

CITY OF KIRKLAND

MAINTENANCE CENTER STORM WATER POLLUTION PREVENTION PLAN (SWPPP) UPGRADES

JOB NO. 43-20-PW

09/01/2020

CST SDC 1080000

CITY OFFICIALS

PENNY SWEET	MAYOR
JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
KELLI CURTIS	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
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JON PASCAL	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
JULIE UNDERWOOD	INTERIM PUBLIC WORKS DIRECTOR
ROD STEITZER, PE	CAPITAL PROJECTS MANAGER

CONTACT PERSONNEL

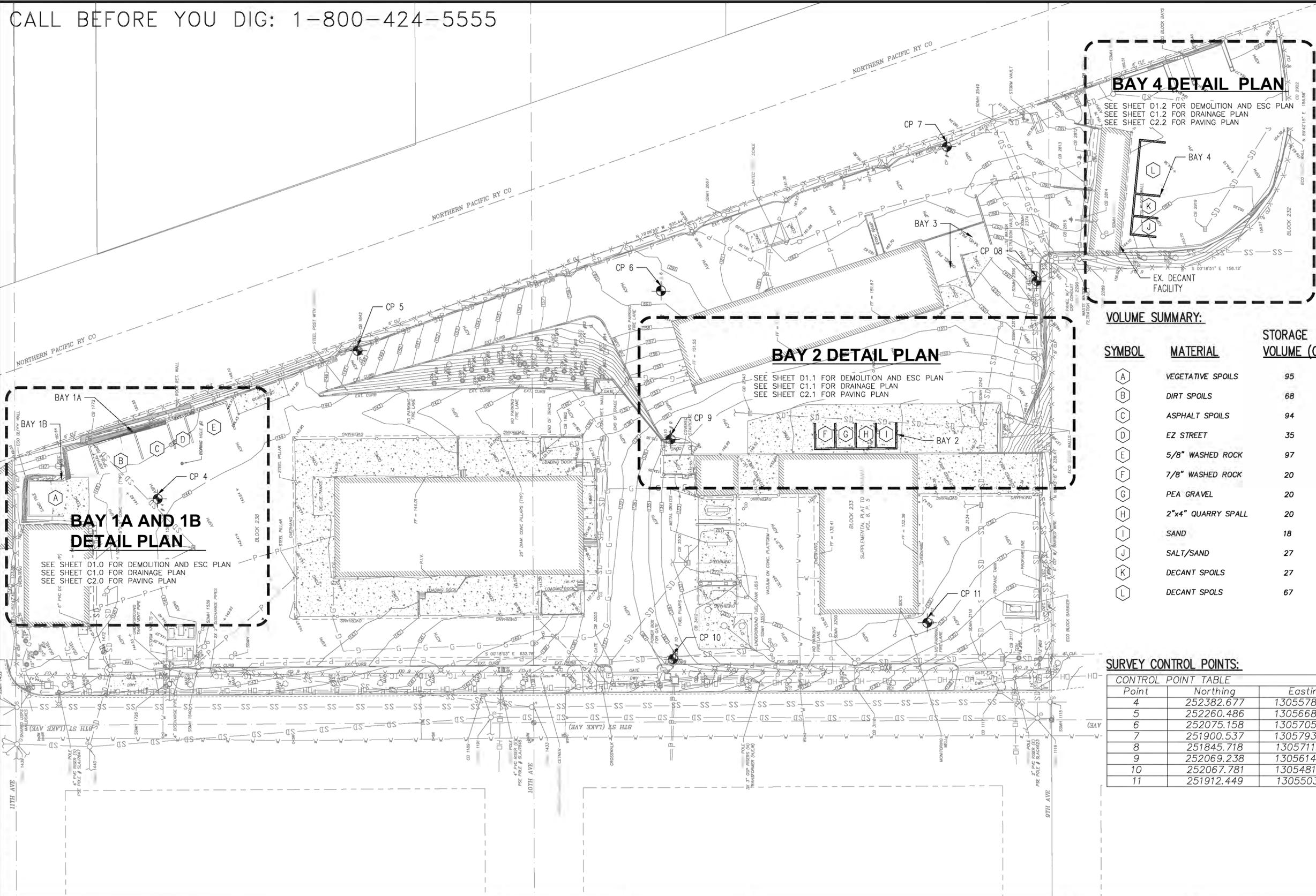
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CM INSPECTOR NAME	PROJECT INSPECTOR	<PHONE #>
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EMERGENCY	NORCOM	911
POLICE MAIN LINE	COK	425.587.3400
FIRE MAIN LINE	COK	425.864.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
ONE CALL UTILITY LOCATE		800.424.5555

KIRKLAND



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BAY 4 DETAIL PLAN

SEE SHEET D1.2 FOR DEMOLITION AND ESC PLAN
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BAY 2 DETAIL PLAN

SEE SHEET D1.1 FOR DEMOLITION AND ESC PLAN
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BAY 1A AND 1B DETAIL PLAN

SEE SHEET D1.0 FOR DEMOLITION AND ESC PLAN
SEE SHEET C1.0 FOR DRAINAGE PLAN
SEE SHEET C2.0 FOR PAVING PLAN

VOLUME SUMMARY:

SYMBOL	MATERIAL	STORAGE VOLUME (CY)
A	VEGETATIVE SPOILS	95
B	DIRT SPOILS	68
C	ASPHALT SPOILS	94
D	EZ STREET	35
E	5/8" WASHED ROCK	97
F	7/8" WASHED ROCK	20
G	PEA GRAVEL	20
H	2"x4" QUARRY SPALL	20
I	SAND	18
J	SALT/SAND	27
K	DECANT SPOILS	27
L	DECANT SPOILS	67

SURVEY CONTROL POINTS:

CONTROL POINT TABLE				
Point	Northing	Easting	Elevation	Description
4	252382.677	1305578.585	144.30	SET MN
5	252260.486	1305668.907	147.30	SET MN
6	252075.158	1305705.327	159.38	FND MN + WASH
7	251900.537	1305793.004	161.99	FND MN + WASH
8	251845.718	1305711.083	154.66	SET MN
9	252069.238	1305614.922	150.12	FND MN + WASH
10	252067.781	1305481.246	135.38	SET MN
11	251912.449	1305503.411	131.51	SET MN + WASH

SURVEY NOTES

VERTICAL DATUM:
WASHINGTON STATE PLANE COORDINATE, NAD 83/91 NORTH ZONE 4601, PER WSDOT CONTROL POINT IS 17131 AND CITY OF KIRKLAND CONTROL POINT NUMBER 24.

BASIS OF MERIDIAN:

NAVD 88 PER CITY OF KIRKLAND CONTROL POINTS NUMBER 24, CONTRACTOR TO VERIFY VERTICAL DATUM WITH TIES TO LOCAL SITE CONTROL AND TOPOGRAPHY.

BOUNDARY NOTE:

BOUNDARY AND RIGHT OF WAY SHOWN HERE ON ARE BASED ON BEST AVAILABLE RECORD INFORMATION AND TIES TO LOCAL MONUMENTATION. A TITLE REPORT WAS NOT OBTAINED FOR THE PURPOSES OF THIS SURVEY. EASEMENTS AND OTHER ENCUMBRANCES MAY EXISTING ON THE SITE THAT ARE NOT SHOWN BY THIS SURVEY.

UTILITY NOTE:

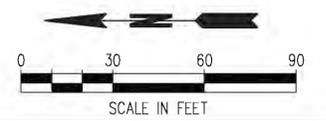
UTILITIES SHOWN HEREON ARE PER KPFF AS-BUILT OF SITE SURFACE FEATURES IN CONJUNCTION WITH UNDERGROUND UTILITY LOCATES PERFORMED BY KPFF. ALL UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE ONLY.

METHOD OF SURVEY:

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

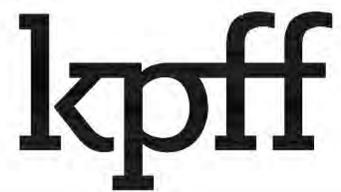
ALL WORK PERFORMED DURING THE COURSE OF THIS SURVEY MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.

SURVEY COMPLETED IN MARCH OF 2019.



N.A.V.D. 88

G1.0



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Seattle, WA 98101
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FILE	ENGR.	REVIEW	SCALE	DATE
	MHG	SK	SHOWN	09/01/2020
NO.	REVISION	BY	REVIEW	DATE



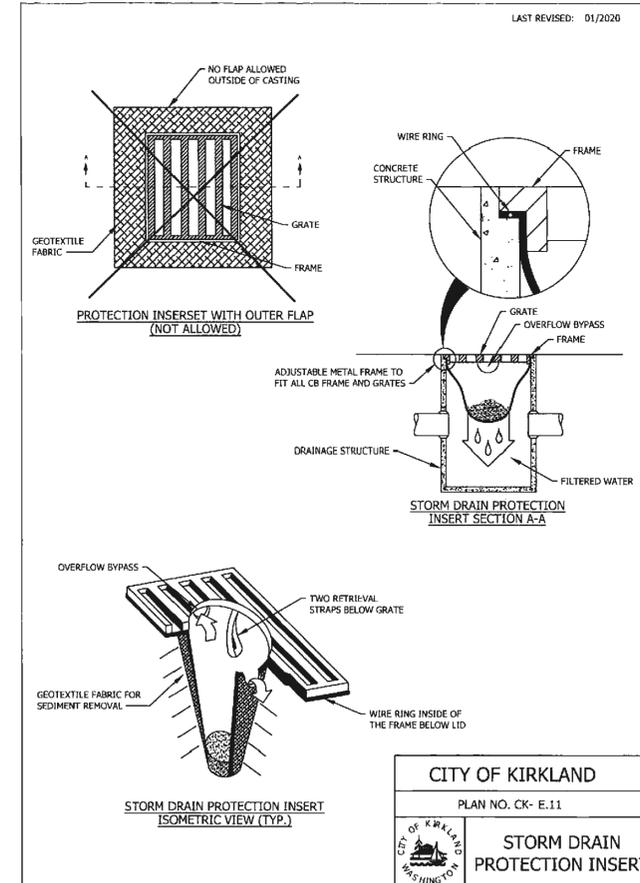
CITY OF KIRKLAND
PUBLIC WORKS DEPARTMENT
123 FIFTH AVENUE - KIRKLAND, WA 98033-6189 - (425)587-3000
CITY OF KIRKLAND MAINTENANCE CENTER
STORM POLLUTION PREVENTION PLAN
(SWPPP) UPGRADES
SITE PLAN AND HORIZONTAL CONTROL

SHEET
G1.1
27

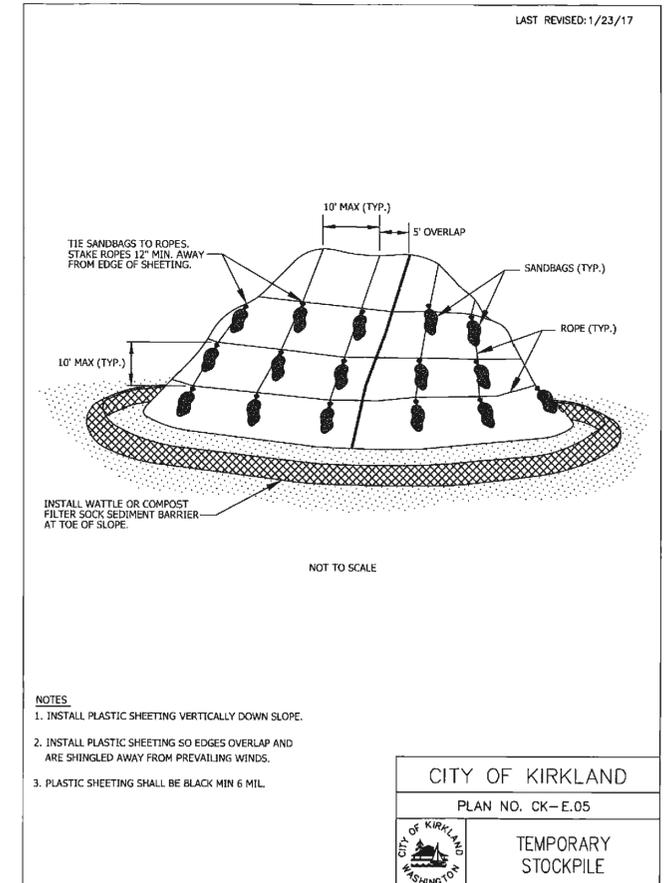
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EROSION AND SEDIMENT CONTROL NOTES

1. THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
 - 1.A. CONDUCT PRE-CONSTRUCTION MEETING.
 - 1.B. FLAG OR FENCE CLEARING LIMITS.
 - 1.C. POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.
 - 1.D. INSTALL CATCH BASIN PROTECTION DOWNSTREAM AND A DETERMINED BY THE CITY INSPECTOR.
 - 1.E. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
 - 1.F. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
 - 1.G. CONSTRUCT SEDIMENT PONDS AND TRAPS.
 - 1.H. GRADE AND STABILIZE CONSTRUCTION ROADS.
 - 1.I. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
 - 1.J. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
 - 1.K. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITION CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
 - 1.L. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
 - 1.M. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
 - 1.N. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
 - 1.O. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE LOCAL STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED MONETARY PENALTIES (KMC 1.12.200). THE MINIMUM PENALTY IS \$500. A FINE FOR A REPEAT VIOLATION SHALL BE MULTIPLIED BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATION TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOUR PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
3. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTEN IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
4. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
5. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE MARKED CLEARING LIMITS SHALL BE PERMITTED. THE MARKING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
7. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
8. A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
10. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
12. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
15. ALL DENUDED SOILS MUST BE STABILIZED WITH A APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES:
 - MAY 1 TO SEPTEMBER 30 - SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
 - OCTOBER 1 TO APRIL 30 - SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
 - STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
16. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
17. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
18. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.
19. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO E SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
20. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
21. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
22. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
23. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
24. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPs. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
25. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
26. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
27. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
28. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDD IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDD WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDD AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
29. ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.
29. IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
30. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
31. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
32. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
33. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.



1 STORM DRAIN PROTECTION INSERT
D1.0, D1.1, D2.2 SCALE: NTS



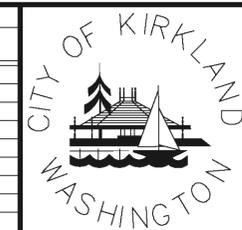
2 TEMPORARY STOCKPILE
SCALE: NTS



1601 5th Avenue, Suite 1600
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FILE	ENGR.	REVIEW	SCALE	DATE
	MHG	SK	SHOWN	09/01/2020
NO.	REVISION	BY	REVIEW	DATE



CITY OF KIRKLAND
PUBLIC WORKS DEPARTMENT
123 FIFTH AVENUE - KIRKLAND, WA 98033-6189 - (425)587-3000
CITY OF KIRKLAND MAINTENANCE CENTER
STORM POLLUTION PREVENTION PLAN
(SWPPP) UPGRADES
ESC NOTES AND DETAILS

SHEET
G1.2
27

CALL BEFORE YOU DIG: 1-800-424-5555

TESC NOTES

- (A) PROVIDE INLET PROTECTION IN ACCORDANCE WITH G1.1, DETAIL 1
- (B) PLACE COIR LOGS AROUND THE PERIMETER OF CATCH BASIN.
- (C) INSTALL SANDBAGS OR COLD PATCH ASPHALT BERM AROUND PERIMETER TO PREVENT RAINWATER RUNOFF FROM ENTERING CONSTRUCTION AREA.
- (D) CONTRACTOR TO SUBMIT PLAN TO TEMPORARILY DISCHARGE RUNOFF FROM EXISTING UPSTREAM STORMWATER PIPING IN EROSION AND WATER MANAGEMENT PLAN.
- (E) TEMPORARILY PLUG STORMWATER PIPE PRIOR TO DEMOLITION
- (F) PLACE SANDBAG OVER TEMPORARY PLASTIC SHEETING TO PREVENT OFFSITE RUNOFF FROM ENTERING CONSTRUCTION SITE.

DEMOLITION NOTES

- (1) SAWCUT PAVEMENT.
- (2) LIMITS OF FULL DEPTH PAVEMENT REMOVAL.
- (3) CAP EXISTING UTILITY. SEE SPECIFICATIONS.
- (4) DEMO EXISTING LIGHT STANDARD.
- (5) DEMO APPROXIMATELY 60 LF OF CONDUIT. SEE ELECTRICAL SPEC.
- (6) DEMO APPROXIMATELY 4.5 LF OF 12" STORMWATER PIPE.
- (7) RELOCATE EXISTING ECOLOGY BLOCKS AS SHOWN. COORDINATE NEW ECOLOGY BLOCK LOCATION WITH OWNER.
- (8) DEMO APPROXIMATELY 85 LF OF EXISTING CURB.
- (9) PROTECT IN PLACE EXISTING STORMWATER DURING CONSTRUCTION.
- (10) CORE WALL OF EXISTING STRUCTURE TO ALLOW FOR BAY 4 DRAIN DISCHARGE. CONTRACTOR TO IDENTIFY LOCATION OF REBAR WITHIN EXISTING REBAR USING NONDESTRUCTIVE METHODS PRIOR TO CORING.
- (11) PROTECT IN PLACE EXISTING ROCK RETAINING WALL.
- (12) PROTECT IN PLACE EXISTING ECO BLOCK RETAINING WALL.
- (13) PROTECT IN PLACE EXISTING CAST IN PLACE RETAINING WALL.
- (14) PROTECT IN PLACE EXISTING TREE
- (15) CONTRACTOR TO MAINTAIN ACCESS FOR COK MAINTENANCE STAFF DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH COK WHEN THIS IS NOT POSSIBLE.
- (16) APPROXIMATE SHORING EXTENTS. FINAL SHORING SYSTEM TO BE CONTRACTOR DESIGNED.
- (17) DEMOLISH 90± LF OF EX 8" DIAM PVC STORMWATER PIPE.
- (18) FILL EX STORMWATER PIPE WITH CDF PER SPECIFICATIONS.
- (19) DEMO APPROXIMATELY 10 LF OF 8" DIAM DIP STORMWATER PIPE.
- (20) DEMO EX CATCH BASIN IN PLACE PER WSDOT STANDARD SPECIFICATIONS SECTION 7-05.3(1)
- (21) DEMO APPROXIMATELY 32 LF OF 12" DIAM DIP.
- (22) PAVEMENT DEMO ASSOCIATED WITH RAINWATER LEADER CONNECTIONS AT BAY 4 NOT SHOWN AT THIS TIME. UP TO 350 SQUARE FEET OF ADDITIONAL PAVEMENT DEMOLITION IS ANTICIPATED TO ACCOMMODATE THE RAINWATER LEADER CONNECTIONS.
- (23) DEMO 11± LF OF EX 8" DIAM PVC STORMWATER PIPE.

CONSTRUCTION NOTES

- 1. PROTECT ALL EXISTING UTILITIES NOT NOTED FOR REMOVAL OR TO BE RELOCATED BY OTHERS
- 2. PROVIDE INLET PROTECTION AS NOTED ABOVE.
- 3. COORDINATE RELOCATION OF EXISTING MATERIAL STOCKPILES WITH OWNER PRIOR TO CONSTRUCTION.
- 4. SEE SHEET G1.1 FOR EROSION CONTROL GENERAL NOTES.

