

KNOPF RESIDENCE HILLSIDE IMPROVEMENTS Mercer Island, WA.

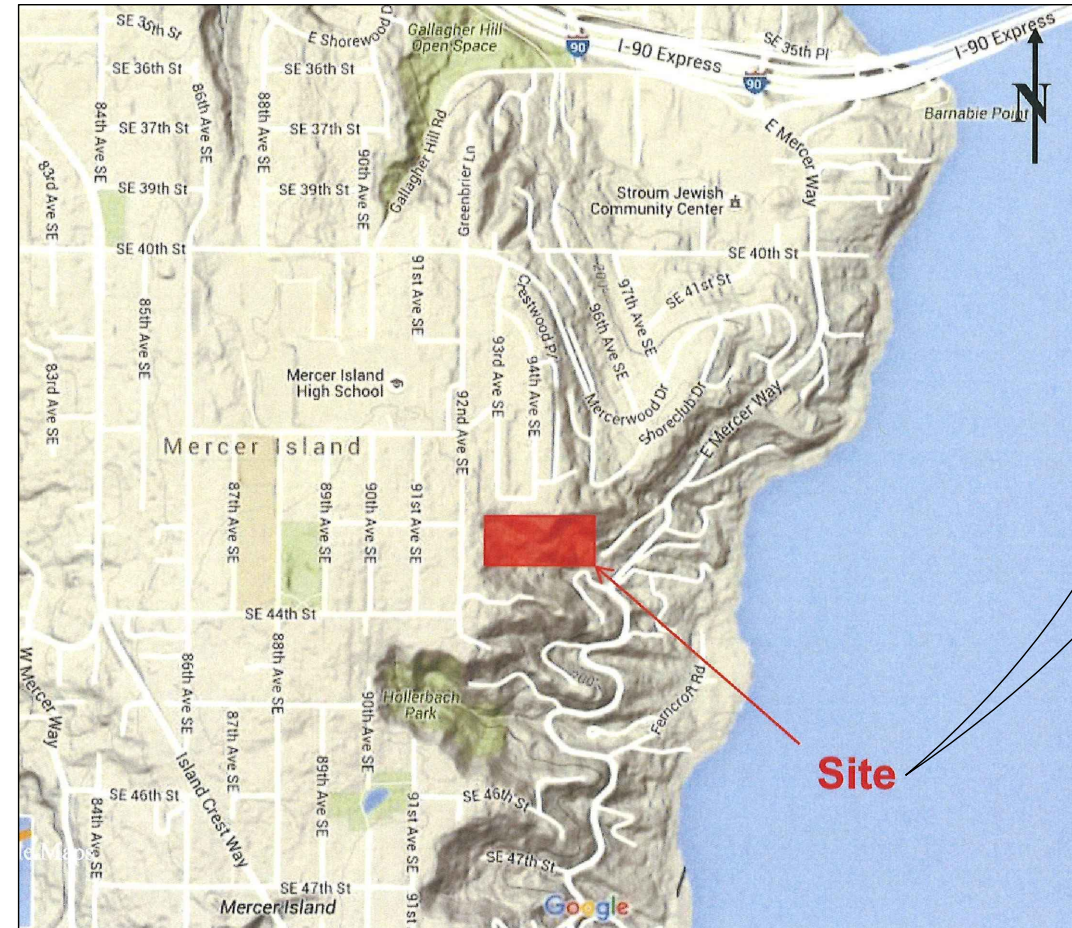
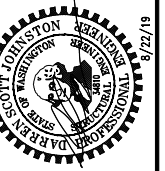
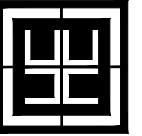
AMENDED PERMIT SET NOVEMBER 21, 2019

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE:	NO SCALE
CHK BY:	DJ
DRW BY:	GF
REF:	

DATE	DESCRIPTION	REVISED
20SEP'19	CITY OF MERCER ISLAND REVIEW COMMENTS	

HARBOR CONSULTING ENGINEERS
ENGINEERS • PLANNERS • SURVEYORS
3316 FUHRMAN AVENUE EAST, SUITE 250
SEATTLE, WASHINGTON 98102
PHONE: (206) 709-2397



ADDRESS: 9507 SE 43rd STREET, MERCER ISLAND, WA. 98040

VICINITY MAP
SCALE: NTS



SITE PLAN
SCALE: NTS



LEGAL DESCRIPTION

SW ¼ OF NE QUARTER OF SECTION 18T 24N R 05 E W.M.
PARCEL NO'S: 0046100014, 1824059125, 1824059135,
0046100011 & 004610TRCT

SHEET INDEX:

- G1 COVER SHEET, VICINITY MAP & DRAWING INDEX
- R1 POST-SLIDE REFERENCE TOPOGRAPHIC PLAN
- C1 CIVIL GENERAL NOTES
- C2 TEMPORARY EROSION & SEDIMENT CONTROL NOTES & DETAILS
- C3 TEMPORARY EROSION & SEDIMENT CONTROL PLAN
- S0 GENERAL STRUCTURAL NOTES, ABBREVIATIONS, AND SYMBOLOLOGY
- S1 HILLSIDE IMPROVEMENTS PLAN
- S2 HILLSIDE IMPROVEMENTS DETAILS

