

KNOPF RESIDENCE HILLSIDE IMPROVEMENTS Mercer Island, WA.

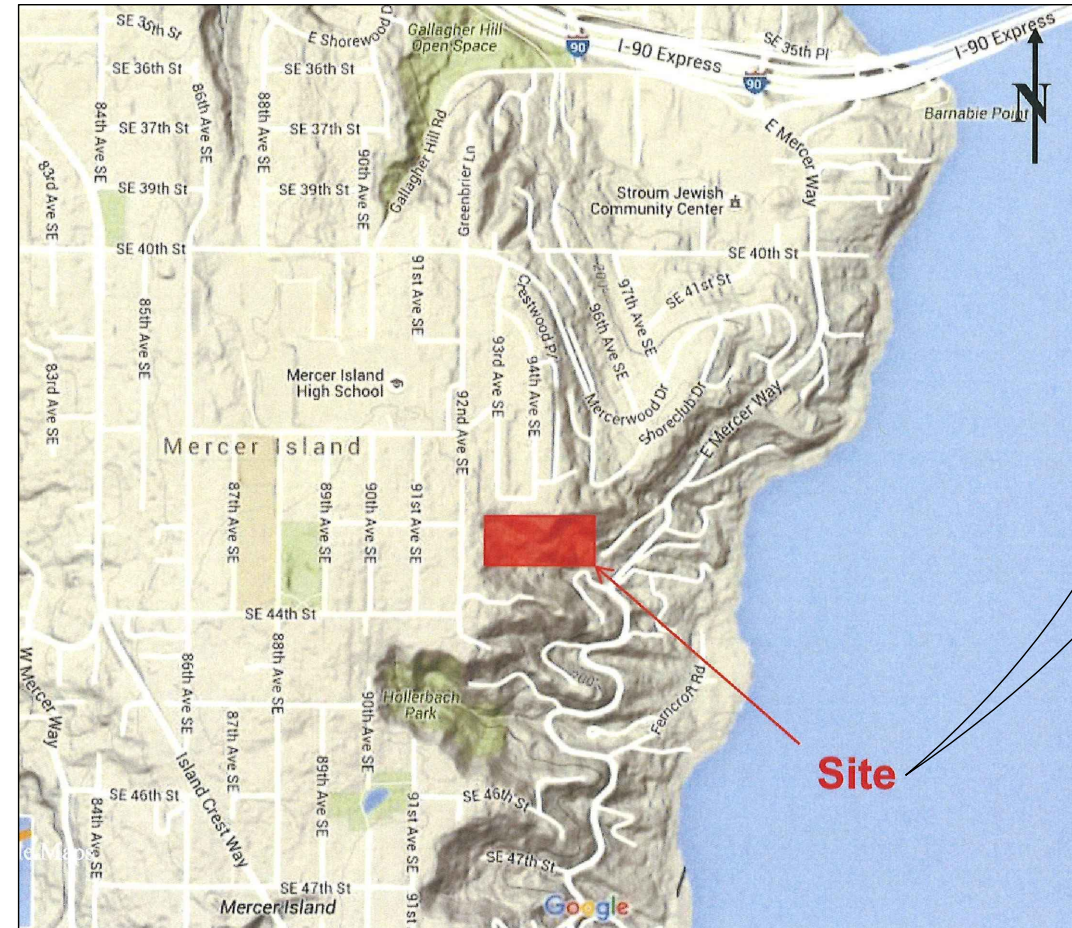
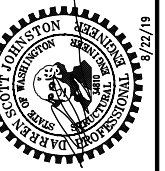
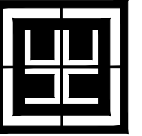
AMENDED PERMIT SET NOVEMBER 21, 2019

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
20SEP19	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