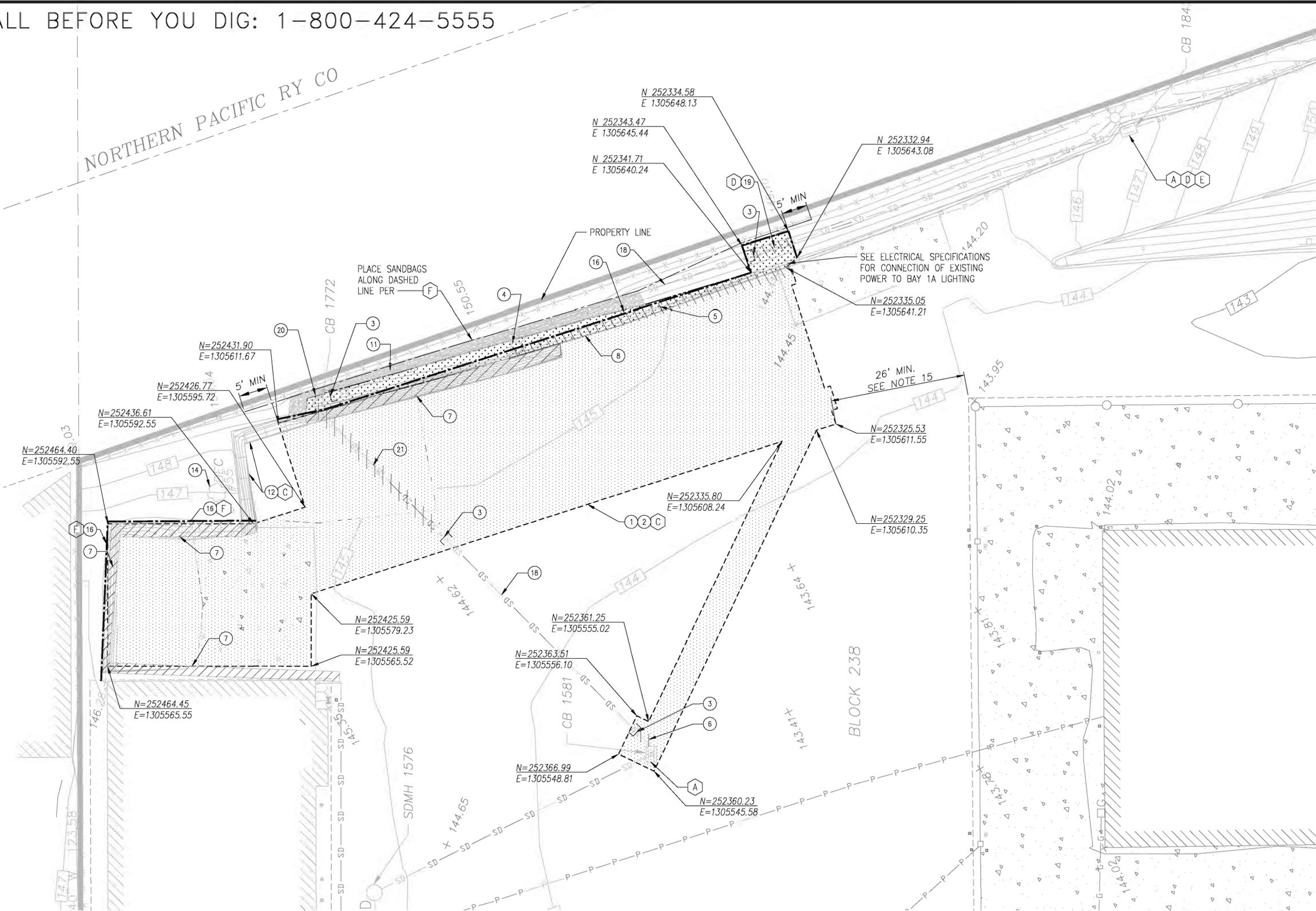
LEGEND

- SAWCUT EXISTING PAVEMENT
- DEMO EXISTING UTILITY OR RELOCATE EXISTING ECO BLOCK
- PAVEMENT DEMOLITION EXTENTS
- CLEARING/GRUBBING EXTENTS

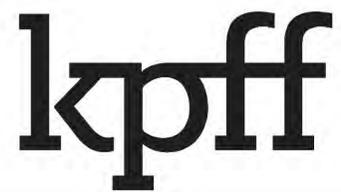
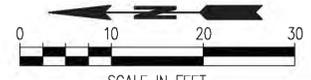


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RP01



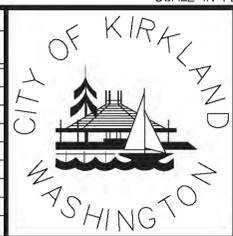
1 BAY 1A AND 1B DEMO AND TESC PLANS
G1.1, C1.0



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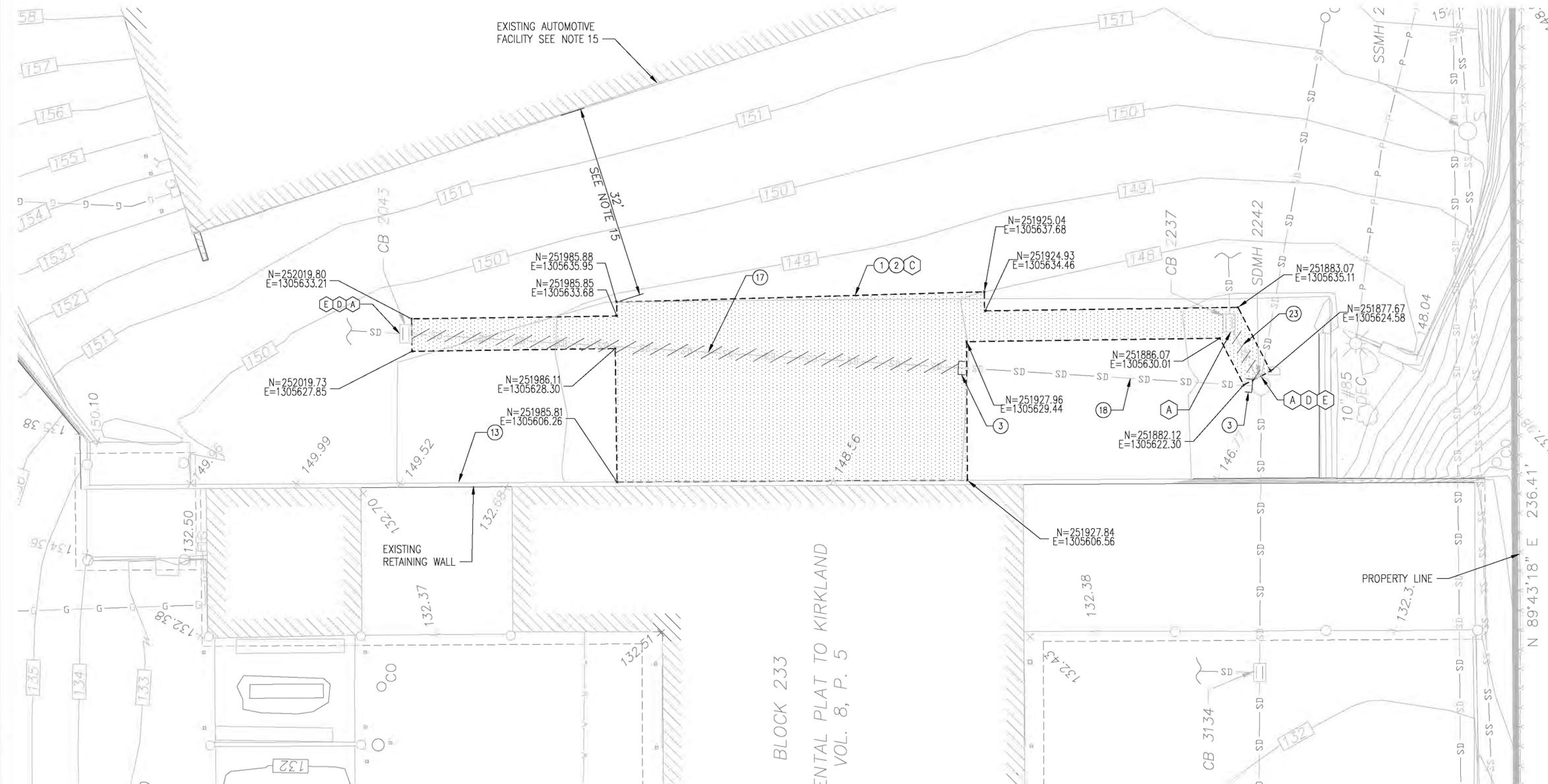
FILE	ENGR.	REVIEW	SCALE	DATE
	MHG	SK	SHOWN	09/01/2020
NO.	REVISION	BY	REVIEW	DATE



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STORM POLLUTION PREVENTION PLAN
(SWPPP) UPGRADES
BAY 1A & 1B DEMOLITION AND ESC PLANS

SHEET
D1.0
27

11/20/18 10:41:07 AM COK - Information Center - SWPPP - Drawings - Current - D:\0_1_12 - (Emergent Data Plan) - Map - G1.1 - 12 - 9/1/2020 8:32 PM



- TESC NOTES**
- (A) PROVIDE INLET PROTECTION IN ACCORDANCE WITH G1.1, DETAIL 1
 - (B) PLACE COIR LOGS AROUND THE PERIMETER OF CATCH BASIN.
 - (C) INSTALL SANDBAGS OR COLD PATCH ASPHALT BERM AROUND PERIMETER TO PREVENT RAINWATER RUNOFF FROM ENTERING CONSTRUCTION AREA.
 - (D) CONTRACTOR TO SUBMIT PLAN TO TEMPORARILY DISCHARGE RUNOFF FROM EXISTING UPSTREAM STORMWATER PIPING IN EROSION AND WATER MANAGEMENT PLAN.
 - (E) TEMPORARILY PLUG STORMWATER PIPE PRIOR TO DEMOLITION
 - (F) PLACE SANDBAG OVER TEMPORARY PLASTIC SHEETING TO PREVENT OFFSITE RUNOFF FROM ENTERING CONSTRUCTION SITE.

- DEMOLITION NOTES**
- (1) SAWCUT PAVEMENT.
 - (2) LIMITS OF FULL DEPTH PAVEMENT REMOVAL.
 - (3) CAP EXISTING UTILITY. SEE SPECIFICATIONS.
 - (4) DEMO EXISTING LIGHT STANDARD.
 - (5) DEMO APPROXIMATELY 60 LF OF CONDUIT. SEE ELECTRICAL SPEC.
 - (6) DEMO APPROXIMATELY 4.5 LF OF 12" STORMWATER PIPE.
 - (7) RELOCATE EXISTING ECOLOGY BLOCKS AS SHOWN. COORDINATE NEW ECOLOGY BLOCK LOCATION WITH OWNER.
 - (8) DEMO APPROXIMATELY 85 LF OF EXISTING CURB.
 - (9) PROTECT IN PLACE EXISTING STORMWATER DURING CONSTRUCTION.
 - (10) CORE WALL OF EXISTING STRUCTURE TO ALLOW FOR BAY 4 DRAIN DISCHARGE. CONTRACTOR TO IDENTIFY LOCATION OF REBAR WITHIN EXISTING REBAR USING NONDESTRUCTIVE METHODS PRIOR TO CORING.
 - (11) PROTECT IN PLACE EXISTING ROCK RETAINING WALL.
 - (12) PROTECT IN PLACE EXISTING ECO BLOCK RETAINING WALL.
 - (13) PROTECT IN PLACE EXISTING CAST IN PLACE RETAINING WALL.
 - (14) PROTECT IN PLACE EXISTING TREE
 - (15) CONTRACTOR TO MAINTAIN ACCESS FOR COK MAINTENANCE STAFF DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH COK WHEN THIS IS NOT POSSIBLE.
 - (16) APPROXIMATE SHORING EXTENTS. FINAL SHORING SYSTEM TO BE CONTRACTOR DESIGNED.
 - (17) DEMOLISH 90± LF OF EX 8" DIAM PVC STORMWATER PIPE.
 - (18) FILL EX STORMWATER PIPE WITH CDF PER SPECIFICATIONS.
 - (19) DEMO APPROXIMATELY 10 LF OF 8" DIAM DIP STORMWATER PIPE.
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 - (23) DEMO 11± LF OF EX 8" DIAM PVC STORMWATER PIPE.

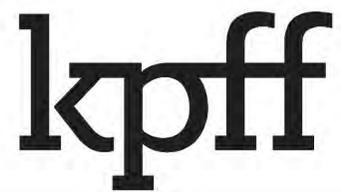
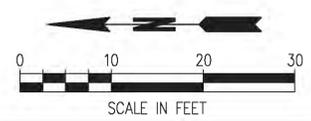
- CONSTRUCTION NOTES**
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 - 2. PROVIDE INLET PROTECTION AS NOTED ABOVE.
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 - 4. SEE SHEET G1.1 FOR EROSION CONTROL GENERAL NOTES.

LEGEND

- SAWCUT EXISTING PAVEMENT
- DEMO EXISTING UTILITY OR RELOCATE EXISTING ECO BLOCK
- PAVEMENT DEMOLITION EXTENTS
- CLEARING/GRUBBING EXTENTS

DATUM
N.A.V.D. 88

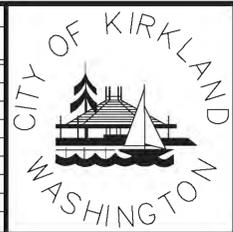
1 ENLARGED PAVING PLAN
C1.0



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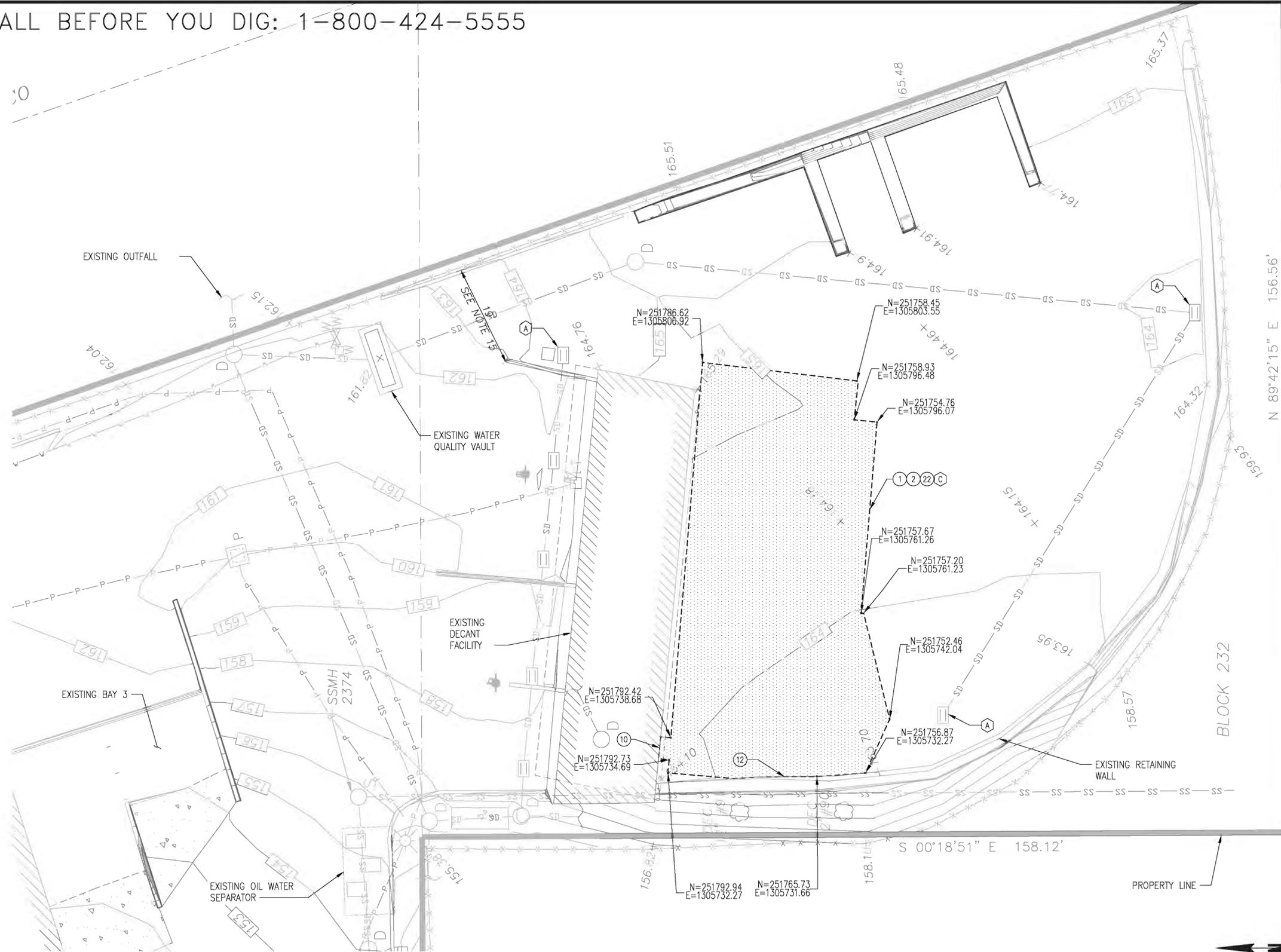
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(SWPPP) UPGRADES
BAY 2 DEMOLITION & ESC PLAN

RP01
SHEET
D1.1
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1 ENLARGED PAVING PLAN
G1.0 C1.0

- TESC NOTES**
- (A) PROVIDE INLET PROTECTION IN ACCORDANCE WITH G1.1, DETAIL 1
 - (B) PLACE COIR LOGS AROUND THE PERIMETER OF CATCH BASIN.
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- CONSTRUCTION NOTES**
- 1. PROTECT ALL EXISTING UTILITIES NOT NOTED FOR REMOVAL OR TO BE RELOCATED BY OTHERS
 - 2. PROVIDE INLET PROTECTION AS NOTED ABOVE.
 - 3. COORDINATE RELOCATION OF EXISTING MATERIAL STOCKPILES WITH OWNER PRIOR TO CONSTRUCTION.
 - 4. SEE SHEET G1.1 FOR EROSION CONTROL GENERAL NOTES.

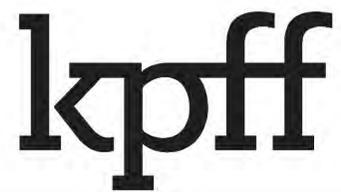
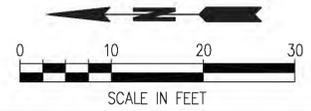
LEGEND

- SAWCUT EXISTING PAVEMENT
- /// DEMO EXISTING UTILITY OR RELOCATE EXISTING ECO BLOCK
- ... PAVEMENT DEMOLITION EXTENTS
- CLEARING/GRUBBING EXTENTS

DATUM

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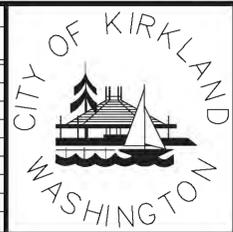
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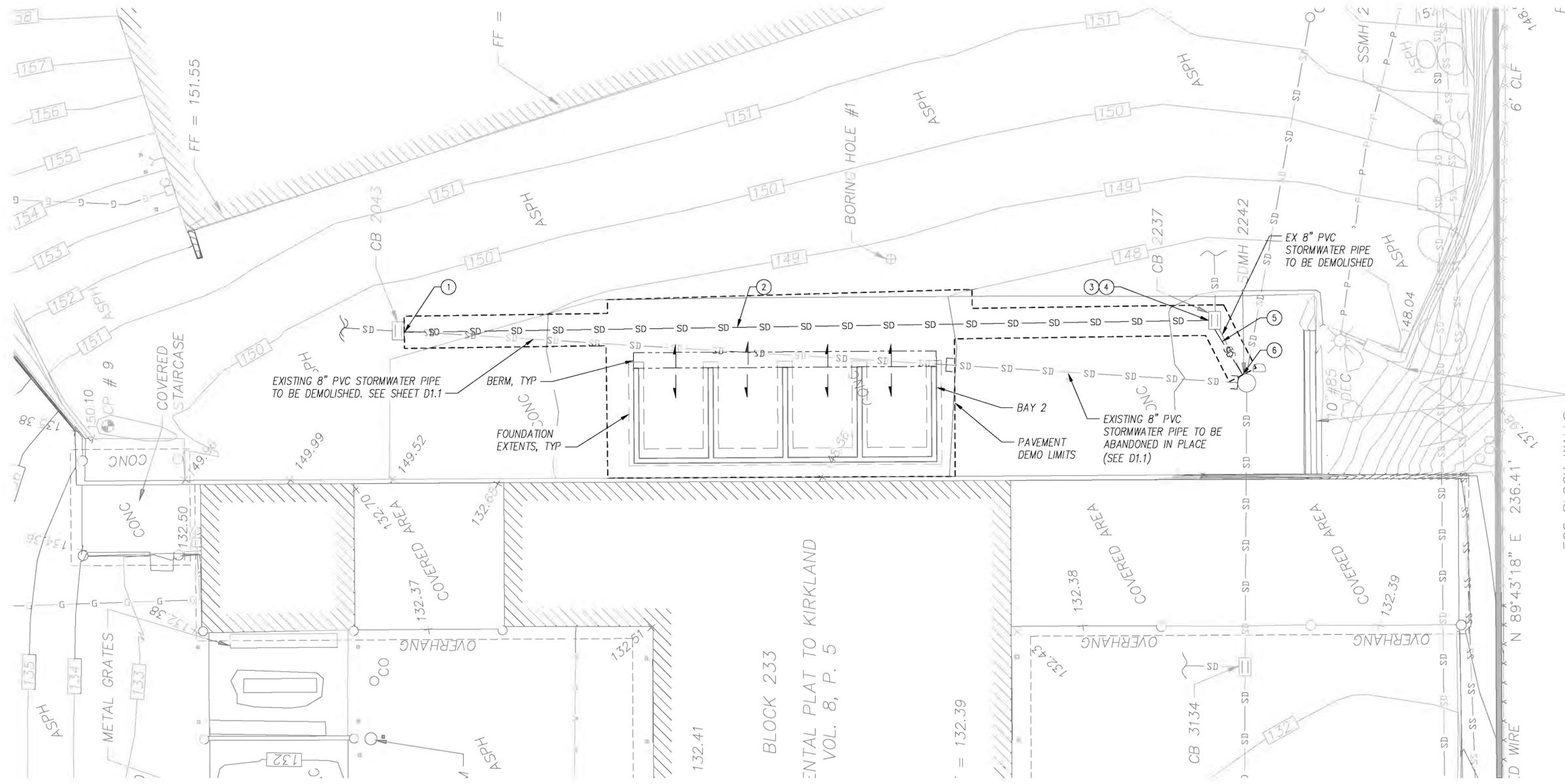
CITY OF KIRKLAND MAINTENANCE CENTER
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BAY 4 DEMOLITION & ESC PLAN