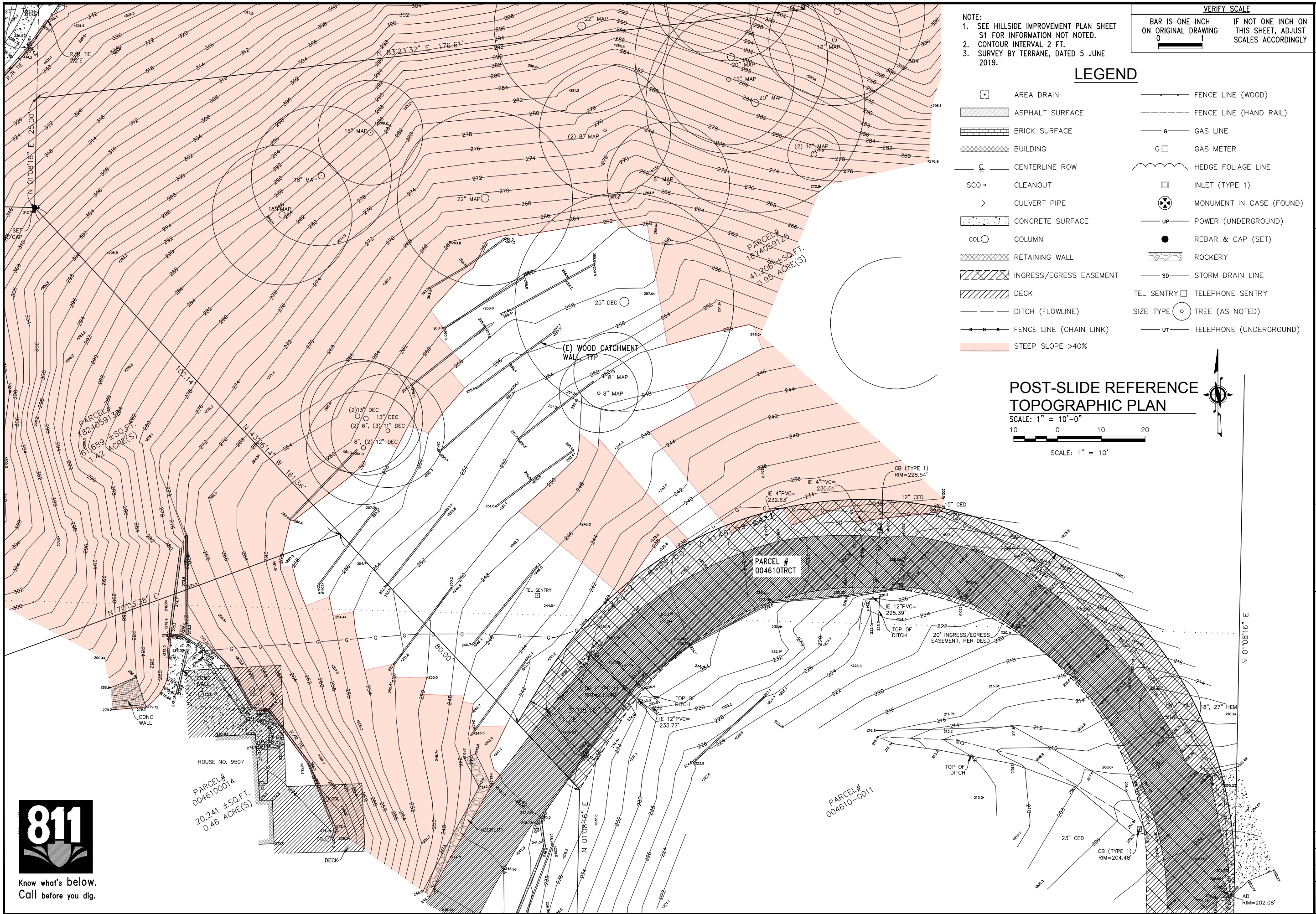


KNOPF RESIDENCE
9507 SE 43rd Street
MERCER ISLAND WA. 98040

COVER SHEET,
VICINITY MAP & DRAWING INDEX

JOB NO.	19023.00
DATE:	9.21.19
SHEET:	1 OF 8
DWG.#	G1

PERMIT SET



NOTE:
 1. SEE HILLSIDE IMPROVEMENT PLAN SHEET S1 FOR INFORMATION NOT NOTED.
 2. CONTOUR INTERVAL 2 FT.
 3. SURVEY BY TERRANE, DATED 5 JUNE 2019.

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LEGEND

- ☐ AREA DRAIN
- ▨ ASPHALT SURFACE
- ▨ BRICK SURFACE
- ▨ BUILDING
- +— CENTERLINE ROW
- CLEANOUT
- > CULVERT PIPE
- ▨ CONCRETE SURFACE
- COLUMN
- ▨ RETAINING WALL
- ▨ INGRESS/EGRESS EASEMENT
- ▨ DECK
- DITCH (FLOWLINE)
- *—*— FENCE LINE (CHAIN LINK)
- ▨ STEEP SLOPE >40%
- +— FENCE LINE (WOOD)
- +— FENCE LINE (HAND RAIL)
- G GAS LINE
- G GAS METER
- ~ HEDGE FOLIAGE LINE
- INLET (TYPE 1)
- ⊗ MONUMENT IN CASE (FOUND)
- UP— POWER (UNDERGROUND)
- REBAR & CAP (SET)
- ▨ ROCKERY
- SD— STORM DRAIN LINE
- TEL SENTRY □ TELEPHONE SENTRY
- SIZE TYPE ○ TREE (AS NOTED)
- UT— TELEPHONE (UNDERGROUND)

POST-SLIDE REFERENCE TOPOGRAPHIC PLAN

SCALE: 1" = 10'-0"
 10 0 10 20
 SCALE: 1" = 10'



SCALE:	AS NOTED
CHK BY:	DJ
DRW BY:	GF
REF:	
DATE:	20SEP19
DESCRIPTION:	CITY OF MERCER ISLAND REVIEW COMMENTS
REVISED:	
HARBOR CONSULTING ENGINEERS ENGINEERS • PLANNERS • SURVEYORS 3316 FUHRMAN AVENUE EAST, SUITE 250 SEATTLE, WASHINGTON 98102 PHONE: (206) 709-2397	
	
KNOPF RESIDENCE 9507 SE 43rd Street MERCER ISLAND WA. 98040	
POST-SLIDE REFERENCE TOPOGRAPHIC PLAN	
JOB NO.	19023.00
DATE:	9.21.19
SHEET:	2 OF 8
DWG.#	R1

PERMIT SET

CIVIL GENERAL NOTES:

- SITE ADDRESS: 9507 SE 43rd STREET MERCER ISLAND WA 98040
- ELEVATIONS ARE IN FEET AND ARE REFERRED TO NAVD88
- OWNER WILL OBTAIN AND PAY FOR FEDERAL AND LOCAL ENVIRONMENTAL AND CONSTRUCTION PERMITS. ALL OTHER PERMITS WHICH MAY BE REQUIRED SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR, WHO SHALL COMPLY WITH ALL CONDITIONS OF THESE PERMITS.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE, 2015 EDITION, WITH CURRENT LOCAL AMENDMENTS, AND ALL OTHER APPLICABLE CODES, RULES AND REGULATIONS.
- THE GEOTECHNICAL REPORTS ARE DATED JANUARY 13, 2016, JANUARY 4, 2019 AND AUGUST 1, 2019 BY PANGEO. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE ITSELF WITH THE CONTENTS THEREOF.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
- EXISTING UTILITY LINES IN SERVICE OR OTHER SITE FEATURES WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE AND SHALL BE INSPECTED AND ACCEPTED BY THE ENGINEER.
- COORDINATE AND ARRANGE FOR ALL UTILITY SERVICE INTERRUPTIONS WITH APPROPRIATE UTILITY AND WITH OWNER.
- ALL DISTURBED AREAS OTHER THAN SPECIFIED CONTRACT WORK AREAS SHALL BE RETURNED TO THEIR PRECONSTRUCTION CONDITION PRIOR TO CONTRACT COMPLETION AND ACCEPTANCE.
- THIS PROJECT IS NOT A BALANCED EARTHWORK PROJECT. BOTH IMPORT AND EXPORT OF SOIL AND ROCK MATERIALS WILL BE REQUIRED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES AS REQUIRED TO PREVENT EROSION AND TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM OR ADJACENT WATERS.
- SURVEY INFORMATION AND UNDERGROUND UTILITY LOCATIONS USED IN THE PREPARATION OF THESE DRAWINGS WERE FURNISHED BY OTHERS. HARBOR CONSULTING ENGINEERS DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS OR ACCURACY. LOCATIONS OF EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF THESE LOCATIONS AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES WHICH MAY BE AFFECTED BY ITS WORK.
- COPIES OF ALL ENVIRONMENTAL PERMITS WILL BE FURNISHED TO THE CONTRACTOR, WHO SHALL COMPLY WITH ALL CONDITIONS OF THESE PERMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SAFE WORKING CONDITIONS AND SHALL INSTALL AND MAINTAIN SHORING AND BRACING NECESSARY TO PROTECT WORKERS, EXISTING STRUCTURES, UTILITIES AND OTHER IMPROVEMENTS AND EXCAVATIONS AGAINST LOSS OF GROUND OR CAVING EMBANKMENTS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL OF SHORING AND BRACING AS REQUIRED.
- THE OWNER'S PREMISES WILL BE OCCUPIED AND IN SERVICE DURING PROGRESS OF THE WORK. CONTRACTOR SHALL MINIMIZE THE EFFECTS OF ITS WORK ON NORMAL ACTIVITIES ADJACENT TO THE PROJECT SITE AND SHALL COORDINATE ALL SCHEDULES AND WORK WITH THE OWNER.
- CONSTRUCTION DEBRIS SHALL NOT BE STORED OR BURNED ON SITE. DEBRIS SHALL BE REMOVED DAILY AND SHALL NOT BE ALLOWED TO ENTER THE WATER.
- ALL APPROVED DEVIATIONS FROM THESE PLANS SHALL BE RECORDED ON A SET OF "AS-BUILT" DRAWINGS, SUBMITTED TO THE OWNER'S REPRESENTATIVE AS THE PROJECT PROGRESSES AND SHALL BE SUMMARIZED ON ONE FULL-SIZE SET OF AS-BUILT REPRODUCIBLE DRAWINGS PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

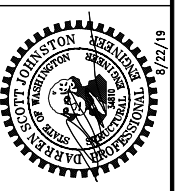
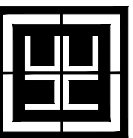
VERIFY SCALE
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SCALE:	NYS
CHK BY:	SL
DRW BY:	TL
REF:	

REVISIONS

DATE	DESCRIPTION	REVIEW COMMENTS
20SEP19		

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 ENGINEERS • PLANNERS • SURVEYORS
 3316 FUHRMAN AVENUE EAST, SUITE 250
 SEATTLE WASHINGTON 98102
 PHONE: (206) 709-2397



