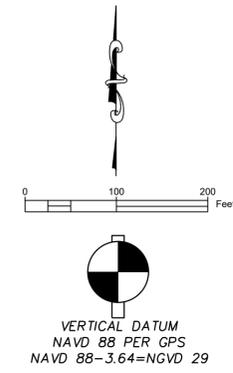
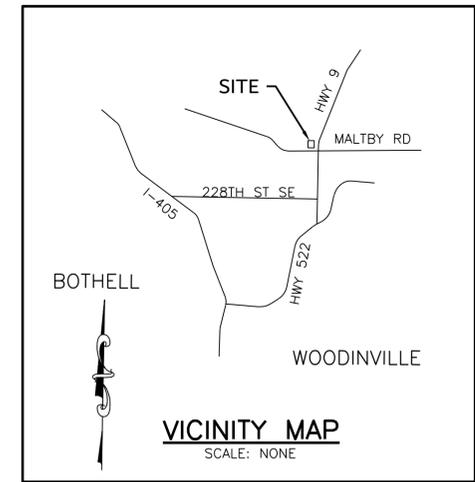


GOLD CREEK COMMUNITY CHURCH MALTBY SITE



BENCHMARK:
TOP OF MONUMENT AT SE COR
OF SEC
EL=259.28

BASIS OF BEARINGS:
N01°39'50"E ALONG THE E LINE
OF THE SE QTR OF SEC.
22-27-5

HORIZONTAL DATUM:
WA STATE COORD. SYSTEM,
NORTH ZONE, NAD 1983 (1991
ADJ.)

EFFECTIVE IMPERVIOUS

TOTAL AREA WITHIN 300' (OF STREAM)
365,016 SF

10% ALLOWED IMPERVIOUS WITHIN 300'
36,502 SF

EXISTING IMPERVIOUS WITHIN 300'
589 SF

PROPOSED IMPERVIOUS WITHIN 300';
33,827 SF

TOTAL IMPERVIOUS WITHIN 300';
34,416 SF

PERCENTAGE IMPERVIOUS WITHIN 300'
9.4%

LAND DISTURBING AREA

TOTAL SITE AREA 13.6 AC

IMPERVIOUS AREA
EXISTING: 22,000 SF
NEW: 95,000 SF
REPLACED: 2,700 SF
NEW PLUS REPLACED: 97,700 SF

LAND DISTURBING ACTIVITY
AREA OF DISTURBANCE 164,500 SF (3.8 AC)

SITE GRADING
CUT 10,000 CY
FILL 5,000 CY

SITE INFORMATION

SITE ADDRESS: 6421 MALTBY RD
WOODINVILLE, WA 98072

TAX ACCOUNT NO: 270522-004-022-00
270522-004-017-00

ZONING: RB - RURAL BUSINESS

WATER SERVICE: CROSS VALLEY WATER
DISTRICT:

SEWER SERVICE: CROSS VALLEY SEWER

SHORELINE DESIGNATION: N/A

BUILDING SETBACKS: 50' FROM NORTH & WEST
PROPERTY LINES

SHEET INDEX

- C1.0 COVER SHEET
- C2.0 SWPPP PLAN
- C2.1 SWPPP NOTES
- C2.2 SWPPP DETAILS
- C3.0 FULL DRAINAGE PLAN
- C3.1 DETENTION POND DETAILS
- C3.2 DRAINAGE NOTES & DETAILS
- C3.3 SNOHOMISH COUNTY DETAILS
- C3.4 WSDOT DETAILS
- C4.0 GRADING PLAN
- C4.1 PARKING LOT PLAN
- C4.2 PAVING DETAILS

LEGAL DESCRIPTION

EXISTING LEGAL DESCRIPTION
FOR APN/PARCEL ID(S): 270522-004-022-00, 270522-004-022-01 (PARCEL NOS. 270522-004-023-00 AND 270522-004-031-00 ARE TAX PURPOSES ONLY AND ARE NOT LEGAL LOTS)
PARCEL A: APN/PARCEL ID: 270522-004-022-00
THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN; EXCEPT THE NORTH 150 FEET THEREOF; AND EXCEPT THE WEST 50 FEET OF THE EAST 350 FEET OF THE SOUTH 150 FEET THEREOF; AND EXCEPT PORTIONS THEREOF CONVEYED TO SNOHOMISH COUNTY, WASHINGTON, AND THE STATE OF WASHINGTON FOR PUBLIC ROADS BY DEEDS RECORDED UNDER AUDITOR'S FILE NO. 273709, 373486, 427267 AND 634295; AND EXCEPT THAT PORTION CONDEMNED BY THE STATE OF WASHINGTON BY DECREE OF APPROPRIATION IN SNOHOMISH COUNTY SUPERIOR COURT CAUSE NO. 06-2-12528-1.
PARCEL B: APN/PARCEL ID: 27052200402201
THE WEST 50 FEET OF THE EAST 350 FEET OF THE SOUTH 150 FEET OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST OF THE WILLAMETTE MERIDIAN; EXCEPT THAT PORTION CONVEYED TO SNOHOMISH COUNTY FOR PUBLIC ROAD BY DEED RECORDED UNDER AUDITOR'S FILE NO. 373486, RECORDS OF SNOHOMISH COUNTY, WASHINGTON; AND EXCEPT THAT PORTION CONDEMNED BY THE STATE OF WASHINGTON BY DECREE OF APPROPRIATION IN SNOHOMISH COUNTY SUPERIOR COURT CAUSE NO. 06-2-12528-1.