SHEET
D1.2
27

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STORM DRAINAGE NOTES

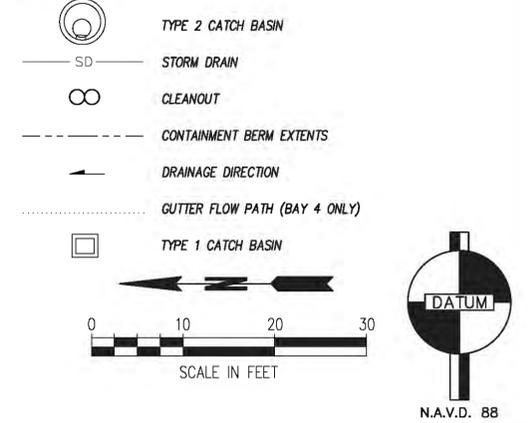
- ① CONNECT TO EXISTING TYPE 1 CATCH BASIN WITH WATER TIGHT CONNECTIN, SAND COLLAR WITH NON-SHRINK GROUT OR APPROVED EQUAL. IE=145.35
- ② 134 LF 8" DIAM SDR 35 PVC PIPE, SLOPE AT 2.75%
- ③ CONNECT TO EXISTING TYPE 1 CATCH BASIN, IE=141.66
- ④ ADD CATCH BASIN RISER AS NEEDED TO FACILITATE NEW PIPE INVERT
- ⑤ 11.5 LF 8" DIAM SDR 35 PVC PVC PIPE, SLOPE AT 2.75%
- ⑥ CONNECT TO EXISTING MANHOLE, IE=141.34



STORM DRAINAGE CONSTRUCTION NOTES

1. CONTRACTOR IS TO ENSURE ALL INSTALLED STORMWATER PIPES ARE CLEAN OF SEDIMENT AND DEBRIS PRIOR TO CONSTRUCTION COMPLETION.
2. DRAINAGE INFORMATION SHOWN ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY. SEE C2.0, 2.1, AND 2.2 FOR DETAILED GRADING PLANS.
3. IN THE EVENT EXISTING PIPE DIAMETER, INVERT, AND/OR MATERIAL IS INCONSISTENT WITH DESCRIBED IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE DEMOLITION OF EXISTING PIPE.
4. CONTRACTOR TO CONNECT RAINWATER LEADERS FROM NEW BUILDINGS TO NEW STORMWATER FEATURES. UPON DESIGN OF PREFABRICATED STRUCTURES, CONTRACTOR TO SUBMIT PROPOSED RAINWATER LEADER ROUTING FROM STRUCTURE TO STORMWATER SYSTEM CONNECTION POINTS FOR ENGINEER'S APPROVAL. A MINIMUM OF 1 CLEANOUT IS TO BE PROVIDED ON EACH PIPE RUN CLEANOUT PER SHEET 1.3, DETAIL 3.

LEGEND



1 BAY 2 DRAINAGE PLAN
G1.0

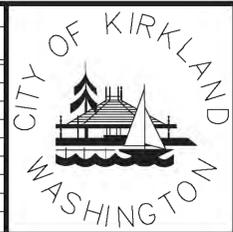
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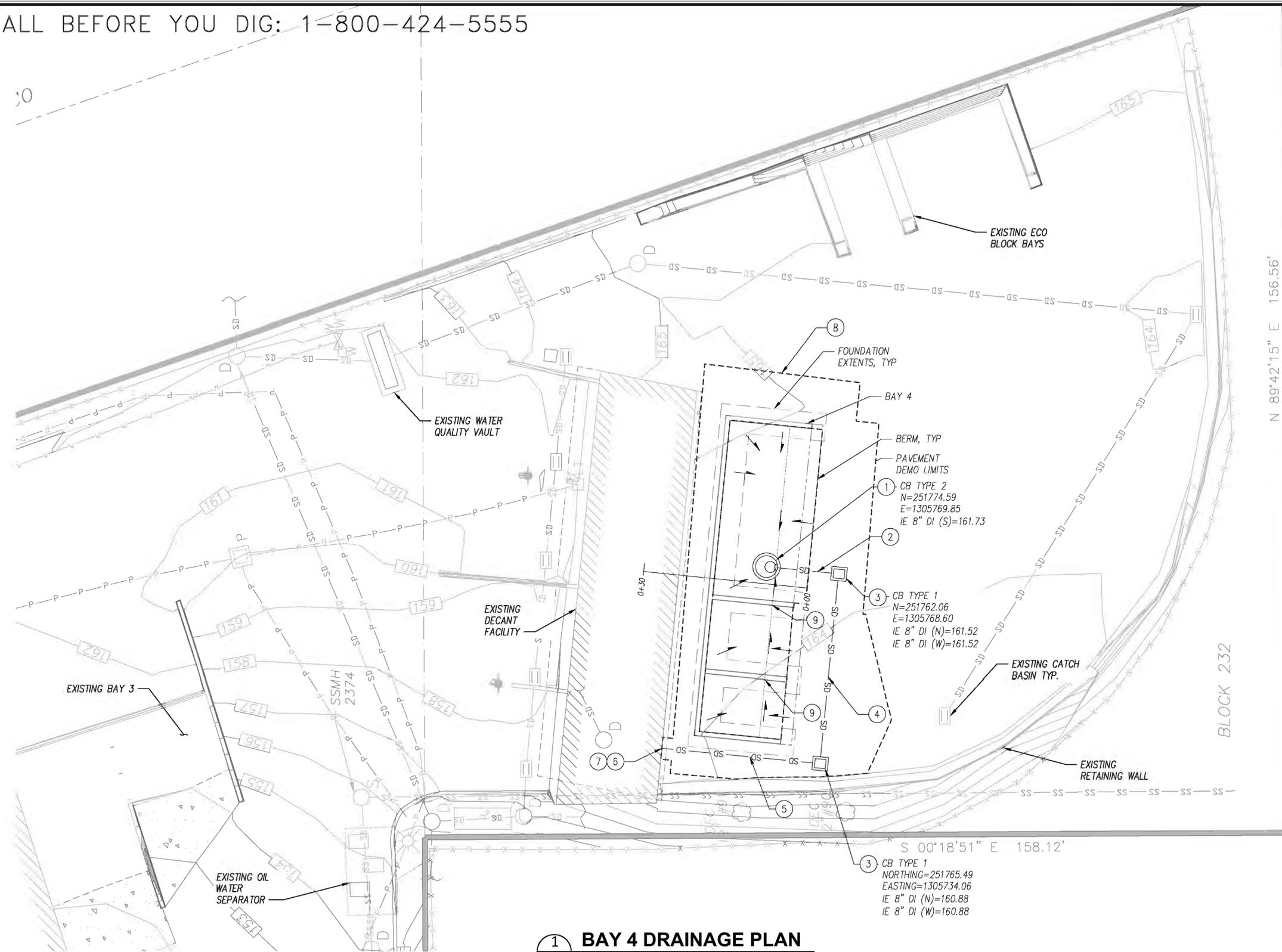
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27

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1 BAY 4 DRAINAGE PLAN
G1.0 C1.0

STORM DRAINAGE NOTES

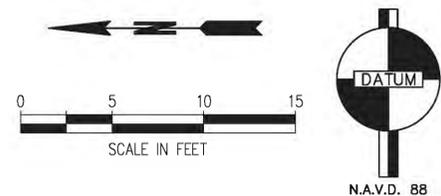
- ① CATCH BASIN TYPE 2 GRATE PER SHEET C1.3, DETAIL 1
- ② INSTALL 10.72 LF 8" DIAM CL 50 DI PIPE, SLOPE AT 2.00%
- ③ TYPE 1 CB PER CITY OF KIRKLAND PRE-APPROVED PLAN NO CK-5.07. INSTALL WITH SOLID LID AND GASKET BETWEEN CATCH BASIN RIM AND FRAME TO ENSURE NO RUNOFF ENTERS CATCH BASIN. CONNECT TO EXISTING CATCH BASIN WITH WATER TIGHT CONNECTION, SAND COLLAR WITH NON-SHRINK GROUT OR APPROVED EQUAL.
- ④ 32.22 LF 8" DIAM CL 50 DI PIPE, SLOPE AT 2.00%
- ⑤ 32.22 LF 8" DIAM CL 50 DI PIPE, SLOPE AT 2.00%
- ⑥ PENETRATE EXISTING DECANT FACILITY WALL PER S4.1, DETAIL 11 IE=160.24 USE 12" DIAM CL 50 DI PIPE FOR PIPE SLEEVE.
- ⑦ EFFLUENT FROM BAY 4 TO DISCHARGE INTO THE EXISTING DECANT STRUCTURE WHERE IT WILL BE DISCHARGED TO EXISTING OIL WATER SEPARATOR #2 AND THEN TO THE EXISTING SANITARY SEWER.
- ⑧ PAVEMENT RESTORATION ASSOCIATED WITH RAINWATER LEADER CONNECTIONS TO THE EXISTING STORMWATER SYSTEM NOT SHOWN AT THIS TIME. UP TO 350 SQUARE FEET OF ADDITIONAL PAVEMENT RESTORATION IS ANTICIPATED TO ACCOMMODATE THE RAINWATER LEADER CONNECTIONS.
- ⑨ INSTALL 6" CAST IN PLACE PVC PIPE AND 8" SLEEVE IN WALL PER SHEET S4.1, DETAIL 11 TO ALLOW FLOW BETWEEN BAY GUTTERS. SEE SHEET C2.1 FOR GUTTER INVERT.

STORM DRAINAGE CONSTRUCTION NOTES

1. CONTRACTOR IS TO ENSURE ALL INSTALLED STORM LINES ARE CLEAN OF SEDIMENT AND DEBRIS PRIOR TO CONSTRUCTION COMPLETION.
2. DRAINAGE INFORMATION SHOWN ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY. SEE C2.0, 2.1, AND 2.2 FOR DETAILED GRADING PLANS.
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LEGEND

- TYPE 2 CATCH BASIN
- STORM DRAIN
- CLEANOUT
- CONTAINMENT BERM EXTENTS
- DRAINAGE DIRECTION
- GUTTER FLOW PATH (BAY 4 ONLY)
- TYPE 1 CATCH BASIN



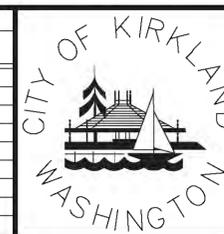
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BAY 4 DRAINAGE PLAN

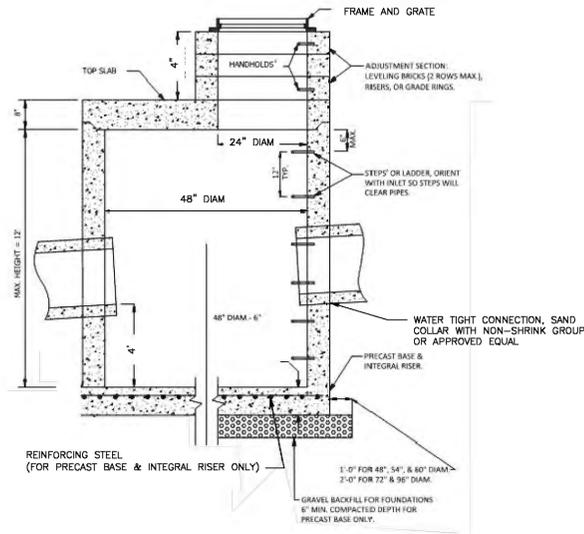
RP01

SHEET

C1.2

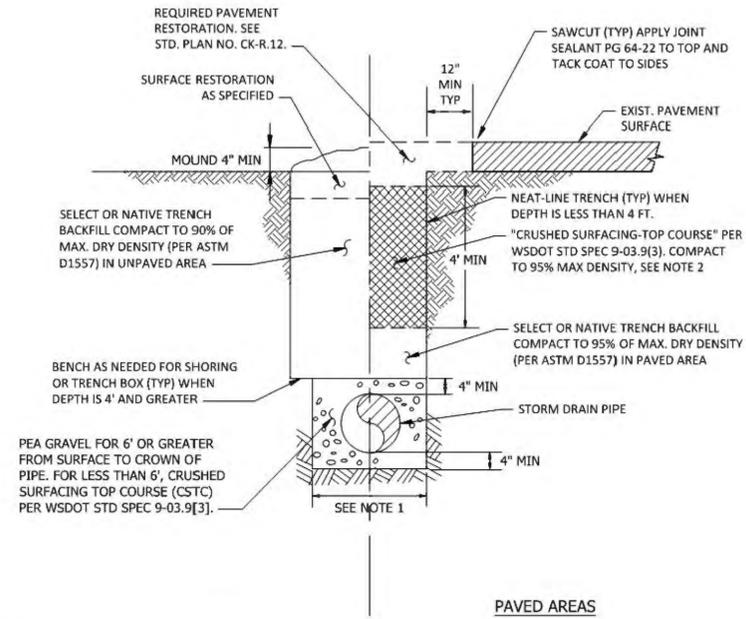
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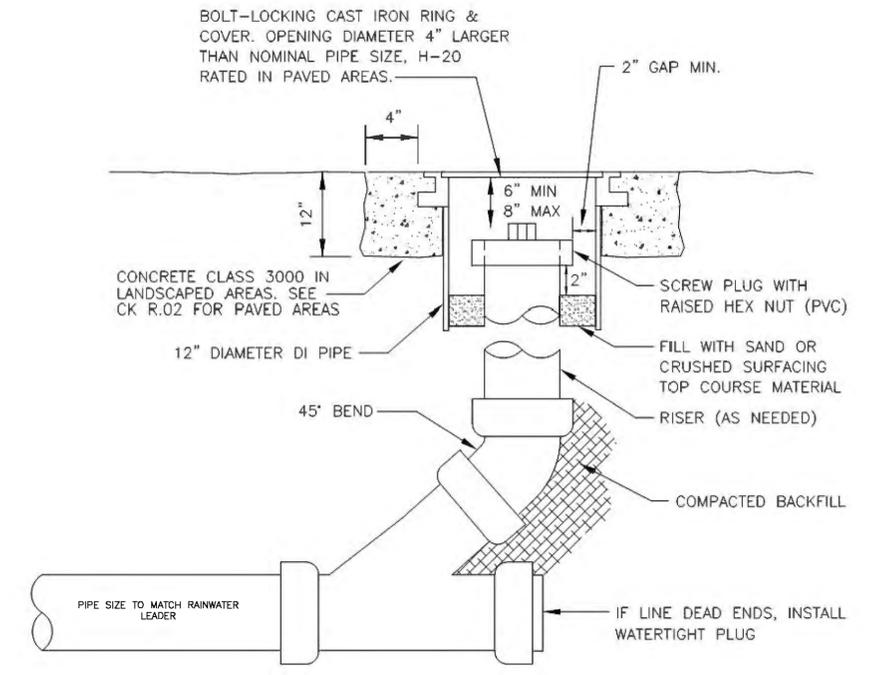
- NOTES:**
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M199) AND ASTM C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
 - HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE STD. DTL. NO. CK-D.12, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
 - ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
 - CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC. 7.05 OF THE STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
 - ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
 - MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
 - FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE STD. DTL. NO. CK-D.12 AND CK-S.14.
 - ALL MANHOLE JOINTS SHALL USE A CONFINED RUBBER GASKET AND GROUTED (INSIDE AND OUT) TO MEET ASTM C-443 SPECIFICATIONS.
 - SEE SHEET 2.3, DETAIL 4 FOR SUBGRADE PREP ABOVE CATCH BASIN.

1 TYPE 2 CATCH BASIN DETAIL AT BAY 4
C1.2 SCALE: NTS



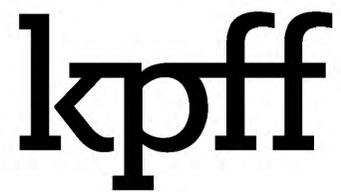
- NOTES:**
- MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE * 30" FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.
 - NOT USED.
 - SEE OVERLAY POLICY R-7.
 - INSTALL TRACE WIRE 2' BELOW SURFACE.

2 STORM DRAIN TRENCH DETAIL
C1.0, C1.1 C1.2 SCALE: NTS



- NOTES:**
- CAST IRON COVER SHALL READ EITHER "STORM" OR "DRAIN".
 - LOCKING BOLTS FOR COVER SHALL BE 5/8" -11 NC STAINLESS STEEL TYPE 304 SOCKET (ALLEN) HEAD BOLTS, 2 INCHES LONG.

3 CLEANOUT DETAIL
C1.0, C1.1 C1.2 SCALE: NTS



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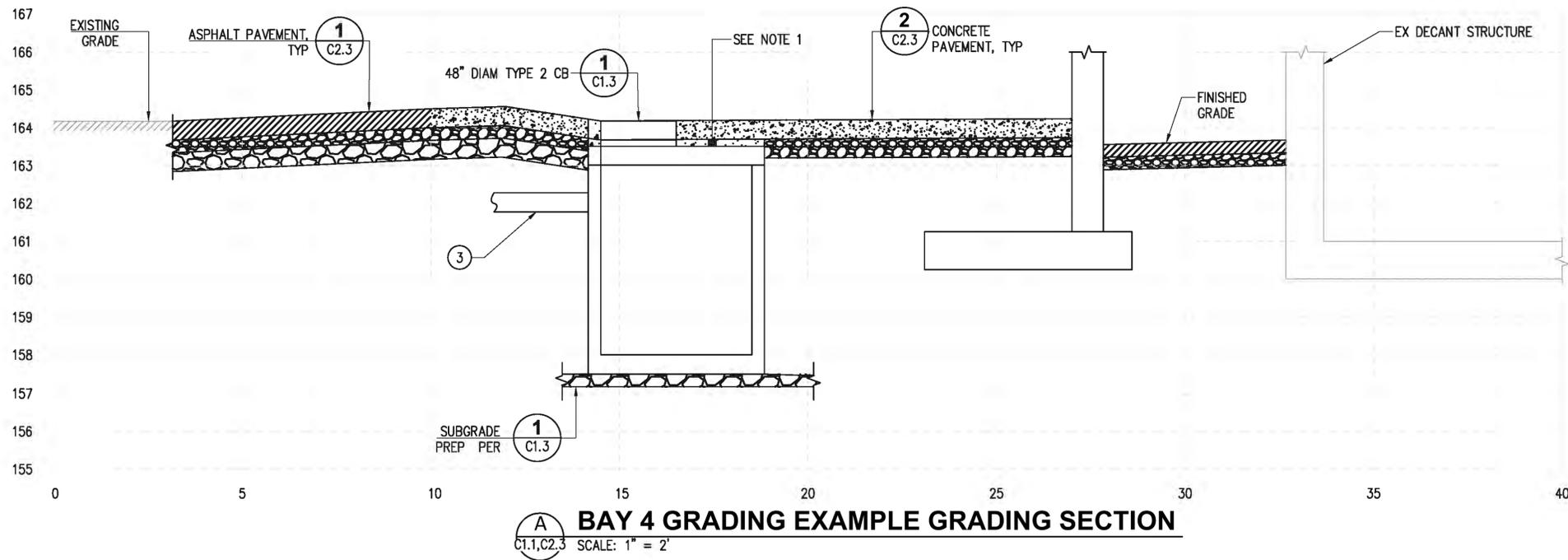
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(SWPPP) UPGRADES
STORMWATER DETAILS

RP01
SHEET
C1.3
27

10/18/2018 10:41:07 AM C:\Users\carter\Documents\Drawings\Storm\1.3_Stormwater_Detail\1011013_Stormwater_Detail.dwg C:\Users\carter\Documents\10/1/2020 9:50 PM

CONSTRUCTION NOTES:

1. FILL SPACE BETWEEN BOTTOM OF CONCRETE SLAB AND TOP OF CATCH BASIN WITH CDF.
2. SUBBASE SHOWN IN PROFILES HAVE BEEN SIMPLIFIED FOR CLARITY. SEE DETAILS 1 AND 2 AND SHEET C2.3 FOR SUBBASE DETAILS.
3. SEE SHEET C1.3 FOR BAY 4 STORM DRAIN ROUTING.
4. THIS SECTION HAS BEEN PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. SEE PLANS FOR DETAILED GRADING AND PAVING INFORMATION.