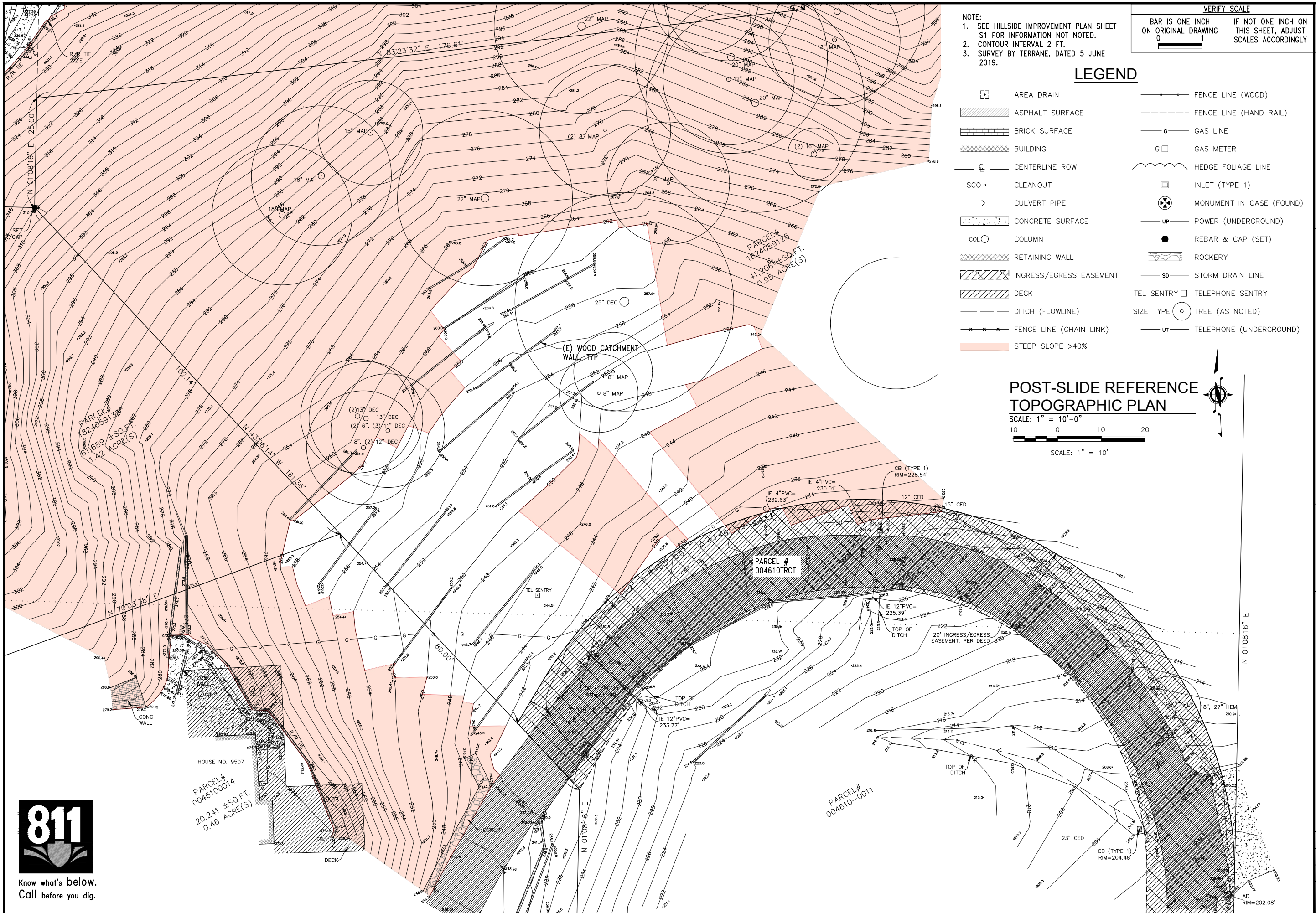


KNOPF RESIDENCE
9507 SE 43rd Street
MERCER ISLAND WA. 98040

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.

VERIFY SCALE
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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'



Know what's below.
 Call before you dig.

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

1. SITE ADDRESS: 9507 SE 43rd STREET MERCER ISLAND WA 98040
2. ELEVATIONS ARE IN FEET AND ARE REFERRED TO NAVD88
3. 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.
4. MATERIALS AND INSTALLATION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE, 2015 EDITION, WITH CURRENT LOCAL AMENDMENTS, AND ALL OTHER APPLICABLE CODES, RULES AND REGULATIONS.
5. 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.
6. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
7. 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.
8. COORDINATE AND ARRANGE FOR ALL UTILITY SERVICE INTERRUPTIONS WITH APPROPRIATE UTILITY AND WITH OWNER.
9. ALL DISTURBED AREAS OTHER THAN SPECIFIED CONTRACT WORK AREAS SHALL BE RETURNED TO THEIR PRECONSTRUCTION CONDITION PRIOR TO CONTRACT COMPLETION AND ACCEPTANCE.
10. THIS PROJECT IS NOT A BALANCED EARTHWORK PROJECT. BOTH IMPORT AND EXPORT OF SOIL AND ROCK MATERIALS WILL BE REQUIRED.
11. 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.
12. 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.
13. COPIES OF ALL ENVIRONMENTAL PERMITS WILL BE FURNISHED TO THE CONTRACTOR, WHO SHALL COMPLY WITH ALL CONDITIONS OF THESE PERMITS.
14. 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.
15. 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.
16. CONSTRUCTION DEBRIS SHALL NOT BE STORED OR BURNED ON SITE. DEBRIS SHALL BE REMOVED DAILY AND SHALL NOT BE ALLOWED TO ENTER THE WATER.
17. 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.
18. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