PARCEL C: APN/PARCEL ID: 270522-004-017-00
THE EAST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.; EXCEPT FOR THE SOUTH 30 FEET THEREOF CONVEYED TO SNOHOMISH COUNTY FOR ROAD BY DEED RECORDED UNDER AUDITOR'S FILE NO. 373486.
ALL SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

OWNER / APPLICANT

GOLD CREEK COMMUNITY CHURCH
DAN KELLOGG
4326 148TH ST SE
MILL CREEK, WA 98012
PH: 425-316-3333
EMAIL: dan@goldcreek.org

CONTACT PERSON / ARCHITECT

RYAN ELLINGHAUS
2812 ARCHITECTURE
2815 COLBY AVENUE
EVERETT, WA 98201
PH: 425-252-2153
EMAIL: ryan@2812architecture.com

CIVIL ENGINEER

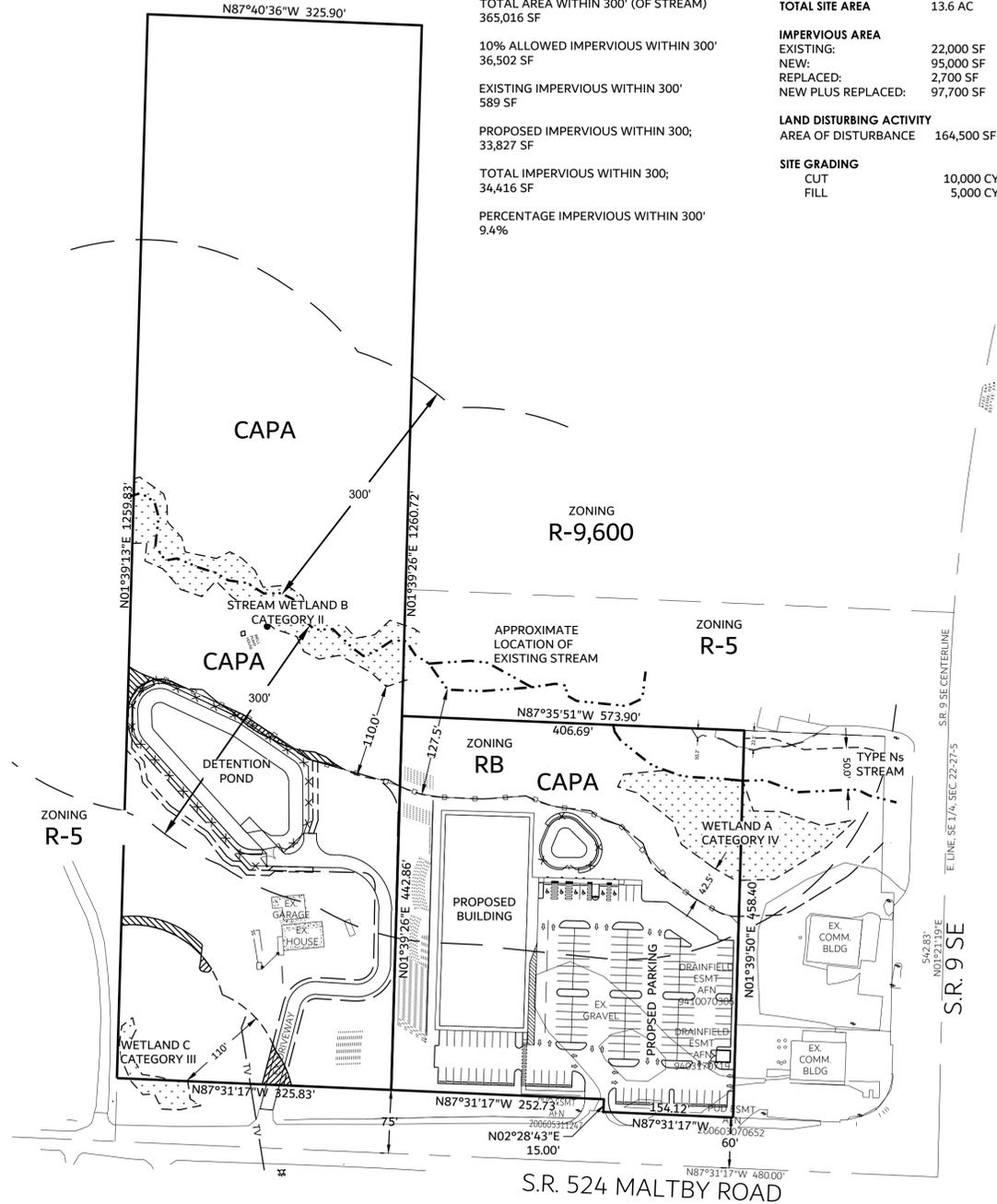
DAVID HARMSEN, PE
HARMSEN & ASSOCIATES INC
125 E MAIN STREET, STE 104
MONROE, WA 98272
PH: 360-794-7811
FAX: 360-805-9732
EMAIL: davidh@harmseininc.com

CESCL

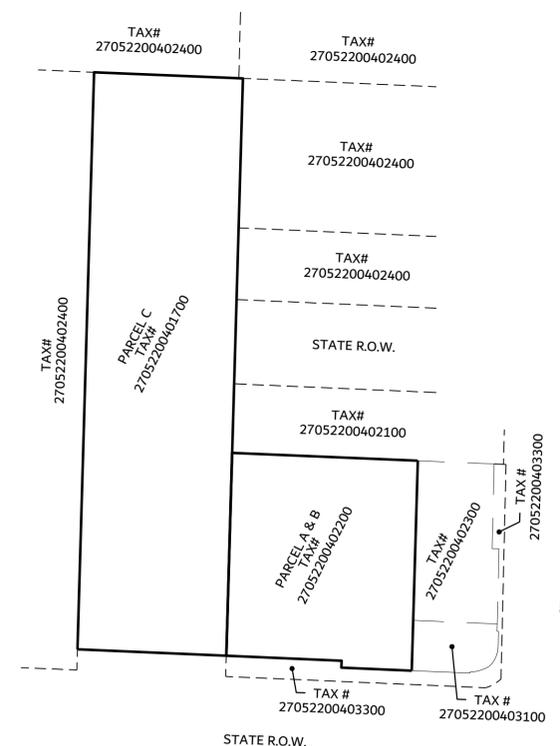
PERSON COMPANY T.B.D.
STREET ADDRESS
CITY, STATE, ZIP
PH:
FAX:
EMAIL:

LEGEND

- | | | | |
|---|--------------------------|---------|------------------------------|
| X | MAGNETIC NAIL | ⊠ | WATER METER |
| ▲ | CONTROL POINT | ⊠ | WATER VAULT |
| ○ | BASKETBALL HOOP | ⊠ | YARD DRAIN |
| □ | GATE POST | —TV— | CABLE TV LINE |
| ⊠ | CATCH BASIN | —X—X—X— | FENCE LINE |
| ⊠ | WATER VALVE | —G— | GAS LINE |
| ⊠ | FINISHED FLOOR ELEVATION | —G— | GUARD RAIL |
| ⊠ | GAS METER | —P— | POWER LINE |
| ⊠ | IRRIGATION CONTROL VALVE | —UP— | POWER LINE (UNDERGROUND) |
| ○ | LUMINAIRE | —SS— | SEWER LINE |
| ○ | CULVERT END | —SD— | STORM DRAIN LINE |
| ○ | ROOF DRAIN | —T— | TELEPHONE LINE |
| ○ | STORM DRAIN MANHOLE | —UT— | TELEPHONE LINE (UNDERGROUND) |
| ○ | SIGN POST | —FO— | FIBER OPTIC LINE |
| ○ | FIRE HYDRANT | —W— | WATER LINE |
| • | BOLLARD | ⊠ | POWER VAULT |



1 SITE PLAN
SCALE: 1" = 100'



ADJOINERS TAX #S
PFN: 17-103680 CUP

SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY _____ DATE: _____

R/W PERMIT NO. _____

REVISIONS

ENGINEERS
SURVEYORS
(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

HARMSEN & ASSOCIATES INC
125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
COVER SHEET

DATE: 6/6/19
JOB #: 17-319

811
Know what's below.
Call before you dig.
C1.0

SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

STABILIZATION NOTES

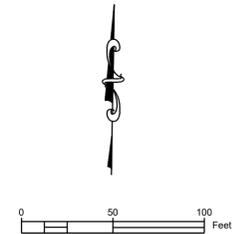
- ① **TEMPORARY**
STABILIZE PAVED AREAS WITH CRUSHED ROCK PER PAVING SECTION
- PERMANENT**
STABILIZE PAVED AREAS WITH ASPHALT PAVING PER PAVING SECTION
- ② **TEMPORARY**
STABILIZE ALL FUTURE LANDSCAPE AREAS WITH SEEDING & 4" STRAW MULCH
- PERMANENT**
STABILIZE PERVIOUS AREAS WITH LANDSCAPING AND/OR HYDROSEED

LEGEND

○ FOUND MONUMENT IN CASE	△ TRANSFORMER PAD	× GROUND SHOT	— CLEARING LIMITS (BMP C103)
● FOUND IRON PIPE AS NOTED	□ MAILBOX	--- FENCE LINE	--- SILT FENCE (BMP C233)
○ FOUND REBAR AS NOTED	⊕ SIGN POST	— GAS LINE	--- CONVEYANCE SWALE
⊕ FOUND PLAT MONUMENT	○ _S SEWER MANHOLE	— POWER LINE	⊗ TREE TO BE REMOVED
⊕ BENCH MARK	□ TELEPHONE PEDESTAL	— ^{UP} POWER LINE (UNDERGROUND)	
⊕ CONTROL POINT	⊕ JUNCTION BOX	— ^{SS} SEWER LINE	
⊕ CATCH BASIN	⊕ POWER POLE W/ U.G. FEED	— ^{SD} STORM DRAIN LINE	
⊕ WATER VALVE	⊕ POWER POLE	— TELEPHONE LINE	
⊕ GAS VALVE	⊕ FIRE HYDRANT	— ^{UT} TELEPHONE LINE (UNDERGROUND)	
⊕ LUMINAIRE	⊕ WATER METER	— ^W WATER LINE	

CONSTRUCTION SEQUENCING

1. ATTEND PRECONSTRUCTION MEETING WITH SNOHOMISH COUNTY.
2. CALL 811 FOR UNDERGROUND LOCATES.
3. INSTALL TEMPORARY EROSION CONTROL MEASURES.
4. STRIP, CLEAR AND DEMOLISH FOR SITE WORK, AND EXCAVATE FOR DETENTION PONDS.
5. CONSTRUCT BUILDING AND INSTALL UTILITIES AND STORMWATER SYSTEMS.
6. PAVE PARKING AND WALKWAYS.
7. CONDITION SITE SOILS AND SEED OR LANDSCAPE.
8. REMOVE TESC MEASURES ONCE PROJECT WORK IS COMPLETE.



VERTICAL DATUM
NAVD 88 PER GPS
NAVD 88-3.64=NGVD 29

BENCHMARK:
TOP OF MONUMENT AT SE COR
OF SEC
EL = 259.28

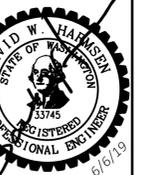
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22-27-5

HORIZONTAL DATUM:
WA STATE COORD. SYSTEM,
NORTH ZONE, NAD 1983 (1991
ADJ.)