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(SWPPP) UPGRADES
BAY 4 EXAMPLE GRADING SECTION

SHEET
C1.4
27

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GENERAL NOTES

1. SEE SHEET 2.2 FOR BAY 1A WALLS
2. SEE SHEET 2.4 FOR BAY 1B WALLS
3. SEE SHEET S2.3 FOR BAY 4 WALLS
4. SEE SHEET S2.5 FOR BAY 2 WALLS
5. SEE SHEET C2.4 FOR EXAMPLE GRADING SECTIONS

PAVING NOTES

- 1 RESTORE ASPHALT PAVEMENT PER C2.3, DETAIL 1. SEE SPOT ELEVATIONS IN PLAN VIEW.
- 2 ELEVATED BERM TO PROVIDE CONTAINMENT OF RUNOFF FROM MATERIAL BAYS.
- 3 BACKFILL EXISTING VEGETATED AREA DISTURBED BY BAY 1A CONSTRUCTION WITH NATIVE MATERIAL. STABILIZE DISTURBED AREA WITH 2" DEEP MULCH PER WSDOT 9-14.4(3). SEE D1.1 FOR EXTENTS.
- 4 GRADE BREAK SEE SPOT ELEVATION.
- 5 AREA WAS UNABLE TO BE SURVEYED DUE TO EXISTING STOCKPILE. EXISTING AND PROPOSED GRADES IN THIS AREA ARE ASSUMED. THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND VERIFY THAT THE PROPOSED GRADING IN THIS AREA WILL NOT RESULT IN DISCONTINUITIES, LARGE GRADE BREAKS OR ISOLATED LOW SPOTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SUSPECTED PROBLEMS PRIOR TO THE PLACEMENT OF ANY BASE COURSE MATERIAL.
- 6 SEE DEMO SHEETS FOR SAWCUT LIMITS.
- 7 SAWCUT CONCRETE PAVEMENT SEE C2.3, DETAIL 4
- 8 SLOPE SIDE OF BERM AT 2:1 TO MATCH GRADE AS SHOWN
- 9 RESTORE EXISTING ECO BLOCK WALL
- 10 PAVEMENT RESTORATION ASSOCIATED WITH RAINWATER LEADER CONNECTIONS TO THE EXISTING STORMWATER SYSTEM NOT SHOWN AT THIS TIME. UP TO 350 SQUARE FEET OF ADDITIONAL PAVEMENT RESTORATION AT BAY 4 IS ANTICIPATED TO ACCOMMODATE THE RAINWATER LEADER CONNECTIONS.
- 11 NOT USED
- 12 ISOLATION JOINT - SAW GROOVE WIDTH 1/8" MIN TO 3/8" MAX. SEE WSDOT STD SPEC SEC. 5-05.3(B)B.
- 13 PROVIDE CONCRETE OPEN JOINT AT ALL CONCRETE PAVEMENT TO CAST IN PLACE WALL INTERFACES. CONCRETE OPEN JOINT PER WSDOT STANDARD PLAN A-40.20-04, DETAIL 7.
- 14 CONTRACTOR TO PROVIDE CONCRETE JOINTING PLAN FOR ENGINEER'S APPROVAL. JOINTING PLAN TO BE SUBMITTED A MINIMUM OF 1 WEEK BEFORE SCHEDULED CONCRETE POUR DATE.

LEGEND

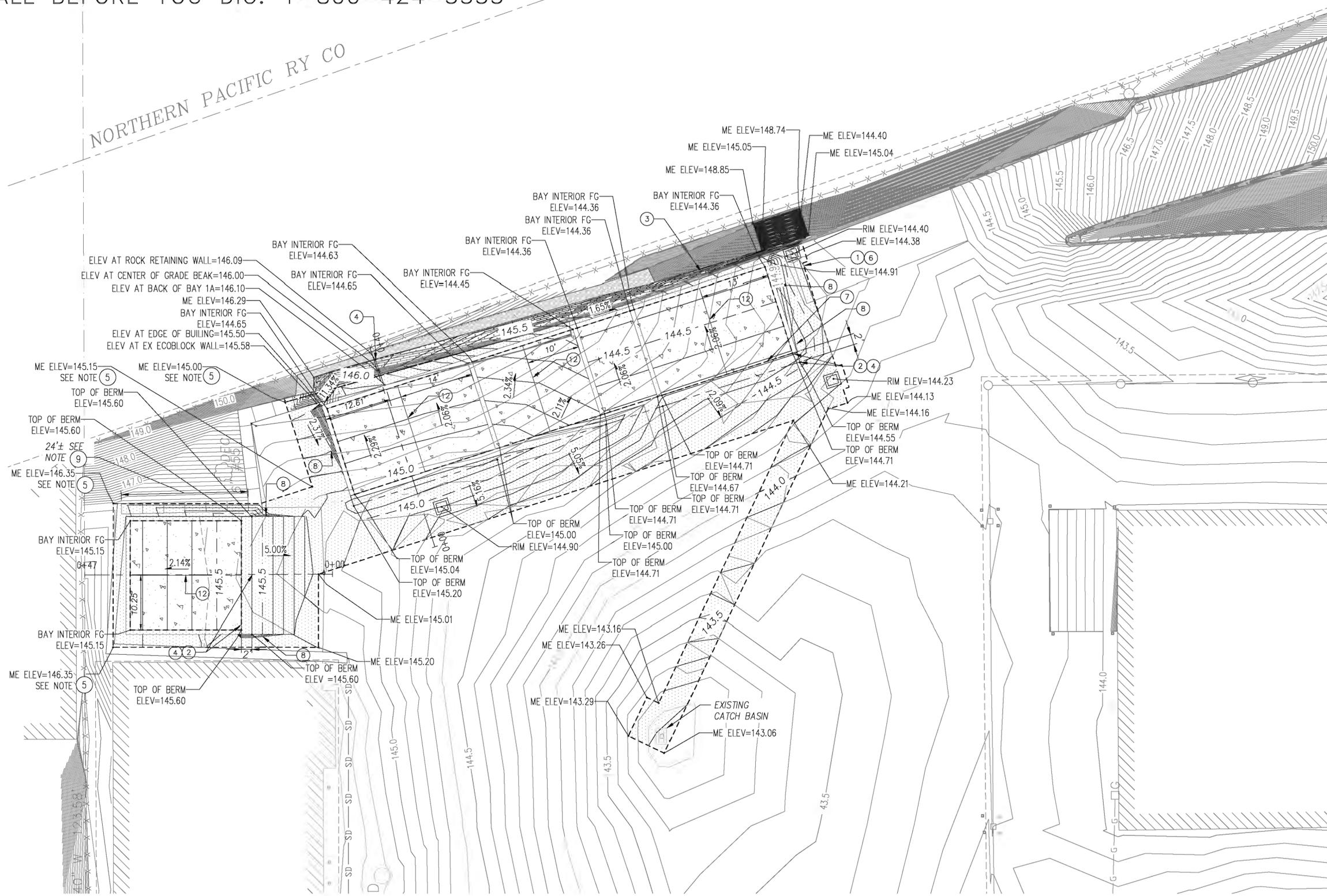
	ASPHALT REPAIR EXTENTS, SEE 1 C2.3
	SOIL STABILIZATION AREA
	CONCRETE PAVEMENT, SEE 2 C2.3
	MAJOR CONTOUR
	MINOR CONTOUR
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR



N.A.V.D. 88

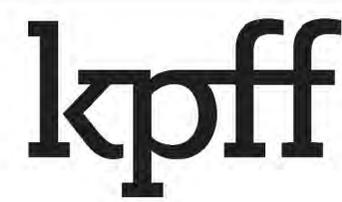


SCALE IN FEET



1 ENLARGED PAVING PLAN
C1.0

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(SWPPP) UPGRADES
BAY 1A & 1B PAVING PLAN

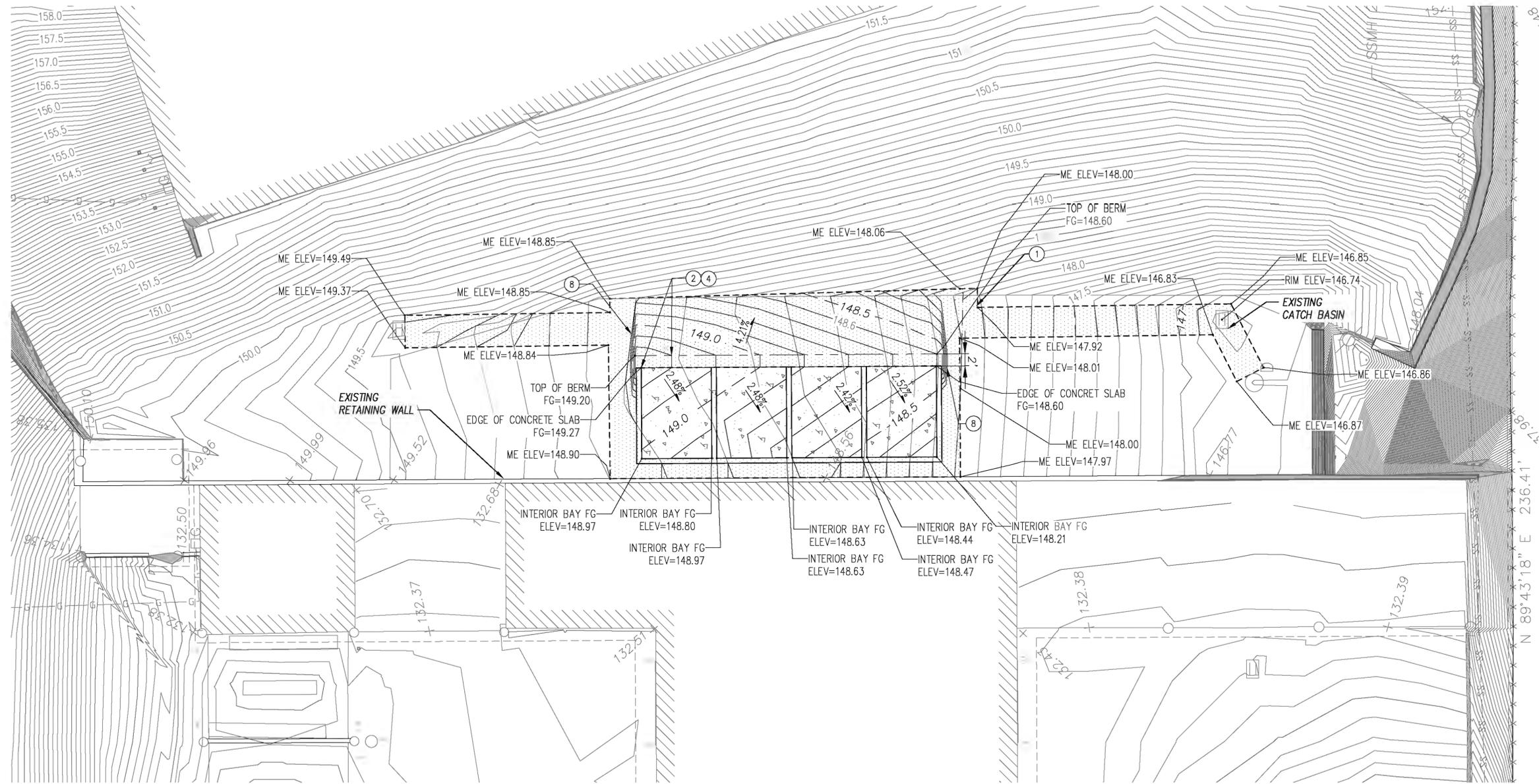
RP01
SHEET
C2.0
27

GENERAL NOTES

1. SEE SHEET 2.2 FOR BAY 1A WALLS
2. SEE SHEET 2.4 FOR BAY 1B WALLS
3. SEE SHEET S2.3 FOR BAY 4 WALLS
4. SEE SHEET S2.5 FOR BAY 2 WALLS
5. SEE SHEET C2.4 FOR EXAMPLE GRADING SECTIONS

PAVING NOTES

- ① RESTORE ASPHALT PAVEMENT PER C2.3, DETAIL 1. SEE SPOT ELEVATIONS IN PLAN VIEW.
- ② ELEVATED BERM TO PROVIDE CONTAINMENT OF RUNOFF FROM MATERIAL BAYS.
- ③ BACKFILL EXISTING VEGETATED AREA DISTURBED BY BAY 1A CONSTRUCTION WITH NATIVE MATERIAL. STABILIZE DISTURBED AREA WITH 2" DEEP MULCH PER WSDOT 9-14.4(3). SEE D1.1 FOR EXTENTS.
- ④ GRADE BREAK SEE SPOT ELEVATION.
- ⑤ AREA WAS UNABLE TO BE SURVEYED DUE TO EXISTING STOCKPILE. EXISTING AND PROPOSED GRADES IN THIS AREA ARE ASSUMED. THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND VERIFY THAT THE PROPOSED GRADING IN THIS AREA WILL NOT RESULT IN DISCONTINUITIES, LARGE GRADE BREAKS OR ISOLATED LOW SPOTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SUSPECTED PROBLEMS PRIOR TO THE PLACEMENT OF ANY BASE COURSE MATERIAL.
- ⑥ SEE DEMO SHEETS FOR SAWCUT LIMITS.
- ⑦ SAWCUT CONCRETE PAVEMENT SEE C2.3, DETAIL 4
- ⑧ SLOPE SIDE OF BERM AT 2:1 TO MATCH GRADE AS SHOWN
- ⑨ RESTORE EXISTING ECO BLOCK WALL
- ⑩ PAVEMENT RESTORATION ASSOCIATED WITH RAINWATER LEADER CONNECTIONS TO THE EXISTING STORMWATER SYSTEM NOT SHOWN AT THIS TIME. UP TO 350 SQUARE FEET OF ADDITIONAL PAVEMENT RESTORATION AT BAY 4 IS ANTICIPATED TO ACCOMMODATE THE RAINWATER LEADER CONNECTIONS.
- ⑪ NOT USED
- ⑫ NOT USED
- ⑬ PROVIDE CONCRETE OPEN JOINT AT ALL CONCRETE PAVEMENT TO CAST IN PLACE WALL INTERFACES. CONCRETE OPEN JOINT PER WSDOT STANDARD PLAN A-40.20-04, DETAIL 7.
- ⑭ CONTRACTOR TO PROVIDE CONCRETE JOINTING PLAN FOR ENGINEER'S APPROVAL. JOINTING PLAN TO BE SUBMITTED A MINIMUM OF 1 WEEK BEFORE SCHEDULED CONCRETE POUR DATE.



LEGEND

	ASPHALT REPAIR EXTENTS, SEE ① C2.3
	SOIL STABILIZATION AREA
	CONCRETE PAVEMENT, SEE ② C2.3
	MAJOR CONTOUR
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR

0 30
SCALE IN FEET

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① ENLARGED PAVING PLAN
C1.0



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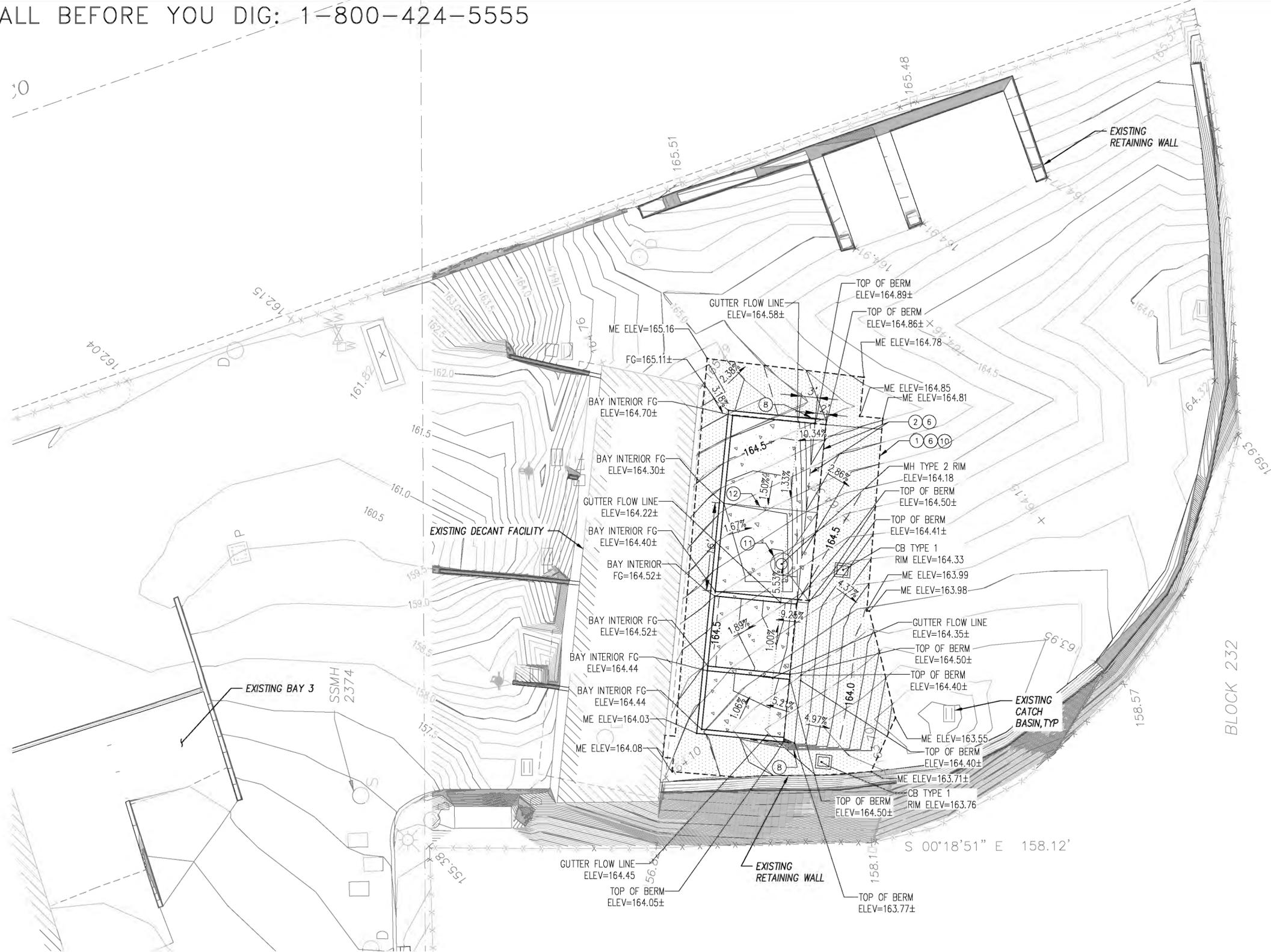


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(SWPPP) UPGRADES
BAY 2 PAVING PLAN

RP01
SHEET
C2.1
27

14/2018/1041600708_C01_Maintenance_Center_SWPPP_Design/Current/C2.1/Plan/Plan_C2.1_Paving_Conc_09/01/2020_7.13_M

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GENERAL NOTES

1. SEE SHEET 2.2 FOR BAY 1A WALLS
2. SEE SHEET 2.4 FOR BAY 1B WALLS
3. SEE SHEET S2.3 FOR BAY 4 WALLS
4. SEE SHEET S2.5 FOR BAY 2 WALLS
5. SEE SHEET C1.4 FOR EXAMPLE GRADING SECTION

PAVING NOTES

- ① RESTORE ASPHALT PAVEMENT PER C2.3, DETAIL 1. SEE SPOT ELEVATIONS IN PLAN VIEW.
- ② ELEVATED BERM TO PROVIDE CONTAINMENT OF RUNOFF FROM MATERIAL BAYS.
- ③ BACKFILL EXISTING VEGETATED AREA DISTURBED BY BAY 1A CONSTRUCTION WITH NATIVE MATERIAL. STABILIZE DISTURBED AREA WITH 2" DEEP MULCH PER WSDOT 9-14.4(3). SEE D1.1 FOR EXTENTS.
- ④ GRADE BREAK SEE SPOT ELEVATION.
- ⑤ AREA WAS UNABLE TO BE SURVEYED DUE TO EXISTING STOCKPILE. EXISTING AND PROPOSED GRADES IN THIS AREA ARE ASSUMED. THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND VERIFY THAT THE PROPOSED GRADING IN THIS AREA WILL NOT RESULT IN DISCONTINUITIES, LARGE GRADE BREAKS OR ISOLATED LOW SPOTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SUSPECTED PROBLEMS PRIOR TO THE PLACEMENT OF ANY BASE COURSE MATERIAL.
- ⑥ SEE DEMO SHEETS FOR SAWCUT LIMITS.
- ⑦ SAWCUT CONCRETE PAVEMENT SEE C2.3, DETAIL 4
- ⑧ SLOPE SIDE OF BERM AT 2:1 TO MATCH GRADE AS SHOWN
- ⑨ RESTORE EXISTING ECO BLOCK WALL
- ⑩ PAVEMENT RESTORATION ASSOCIATED WITH RAINWATER LEADER CONNECTIONS TO THE EXISTING STORMWATER SYSTEM NOT SHOWN AT THIS TIME. UP TO 350 SQUARE FEET OF ADDITIONAL PAVEMENT RESTORATION AT BAY 4 IS ANTICIPATED TO ACCOMMODATE THE RAINWATER LEADER CONNECTIONS.
- ⑪ 3/4" ISOLATION JOINT - 3/4" PREMOLDED JOINT FILLER, PER WSDOT STANDARD PLAN A40.15-00 CONDITION I.
- ⑫ ISOLATION JOINT - SAW GROOVE WIDTH 1/8" MIN TO 3/8" MAX. SEE WSDOT STD SPEC SEC. 5-05.3(8)B.
- ⑬ PROVIDE CONCRETE OPEN JOINT AT ALL CONCRETE PAVEMENT TO CAST IN PLACE WALL INTERFACES. CONCRETE OPEN JOINT PER WSDOT STANDARD PLAN A-40.20-04, DETAIL 7.
- ⑭ CONTRACTOR TO PROVIDE CONCRETE JOINTING PLAN FOR ENGINEER'S APPROVAL. JOINTING PLAN TO BE SUBMITTED A MINIMUM OF 1 WEEK BEFORE SCHEDULED CONCRETE POUR DATE.