KNOPF RESIDENCE
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 MERCER ISLAND WA, 98040

CIVIL GENERAL NOTES

JOB NO.	19023.00
DATE:	9.21.19
SHEET:	3 OF 8
DWG.#	C1

LEGEND					
(ALL SYMBOLS MAY NOT BE USED ON THE DRAWINGS)					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1.	FIRE HYDRANT	18.	INDICATES OBSERVED GROUNDWATER SEEPAGE IN 2017.	32.	30" SD STORM DRAIN LINE WITH SIZE
2.	WATER METER	19.	INDICATES EXISTING CATCH BASIN.	33.	SANITARY SEWER LINE
3.	WATER VALVE W/ VALVE BOX	20.	INDICATES EXISTING CULVERT WITH IDENTIFYING NUMBER BELOW DRIVEWAY.	34.	6" SS SANITARY SEWER LINE WITH SIZE
4.	WATER MANHOLE	21.	INDICATES TECCO MESH INSTALLED ON SLOPES GREATER THAN 60%.	35.	GAS MAIN
5.	MONITORING WELL	22.	EXISTING FEATURES	36.	TREE
6.	ELECTRICAL UTILITY HATCH	23.	PROPOSED FEATURES	37.	EXISTING SPOT ELEVATIONS
7.	POWER VAULT	24.	PROPERTY LINE	38.	PROPOSED SPOT ELEVATIONS
8.	LIGHT POLE	25.	TELEPHONE CONDUIT	39.	SWALE
9.	GUY WIRE AND ANCHOR	26.	BUILDING	40.	INDICATES: C.O.M.I. MAPPED TYPE 2 PERENNIAL WATER COURSE.
10.	CATCH BASIN	27.	FENCE	41.	INDICATES: R.W. THORPE 2006 SURVEYED TYPE 2 PERENNIAL WATER COURSE.
11.	GAS VALVE	28.	FIRE PROTECTION		
12.	GAS METER	29.	WATER MAIN		
13.	TELEPHONE MANHOLE	30.	UNDERGROUND ELECTRICAL LINE		
14.	SIGN POST	31.	STORM DRAIN LINE		
15.	CONTROL POINT				
16.	INDICATES EXISTING ASPHALT PAVING.				
17.	INDICATES PROPERTY LINE BOUNDARY.				



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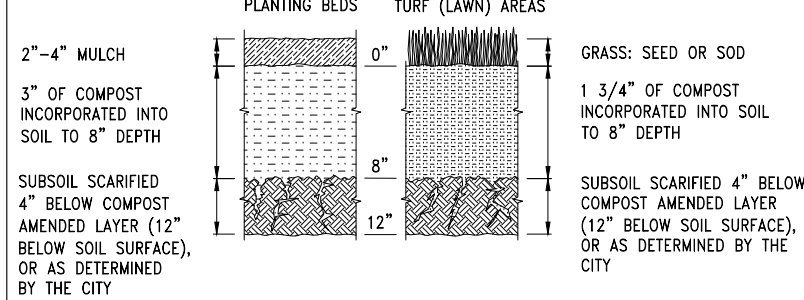
POST CONSTRUCTION SOIL MANAGEMENT PLAN

AT THE END OF PROJECT, ALL AREAS DISTURBED AND NOT COVERED WITH A HARD SURFACE MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL BELOW AND PROBED TO 12-INCHES AT THE SITE FINAL INSPECTION.

DEFINITIONS:

- NON-DISTURBED AREA: VEGETATED AREAS THAT WILL NOT BE SUBJECT TO LAND DISTURBING ACTIVITY DO NOT REQUIRE SOIL AMENDMENT IF THEY ARE FENCED AND CONTINUOUSLY PROTECTED THROUGHOUT CONSTRUCTION. THE FENCING MUST BE IN PLACE AT THE FIRST GROUND DISTURBANCE INSPECTION. THIS WILL BE MONITORED BY THE BUILDING DEPARTMENT SITE INSPECTOR. NO DISTURBANCE, INCLUDING VEHICLE TRAFFIC OR MATERIAL STORAGE, IS ALLOWED IN THESE AREAS UNTIL FINAL INSPECTION. LABEL THESE AREAS AS (ND) IN THE PLAN VIEW.
- SOIL AMENDMENT AREA (SA): VEGETATED OR COMPOST AREAS (TURF AND LANDSCAPE) MUST BE AMENDED PER THE SOIL AMENDMENT DETAIL AND THE SUBSOIL MUST BE LOOSENEED SO IT WILL PROBE TO A DEPTH OF 12 INCHES PRIOR TO SITE FINAL INSPECTION. THIS INCLUDES AREAS IMPACTED BY CLEARING AND GRADING, STOCKPILING, SITE ACCESS, PATHWAYS AND MATERIALS OR EQUIPMENT STORAGE. LABEL THESE AREAS AS (SA) IN THE PLAN VIEW.

SOIL AMENDMENT



NOTES:

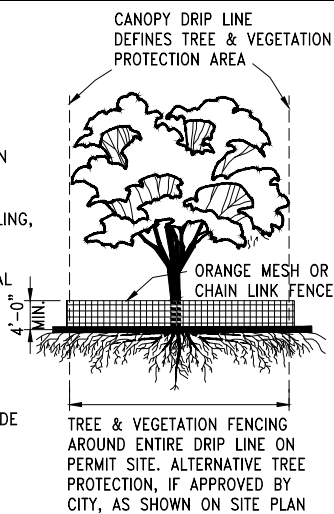
- POST CONSTRUCTION SOIL AMENDMENT IS REQUIRED ON ALL AREAS NOT COVERED BY IMPERVIOUS SURFACE WHERE SOIL IS DISTURBED DURING CONSTRUCTION.
- SOIL AMENDMENT MUST PASS A 12 INCH MINIMUM PROBE TEST.

SYMBOL: (SA) AREA REQUIRING SOIL AMENDMENT (ND) NON-DISTURBED AREA (SOIL AMENDMENT NOT REQUIRED)

TREE & VEGETATION PROTECTION

TREE PROTECTION FENCING

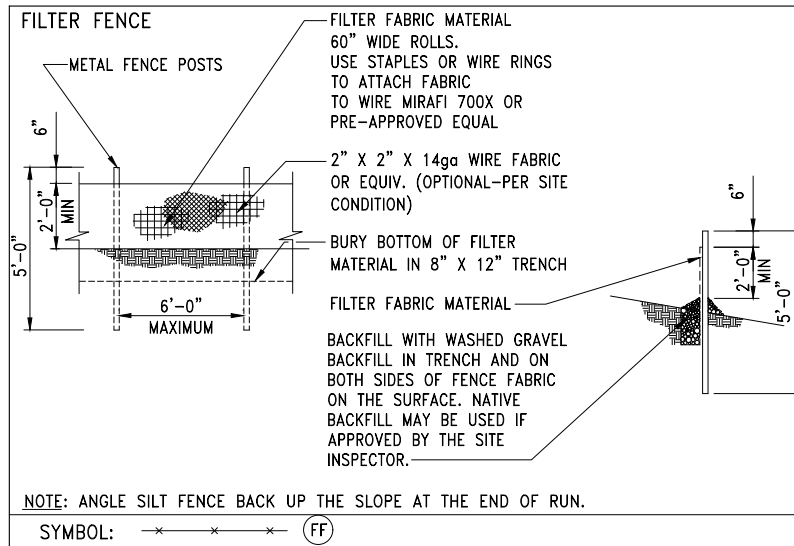
- MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND DISTURBANCE
- KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
- NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA, SUCH AS MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING, OR WASHING
- MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF BUILDING DEPARTMENT PLANNER ONLY
- IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS



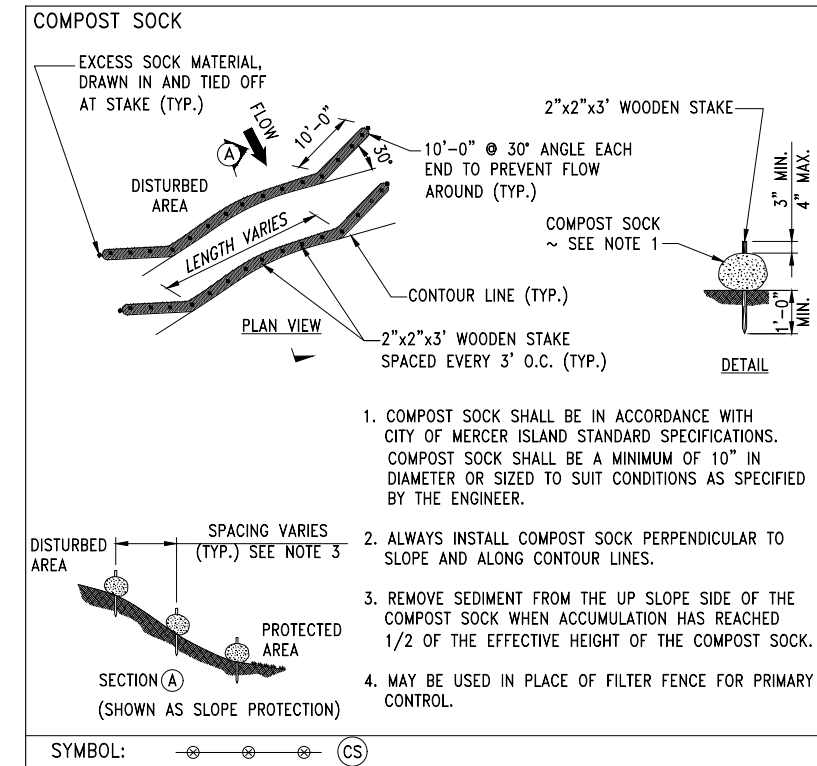
VEGETATION PROTECTION

- MINIMIZE CONSTRUCTION ZONE
- PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING AS SHOWN
- USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

SYMBOL: (VEG) LINK TO MORE TREE PROTECTION INFORMATION:

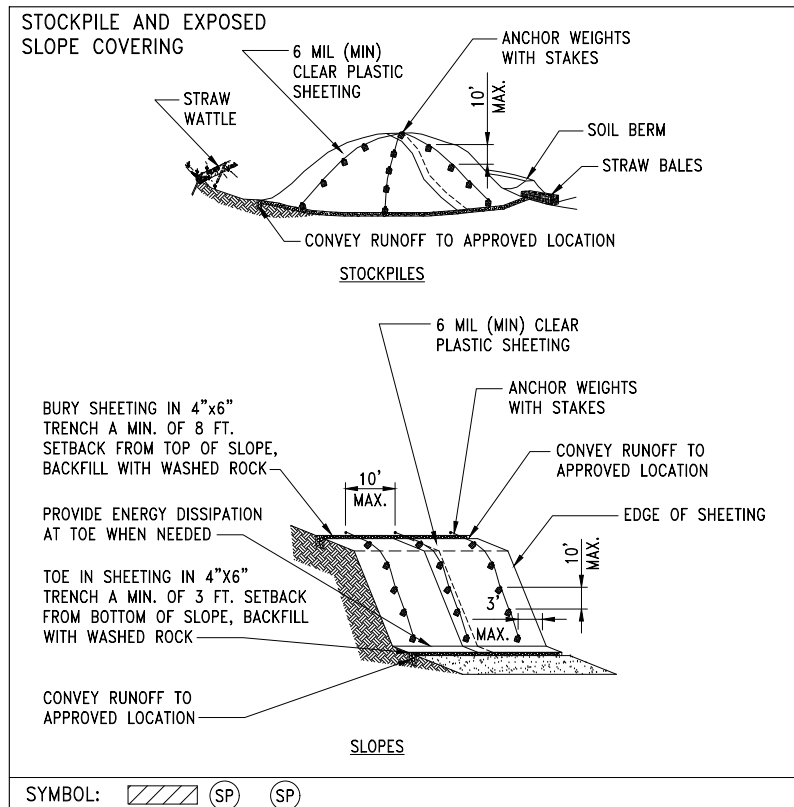


NOTE: ANGLE SILT FENCE BACK UP THE SLOPE AT THE END OF RUN.
SYMBOL: (FF)



- COMPOST SOCK SHALL BE IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARD SPECIFICATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 10" IN DIAMETER OR SIZED TO SUIT CONDITIONS AS SPECIFIED BY THE ENGINEER.
- ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
- REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
- MAY BE USED IN PLACE OF FILTER FENCE FOR PRIMARY CONTROL.

SYMBOL: (CS)

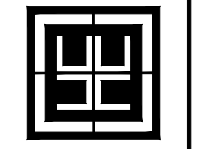


SYMBOL: (SP)

VERIFY SCALE
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SCALE:	NYS
CHK BY:	SL
DRW BY:	TL
REF:	

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SEATTLE, WASHINGTON 98102
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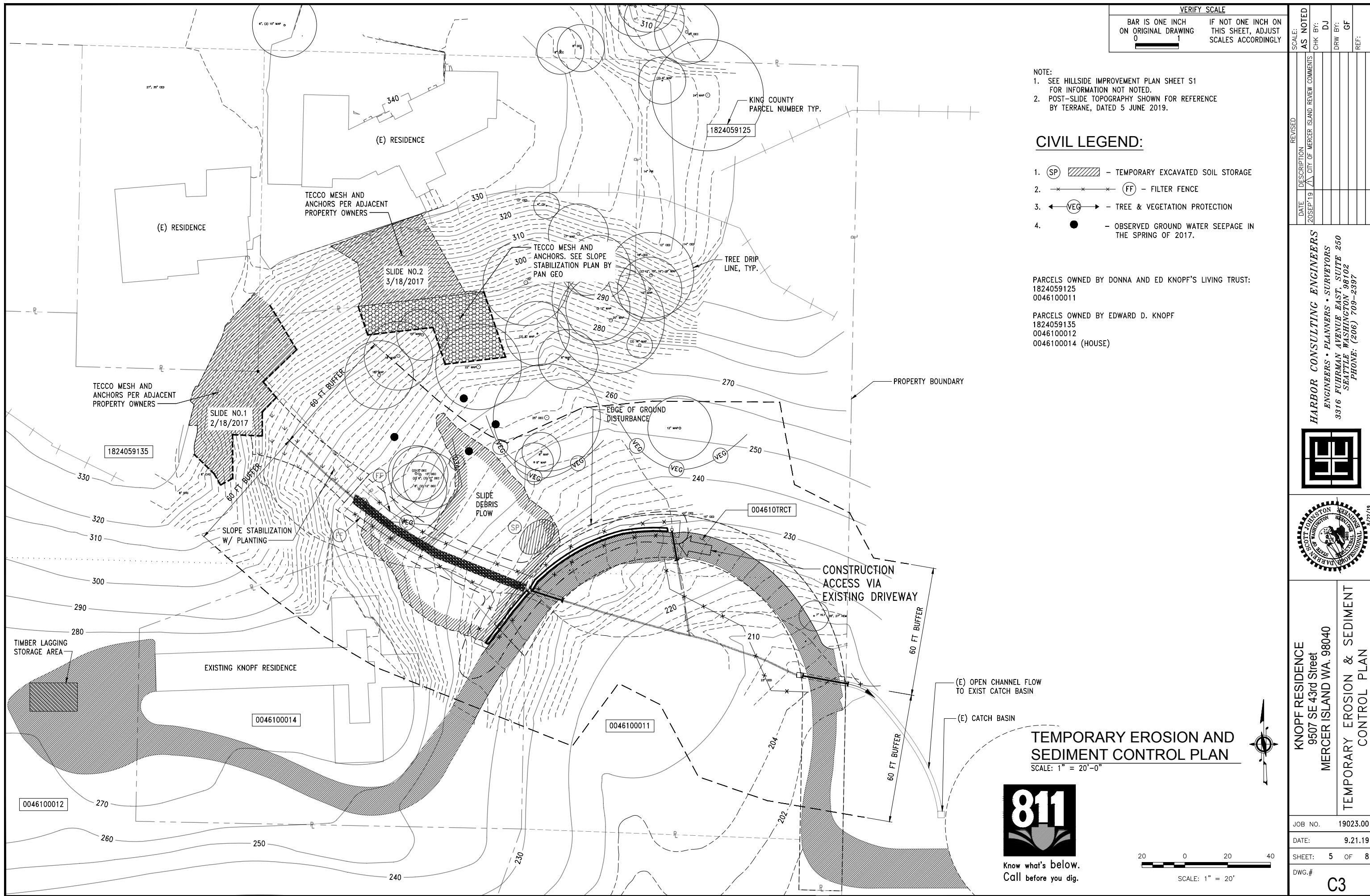


KNOPF RESIDENCE
9507 SE 43rd Street
MERCER ISLAND WA. 98040
TEMPORARY EROSION & SEDIMENT CONTROL NOTES & DETAILS

JOB NO.	19023.00
DATE:	9.21.19
SHEET:	4 OF 8
DWG.#	C2



PERMIT SET



VERIFY SCALE
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NOTE:
 1. SEE HILLSIDE IMPROVEMENT PLAN SHEET S1 FOR INFORMATION NOT NOTED.
 2. POST-SLIDE TOPOGRAPHY SHOWN FOR REFERENCE BY TERRANE, DATED 5 JUNE 2019.