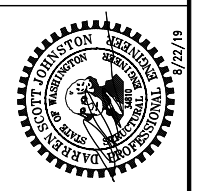
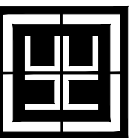
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SCALE:	NYS
CHK BY:	SL
DRW BY:	TL
REF:	

REVISIONS

DATE	DESCRIPTION	REVIEW COMMENTS
20SEP'19		

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

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.	CB INDICATES EXISTING CATCH BASIN.	33.	SANITARY SEWER LINE
3.	WATER VALVE W/ VALVE BOX	20.	C# 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.	+12.94 EXISTING SPOT ELEVATIONS
7.	POWER VAULT	24.	PROPERTY LINE	38.	+12.94 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.				



PERMIT SET

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.

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CHK BY:	SL
DRW BY:	TL
REF:	

- 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

PLANTING BEDS	TURF (LAWN) AREAS
2"-4" MULCH	GRASS: SEED OR SOD
3" OF COMPOST INCORPORATED INTO SOIL TO 8" DEPTH	1 3/4" OF COMPOST INCORPORATED INTO SOIL TO 8" DEPTH
SUBSOIL SCARIFIED 4" BELOW COMPOST AMENDED LAYER (12" BELOW SOIL SURFACE), OR AS DETERMINED BY THE CITY	SUBSOIL SCARIFIED 4" BELOW COMPOST AMENDED LAYER (12" BELOW SOIL SURFACE), OR AS DETERMINED BY THE CITY

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:

FILTER FENCE

60" WIDE ROLLS. USE STAPLES OR WIRE RINGS TO ATTACH FABRIC TO WIRE MIRAFI 700X OR PRE-APPROVED EQUAL

2" X 2" X 14ga WIRE FABRIC OR EQUIV. (OPTIONAL-PER SITE CONDITION)

BURY BOTTOM OF FILTER MATERIAL IN 8" X 12" TRENCH

BACKFILL WITH WASHED GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FENCE FABRIC ON THE SURFACE. NATIVE BACKFILL MAY BE USED IF APPROVED BY THE SITE INSPECTOR.

NOTE: ANGLE SILT FENCE BACK UP THE SLOPE AT THE END OF RUN.

SYMBOL: (FF)

COMPOST SOCK

EXCESS SOCK MATERIAL, DRAWN IN AND TIED OFF AT STAKE (TYP.)

10'-0" @ 30° ANGLE EACH END TO PREVENT FLOW AROUND (TYP.)

COMPOST SOCK ~ SEE NOTE 1

2"x2"x3" WOODEN STAKE SPACED EVERY 3' O.C. (TYP.)

CONTOUR LINE (TYP.)

PLAN VIEW

DETAIL

- 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)

STOCKPILE AND EXPOSED SLOPE COVERING

6 MIL (MIN) CLEAR PLASTIC SHEETING

ANCHOR WEIGHTS WITH STAKES

SOIL BERM

STRAW BALES

CONVEY RUNOFF TO APPROVED LOCATION

STOCKPILES

10' MAX.

6 MIL (MIN) CLEAR PLASTIC SHEETING

ANCHOR WEIGHTS WITH STAKES

BURY SHEETING IN 4"x6" TRENCH A MIN. OF 8 FT. SETBACK FROM TOP OF SLOPE, BACKFILL WITH WASHED ROCK

CONVEY RUNOFF TO APPROVED LOCATION

EDGE OF SHEETING

10' MAX.

3' MAX.