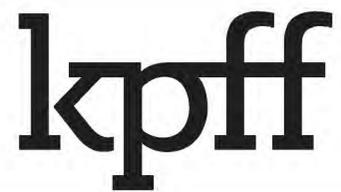
LEGEND

	ASPHALT REPAIR EXTENTS, SEE ① C2.3
	SOIL STABILIZATION AREA
	CONCRETE PAVEMENT, SEE ② C2.3
	MAJOR CONTOUR
	MINOR CONTOUR
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR

0 5 10 15
SCALE IN FEET

N.A.V.D. 88

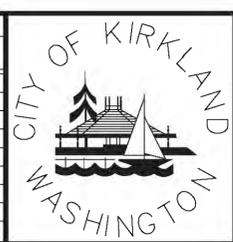
① ENLARGED PAVING PLAN
G1.0, C1.0



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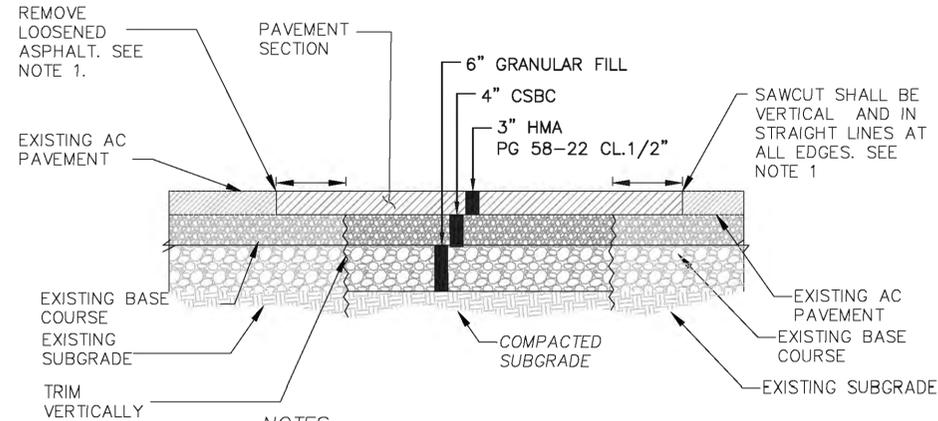
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(SWPPP) UPGRADES
BAY 4 PAVING PLAN

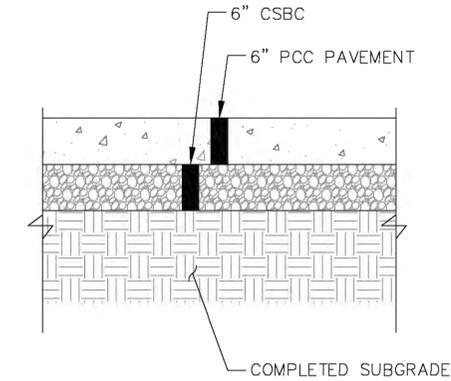
RP01
SHEET
C2.2
27

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NOTES:

1. SEAL EDGES BETWEEN EXISTING AND REPLACED ASPHALT IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-05.3 (8) B
2. RESTORE AC PAVEMENT, BASE COURSE AND/OR SUBGRADE AS REQUIRED BY FOUNDATION AND UTILITY INSTALLATION AND CONSTRUCTION, SEE DEMOLITION PLAN.
3. SEE DEMOLITION PLANS FOR EXTENT OF ASPHALT REMOVAL.
4. SEE GRADING PLANS FOR PAVEMENT ELEVATION AND SLOPE



NOTES:

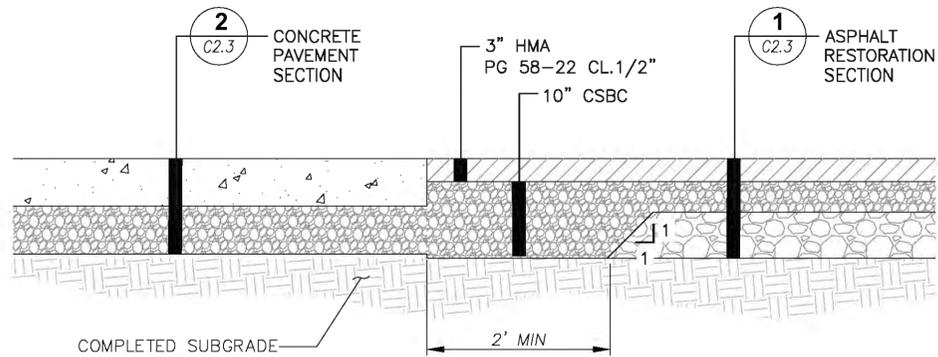
1. PCC PAVEMENT TO HAVE 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI AND MODULUS OF RUPTURE OF 600 PSI.
2. SEE DETAIL 3 FOR SUBGRADE PREP AT ASPHALT AND CONCRETE INTERFACE.

2 CONCRETE PAVEMENT SECTION

C1.4, C2.0, C2.1, C2.2, C2.3, C2.4 SCALE: NTS

1 PAVEMENT REHABILITATION DETAIL

C1.4, C2.0, C2.1, C2.2, C2.3, C2.4 SCALE: NTS



NOTES:

1. SEAL EDGES BETWEEN CONCRETE AND ASPHALT IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-05.3 (8) B

3 CONCRETE TO ASPHALT SUBGRADE TRANSITION SECTION

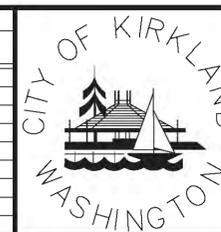
C2.3 SCALE: NTS



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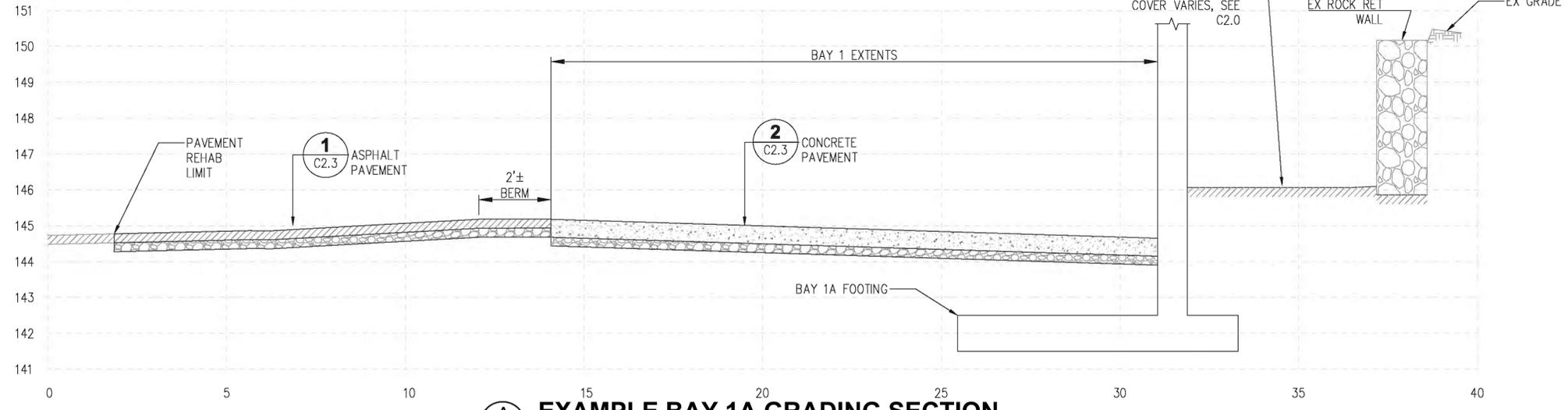


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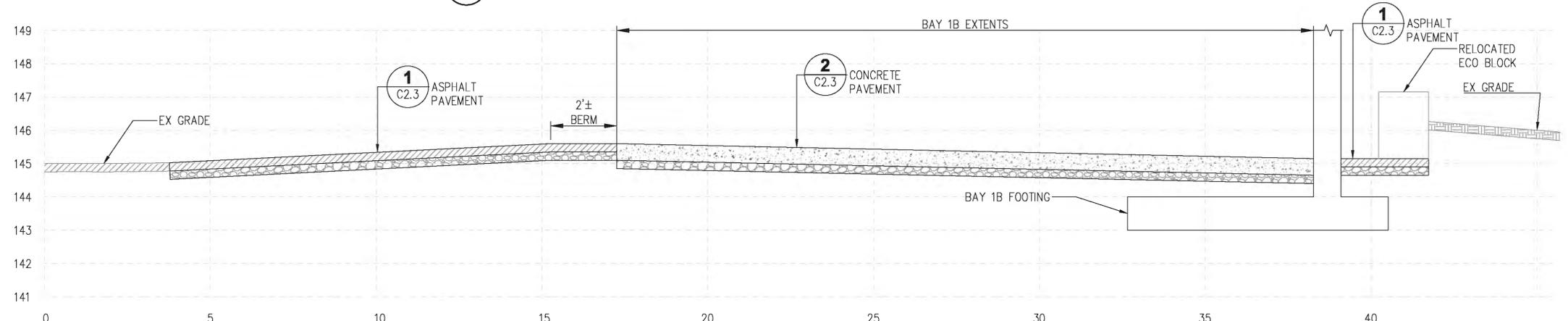


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PAVING DETAILS

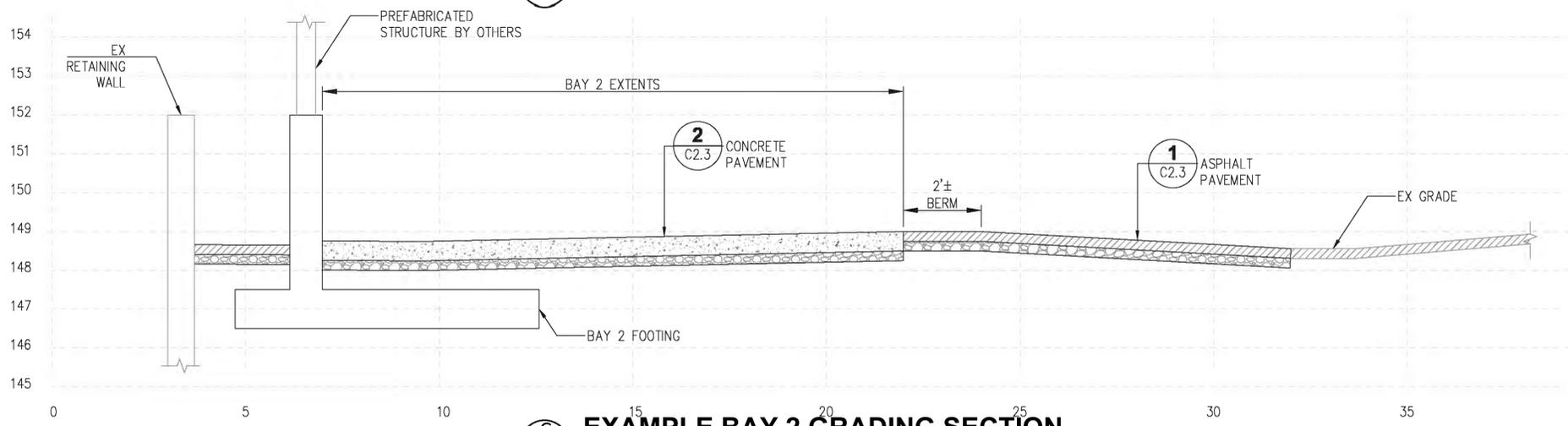
RP01
SHEET
C2.3
27



(A) EXAMPLE BAY 1A GRADING SECTION
C2.0 SCALE: 1" = 2'



(B) EXAMPLE BAY 1B GRADING SECTION
C2.0 SCALE: 1" = 2'



(C) EXAMPLE BAY 2 GRADING SECTION
C2.1 SCALE: 1" = 2'

- NOTES:**
1. PAVEMENT SUBGRADE HAS BEEN SIMPLIFIED FOR CLARITY SEE C2.3 FOR SUBGRADE DETAILS
 2. THE SECTIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY, THE INFORMATION IN THE PLAN VIEW SHALL SUPERCEED DETAILS SHOWN.
 3. A SIMILAR SECTION FOR BAY 4 CAN BE FOUND ON SHEET C1.4
 4. UTILITIES NOT SHOWN FOR CLARITY



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GRADING SECTIONS

SHEET
C2.4
27

STRUCTURAL NOTES

DRAWING LIST

DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, AS AMENDED BY THE CITY OF KIRKLAND.

LIVE LOADS

IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN. LIVE LOAD REDUCTION IS PER IBC SECTION 1607.10.

SIDEWALKS, DRIVEWAYS 250 PSF ~~REDUCIBLE~~ UNREDUCIBLE X
REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

ROOF SNOW LOAD

THE ROOF SNOW LOAD IS DETERMINED USING CHAPTER 7 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 AND WITH THE FOLLOWING FACTORS:

$P_g = 20$ PSF $C_e = 0.9$
 $I_s = 1.0$ $C_r = 1.2$
 $P_f = 15$ PSF

SEISMIC LOADS

THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) USED TO RESIST EARTHQUAKE AND WIND LOADS IS COMPRISED OF STEEL MOMENT FRAMES AND STEEL BRACED FRAMES DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS". EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7 SECTION 12.8 WITH THE FOLLOWING FACTORS:

SITE CLASS C
RISK CATEGORY I
SEISMIC DESIGN CATEGORY D

$S_s = 1.27$ g $S_{0.5} = 0.85$ g
 $S_1 = 0.44$ g $S_{0.1} = 0.40$ g
 $T_n = 22$ ft $T = 6$ SECONDS
 $I_e = 1.0$

BAY 1-A CANOPY:
MOMENT FRAME DIRECTION
 $R = 3.5$ $T = 0.19$ SECONDS
 $V = 11.9$ KIPS

BRACED FRAME DIRECTION
 $R = 3.25$ $T = 0.12$ SECONDS
 $V = 12.8$ KIPS

BAY 1-B CANOPY:
MOMENT FRAME DIRECTION
 $R = 3.5$ $T = 0.19$ SECONDS
 $V = 3.4$ KIPS

BRACED FRAME DIRECTION
 $R = 3.25$ $T = 0.12$ SECONDS
 $V = 3.6$ KIPS

BAY 2 CANOPY:
MOMENT FRAME DIRECTION
 $R = 3.5$ $T = 0.28$ SECONDS
 $V = 8.1$ KIPS

BRACED FRAME DIRECTION
 $R = 3.25$ $T = 0.17$ SECONDS
 $V = 8.7$ KIPS

BAY 4 CANOPY:
MOMENT FRAME DIRECTION
 $R = 3.5$ $T = 0.22$ SECONDS
 $V = 9.1$ KIPS

BRACED FRAME DIRECTION
 $R = 3.25$ $T = 0.14$ SECONDS
 $V = 9.8$ KIPS

WIND LOADS

WIND LOAD IS DETERMINED USING CHAPTERS 26-31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

RISK CATEGORY I $K_{zt} = 1.0$
EXPOSURE CATEGORY B $G_{cp} = 0.0$
 $V_{10} = 100$ MPH

BAY 1-A CANOPY:
 $W_{NORTH/SOUTH} = 1.6$ k
 $W_{EAST/WEST} = 7.7$ k

BAY 1-B CANOPY:
 $W_{NORTH/SOUTH} = 2.0$ k
 $W_{EAST/WEST} = 1.9$ k

BAY 2 CANOPY:
 $W_{NORTH/SOUTH} = 2.4$ k
 $W_{EAST/WEST} = 7.2$ k

BAY 4 CANOPY:
 $W_{NORTH/SOUTH} = 6.0$ k
 $W_{EAST/WEST} = 1.8$ k

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SOIL LOADS

ALLOWABLE SOIL-BEARING PRESSURE 2500 PSF DL + LL
3333 PSF DL + LL + SEISMIC/WIND

GENERAL NOTES

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE OR MASONRY REINFORCEMENT, PRECAST OR PRESTRESSED CONCRETE ITEMS, EMBEDDED STEEL ITEMS, STRUCTURAL STEEL, STEEL JOISTS, STEEL DECK, SHEAR STUD LAYOUT, METAL GRATING, GLUED-LAMINATED MEMBERS, CLADDING PANELS AND STAIRS.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

DEFERRED SUBMITTALS

PER IBC 2015 SECTION 107.3.4.1, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

EXTERIOR CLADDING SYSTEMS
EQUIPMENT ANCHORAGE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS
PREFABRICATED METAL BUILDING

NONSTRUCTURAL COMPONENTS

DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

INSPECTION

SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

SPECIAL CONDITIONS

CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (+) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS—DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. NO REINFORCING BARS IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SOILS

SEE THE GEOTECHNICAL REPORT BY GEOENGINEERS, DATED JAN 25, 2019, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALLS AND SUPPORTING SLABS ACHIEVE 28 DAY CONCRETE STRENGTH OR THE WALLS ARE TEMPORARILY BRACED. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLABS OR PAVING.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

CONCRETE MIXTURES

CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE MIXTURES					
f'_c (PSI)	TEST AGE (DAYS)	EXPOSURE CLASS			USE
4,000	28	F2	S0	W0	C2
WALLS, FOUNDATIONS, CURBS AND PADS					

CONCRETE MIXTURES SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS FOR EXPOSURE CLASSES SPECIFIED IN THE TABLE ABOVE AND ACI 318 TABLE 19.3.2.1.

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CaCl₂ OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENTITIOUS MATERIALS RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENTITIOUS MATERIALS RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN ACI 318 TABLE 19.3.2.1 FOR THE EXPOSURE CLASSES LISTED.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

ALL CONCRETE SUBJECT TO EXPOSURE CLASSES F1, F2 OR F3 SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C 260. THE AMOUNT OF ENTRAINED AIR SHALL BE ACCORDING TO ACI 318 TABLE 19.3.3.1 WITH A FIELD TOLERANCE OF ±1.5 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 19. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

CURING

IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

REINFORCING STEEL

DEFORMED BARS ASTM A 615, GRADE 60
SPECIAL DUCTILE QUALITY DEFORMED BARS ASTM A 706, GRADE 60 LOW ALLOY
HEADED DEFORMED BARS ASTM A 970, HEAD TYPE HA

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE Lb (Lb FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL SPLICES CALLED OUT ON THE PLANS SHALL BE TYPE 1, UNLESS OTHERWISE NOTED. TYPE 1 SPLICES SHALL DEVELOP 125 PERCENT OF THE YIELD CAPACITY OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. TYPE 2 SPLICES SHALL DEVELOP THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BARS IN TENSION IN ADDITION TO MEETING TYPE 1 SPLICE REQUIREMENTS. SUBMIT ICC-ES OR IAPMO UES REPORT VALID FOR THE 2015 IBC DEMONSTRATING COMPLIANCE OF COUPLERS WITH THESE REQUIREMENTS.