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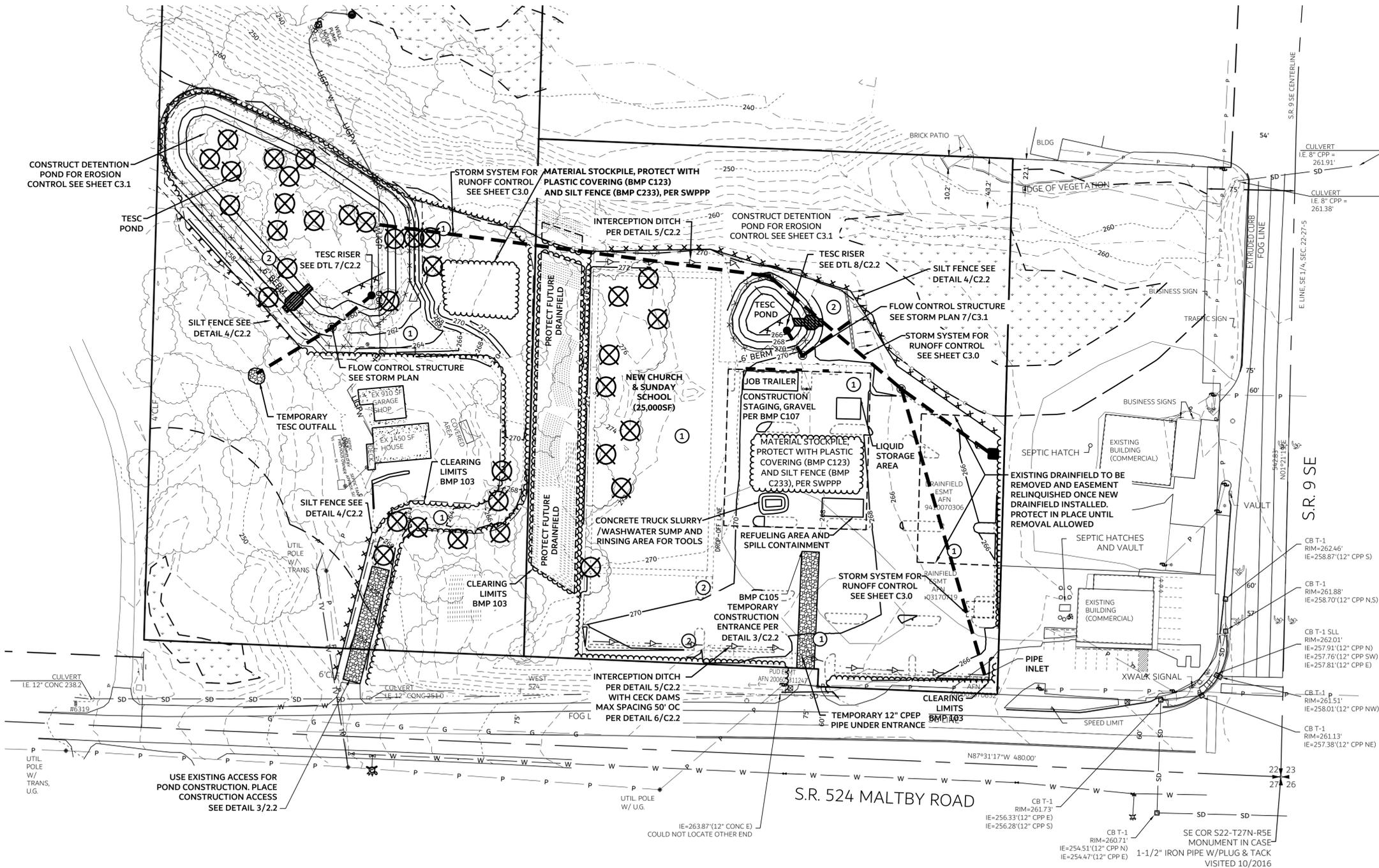
**CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY
CHURCH
SNOHOMISH COUNTY, WA
SWPP PLAN**

DATE: 6/6/19

JOB #: 17-319



C2.0



NOTICE!!
KEEP STREETS CLEAN
AS THE PRINCIPAL CONTRACTOR FOR THIS PROJECT, YOU ARE RESPONSIBLE FOR KEEPING THE RIGHT-OF-WAY IN A CLEAN AND HAZARD FREE CONDITION. NO DIRT, MUD, ROCKS, VEGETATION, GREASE, OIL OR OTHER FOREIGN MATERIAL OR SUBSTANCE SHALL BE DEPOSITED, STORED, ABANDONED, DISCHARGED OR SPREAD ON ANY PUBLIC STREET, ALLEY, SIDEWALK OR OTHER PUBLIC RIGHT-OF-WAY. ANY MATERIAL EITHER INTENTIONALLY OR UNINTENTIONALLY PLACED WITHIN THE RIGHT OF WAY SHALL BE REMOVED AND THE STREET CLEANED WITHIN 24 HRS.

PFN: 17-103680 CUP
SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION
BY _____ DATE: _____
R/W PERMIT NO. _____

1 SWPP PLAN
SCALE: 1" = 50'

EROSION CONTROL BMPS

AN EROSION CONTROL PLAN HAS BEEN PREPARED FOR THIS PROJECT AS PART OF THE CONSTRUCTION DRAWINGS. THE PLAN WILL INCLUDE SEVERAL OF THE FOLLOWING EROSION CONTROL BEST MANAGEMENT PRACTICES:

BMP C103, HIGH VISIBILITY FENCING:
CLEARING LIMITS WILL BE MARKED WITH HIGH VISIBILITY CONSTRUCTION FENCING.

BMP C105, STABILIZED CONSTRUCTION ENTRANCE:
A ROCK LINED CONSTRUCTION ENTRANCE WILL BE INSTALLED AT THE FUTURE ENTRANCE TO THE SITE FROM SR 524. A SECOND ENTRANCE WILL BE PLACED AT THE EXISTING DRIVEWAY FOR THE CONSTRUCTION OF THE DETENTION POND

BMP C107, CONSTRUCTION ROAD/PARKING AREA STABILIZATION:
ONCE PARKING AREAS ARE BROUGHT TO SUBGRADE, STABILIZE WITH THE BASE COURSE OF GRAVEL. THIS WILL ALSO BE USED TO STABILIZE THE BUILDING PAD AND WALKS AS WELL.