PROVIDE ENERGY DISSIPATION AT TOE WHEN NEEDED

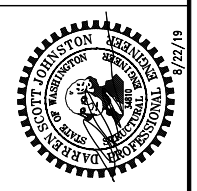
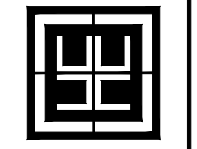
TOE IN SHEETING IN 4"x6" TRENCH A MIN. OF 3 FT. SETBACK FROM BOTTOM OF SLOPE, BACKFILL WITH WASHED ROCK

CONVEY RUNOFF TO APPROVED LOCATION

SLOPES

SYMBOL: (SP)

HARBOR CONSULTING ENGINEERS
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 SEATTLE, WASHINGTON 98102
 PHONE: (206) 709-2397



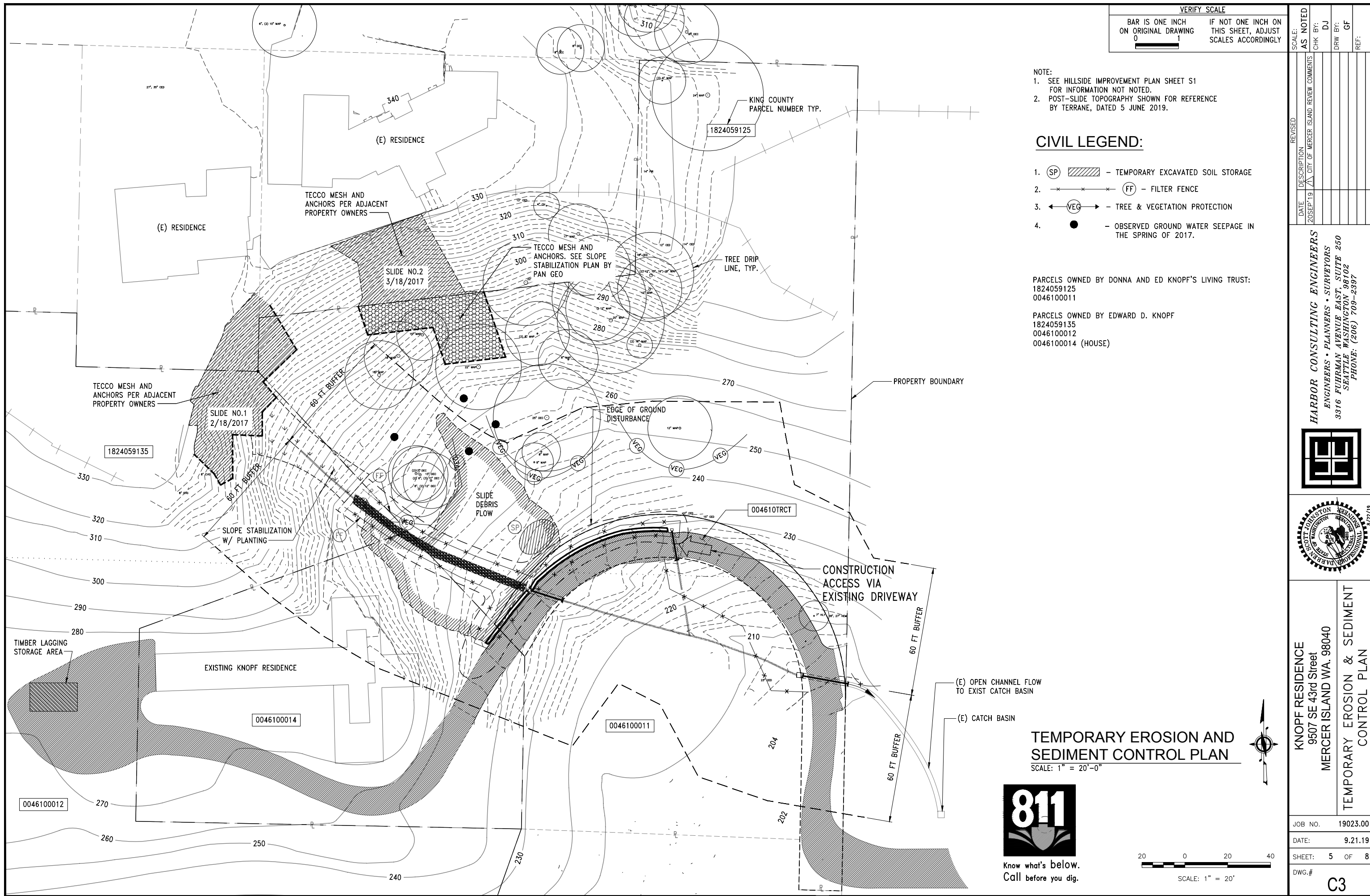
KNOPF RESIDENCE
 9507 SE 43rd Street
 MERCER ISLAND WA, 98040

TEMPORARY EROSION & SEDIMENT CONTROL NOTES & DETAILS

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

811
 Know what's below.
 Call before you dig.

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:

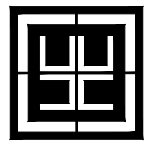
- (SP) [diagonal hatching] - TEMPORARY EXCAVATED SOIL STORAGE
- [cross-hatching] (FF) - FILTER FENCE
- [circle with 'VEG'] - TREE & VEGETATION PROTECTION
- [black dot] - OBSERVED GROUND WATER SEEPAGE IN THE SPRING OF 2017.