CIVIL LEGEND:

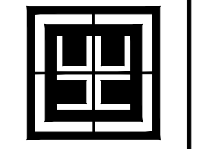
- 1. (SP) [diagonal hatching] - TEMPORARY EXCAVATED SOIL STORAGE
- 2. [cross-hatching] (FF) - FILTER FENCE
- 3. [circle with X] (VEG) - TREE & VEGETATION PROTECTION
- 4. [solid black circle] - OBSERVED GROUND WATER SEEPAGE IN THE SPRING OF 2017.

PARCELS OWNED BY DONNA AND ED KNOPF'S LIVING TRUST:
 1824059125
 0046100011

PARCELS OWNED BY EDWARD D. KNOPF
 1824059135
 0046100012
 0046100014 (HOUSE)

DATE	DESCRIPTION	REVISED	SCALE	AS NOTED	CHK BY	DRW BY	GF	REF.
20SEP19	CITY OF MERCER ISLAND REVIEW COMMENTS				DJ			

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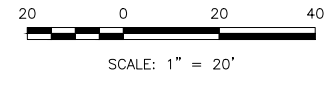


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TEMPORARY EROSION & SEDIMENT CONTROL PLAN

JOB NO.	19023.00
DATE:	9.21.19
SHEET:	5 OF 8
DWG.#	C3

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
 SCALE: 1" = 20'-0"



PERMIT SET

GENERAL STRUCTURAL NOTES

(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE PLANS)

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND THE 2015 INTERNATIONAL BUILDING CODE.

STRUCTURAL DESIGN CRITERIA: (FOR EXISTING RESIDENCE)
ACTUAL DEAD LOADS PLUS THE FOLLOWING DEAD AND LIVE LOADS:
FLOOR LIVE LOAD 40 psf
ROOF SNOW LOAD 25 psf

WIND LOADING: 110 MPH BASIC WIND SPEED, EXPOSURE "B", $K_z = 1.0$

SEISMIC DESIGN: EQUIVALENT LATERAL FORCE PROCEDURE
 $S_s = 1.50$, $F_a = 1.0$
 $S_1 = 0.5$, $F_v = 1.5$
 $R_p = 6.5$ PLYWOOD SHEATHED SHEARWALLS
 $S_{ps} = 1.0$
 $I_e = 1.0$
SITE CLASS = "D"
SEISMIC DESIGN CATEGORY = "D"

FOOTINGS SHALL BEAR ON SOLID UNYIELDING EARTH AT LEAST 12" BELOW LOWEST ADJACENT FINISHED GRADE AT PERIMETER AND EXTERIOR LOCATIONS. ALLOWABLE DESIGN SOIL BEARING PRESSURE= 2000 PSF, ASSUMED ALLOWABLE. MINIMUM FOOTING WIDTH SHALL BE 18 INCHES.

CONCRETE SHALL ATTAIN A 28 DAY STRENGTH OF 2500 PSI, MAXIMUM W/C RATIO = 0.50, MINIMUM 5 1/2 SACKS OF CEMENT PER CUBIC YARD. SUBMIT MIX DESIGN FOR REVIEW AND APPROVAL.

GROUT 5000 PSI MINIMUM 7-DAY CUBE STRENGTH PER ASTM C1157-00. GROUT TO BE PREMIXED NON-SHRINK "MASTERFLOW 928 GROUT" OR APPROVED EQUAL. USE SPECIFIC GROUT MIX RECOMMENDED BY MANUFACTURER FOR EACH GROUT APPLICATION AND FOLLOW GROUT MANUFACTURER'S INSTRUCTIONS.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. SUBMIT REINFORCING SHOP DRAWINGS WITH DETAILS PER ACI 315 MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318-14. LAP ALL CONTINUOUS REINFORCEMENT 40 BARS DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS. LAP CORNER BARS 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT MATS OF WELDED WIRE FABRIC 1 1/2 MESH AT SIDES AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE ----- 3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER, #6 BARS AND LARGER ----- 2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER, #5 BARS AND SMALLER ----- 1 1/2"
WALLS, INTERIOR FACE, THE LARGER OF ONE BAR DIAMETER OR A MINIMUM OF ----- 3/4"

DRILL-IN EXPANSION BOLTS KWIK BOLT III BY HILTI FASTENING SYSTEMS, "RED HEAD WEDGE ANCHOR" BY ITT PHILLIPS OR APPROVED EQUAL. ICC CERTIFICATION REQUIRED. SPECIAL INSPECTION REQUIRED.

DRILL-IN ADHESIVE INSTALLATIONS HILTI HY20 ADHESIVE ANCHOR SYSTEM FOR UNREINFORCED MASONRY OR BRICK WITH CAVITIES, HIT RE 500 SD ADHESIVE ANCHOR SYSTEM BY HILTI FASTENING SYSTEMS OR SET EPOXY ANCHOR SYSTEM BY SIMPSON STRONG TIE ANCHOR SYSTEMS FOR SOLID MASONRY OR CONCRETE, OR APPROVED EQUAL. ICC CERTIFICATION REQUIRED. SPECIAL INSPECTION REQUIRED.

CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

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

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ONLY ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.

ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE INSTRUCTIONS PREPARED BY THE SUPPLIER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

THE STRUCTURAL ENGINEER HAS NO KNOWLEDGE OF, AND IS NOT RESPONSIBLE FOR THE SITE AND SOIL CONDITIONS.

MISCELLANEOUS

REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF DUCT OPENINGS, PIPING, CONDUITS, ETC. NOT SHOWN. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK AND NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SBC CHAPTER 17 BY A TESTING AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION FOR THE FOLLOWING COMPONENTS:

- NONE REQUIRED.

SUBMIT SPECIAL INSPECTION REPORTS TO THE CITY OF MERCER ISLAND BUILDING DEPARTMENT, THE ARCHITECT OF RECORD, AND THE STRUCTURAL ENGINEER OF RECORD.

END OF GENERAL STRUCTURAL NOTES

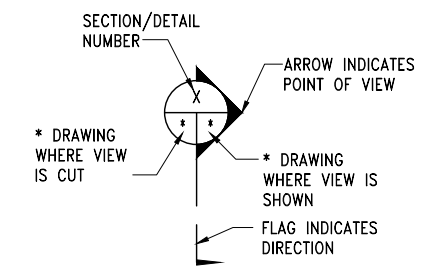
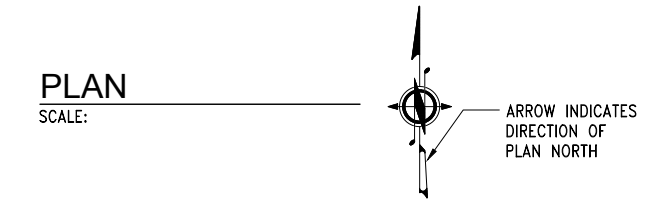
STRUCTURAL ABBREVIATIONS

LISTED ABBREVIATIONS FOR USE WITH STRUCTURAL DRAWINGS ONLY. SOME ABBREVIATIONS MAY NOT BE USED ON THE PLANS.