AT THE CONTRACTOR'S OPTION AND WITH THE ARCHITECT'S APPROVAL, HEADED DEFORMED BARS MAY BE USED IN LIEU OF REINFORCING BARS SHOWN WITH STANDARD 90 OR 180 DEGREE HOOKS AND MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES. USE OF HEADED DEFORMED BARS IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 25.4.4. USE OF MECHANICAL SPLICES IS SUBJECT TO CONFORMANCE WITH ACI 318 SECTION 18.2.7 AND REQUIRES SUBMITTAL OF AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2015 IBC.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	COVER MIN-DEPTH
NONSTRUCTURAL SLAB-ON-GRADE	2"
STRUCTURAL SLAB-AT-GRADE BOTTOM BARS	3"
FOOTING	3" (CAST AGAINST EARTH)
BOTTOM BARS	1 1/2"
TOP BARS	2"
	(#6 AND LARGER WHERE EXPOSED TO EARTH OR WEATHER)
SIDE BARS	2"

PREFABRICATED METAL BUILDING

PREFABRICATED METAL BUILDING SHALL BE A DEFERRED SUBMITTAL PER THE REQUIREMENTS OF THE GENERAL NOTES. ANCHORAGE OF METAL BUILDING COMPONENTS TO THE FOUNDATIONS SHALL BE BY THE METAL BUILDING ENGINEER. SPECIAL INSPECTION REQUIRED BY THE IBC FOR METAL BUILDING COMPONENTS SHALL BE SPECIFIED BY THE METAL BUILDING ENGINEER.

WORK SHOWN IS BASED ON AN ASSUMED PREFABRICATED METAL BUILDING LAYOUT. THE CONCRETE DESIGN IS SUBJECT TO CHANGE BASED ON BIDDER-DESIGNED PACKAGE

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S0.4	STATEMENT OF SPECIAL INSPECTIONS
S2.1	OVERALL PLAN
S2.2	BAY 1-A CANOPY - PARTIAL PLAN
S2.3	BAY 4 CANOPY - PARTIAL PLAN
S2.4	BAY 1-B CANOPY - PARTIAL PLAN
S2.5	BAY 2 CANOPY - PARTIAL PLAN
S4.1	TYPICAL CONCRETE DETAILS
S4.2	CONCRETE DETAILS



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STRUCTURAL NOTES AND DRAWING LIST

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STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	FLG	FLANGE	RND	ROUND
ADD'L	ADDITIONAL	FLR	FLOOR	RO	ROUGH OPENING
ADH	ADHESIVE	FOB	FACE OF BUILDING	RTN	RETURN
ADJ	ADJUSTABLE	FS	FAR SIDE	SC	SLIP CRITICAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FT	FEET	SCHED	SCHEDULE
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	SDCI	SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTIONS SPECIAL DUCTILE QUALITY SECTION
AGG	AGGREGATE	GA	GAUGE	SDQ	SEISMIC FORCE-RESISTING SYSTEM
ANCH	ANCHOR	GALV	GALVANIZED	SECT	SECTION
ARCH	ARCHITECTURAL	GB	GRADE BEAM	SFRS	SEISMIC FORCE-RESISTING SYSTEM
ARD	ADHESIVE REINFORCING DOWEL	GEN	GENERAL	SHT	SHEET
B/	BOTTOM OF	GL	GLUED LAMINATED TIMBER	SHTG	SHEATHING
BLDG	BUILDING	GOVT	GOVERNMENT	SIM	SIMILAR
BLKG	BLOCKING	GR	GRADE	SOG	SLAB-ON-GRADE
BM	BEAM	GRB	GYPSUM WALL BOARD	SP	SPACE
BN	DIAPHRAGM BOUNDARY NAILING	HF	HEM-FIR	SPEC	SPECIFICATION
BOT	BOTTOM	HGR	HANGER	SQ	SQUARE
BRG	BEARING	HK	HOOK	SST	STAINLESS STEEL
BSMT	BASEMENT	HORIZ	HORIZONTAL	ST	SUSTAINED TENSION ANCHOR
BTWN	BETWEEN	HP	HIGH POINT	STD	STANDARD
BUR	BUILT-UP ROOF	HSS	HOLLOW STRUCTURAL SECTION	STIFF	STIFFENER
C	CAMBER	IBC	INTERNATIONAL BUILDING CODE	STIRR	STIRRUP
CAP	CAPACITY	ID	INSIDE DIAMETER	STL	STEEL
CC	CENTER TO CENTER	IE	INVERT ELEVATION	STRUCT	STRUCTURAL
CDF	CONTROLLED DENSITY FILL	IF	INSIDE FACE	SUPP	SUPPORT
CFS	COLD-FORMED STEEL	IN	INCH	SYM	SYMMETRICAL
CIP	CAST-IN-PLACE	INFO	INFORMATION	T&B	TOP AND BOTTOM
CJ	CONSTRUCTION OR CONTROL JOINT	INT	INTERIOR	T&G	TONGUE AND GROOVE
CJP	COMPLETE JOINT PENETRATION	JST	JOIST	T/	TOP OF
CL	CENTERLINE	JT	JOINT	TB	TABLE
CLG	CEILING	K	KIP (1,000 LBS.)	THK	THICK(NESS)
CLR	CLEAR	KSF	KIPS PER SQUARE FOOT	THRU	THROUGH
CMU	CONCRETE MASONRY UNIT	LF	LINEAL FOOT	TRANS	TRANSVERSE
COL	COLUMN	LH	LONG FACE HORIZONTAL	TYP	TYPICAL
CONC	CONCRETE	LLH	LONG LEG HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
CONN	CONNECTION	LLV	LONG LEG VERTICAL	UT	ULTRASONIC TESTING
CONST	CONSTRUCTION	LNGT	LONGITUDINAL	VERT	VERTICAL
CONT	CONTINUOUS	LP	LOW POINT	VIF	VERIFY IN FIELD
CONTR	CONTRACTOR	LSL	LAMINATED STRAND LUMBER	W	WITH
CONTY	CONTINUITY	LVL	LAMINATED VENEER LUMBER	W/O	WITHOUT
COORD	COORDINATE	MAX	MAXIMUM	WD	WOOD
CTR	CENTER	MECH	MECHANICAL	WHS	WELDED HEADED STUD
CY	CUBIC YARD	MFR	MANUFACTURER	WL	WATER LINE
DB	DIVIDER BEAM	MIN	MINIMUM	WP	WORK POINT
DBA	DEFORMED BAR ANCHOR	MISC	MISCELLANEOUS		
DBL	DOUBLE	MOM	MOMENT		
DCW	DEMAND CRITICAL WELD	NIC	NOT IN CONTRACT		
DEMO	DEMOLISH	NO	NUMBER		
DET	DETAIL	NOM	NOMINAL		
DF	DOUGLAS FIR	NS	NEAR SIDE		
DIA	DIAMETER	NS	NONSHRINK		
DIAG	DIAGONAL	NTS	NOT TO SCALE		
DKG	DECKING	OC	ON CENTER		
DN	DOWN	OD	OUTSIDE DIAMETER		
DO	DITTO	OF	OUTSIDE FACE		
DWF	DEFORMED WIRE FABRIC	OPNG	OPENING		
DWG	DRAWING	OPP	OPPOSITE		
DWL	DOWEL	P	POST		
EA	EACH	PAF	POWER ACTUATED FASTENER		
EF	EACH FACE	PC	PIECE		
EL	ELEVATION	PC	PILE CAP		
ELECT	ELECTRICAL	PEN	PENETRATION		
ELEV	ELEVATOR	PJP	PARTIAL JOINT PENETRATION		
EN	PANEL EDGE NAILING	PL	PROPERTY LINE		
EQ	EQUAL	PL	PLATE		
EQUIP	EQUIPMENT	PLWD	PLYWOOD		
ES	EACH SIDE	PNL	PANEL		
EW	EACH WAY	PSF	POUNDS PER SQUARE FOOT		
EX	EXISTING	PSI	POUNDS PER SQUARE INCH		
EXP	EXPANSION	PT	POST-TENSIONED		
EXT	EXTERIOR	PT	PRESERVATIVE-TREATED		
F	FAHRENHEIT	PWT	PREFABRICATED WOOD TRUSS		
FD	FLOOR DRAIN	R	RADIUS		
FDN	FOUNDATION	RD	ROOF DRAIN		
FF	FINISH FLOOR	REINF	REINFORCING		
FIN	FINISH	REM	REMAIN(DER)		
		REQ'D	REQUIRED		

STRUCTURAL DRAWING SYMBOLS

GENERAL SYMBOLS

	GRID BUBBLE
	SURFACE - SLOPE UP
	SURFACE - STEPPED
	SURFACE - SLOPE DOWN
	SURFACE - SLOPE TWO WAYS
	UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE. SEE SPECIFICATIONS FOR TYPE OF MATERIAL AND PREPARATION METHOD.
	NORTH ARROW
	STANDARD SECTION CUTS
	BUILDING SECTION CUTS
	ELEVATION OF WALL OR FRAME
	SPOT ELEVATION: TOP OF PLYWOOD TOP OF CONCRETE TOP OF STEEL
	TOP OF CONCRETE ELEVATION
	TOP OF STEEL ELEVATION
	REFERENCE ELEVATION. REFER TO PLAN UNLESS NOTED OTHERWISE.
	ELEVATION OF LEVEL
	WORKPOINT
	DIRECTION OF DOWNWARD SLOPE
	DIRECTION OF SPAN
	EXISTING FRAMING

CONCRETE SYMBOLS

	STEPPED FOOTING
	CONCRETE WALL ABOVE OR PASSING THRU LEVEL
	PARTIAL HEIGHT CONCRETE WALL
	CONCRETE IN CROSS SECTION
	EXISTING CONCRETE IN CROSS SECTION

STEEL SYMBOLS

	STEEL COLUMN ABOVE OR PASSING THRU THIS LEVEL
	STEEL COLUMN BELOW THIS LEVEL
	STEEL IN CROSS SECTION

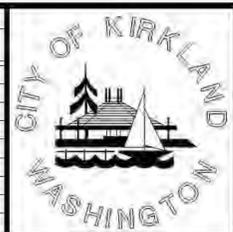
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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

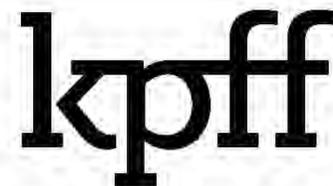
SYSTEM OR MATERIAL	IBC CODE REFERENCE	INSPECTION CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	TB 1705.6 1705.6	GEOTECHNICAL REPORT	-	X	BY THE OWNER'S REPRESENTATIVE
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			-	X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			-	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			X	-	
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			-	X	

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	IBC CODE REFERENCE	INSPECTION CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5	-	-	-	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.
CONCRETE					
INSPECT REINFORCEMENT, INCLUDING EMBEDMENTS AND PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	TB 1705.3(1) 1705.3 1908.4	ACI 318: 20, 25.2-25.3, 26.6.1-26.6.3, 26.8, 26.13.3	-	X	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318: 26.6
INSPECTION OF REINFORCING STEEL WELDING	TB 1705.3(2) 1705.3.1	ACI 318: 26.6.4 AWS D1.4: 7	-	-	EXCEPT AS NOTED OTHERWISE
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.3.1		-	X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WELDING PROCEDURE SPECIFICATIONS			-	X	COPY OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS			-	X	COPY OF QUALIFICATION CARDS

VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	TB 1705.3 (2.a)	AWS D1.4 ACI 318: 26.6.4	-	X	CERTIFIED MILL TEST REPORTS
INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"	TB 1705.3 (2.b)		-	X	-
INSPECT ALL OTHER WELDS	TB 1705.3 (2.c)		X	-	ALL WELDS VISUALLY INSPECTED PER AWS D1.4: 7.5
INSPECT ANCHORS CAST IN CONCRETE	WAC 51-50-1705	ACI 318 17.8.2	-	X	ALL ANCHORS SHALL BE VISUALLY INSPECTED
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:					
ADHESIVE ANCHORS AND ADHESIVE REINFORCING DOWELS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	TB 1705.3 (4.a)	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2.4, 26.13.3	X	-	REFER TO ANCHOR CALLOUTS FOR SUSTAINED TENSION (ST) DESIGNATION
MECHANICAL ANCHORS, ADHESIVE ANCHORS, AND ADHESIVE REINFORCING DOWELS NOT DEFINED ABOVE.	TB 1705.3 (4.b)	ACI 355.4 ICC/IAPMO EVALUATION REPORT ACI 318: 17.8.2, 26.13.3	-	X (NOTE 7)	ALL ANCHORS SHALL BE VISUALLY INSPECTED
VERIFY USE OF REQUIRED DESIGN MIX.	TB 1705.3(5) 1705.3 1904 1908.2 1908.3	ACI 318: 19, 26.4.3-26.4.4, 26.13.3	-	X	-
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TB 1705.3(6) 1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	X	-	-
VERIFY CURING METHOD AND DURATION OF CURING FOR EACH MEMBER.	-	ACI 318: 26.13.3.3(b)	-	X	-
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	TB 1705.3(8) 1705.3 1908.9	ACI 318: 26.5.3-26.5.5, 26.13.3	-	X	-
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	TB 1705.3(12) 1705.3	ACI 318: 26.11.1.2(b)	-	X	-
INSPECT REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORM SAVERS	-	ICC/IAPMO EVALUATION REPORTS	-	X	VISUALLY INSPECT FOR CORRECT ASSEMBLY AND LOCATION

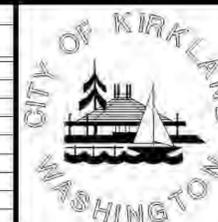
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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TABLE 2C - REQUIRED STRUCTURAL INSPECTIONS FOR SPECIAL CASES

SYSTEM OR MATERIAL	INSPECTION			REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS PERIODIC	
PRE-ENGINEERED STRUCTURES				
FABRICATION AND ERECTION	1705.1.1	MBMA	- -	SEE METAL BUILDING MANUFACTURER FOR SPECIAL INSPECTION REQUIREMENTS ASSOCIATED WITH THE DEFERRED SUBMITTAL

TABLE 3 - REQUIRED STRUCTURAL TESTING

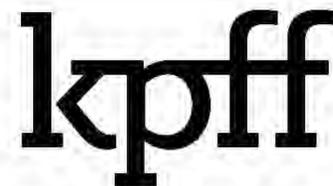
SYSTEM OR MATERIAL	TESTING			REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY CONTINUOUS PERIODIC	
GEOTECHNICAL				
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIABLES; MINIMUM PER IBC APPENDIX J107.5	- X	BY THE OWNER'S REPRESENTATIVE
MATERIAL VERIFICATION		VARIABLES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	- X	BY THE OWNER'S REPRESENTATIVE
CONCRETE				
SAMPLES	1903 1705.3	ASTM C 172 ACI 318: 26.12	ONE SAMPLE FOR EA 150 CY NOR LESS THAN 5,000 SQ FT OF SLABS AND WALLS, ONE SET PER DAY MIN	OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED
CONCRETE STRENGTH, UNO		ASTM C 39 ACI 318: 26.12	EACH SAMPLE: 1 CYL - 7 DAYS 3 CYL - TEST AGE 1 CYL - HOLD	(NOTE 9) REFER TO GENERAL NOTES FOR TEST AGE. FOR 6 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER
CONCRETE SLUMP		ASTM C 143	ONE TEST PER SAMPLE	AT POINT OF PLACEMENT
CONCRETE AIR CONTENT		ASTM C 231	ONE TEST PER SAMPLE	MIN ONE PER DAY
CONCRETE TEMPERATURE		ASTM C 1064	ONE TEST PER SAMPLE	ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
2. REFERENCE CODES AND STANDARDS ARE AS FOLLOWS:

 IBC 2015
 ACI 318-14
 AWC SDPWS 2015
 AWS CURRENT EDITION
 ASTM CURRENT EDITION
 AISC 360-10
 341-10
 RCSC 2009
 TMS 402-13, 602-13
 SDI QA/QC-2011
3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), AND ASTM E 543 (NON-DESTRUCTIVE). THE TESTING AND INSPECTING AGENCY SHALL FURNISH TO THE ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1. "AND WABO"
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON...
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/IAPMO EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS:
 - FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.
 - FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/IAPMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER'S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.
 - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
 - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
8. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.

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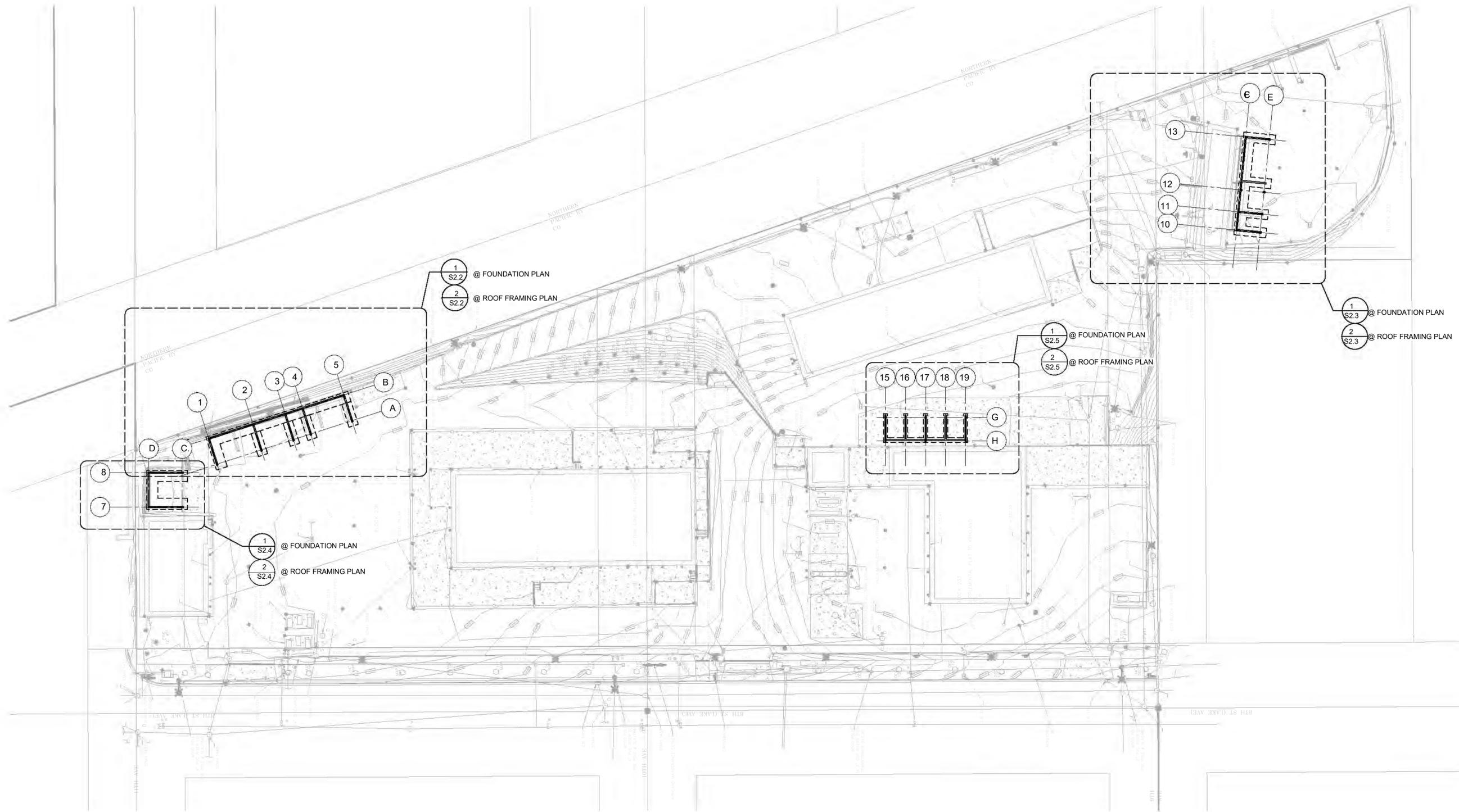
STATEMENT OF SPECIAL INSPECTIONS

SHEET

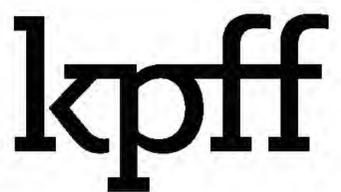
S0.4

27

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1 OVERALL PLAN
1/32" = 1'-0"