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			

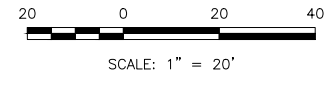
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 SEATTLE WASHINGTON 98102
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KNOPF RESIDENCE
 9507 SE 43rd Street
 MERCER ISLAND WA, 98040

TEMPORARY EROSION & SEDIMENT CONTROL PLAN

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



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

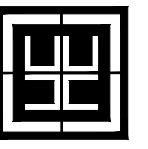
PERMIT SET

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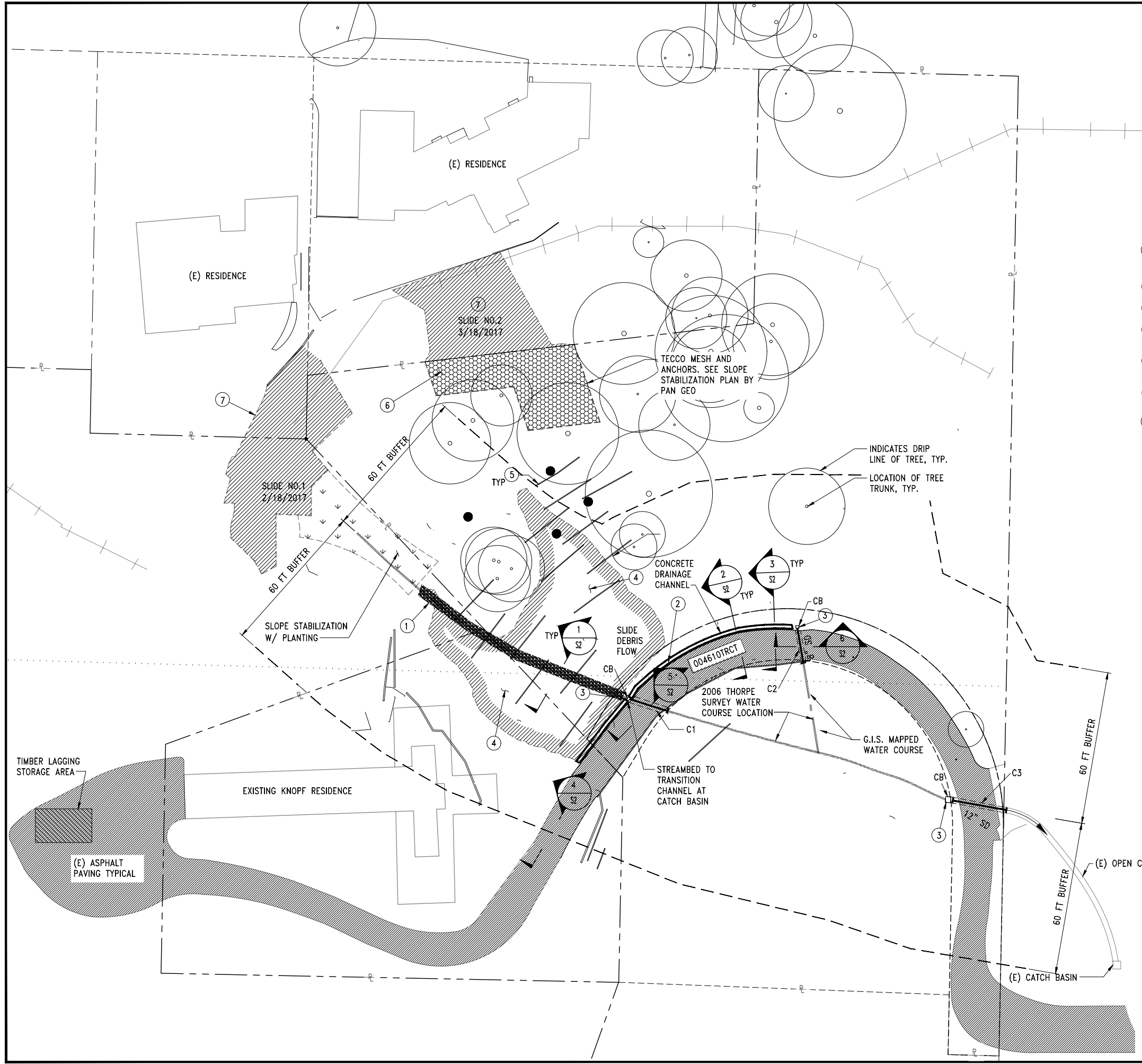


