DESCRIPTION	BY
△	9/12/12	DEQ COMMENTS	PC



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DRAWN BY:	RC
CHECKED BY:	RM
PLOT DATE:	10/15/12 10:02am
PLOTTED BY:	pcraig
DWG NAME:	2022-08-EC.dwg
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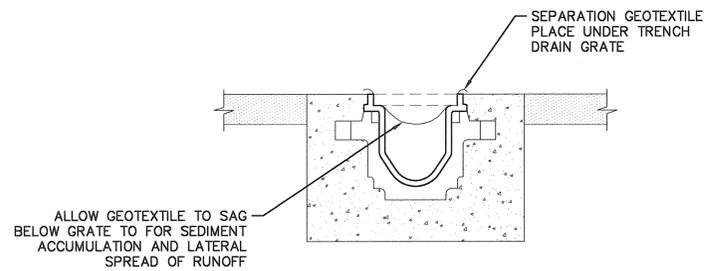
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PARKING LOT FACILITY IMPROVEMENTS
 M. JAMES GLEASON MEMORIAL BOAT RAMP
 EROSION AND SEDIMENT CONTROL PLAN

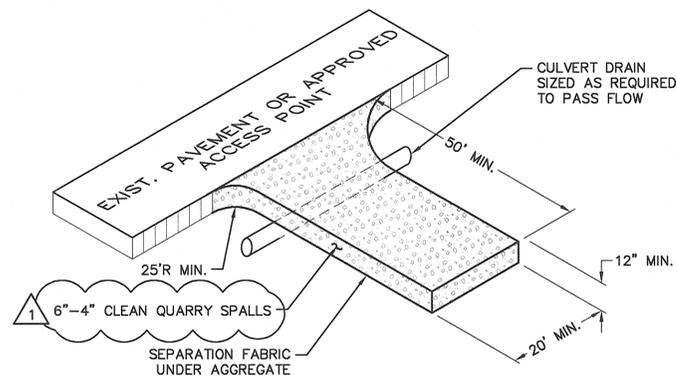
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SHEET	31 OF 32
RECORD NO.	312022-31

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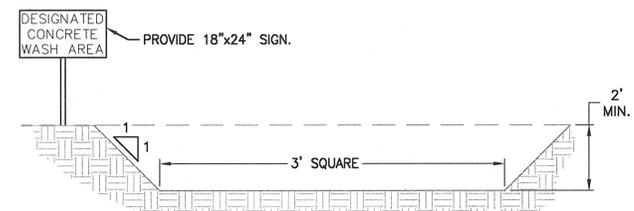


5 TRENCH DRAIN SEDIMENT PROTECTION
SCALE: NTS



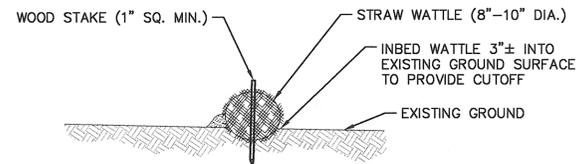
- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC 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 CONSTRUCTION ENTRANCE
SCALE: NTS



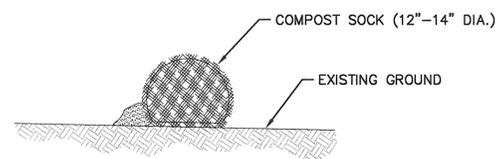
- NOTES:**
1. PROVIDE 3' x 3' MINIMUM WASHOUT AREA. INCREASE SIZE OR ADD ADDITIONAL AREAS AS REQUIRED TO ACCOMMODATE PROJECT CONDITIONS.
 2. LOCATE WASHOUT AT LEAST 50' FROM STORM DRAINS, INFILTRATION AREAS, OPEN DITCHES, AND WATER BODIES.
 3. SOLIDS MAY BE BURIED IN PLACE AFTER CONSTRUCTION IS COMPLETE IF LOCATED IN AN AREA DESIGNATED TO RECEIVE HARDSCAPE SURFACE. REMOVE AND DISPOSE IF LOCATED IN A LANDSCAPE AREA.