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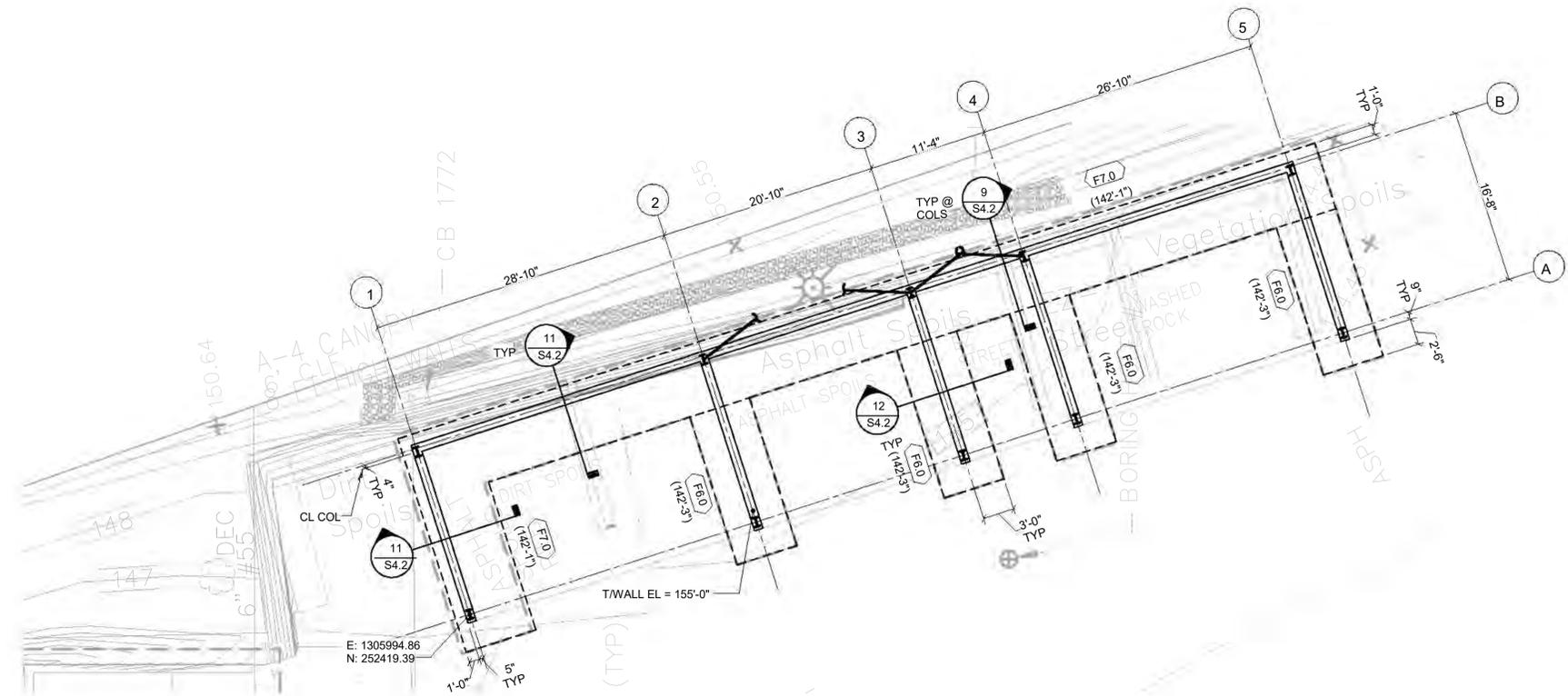


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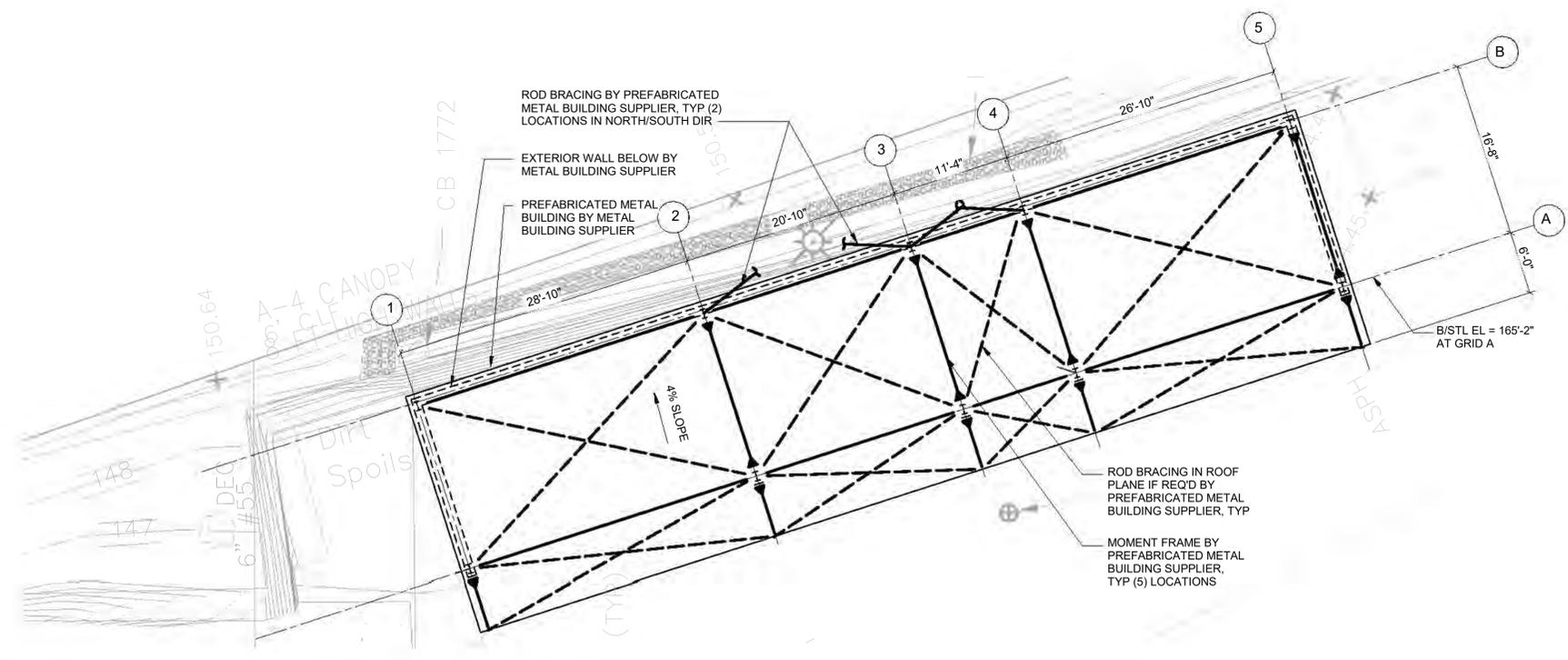
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OVERALL PLAN

SHEET
S2.1
27



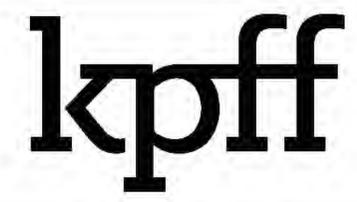
- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
S0.X - STRUCTURAL NOTES, SPECIAL INSPECTION
SCHEDULE, SYMBOLS AND ABBREVIATIONS
S4.X - CONCRETE DETAILS
- FOUNDATION PLAN NOTES:**
- F1. (FX) INDICATES FOOTING TYPE. SEE SCHEDULE ON 12/S4.1.
 - F2. (XXX'-X") INDICATES BOTTOM OF FOOTING ELEVATION.
 - F3. SEE CIVIL FOR PAVEMENT PLAN.
- ROOF FRAMING PLAN NOTES:**
- R1. PMB SUPPLIER TO DESIGN AND PROVIDE FRAMING TO BRACE INTERIOR AND EXTERIOR WALLS.
 - R2. CANOPY TO PROVIDE 20'-0" MIN CLR BETWEEN PAVEMENT AND B/STL. SEE CIVIL DRAWINGS FOR GOVERNING FINISHED GRADE ELEVATION. PMB SUPPLIER TO VERIFY.
 - R3. INDICATES STEEL MOMENT FRAME PER PMB SUPPLIER.
 - R4. INDICATES ROD BRACING PER PMB SUPPLIER.

1 BAY 1-A CANOPY - FOUNDATION PLAN
1/8" = 1'-0"



2 BAY 1-A CANOPY - ROOF FRAMING PLAN
1/8" = 1'-0"

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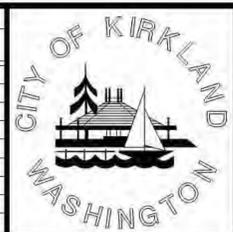


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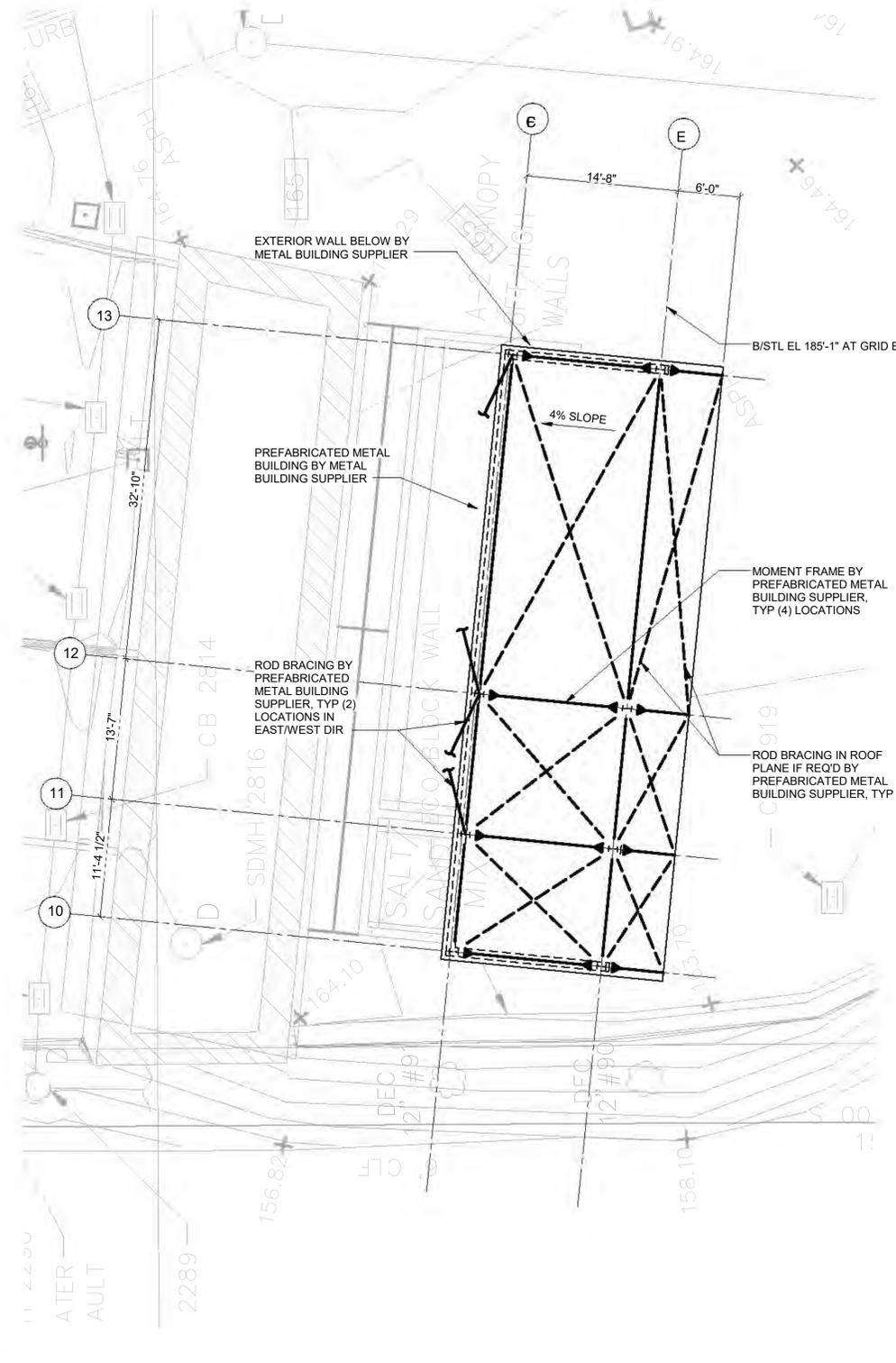
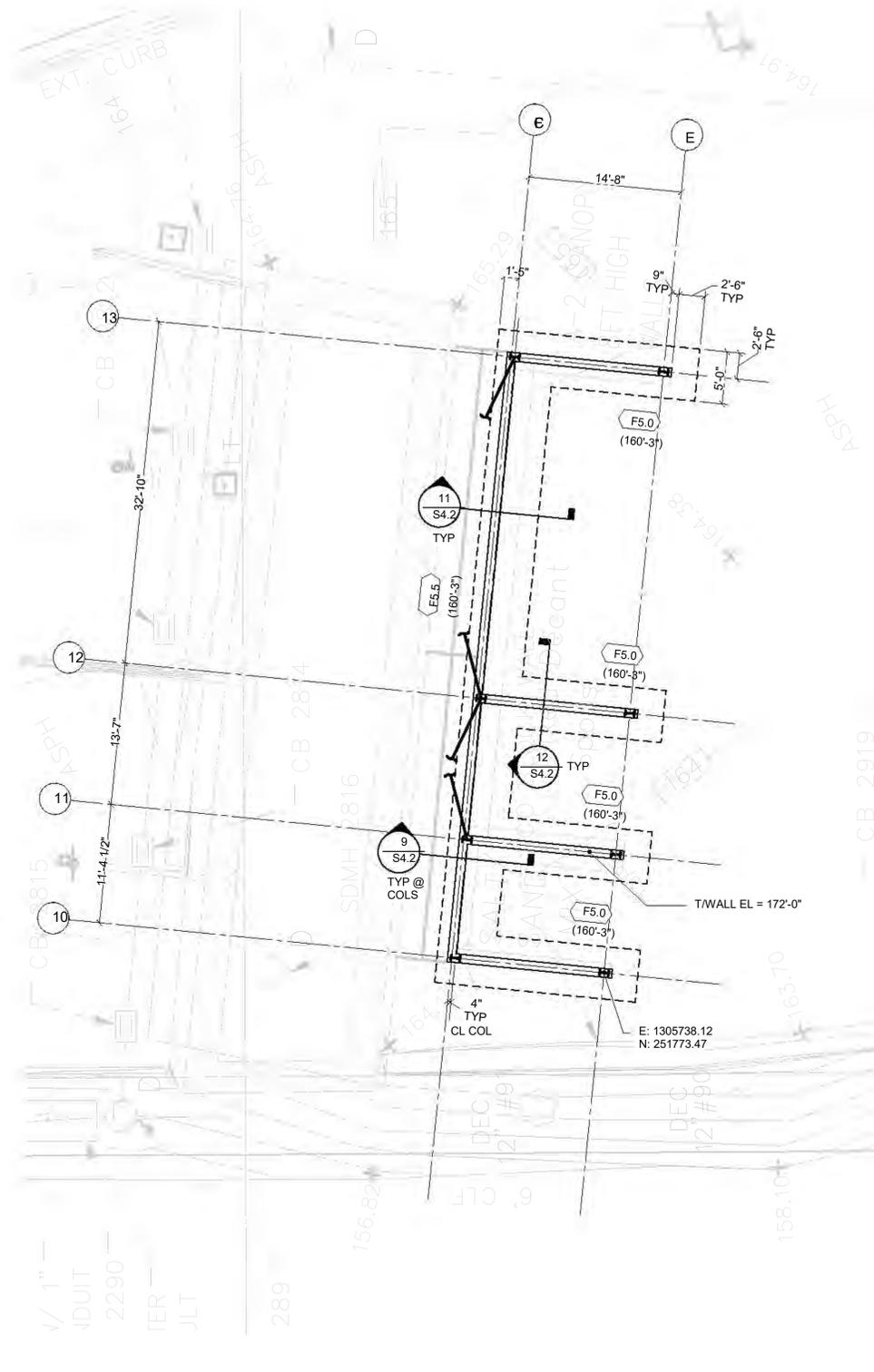


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BAY 1-A CANOPY - PARTIAL PLAN

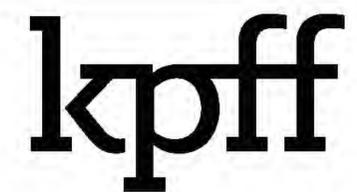
SHEET
S2.2
27

- GENERAL PLAN NOTES:**
- G1. REFERENCE DRAWINGS:
S0.X - STRUCTURAL NOTES, SPECIAL INSPECTION SCHEDULE, SYMBOLS AND ABBREVIATIONS
S4.X - CONCRETE DETAILS
- FOUNDATION PLAN NOTES:**
- F1. (EX) INDICATES FOOTING TYPE. SEE SCHEDULE ON 12/S4.1.
 - F2. (XXX'-X") INDICATES BOTTOM OF FOOTING ELEVATION.
 - F3. SEE CIVIL FOR PAVEMENT PLAN.
- ROOF FRAMING PLAN NOTES:**
- R1. PMB SUPPLIER TO DESIGN AND PROVIDE FRAMING TO BRACE INTERIOR AND EXTERIOR WALLS.
 - R2. CANOPY TO PROVIDE 20'-0" MIN CLR BETWEEN PAVEMENT AND B/STL. SEE CIVIL DRAWINGS FOR GOVERNING FINISHED GRADE ELEVATION. PMB SUPPLIER TO VERIFY.
 - R3. (I) INDICATES STEEL MOMENT FRAME PER PMB SUPPLIER.
 - R4. (I) INDICATES ROD BRACING PER PMB SUPPLIER.



1 BAY 4 CANOPY - FOUNDATION PLAN
1/8" = 1'-0"

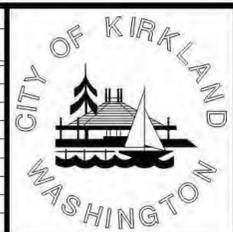
2 BAY 4 CANOPY - ROOF FRAMING PLAN
1/8" = 1'-0"



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BAY 4 CANOPY - PARTIAL PLAN

SHEET
S2.3
27

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GENERAL PLAN NOTES

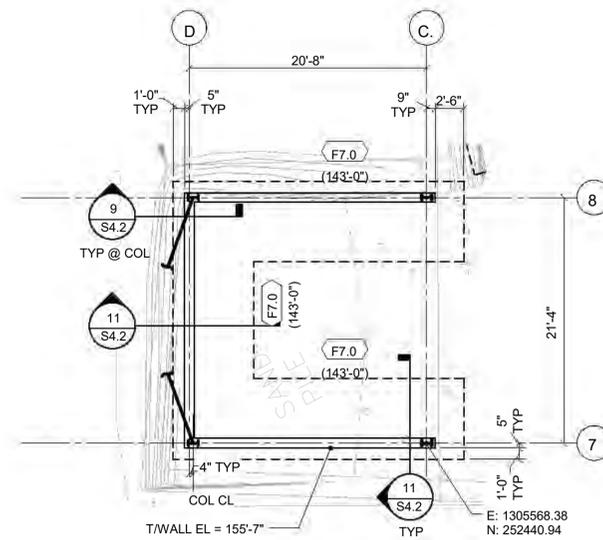
- G1. REFERENCE DRAWINGS:
S0.X - STRUCTURAL NOTES, SPECIAL INSPECTION
SCHEDULE, SYMBOLS AND ABBREVIATIONS
S4.X - CONCRETE DETAILS

FOUNDATION PLAN NOTES

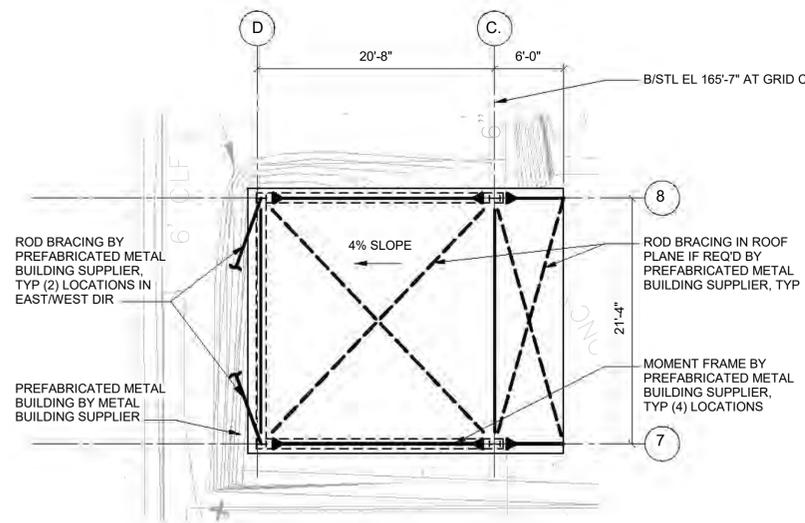
- F1. (EX) INDICATES FOOTING TYPE. SEE SCHEDULE ON 12/S4.1.
- F2. (XXX'-X") INDICATES BOTTOM OF FOOTING ELEVATION.
- F3. SEE CIVIL FOR PAVEMENT PLAN.