KNOPF RESIDENCE
 9507 SE 43rd Street
 MERCER ISLAND WA, 98040

HILLSIDE IMPROVEMENTS PLAN

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

PERMIT SET



KEY SYMBOLS FOR WORK ITEMS:

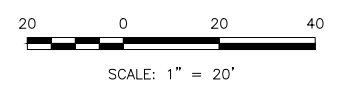
- ① - LINE REESTABLISHED STREAM BED AND EXPOSED EXISTING STREAM BED WITH 2" MINUS MAINTENANCE ROCK/BALLAST SPALLS.
- ② - SITE CAST CONCRETE DRAINAGE CHANNEL.
- ③ - CLEAN CATCH BASINS AND CULVERT; C1, C2, & C3
- ④ - INSTALL LANDSCAPE ROCKERIES AND NATIVE PLANTINGS IN SLIDE AREA. SEE PLANTING PLAN BY NORTHWEST 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

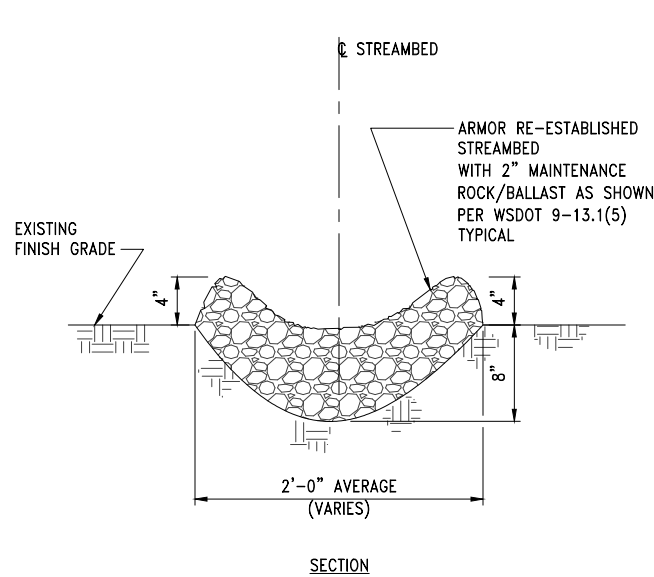
NOTE
 1. TECCO MESH IS MANUFACTURED BY GEOBRUGG
 WWW.GEOBRUGG.COM
 TELEPHONE: 1-505-771-4080

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

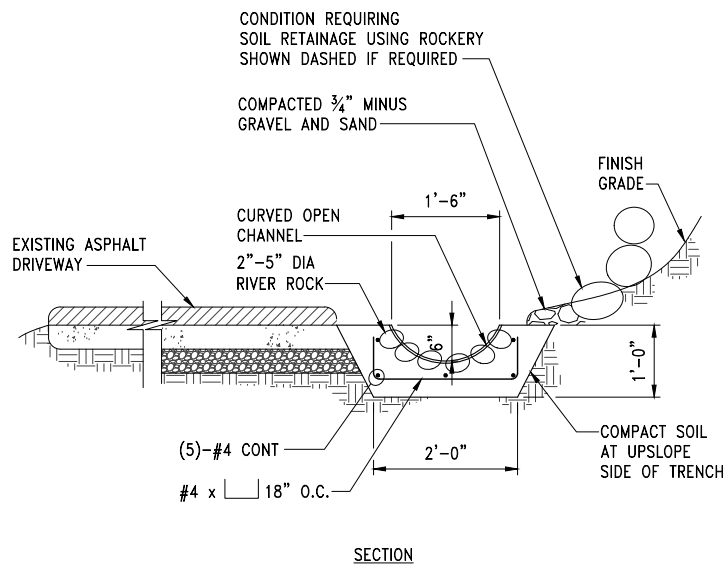
- 2. ● - OBSERVED GROUND WATER SEEPAGE LOCATIONS IN THE SPRING OF 2017.