BMP C120, TEMPORARY AND PERMANENT SEEDING:
TEMPORARY SEEDING WILL BE USED TO STABILIZE EXPOSED SURFACES NOT COULD BE BY BMP C107. SEE SITE GRADING NOTE 6-11

BMP C121, MULCHING:
DURING CONSTRUCTION, MULCH CAN BE PLACED TO PREVENT RAINDROPS FROM IMPACTING EXPOSED SOILS CAUSING EROSION. STRAW IS THE MOST COMMON METHOD OF MULCHING. CURRENT STANDARD IS THAT MULCH IS TO BE PLACED SO THAT THERE IS NO VISIBLE SOIL.

BMP C123, CLEAR PLASTIC COVERING:
STOCKPILES WILL BE COVERED WITH PLASTIC TO PREVENT EROSION. THE PLASTIC SHALL BE HELD IN PLACE WITH ROPED TOGETHER SAND BAGS.

BMP C125, TOPSOILING:
TOPSOIL WILL BE IMPORTED FOR LANDSCAPE USAGE TO PROMOTE THE HEALTH OF NEW VEGETATION. SEE BMP 5.13 POST CONSTRUCTION SOIL QUALITY FOR ADDITIONAL INFORMATION.

BMP C140, DUST CONTROL:
USE A WATER TRUCK DURING THE DRY SEASON TO WET THE SURFACE LAYER OF SOILS AND PREVENT WIND EROSION. IN AREAS RECEIVING COMPACTION, DO NOT MOISTEN PAST THE OPTIMAL MOISTURE PER THE COMPACTION TESTING AGENCY.

BMP C209, OUTLET PROTECTION
ROCK PADS WILL BE PLACED AT ALL PIPE OUTLETS AS INDICATED AND PER PLAN DETAIL.

BMP C220, STORM DRAIN INLET PROTECTION:
NEW STORM INLETS WILL BE PROTECTED WITH INSERTS PER DETAIL 1/C2.2 UNTIL PERMANENT STABILIZATION IS OBTAINED.

BMP C233, SILT FENCE:
SILT FENCING WILL BE USED DOWNHILL OF GRADING ACTIVITIES WHERE INSUFFICIENT EXISTING VEGETATION EXISTS TO FILTER THE RUNOFF.

BMP C241, SEDIMENT POND
THE PROPOSED POND WILL BE USED AS A SEDIMENTATION POND DURING CONSTRUCTION. THE REQUIRED FACILITY SIZE IS BASED ON THE RUNOFF FROM THE 10 YEAR STORM EVENT. THE UNDETAINED 10 YEAR RUNOFF RATES ARE .88 AND .40 CFS. THE MINIMUM POND SURFACE AREA HAS BEEN CALCULATED FOR MEDIUM SILT AS FOLLOWS:

SA = 1831 SQ FT
SA = 832 SQ FT

THE DETENTION PONDS SHOWN ON THE CONSTRUCTION DRAWINGS PROVIDE 20,585 AND 2,405 SQUARE FEET OF SURFACE AREA AT THE 100 YEAR STORAGE LEVEL. THE OUTLET FROM THE POND WILL BE PROTECTED WITH A TEMPORARY EROSION CONTROL RISER AS DETAILED ON THE PLANS.

CONTROL OF OTHER POLLUTANTS

ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. GOOD HOUSEKEEPING AND PREVENTATIVE MEASURES WILL BE TAKEN TO ENSURE THAT THE SITE WILL BE KEPT CLEAN, WELL ORGANIZED, AND FREE OF DEBRIS. IF REQUIRED, BMPS TO BE IMPLEMENTED TO CONTROL SPECIFIC SOURCES OF POLLUTANTS ARE DISCUSSED BELOW.

VEHICLES, CONSTRUCTION EQUIPMENT, AND/OR PETROLEUM PRODUCT STORAGE/DISPENSING:

- ALL VEHICLES, EQUIPMENT, AND PETROLEUM PRODUCT STORAGE/DISPENSING AREAS WILL BE INSPECTED REGULARLY TO DETECT ANY LEAKS OR SPILLS, AND TO IDENTIFY MAINTENANCE NEEDS TO PREVENT LEAKS OR SPILLS.
- ON-SITE FUELING TANKS AND PETROLEUM PRODUCT STORAGE CONTAINERS SHALL INCLUDE SECONDARY CONTAINMENT.
- SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, WILL BE USED WHEN CONDUCTING MAINTENANCE AND REPAIR OF VEHICLES OR EQUIPMENT.
- IN ORDER TO PERFORM EMERGENCY REPAIRS ON SITE, TEMPORARY PLASTIC WILL BE PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT.

CHEMICAL STORAGE:

- ANY CHEMICALS STORED IN THE CONSTRUCTION AREAS WILL CONFORM TO THE APPROPRIATE SOURCE CONTROL BMPS LISTED IN VOLUME IV OF THE ECOLOGY STORMWATER MANUAL (SWMWW). IN WESTERN WA, ALL CHEMICALS SHALL HAVE COVER, CONTAINMENT, AND PROTECTION PROVIDED ON SITE, PER BMP C153 FOR MATERIAL DELIVERY, STORAGE AND CONTAINMENT IN SWMWW 2005
- APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION PROCEDURES AND RATES SHALL BE FOLLOWED.

DEMOLITION:

- DUST RELEASED FROM DEMOLISHED SIDEWALKS SHALL BE CONTROLLED USING DUST CONTROL MEASURES (BMP C140).
- STORM DRAIN INLETS VULNERABLE TO STORMWATER DISCHARGE CARRYING DUST, SOIL, OR DEBRIS WILL BE PROTECTED USING STORM DRAIN INLET PROTECTION (BMP C220 AS INDICATED ON THE PLAN).
- PROCESS WATER AND SLURRY RESULTING FROM SAWCUTTING AND SURFACING OPERATIONS WILL BE PREVENTED FROM ENTERING THE WATERS OF THE STATE BY IMPLEMENTING SAWCUTTING AND SURFACING POLLUTION PREVENTION MEASURES (BMP C152).
 - SLURRY AND CUTTINGS SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS.
 - SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE.
 - COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.