ROOF FRAMING PLAN NOTES

- R1. PMB SUPPLIER TO DESIGN AND PROVIDE FRAMING TO BRACE INTERIOR AND EXTERIOR WALLS.
- R2. CANOPY TO PROVIDE 20'-0" MIN CLR BETWEEN PAVEMENT AND B/STL. SEE CIVIL DRAWINGS FOR GOVERNING FINISHED GRADE ELEVATION. PMB SUPPLIER TO VERIFY.
- R3. I— INDICATES STEEL MOMENT FRAME PER PMB SUPPLIER.
- R4. I— INDICATES ROD BRACING PER PMB SUPPLIER.

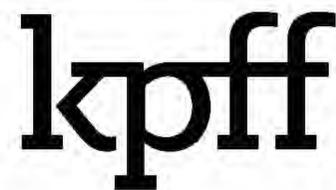


1 BAY 1-B CANOPY - FOUNDATION PLAN
1/8" = 1'-0"



2 BAY 1-B CANOPY - ROOF PLAN
1/8" = 1'-0"

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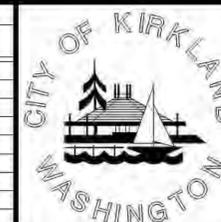


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BAY 1-B CANOPY - PARTIAL PLAN

SHEET

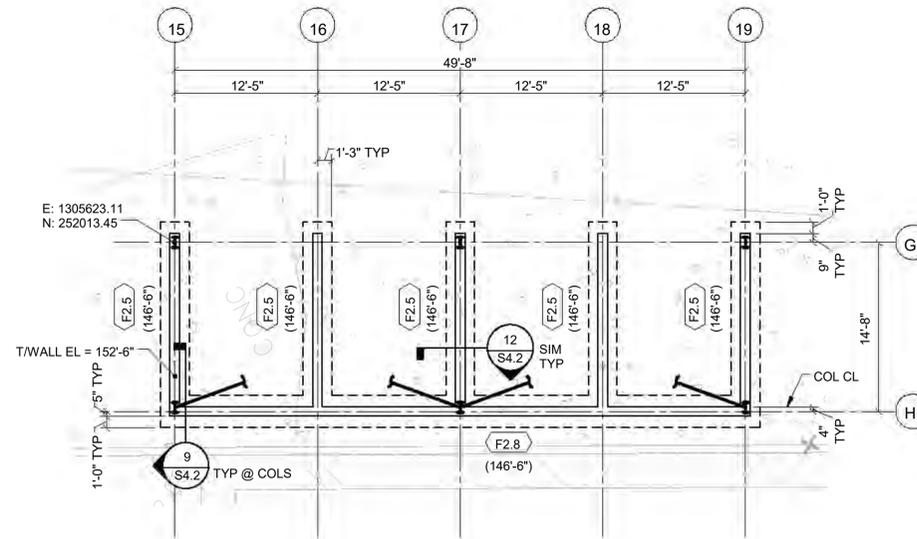
S2.4

27

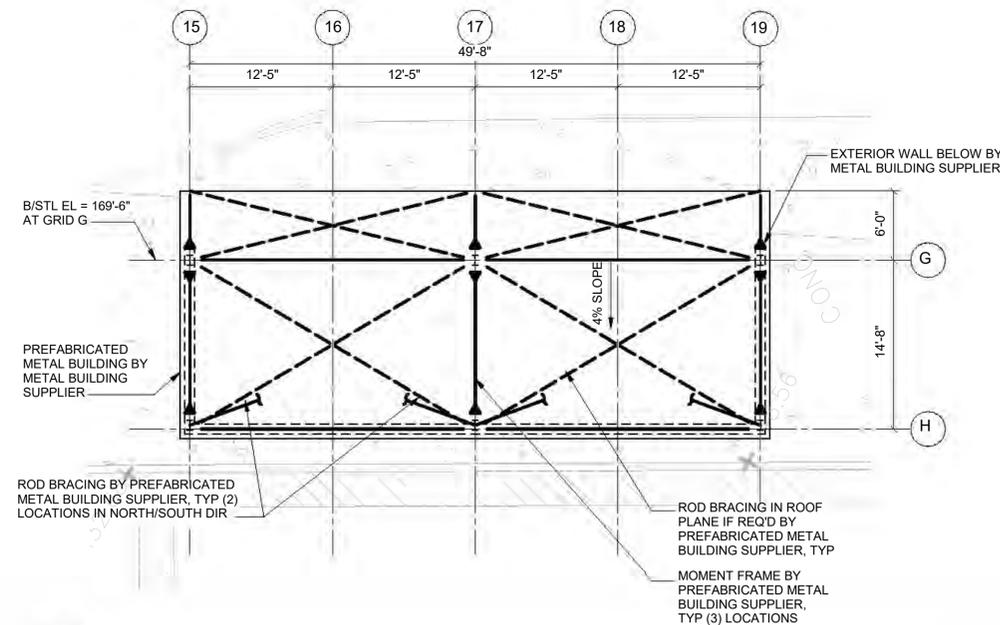
GENERAL PLAN NOTES:
 G1. REFERENCE DRAWINGS:
 S0.X - STRUCTURAL NOTES, SPECIAL INSPECTION
 SCHEDULE, SYMBOLS AND ABBREVIATIONS
 S4.X - CONCRETE DETAILS

FOUNDATION PLAN NOTES:
 F1. (FX) INDICATES FOOTING TYPE. SEE SCHEDULE ON 12/S4.1.
 F2. (XXX'-X") INDICATES BOTTOM OF FOOTING ELEVATION.
 F3. SEE CIVIL FOR PAVEMENT PLAN.

ROOF FRAMING PLAN NOTES:
 R1. PMB SUPPLIER TO DESIGN AND PROVIDE FRAMING TO BRACE INTERIOR AND EXTERIOR WALLS.
 R2. CANOPY TO PROVIDE 20'-0" MIN CLR BETWEEN PAVEMENT AND B/STL. SEE CIVIL DRAWINGS FOR GOVERNING FINISHED GRADE ELEVATION. PMB SUPPLIER TO VERIFY.
 R3. I— INDICATES STEEL MOMENT FRAME PER PMB SUPPLIER.
 R4. I— INDICATES ROD BRACING PER PMB SUPPLIER.

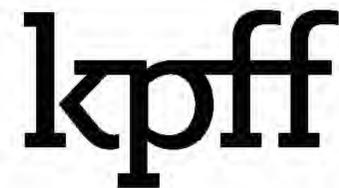


1 BAY 2 CANOPY - FOUNDATION PLAN
 1/8" = 1'-0"



2 BAY 2 CANOPY - ROOF PLAN
 1/8" = 1'-0"

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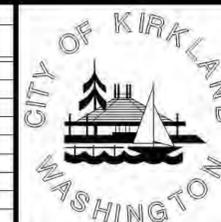


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 BAY 2 CANOPY - PARTIAL PLAN

SHEET
 S2.5
 27

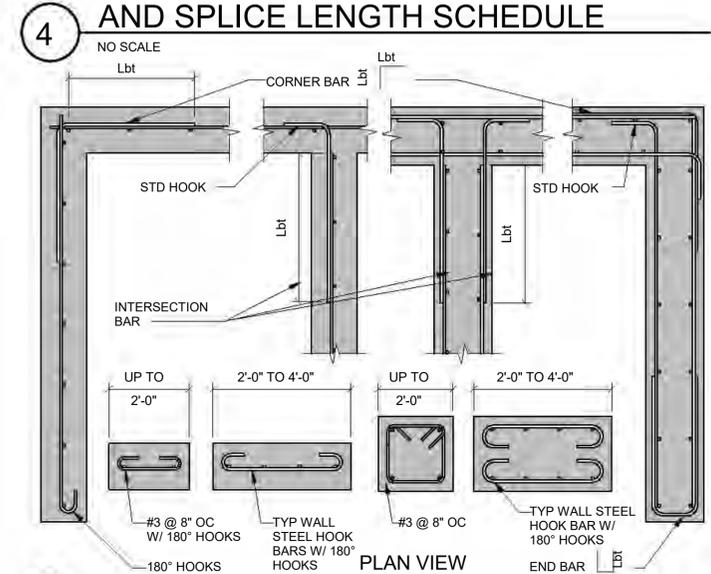
f_c = 4,000 PSI
f_y = 60,000 PSI

SIZE	Ld	Ldt	Lb	Lbt	Ldh
#4	19 (28)	25 (37)	25 (37)	32 (48)	9
#5	24 (36)	31 (46)	31 (46)	40 (60)	12
#6	28 (43)	37 (55)	37 (55)	48 (72)	14
#7	42 (62)	54 (81)	54 (81)	70 (105)	17
#8	47 (71)	62 (92)	62 (92)	80 (120)	19
#9	54 (80)	70 (104)	70 (104)	90 (136)	21
#10	60 (90)	78 (117)	78 (117)	102 (153)	24
#11	67 (100)	87 (130)	87 (130)	113 (170)	27

NOTES:

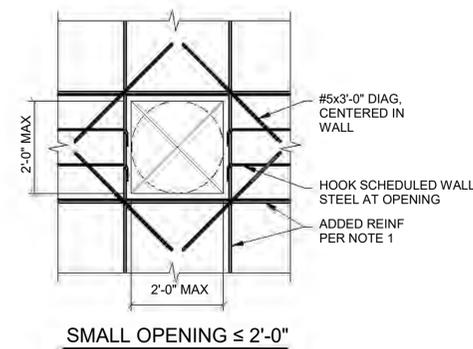
- USE THE LENGTHS IN THIS SCHEDULE, UNLESS NOTED OTHERWISE.
- USE LENGTH IN () WHEN BAR COVER IS db OR LESS OR BAR CLEAR SPACING IS 2db OR LESS.
- A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

DEVELOPMENT AND SPLICE LENGTH SCHEDULE



8 TYPICAL CONCRETE WALL DETAILS

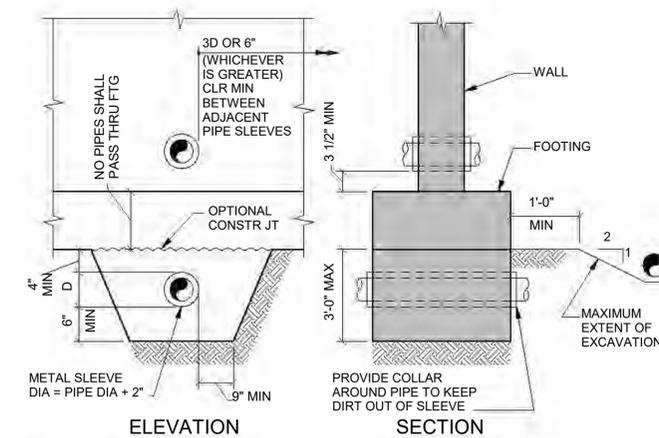
NO SCALE



- NOTES:**
- ADDITIONAL REINFORCING AT OPENING SHALL MATCH BAR SIZE, QUANTITY, AND EXTENTS OF REINFORCING INTERRUPTED BY OPENING. PLACE HALF OF ADDED BARS ON EACH SIDE OF OPENING. AT MINIMUM, PROVIDE (1) #5 EACH FACE, EACH SIDE AT SMALL OPENINGS. MATCH SCHEDULED BAR EXTENTS WITH A 2'-0" MINIMUM EXTENSION BEYOND THE OPENING.

10 WALL OPENING

NO SCALE



- NOTES:**
- STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS.
 - GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
 - "D" SHALL NOT EXCEED 14".
 - IF "D" EXCEEDS 8", PROVIDE REINFORCING PER 10/S4.1

11 TYP DETAIL OF PIPE AT FOOTINGS

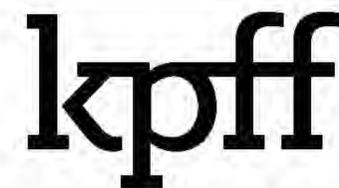
NO SCALE

FOOTING SCHEDULE

TYPE MARK	DIMENSIONS			REINFORCING	TYPE COMMENTS
	LENGTH	WIDTH	DEPTH		
F2.5	PER PLAN	2'-6"	1'-0"	(3) #5 BARS T&B LONG #5 @ 16" OC TOP TRANS #5 @ 16" OC BOT TRANS	CONT FTG
F2.8	PER PLAN	2'-10"	1'-0"	(4) #5 BARS T&B LONG #5 @ 16" OC TOP TRANS #5 @ 16" OC BOT TRANS	CONT FTG
F5.0	PER PLAN	5'-0"	1'-0"	(6) #6 BARS T&B LONG #6 @ 16" OC TOP TRANS #6 @ 8" OC BOT TRANS	CONT FTG
F5.5	PER PLAN	5'-6"	1'-0"	(8) #6 BARS T&B LONG #6 @ 10" OC TOP TRANS #6 @ 12" OC BOT TRANS	CONT FTG
F6.0	PER PLAN	6'-0"	1'-0"	(6) #7 BARS T&B LONG #7 @ 12" OC TOP TRANS #7 @ 6" OC BOT TRANS	CONT FTG
F7.0	PER PLAN	7'-0"	1'-2"	(7) #7 BARS TOP LONG (14) #7 BARS BOT LONG #7 @ 8" OC TOP TRANS #7 @ 12" OC BOT TRANS	CONT FTG

12 FOOTING SCHEDULE

NO SCALE

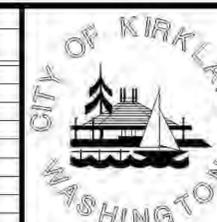


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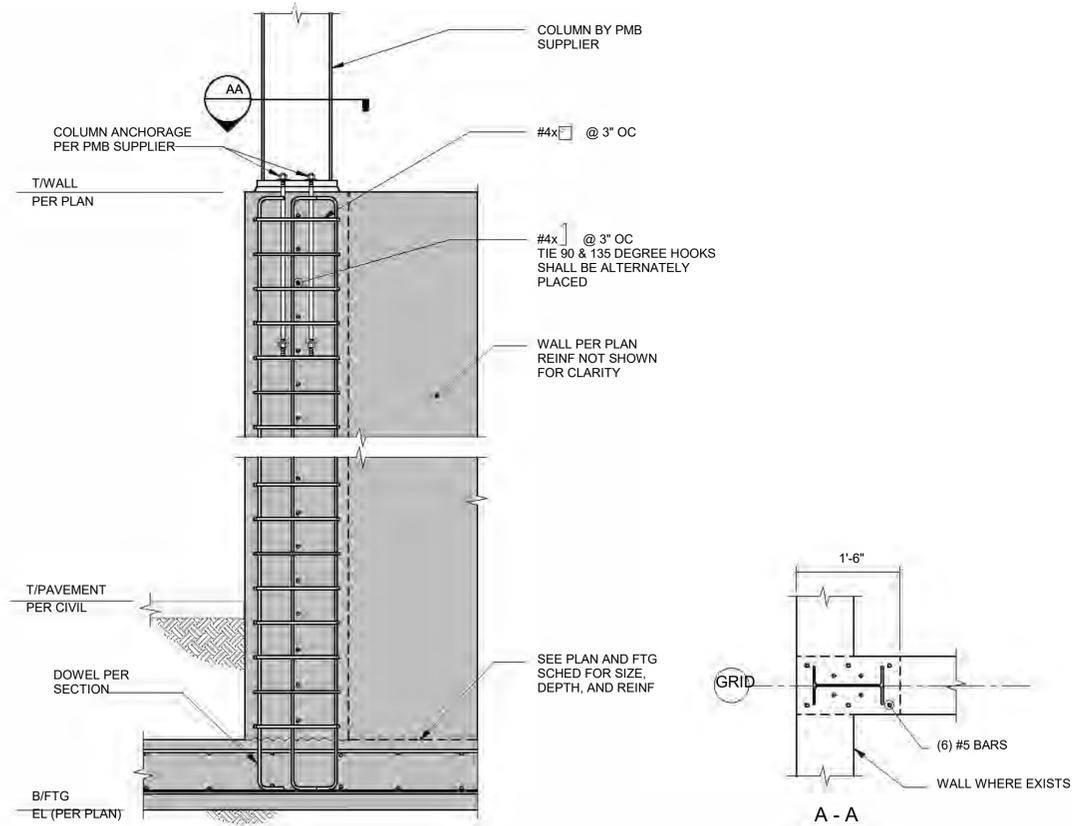


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TYPICAL CONCRETE DETAILS

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S4.1
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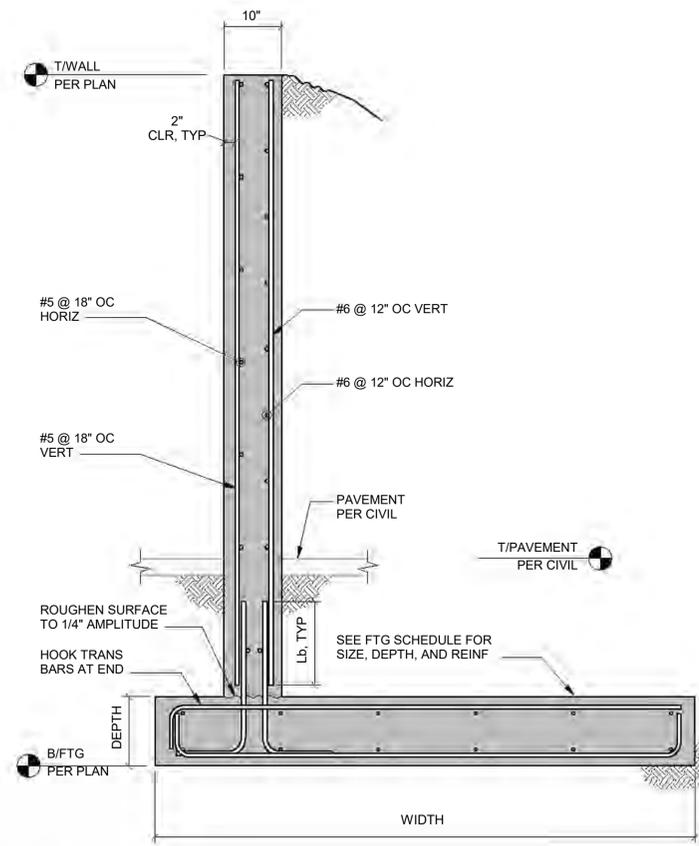
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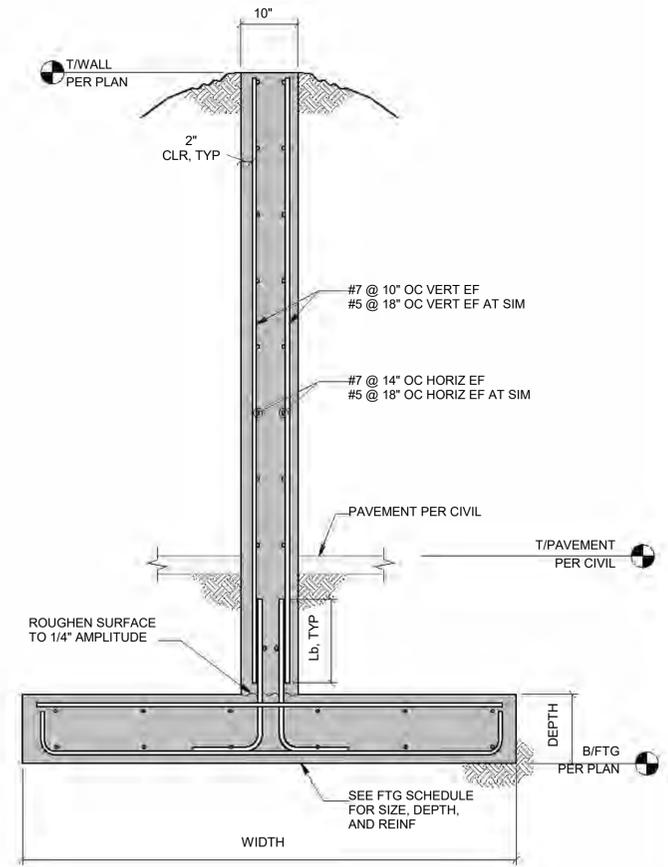
9 WALL SECTION AT COLUMN

3/4" = 1'-0"



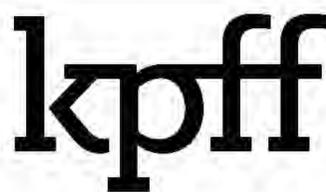
11 WALL SECTION - BACK WALL

3/4" = 1'-0"



12 WALL SECTION

3/4" = 1'-0"

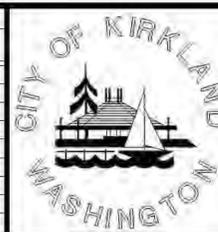


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CONCRETE DETAILS

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