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

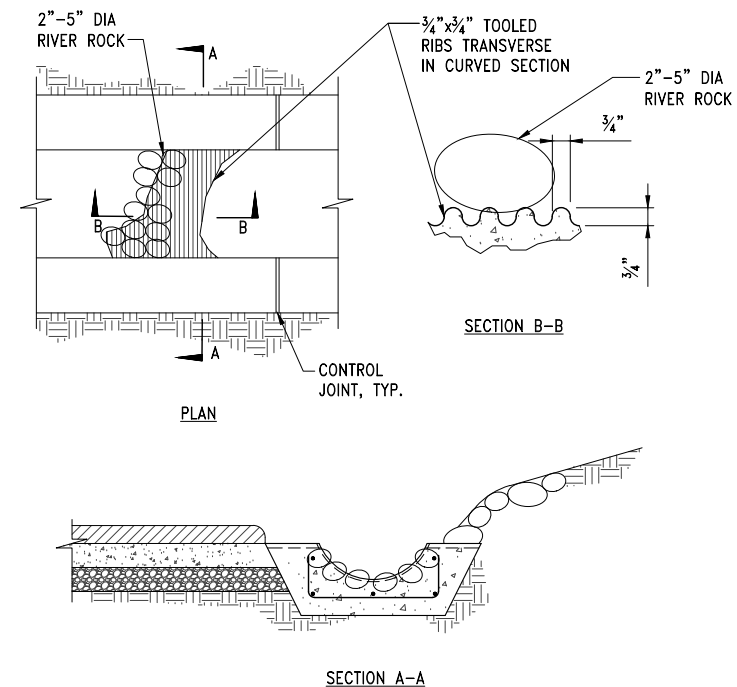




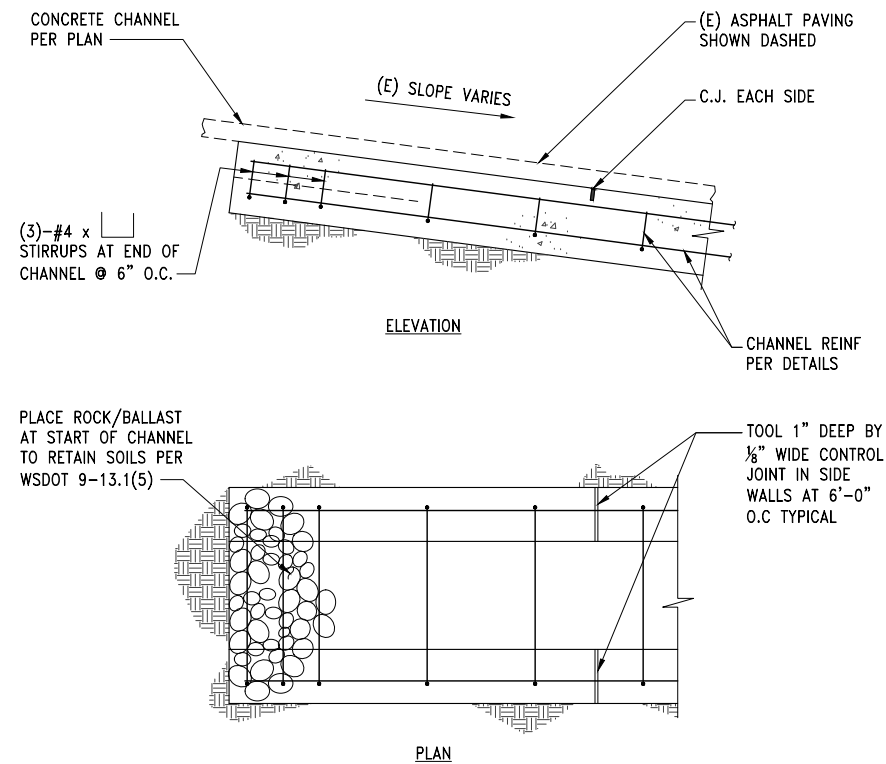
TYP EXISTING STREAMBED ARMORING
SCALE: 1 1/2" = 1'-0"