7 CONCRETE WASHOUT
SCALE: NTS



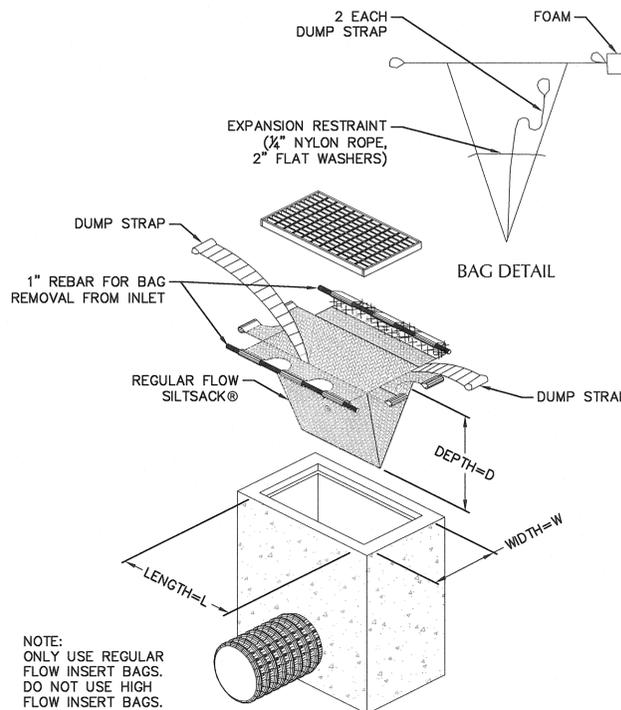
- NOTES:**
1. STRAW WATTLES TO BE PLACED ALONG SITE CONTOURS.
 2. HORIZONTAL SPACING VARIES DEPENDING ON SOIL TYPE AND STEEPNESS, SEE PLAN (5' MIN - 25' MAX.)
 3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
 4. STRAW WATTLE SHALL BE RICE STRAW ONLY. USE OF FIBER ROLLS, WHEAT GRASS, OR RYE STRAW NOT PERMITTED.

2 STRAW WATTLE
SCALE: NTS



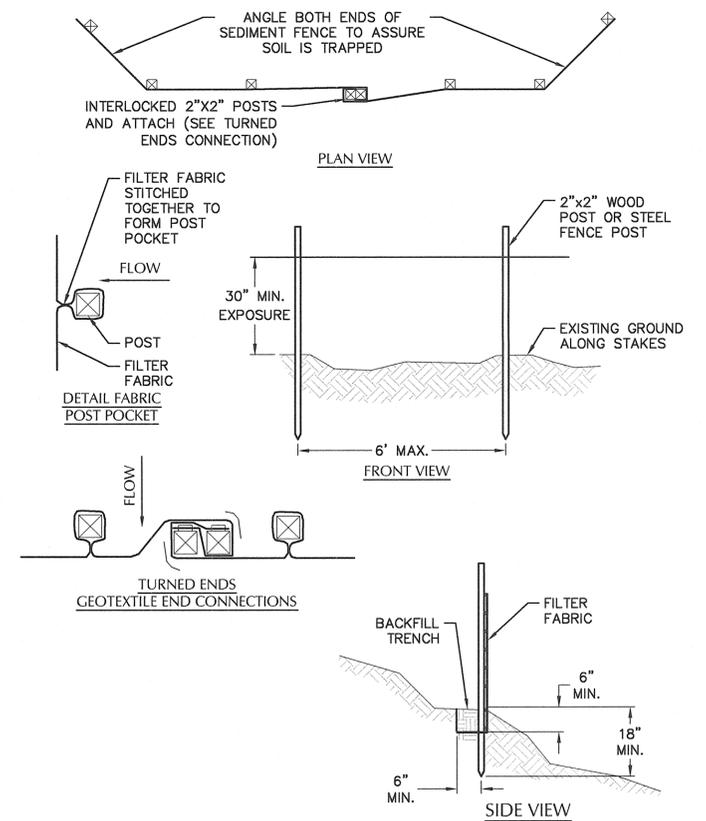
- NOTES:**
1. FILL SOCK IN PLACE, AS SHOWN ON THE PROJECT EROSION AND SEDIMENT CONTROL PLAN.
 2. USE COMPOST MEETING THE REQUIREMENTS OF THE PROJECT PLANS AND SPECIFICATIONS. COMPOST MAY BE REUSED IN THE PERMANENT INSTALLATION WITH APPROVAL BY THE LANDSCAPE ARCHITECT.

3 COMPOST SOCK
SCALE: NTS



NOTE:
ONLY USE REGULAR FLOW INSERT BAGS. DO NOT USE HIGH FLOW INSERT BAGS.

4 AREA DRAIN SEDIMENT PROTECTION
SCALE: NTS



- NOTES:**
1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET.
 2. THE FILTER FABRIC SHALL BE INSTALLED TO FOLLOW THE CONTOURS. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6- FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 18-INCHES.
 3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6-INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
 4. STANDARD OR HEAVY DUTY FILTER FABRIC SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2"x2" POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP-HILL SIDE OF THE SLOPED AREA.
 5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
 6. FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 7. INSTALLATION SHALL FOLLOW THE MANUFACTURERS RECOMMENDATIONS AND USE A MINIMUM OF 36" WIDE ROLLS.
 8. POSTS SHALL BE FIR, PINE OR STEEL.

1 SEDIMENT FENCE
SCALE: NTS

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DWG NAME:	2022-08-EC.dwg
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PARKING LOT FACILITY IMPROVEMENTS
M. JAMES GLEASON MEMORIAL BOAT RAMP
EROSION AND SEDIMENT CONTROL DETAILS

SHEET NO.
EC3.0
SHEET 32 OF 32
RECORD NO.
312022-32

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