&	AND	FIG	FIGURE	PC	PRECAST
⊙	AT	FL	FLOOR	PCF	POUNDS PER CUBIC FOOT
#	NUMBER	FT	FOOT, FEET	PL	PLATE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	FTG	FOOTING	PLYWD	PLYWOOD
AB	ANCHOR BOLT	GA	GAGE	PREFAB	PRE-FABRICATED
ACI	AMERICAN CONCRETE INSTITUTE	GALV	GALVANIZED	PS	PRESTRESSED
ADDL	ADDITIONAL	GB	GRADE BEAM	PSF	POUNDS PER SQUARE FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GL	GLUED LAMINATED TIMBER	PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GR	GUARD RAIL	PT	POST TENSION
APPROX	APPROXIMATE(LY)	GRND	GROUND	PVC	POLYVINYL CHLORIDE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GRTG	GRATING	PVMT	PAVEMENT
AWS	AMERICAN WELDING SOCIETY	H	HEIGHT	RAD, R	RADIUS
BLDG	BUILDING	HDR	HEADER	REF	REFERENCE/REFER
BLK	BLOCK(ING)	HDWD	HARDWOOD	REINF	REINFORCING, REINFORCEMENT
BM	BEAM	HEF	HORIZONTAL EACH FACE	REQD	REQUIRED
BOT	BOTTOM	HGR	HANGER	REV	REVISION
BRG	BEARING	HORIZ	HORIZONTAL	RM	ROOM
BSMT	BASEMENT	HP	HIGH POINT	S	AMERICAN STANDARD SHAPE
BTWN	BETWEEN	HR	HANDRAIL	SCHED	SCHEDULE
C	STANDARD CHANNEL	HSS	HOLLOW STEEL SHAPE	SECT	SECTION
CC	CENTER TO CENTER	ID	INSIDE DIAMETER	SHT	SHEET
CCF	CONTROLLED DENSITY FILL	IE	INVERT ELEVATION	SIM	SIMILAR
CIP	CAST IN PLACE	IF	INSIDE FACE	SOG	SLAB ON GRADE
CJ	CONSTRUCTION JOINT	IN	INCH	SP	SPACE(S,ED)
CL	CENTERLINE	INT	INTERIOR	SPEC	SPECIFICATION, SPECIFIED
CLR	CLEAR	INV	INVERT	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	JT	JOINT	SS	STAINLESS STEEL
COL	COLUMN	KIP, K	1,000 POUNDS	STD	STANDARD
CONC	CONCRETE	KSI	KIPS PER SQUARE INCH	STL	STEEL
CONN	CONNECTION	L	ANGLE	STIFF	STIFFENER
CONST	CONSTRUCTION	LB	POUND	STRUCT	STRUCTURAL
CONT	CONTINUOUS	LF	LINEAL FEET	SUPT	SUPPORT
CP	COMPLETE PENETRATION WELD -ULTRASONIC TEST CENTER(ED)	LL	LIVE LOAD	SW	SHEAR WALL
CTR	CENTER(ED)	LG	LONG	SYM	SYMMETRICAL
D	DEEP, DEPTH	LLH	LONG LEG HORIZONTAL	T	TOP
d	PENNY (NAILS)	LLV	LONG LEG VERTICAL	T&B	TOP AND BOTTOM
DEMO	DEMOLITION	LP	LONG POINT	T&G	TONGUE AND GROOVE
DET	DETAIL	LVL	LEVEL	TOC	TOP OF CONCRETE
DF	DOUGLAS FIR	MAS	MASONRY	TOF	TOP OF FOOTING
DIA, Ø	DIAMETER	MATL	MATERIAL	TOS	TOP OF STEEL
DL	DEAD LOAD	MAX	MAXIMUM	TOW	TOP OF WALL
DN	DOWN	MB	MACHINE BOLT	TRNSV	TRANSVERSE
DWG(S)	DRAWING(S)	MECH	MECHANICAL	TYP	TYPICAL
DWL(S)	DOWEL(S)	MFR	MANUFACTURER	UG	UNDERGROUND
EA	EACH	MIN	MINIMUM	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	MISC	MISCELLANEOUS	UT	ULTRASONIC TEST
EJ	EXPANSION JOINT	N	NORTH	VERT,V	VERTICAL
EL, ELEV	ELEVATION	NF	NEAR FACE	VIF	VERTICAL INSIDE FACE
EMB	EMBEDMENT	NIC	NOT IN CONTRACT	VOF	VERTICAL OUTSIDE FACE
EQ	EQUAL(LY)	NOM	NOMINAL	W	WIDE FLANGE, WIDE
EW	EACH WAY	NTS	NOT TO SCALE	W/	WITH
EXP	EXPANSION	OC	ON CENTER	W/O	WITHOUT
EXIST	EXISTING	OD	OUTSIDE DIAMETER	WP	WORK POINT
FB	FLAT BAR	O.F.	OUTSIDE FACE	WT	WEIGHT, STRUCTURAL TEE
f'c	CONCRETE COMPRESSIVE STRENGTH	OPNG(S)	OPENING(S)	WWF	WELDED WIRE FABRIC
f'm	MASONRY PRISM STRENGTH	OP	OPPOSITE (HAND)	X-STR	EXTRA STRONG
FDN	FOUNDATION	OWJ	OPEN WEB JOIST	XX-STR	DOUBLE EXTRA STRONG
FF	FAR FACE	YD	YARD		

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

GENERAL SYMBOLOGY



SCALE:	NTS
CHK BY:	DJ
DRW BY:	GF
REF:	
DATE:	20SEP19
DESCRIPTION:	CITY OF MERCER ISLAND REVIEW COMMENTS
REVISED:	
HARBOR CONSULTING ENGINEERS ENGINEERS • PLANNERS • SURVIVORS 3316 FUHRMAN AVENUE EAST, SUITE 250 SEATTLE, WASHINGTON 98102 PHONE: (206) 709-2397	
KNOPF RESIDENCE 9507 SE 43rd Street MERCER ISLAND WA. 98040	
GENERAL STRUCTURAL NOTES, ABBREVIATIONS, AND SYMBOLOGY	
JOB NO.	19023.00
DATE:	9.21.19
SHEET:	6 OF 8
DWG.#	S0

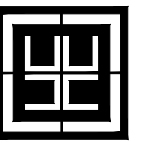
PERMIT SET

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SCALE: AS NOTED
 CHK BY: DJ
 DRW BY: GF
 REF:

DATE	DESCRIPTION	REVISED
20SEP19	CITY OF MERCER ISLAND REVIEW COMMENTS	

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 SEATTLE WASHINGTON 98102
 PHONE: (206) 709-2397