CONCRETE AND GROUT:

- PROCESS WATER AND SLURRY RESULTING FROM CONCRETE WORK WILL BE PREVENTED FROM ENTERING THE WATERS OF THE STATE BY IMPLEMENTING CONCRETE HANDLING MEASURES (BMP C151).
 - CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.
 - UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.
 - HAND TOOLS INCLUDING, BUT NOT LIMITED TO, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT
- WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.

SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

SANITARY WASTEWATER:

- PORTABLE SANITATION FACILITIES WILL BE FIRMLY SECURED, REGULARLY MAINTAINED, AND EMPTIED WHEN NECESSARY.
- WHEEL WASH OR TIRE BATH WASTEWATER SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM AS PART OF WHEEL WASH IMPLEMENTATION (BMP C106).

SOLID WASTE:

- SOLID WASTE WILL BE STORED IN SECURE, CLEARLY MARKED CONTAINERS.
- OTHER:
 - OTHER BMPS WILL BE ADMINISTERED AS NECESSARY TO ADDRESS ANY ADDITIONAL POLLUTANT SOURCES ON SITE.

MAINTENANCE OF TESC FACILITIES

EROSION CONTROL MEASURES SHALL BE REVIEWED AT A MINIMUM MONTHLY DURING THE DRY SEASON, WEEKLY DURING THE WET SEASON, DAILY DURING PROLONGED RAIN EVENTS AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAIN EVENT.

BMP C103: HIGH VISIBILITY FENCING
INSPECT FENCED AREAS REGULARLY TO MAKE SURE FENCED HAS NOT BEEN REMOVED OR DAMAGED.

BMP C105: STABILIZED CONSTRUCTION ENTRANCE.
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION:
ADD ROCK AS NECESSARY TO PROTECT SUBGRADE.

BMP C120: TEMPORARY & PERMANENT SEEDING
SEEDING SHOULD BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PREVENT RUNOFF.
RE-SEEDING - AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT EROSION SHALL BE RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.

BMP C121: MULCHING
MULCHED AREAS SHOULD BE CHECKED PERIODICALLY, ESPECIALLY FOLLOWING SEVERE STORMS, WHEN DAMAGED AREAS OF MULCH OR TIE-DOWN MATERIAL SHOULD BE REPLACED.

BMP C123: CLEAR PLASTIC COVERING
CHECK REGULARLY FOR RIPS AND PLACES WHERE THE PLASTIC MAY BE DISLODGED. CONTACT BETWEEN THE PLASTIC AND THE GROUND SHOULD ALWAYS BE MAINTAINED. ANY AIR BUBBLES FOUND SHOULD BE REMOVED IMMEDIATELY OR THE PLASTIC MAY RIP DURING THE NEXT WINDY PERIOD. RE-ANCHOR OR REPLACE THE PLASTIC AS NECESSARY.

BMP C125: TOPSOILING:
THE NATIVE TOPSOIL REMOVED FROM THE SITE IS STOCKPILED FOR USE IN LANDSCAPING AREAS. INSPECT AREAS OF PLACED TOPSOIL FOR EROSION. RE-ESTABLISH GRADE OF ERODED AREAS AND ADD BMP'S TO PREVENT FUTURE EROSION.

BMP C140: DUST CONTROL
RESPRAY AREA AS NECESSARY TO KEEP DUST TO A MINIMUM.

BMP C209: OUTLET PROTECTION:

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIRS SHALL BE CONDUCTED IN ACCORDANCE WITH AN APPROVED MANUAL. ROCK MAY NEED TO BE ADDED IF SEDIMENT BUILDS UP IN THE PORE SPACES OF THE OUTLET PAD.

BMP C220: STORM DRAIN INLET PROTECTION
FOR SYSTEMS USING FILTER FABRIC. INSPECTIONS SHOULD BE MADE ON A REGULAR BASIS, ESPECIALLY AFTER LARGE STORM EVENTS. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. IF A FABRIC BAG INSERT IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY ONE HALF OF THE STORAGE DEPTH. FOR SYSTEMS USING STONE FILTERS, IF THE STONE BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED. SINCE CLEANING OF GRAVEL AT A CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE TO USE THE CLOGGED STONE AS FILL AND PUT FRESH STONE AROUND THE INLET.

BMP C233: SILT FENCE
INSPECT IMMEDIATELY AFTER RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL REPAIR AS NECESSARY. SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

BMP C241: SEDIMENT POND
REGULARLY INSPECT AND REMOVE ACCUMULATED SEDIMENT. INSPECT RISER AND OUTFLOW AND PROVIDE REPAIRS AS NEEDED TO CONTINUE OPERATIONS.

SITE GRADING AND T.E.S.C.P. NOTES

1. ALL GRADING SHALL COMPLY TO CHAPTER 30.63A AND CHAPTER 30.63B OF THE SNOHOMISH COUNTY UNIFIED DEVELOPMENT CODE AND CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE.

2. FLAG CONSTRUCTION LIMITS.

3. PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS.

4. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

5. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND/OR CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.

6. CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND SNOHOMISH COUNTY UNIFIED CODE (CHAPTER 30.63b)

7. ALL AREAS TO BE SEEDED SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE. IF NECESSARY, SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKE/SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO SEEDING.

8. PERMANENT SEEDING FOR GROUND COVER SHOULD INCLUDE IMPORTED TOPSOIL, ON-SITE, SUITABLE STOCKPILED TOPSOIL, OR ELSE IMPORTED SOD SHOULD BE PROPOSED.

9. ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.

10. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYDROSEED REQUIRED.

11. FERTILIZER SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT. DEVELOPMENTS ADJACENT TO WATER BODIES SHALL USE NON-PHOSPHORUS FERTILIZER.

12. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED TO PREVENT EROSION. HYDROSEEDING IS PREFERRED.

13. GENERAL: FILL PLACED BENEATH FOUNDATION FOOTINGS, SLABS, PAVEMENT, OR OTHER SETTLEMENT-SENSITIVE STRUCTURES SHOULD BE PLACED AS STRUCTURAL FILL. STRUCTURAL FILL, BY DEFINITION, IS PLACED IN ACCORDANCE WITH PRESCRIBED METHODS AND STANDARDS, AND IS MONITORED BY AN EXPERIENCED GEOTECHNICAL PROFESSIONAL OR SOILS TECHNICIAN. FIELD MONITORING PROCEDURES WOULD INCLUDE THE PERFORMANCE OF A REPRESENTATIVE NUMBER OF IN-PLACE DENSITY TESTS TO DOCUMENT THE ATTAINMENT OF THE DESIRED DEGREE OF RELATIVE COMPACTION. THE AREA TO RECEIVE THE FILL SHOULD BE STRIPPED OF TOPSOIL AND ORGANICS AND BE THOROUGHLY COMPACTED TO A NON-YIELDING CONDITION.

14. MATERIALS: STRUCTURAL FILL SHOULD CONSIST OF A GOOD QUALITY, GRANULAR SOIL, FREE OF ORGANICS AND OTHER DELETERIOUS MATERIAL AND BE WELL-GRADED. THE USE OF ON-SITE SOILS SHALL BE EVALUATED PER THE GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION.

15. FILL PLACEMENT: PLACEMENT OF STRUCTURAL FILL AND COMPACTION SHALL BE AS REQUIRED BY THE GEOTECHNICAL FIRM AND REPORT RECOMMENDATIONS. AT A MINIMUM, ALL EMBANKMENTS SHALL BE BUILT AND COMPACTED ACCORDING TO WSDOT STD. SPEC. 2.03.3(14)C METHOD B. THE ROADWAY SUBGRADE SHALL BE PREPARED PER WSDOT SPEC. 2-06.3. THE COUNTY INSPECTOR SHALL BE PROVIDED WITH CERTIFICATION FROM THE TESTING LAB OF THE COMPACTION OF THE ROADWAY BED PRIOR TO PAVING. AREAS TO RECEIVE FILL SHALL BE PROOF ROLLED. ALL LOOSE AND SOFT AREAS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. COPIES OF ALL COMPACTION TESTING AND INSPECTION REPORTS SHALL BE PROVIDED TO THE COUNTY WITH THE CONSTRUCTION AS-BUILT SUBMITTALS.

16. TEMPORARY COVER BMP'S ARE REQUIRED TO STABILIZE EXPOSED SOILS. NOTES SHOULD CONTAIN BMP'S TIMING IN ACCORDANCE WITH THE FOLLOWING; [30.63A.220(1)]
A. IF PROJECT GRADING IS PROPOSED BETWEEN OCTOBER 1 AND APRIL 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 2 DAYS.
B. IF PROJECT GRADING IS PROPOSED BETWEEN MAY 1 AND SEPTEMBER 30, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 7 DAYS.
C. DENUDED AREAS SHALL BE COVERED BY MULCH, SOD, PLASTIC, OR OTHER COVER BMP'S.
D. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT RETENTION BMP'S WITHIN 24 HOURS OF FORMATION.
E. GRADING AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE.

17. SITE WORK SHALL COMPLY WITH SCC 7.53 FOR CONSTRUCTION WATER QUALITY.

18. A CERTIFIED EROSION CONTROL SPECIALIST SHALL BE ASSIGNED TO THE PROJECT AND BE RESPONSIBLE FOR MONITORING THE SITE'S TESC FACILITIES AND RUNOFF (IF ANY) AND BE AVAILABLE 24 HOURS A DAY DURING CONSTRUCTION. SEE SHEET C1.0 FOR CONTACT INFORMATION.

19. STOCKPILE ADDITIONAL TESC MEASURES FOR EMERGENCY APPLICATIONS. STOCKPILE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE AND STRAW BALES.

20. AT A MINIMUM, INSPECT THE EROSION CONTROL FACILITIES WEEKLY AND AFTER ANY RUNOFF PRODUCING STORM EVENT.

21. ANY NECESSARY REPAIRS TO THE TESC FACILITIES SHALL BE PERFORMED BEFORE OTHER SITEWORK COMMENCES.

22. CONTRACTOR SHALL APPLY FOR AND OBTAIN A HAUL ROUTE AGREEMENT WITH SNOHOMISH COUNTY.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS (EDDS), SNOHOMISH COUNTY CODE, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/AMERICAN PUBLIC WORKS ASSOCIATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND THE SNOHOMISH COUNTY DRAINAGE MANUAL.

2. THE PROJECT IS VESTED TO THE 2017 EDITION OF THE SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS. THE CONTRACTOR SHALL KEEP A SET OF THE EDDS ON SITE AT ALL TIMES.

3. ALL WORK PERTAINING TO THIS PROJECT SHALL BE SUBJECT TO INSPECTION BY THE COUNTY INSPECTOR OR HIS DESIGNATED REPRESENTATIVE. PRIOR TO BEGINNING ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE COUNTY INSPECTOR AT (425) 388-3338 AND SCHEDULE A PRE-CONSTRUCTION CONFERENCE.

4. IF THE PROJECT SITE AS DEFINED IN SCC 30.63A.91S.351 IS MORE THAN ONE ACRE, THE CESCL IDENTIFIED IN THE SWPPP NARRATIVE SHALL BE ON SITE OR ON CALL AT ALL TIMES (SCC30.63A.510).