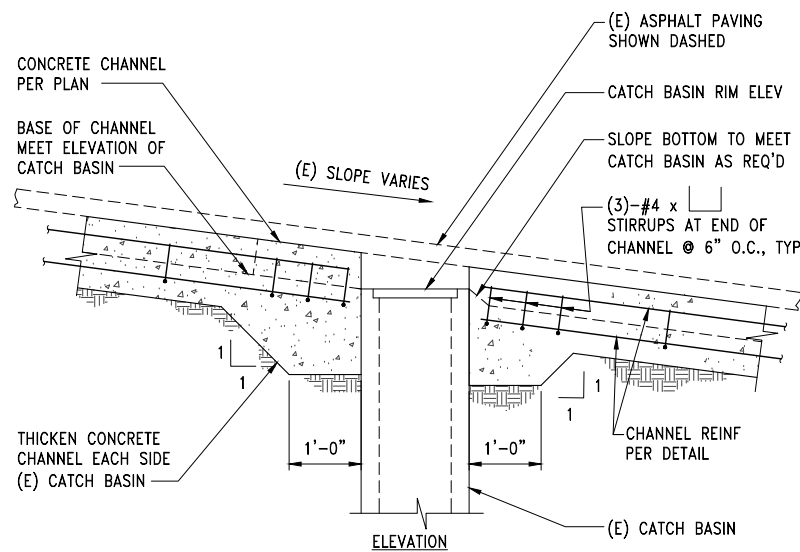
TYP OPEN CHANNEL UP SLOPE OF DRIVEWAY
SCALE: 3/4" = 1'-0"



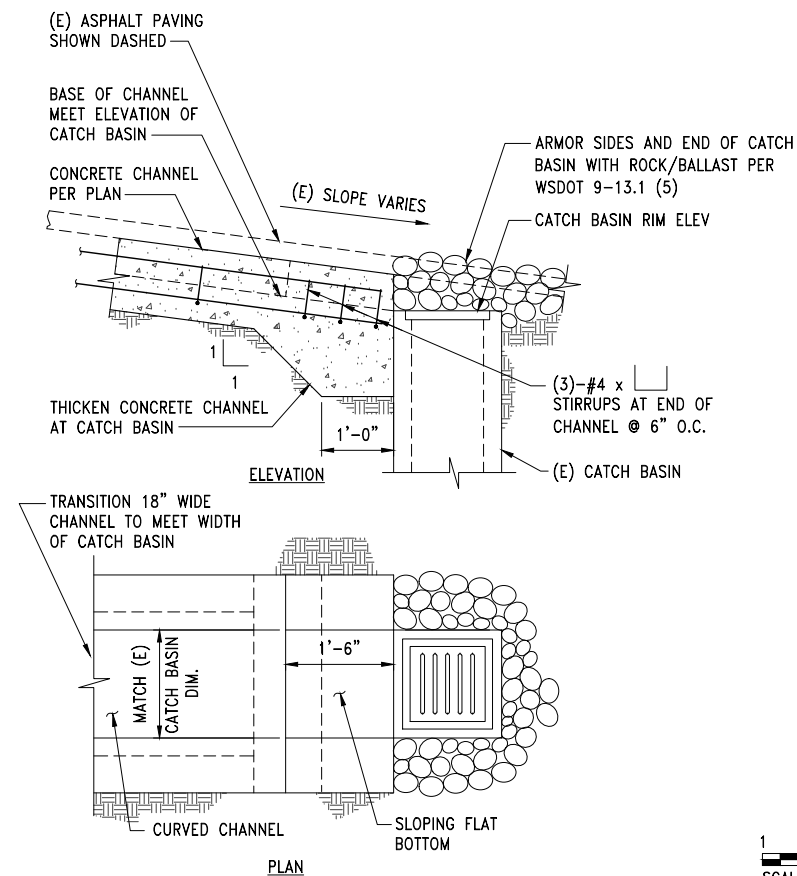
TYP CHANNEL FINISHING DETAIL
SCALE: 3/4" = 1'-0"



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



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

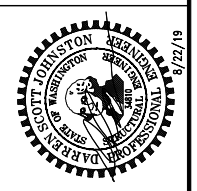
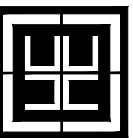


CHANNEL TERMINATION TO (E) CATCH BASIN
SCALE: 3/4" = 1'-0"

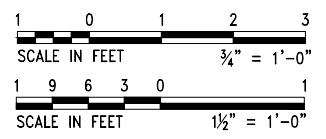
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DATE	DESCRIPTION	REVISED	SCALE	AS NOTED	CHK BY:	DRW BY:	TL	REF:
20SEP19	CITY OF MERCER ISLAND				DJ			

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



KNOPF RESIDENCE
9507 SE 43rd Street
MERCER ISLAND WA, 98040
HILLSIDE IMPROVEMENTS DETAILS



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

PERMIT SET