KNOPF RESIDENCE
 9507 SE 43rd Street
 MERCER ISLAND WA. 98040

HILLSIDE IMPROVEMENTS PLAN

JOB NO. 19023.00
 DATE: 9.21.19
 SHEET: 7 OF 8
 DWG.# S1

PERMIT SET

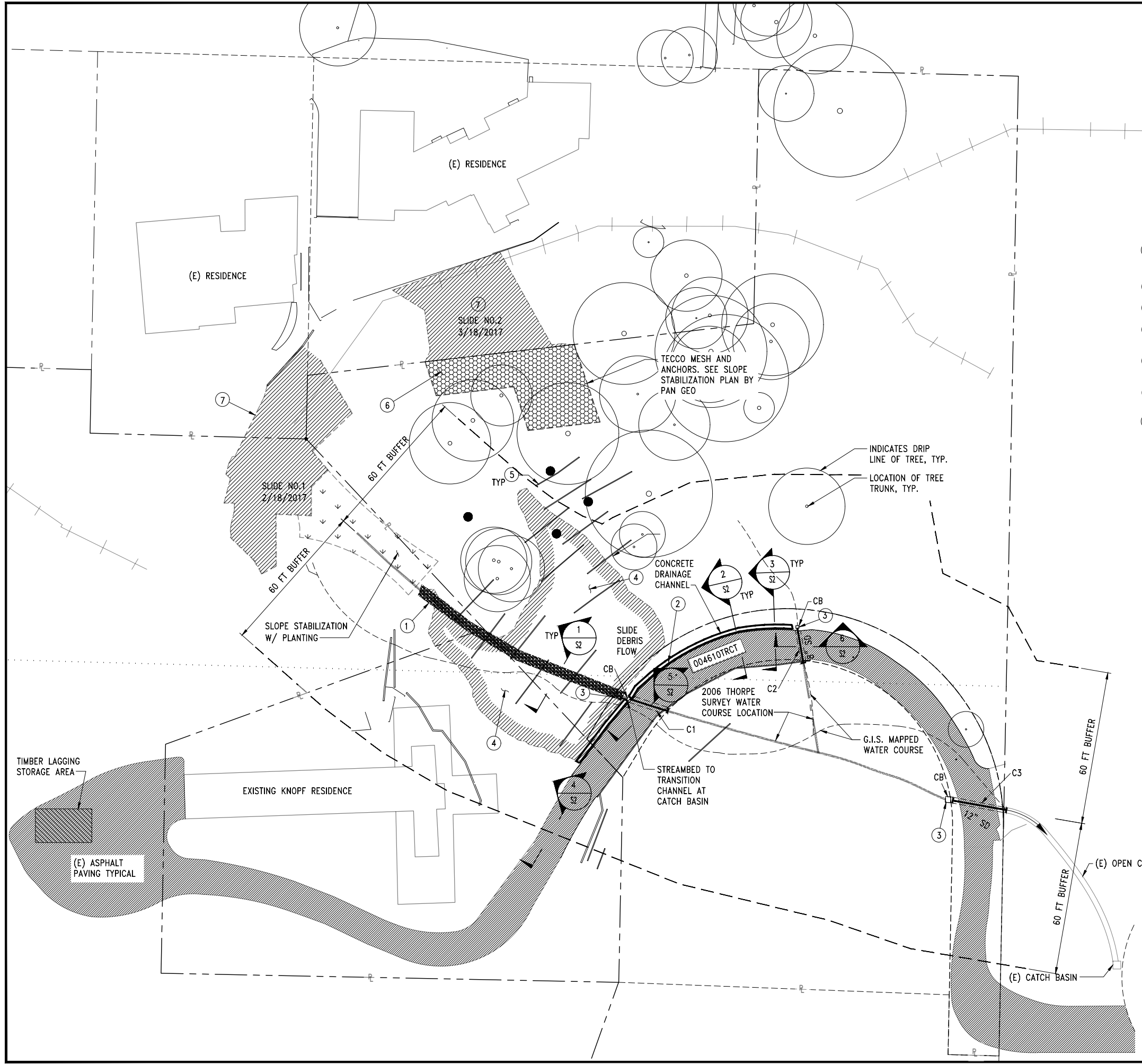
KEY SYMBOLS FOR WORK ITEMS:

- ① - LINE REESTABLISHED STREAM BED AND EXPOSED EXISTING STREAM BED WITH 2" MINUS MAINTENANCE ROCK/BALLAST SPALLS.
- ② - SITE CAST CONCRETE DRAINAGE CHANNEL.
- ③ - CLEAN CATCH BASINS AND CULVERT; C1, C2, & C3
- ④ - INSTALL LANDSCAPE ROCKERIES AND NATIVE PLANTINGS IN SLIDE AREA. SEE PLANTING PLAN BY NORTHWEST ENVIRONMENTAL CONSULTING.
- ⑤ - REMOVE TEMPORARY EMERGENCY CATCHMENT WALLS, UPSLOPE OF DRIVEWAY. STORE TIMBER LAGGING IN DESIGNATED AREA OR AS DIRECTED BY THE OWNER.
- ⑥ - INSTALL TECCO MESH SLOPE STABILIZATION. SEE SLOPE STABILIZATION PLAN FOR DETAILS
- ⑦ - TECCO MESH SLOPE STABILIZATION PERFORMED BY ADJACENT PROPERTY OWNERS

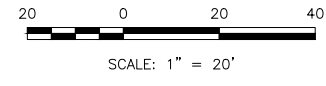
NOTE
 1. TECCO MESH IS MANUFACTURED BY GEOBRUGG
 WWW.GEOBRUGG.COM
 TELEPHONE: 1-505-771-4080

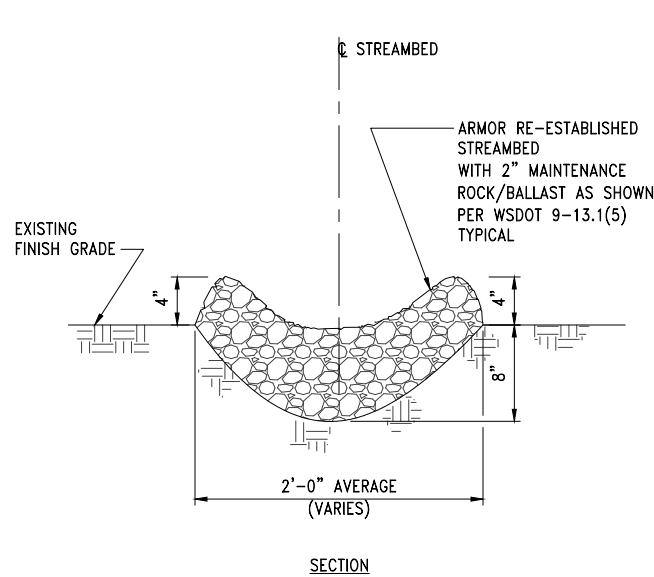
TOPOGRAPHY NOT SHOWN FOR CLARITY. SEE SHEET R1 FOR POST SLIDE TOPOGRAPHY.

- 2. ● - OBSERVED GROUND WATER SEEPAGE LOCATIONS IN THE SPRING OF 2017.

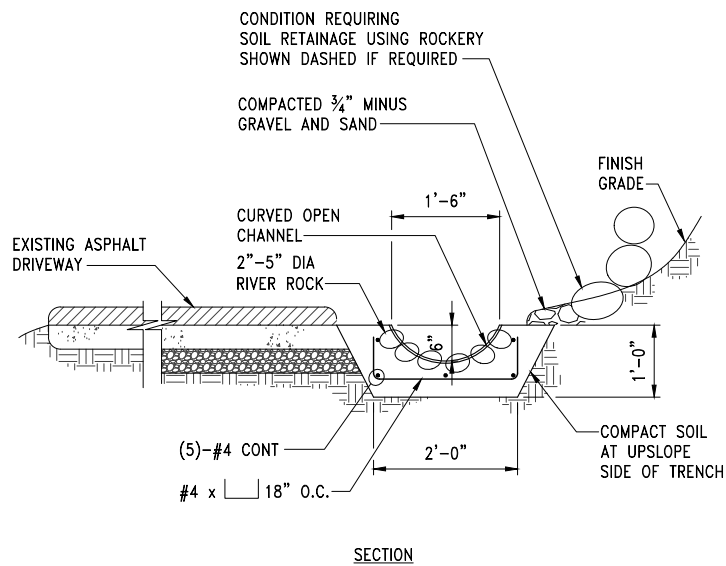


HILLSIDE IMPROVEMENTS PLAN
 SCALE: 1" = 20'-0"

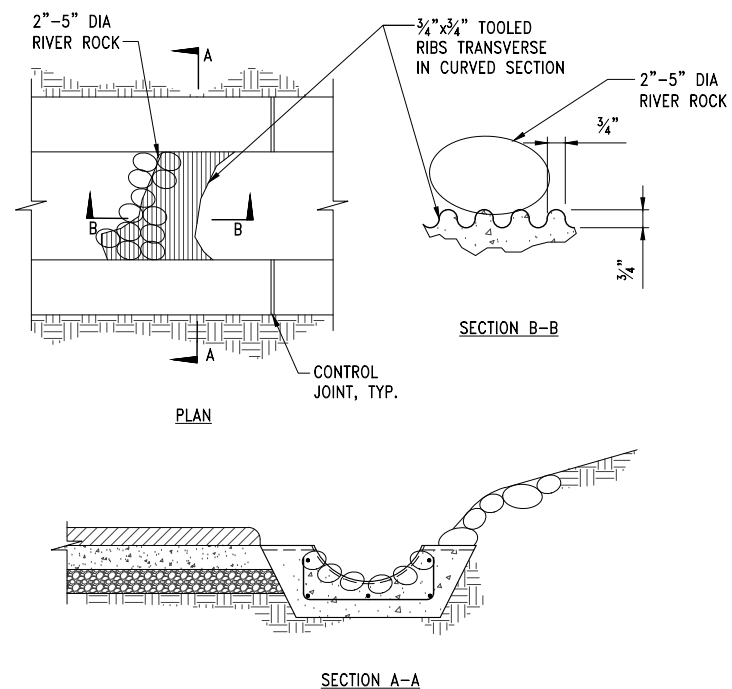




TYP EXISTING STREAMBED ARMORING
SCALE: 1 1/2" = 1'-0"

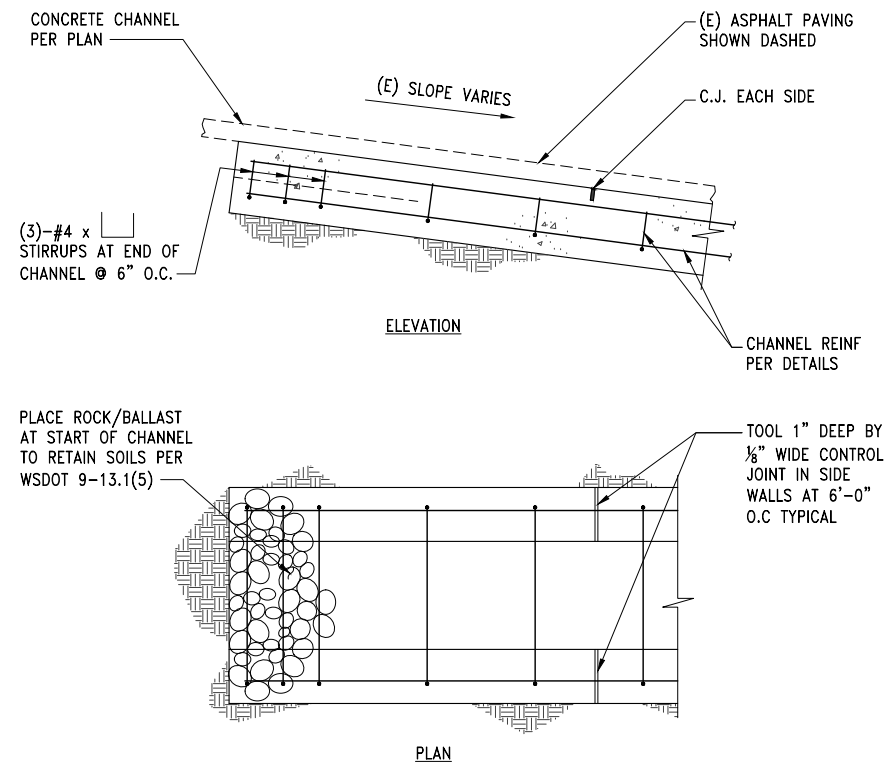


TYP OPEN CHANNEL UP SLOPE OF DRIVEWAY
SCALE: 3/4" = 1'-0"



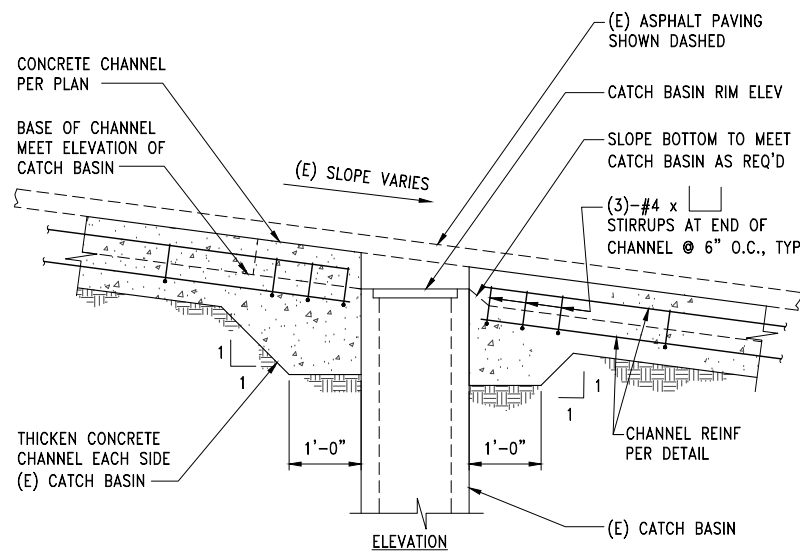
NOTE:
1. FOLLOW CURVATURE AND ELEVATION OF DRIVEWAY SEE SHEET S1.

TYP CHANNEL FINISHING DETAIL
SCALE: 3/4" = 1'-0"

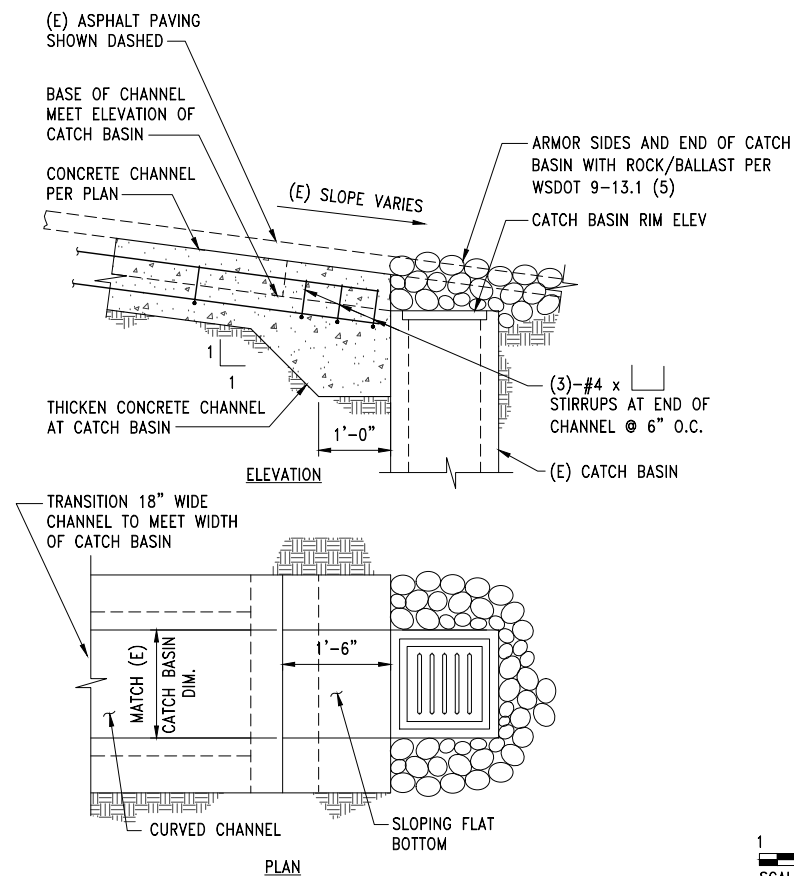


NOTE:
1. FOLLOW CURVATURE AND ELEVATION OF DRIVEWAY, SEE SHEET S1.

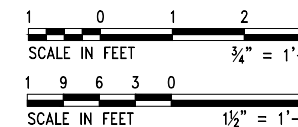
UPSLOPE DRAINAGE CHANNEL
SCALE: 3/4" = 1'-0"



DRAINAGE CHANNEL TO (E) CATCH BASIN
SCALE: 3/4" = 1'-0"



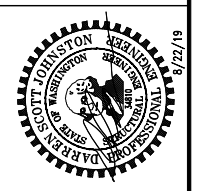
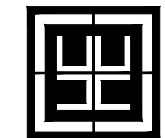
CHANNEL TERMINATION TO (E) CATCH BASIN
SCALE: 3/4" = 1'-0"



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HILLSIDE IMPROVEMENTS DETAILS

JOB NO.	19023.00
DATE:	9.21.19
SHEET:	8 OF 8
DWG.#	S2

PERMIT SET