5. THE CESCL SHALL NOTIFY THE COUNTY INSPECTOR IN WRITING ANY TIME A BMP PROVES TO BE INADEQUATE RESULTING IN AN ACTUAL DISCHARGE OF OR POSES A POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT PURSUANT TO SCC 7.53 TO WATERS OF THE STATE OR THE COUNTY'S MS-4 DRAINAGE SYSTEM (SCC30.63A.510). SAID NOTIFICATION SHALL BE MADE WITHIN 24 HOURS OF THE DISCHARGE EVENT OR PROBLEM IDENTIFICATION.

6. IF INDIVIDUALS REVIEWING OR INSPECTING WORK ARE REPLACED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE CIVIL ENGINEER, SOILS ENGINEER, CESCL OR THE ENGINEERING GEOLOGIST, WORK REQUIRING THEIR REVIEW SHALL BE STOPPED UNTIL ANOTHER QUALIFIED PERSON AGREES TO ACCEPT RESPONSIBILITY AND NOTIFIES PLANNING & DEVELOPMENT SERVICES IN WRITING (SCC 30.63A.855 AND SCC 30.63B.340(4)).

7. A ROW USE PERMIT IS REQUIRED FROM THE DPW FOR ANY LANE/ROAD CLOSURES WITHIN THE SNOHOMISH COUNTY ROW. CONTACT DPW AT LEAST 15 DAYS PRIOR TO CONSTRUCTION ACTIVITY WITHIN THE PUBLIC ROW. SNOHOMISH COUNTY DOES NOT HAVE JURISDICTION ON STATE ROUTES OR ROADWAYS WITHIN INCORPORATED CITIES, PRIVATE ROADS OR PRIVATE PROPERTY. FOR ANY ACTIVITY ENCRANCHING ON SUCH PROPERTY THE APPLICANT SHALL OBTAIN PERMISSION FROM THE APPROPRIATE AUTHORITY.

8. FIELD CHANGES REQUIRING REDESIGN SHALL BE SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION.

9. ENGINEERED RECORD DRAWINGS SHALL BE REQUIRED PRIOR TO SITE APPROVAL (EDDS SECTION 10-05).

10. SURVEY MONUMENTS SHALL BE FOUND AND SET IN ACCORDANCE WITH SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS (EDDS), CHAPTER 4-03, DETAIL 4-130. MONUMENTS AND PROPERTY CORNERS SHALL BE PROTECTED FROM DISTURBANCE DURING CONSTRUCTION. A LICENSED SURVEYOR SHALL OBTAIN A PERMIT FOR REMOVAL OR REPLACEMENT OF ANY ROW MONUMENTS, SURVEY MONUMENTS, OR PROPERTY CORNERS IN ACCORDANCE WITH STATE LAW AND WAC 332-120 PRIOR TO ANY DISTURBANCE TO THE CORNER. THE POINTS TO BE PROTECTED OR REPLACED SHALL BE RELOCATED BY A PROFESSIONAL LAND SURVEYOR AND SHOWN ON THE CONSTRUCTION PLANS.

11. REMOVE ABANDONED PIPES WITHIN THE RIGHT-OF-WAY.

12. ALL PIPES SHALL HAVE A MINIMUM OF 12" COVER AT THE TOP OF THE BELL, OR SHALL HAVE MINIMUM COVER PER THE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER. [EDDS 5-05.1.9]

13. PRIOR TO PLACING ANY SURFACE MATERIALS ON THE ROADWAY, IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR UTILITY TO PROVIDE DENSITY TEST REPORTS (AS SPECIFIED IN EDDS) CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF WASHINGTON. [EDDS 8-05.]

14. APPROVED PERMANENT TRAFFIC CONTROL SIGNS AND MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) SHALL BE INSTALLED BY COUNTY FORCES. THE DEVELOPER SHALL PAY FOR INSTALLATION OF ALL DEVICES. THE INSPECTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS (DPW) TRAFFIC OPERATIONS WHEN THE PROJECT IS READY FOR CHANNELIZATION AND SIGNING. IF COUNTY FORCES ARE UNAVAILABLE TO PERFORM THE STRIPING INSTALLATION WITHIN AN APPROPRIATE TIME FRAME, THE PERMIT HOLDER SHALL CONTRACT FOR THE STRIPING INSTALLATION. DPW TRAFFIC OPERATIONS SHALL BE CONTACTED AT LEAST 2 DAYS IN ADVANCE OF INSTALLATION TO VERIFY CHANNELIZATION LAYOUT.

15. DURING PROJECT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY CONSTRUCTION SIGNS, TRAFFIC CONTROL SIGNS, DELINEATORS AND TEMPORARY MARKINGS AS REQUIRED. ALL SIGNS, TRAFFIC CONTROL SIGNS, DELINEATORS AND TEMPORARY MARKINGS SHALL BE ACCORDING TO THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

16. ACCESS BY EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

17. AFTER WORK WITHIN THE TRAVELED ROADWAY IS COMPLETED AT THE END OF EACH DAY, THE ROAD SHALL BE CLEARED OF DEBRIS AND EQUIPMENT, AND COMPLETELY OPEN TO TRAFFIC (UNLESS OTHERWISE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS OF THE COUNTY). LIGHTED BARRICADES OR BARRELS SHALL DELINEATE ALL AREAS WITHIN THE ROADWAY AFFECTED BY CONSTRUCTION (I.E. EDGE OF PAVEMENT, NEW CURB EDGES NOT ILLUMINATED BY STREET LIGHTS).

18. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR INTERIM TRAFFIC CONTROL DURING CONSTRUCTION ON OR ALONG TRAVELED COUNTY ROADWAYS. THE DEVELOPER/CONTRACTOR MUST SUBMIT A TRAFFIC CONTROL PLAN TO PUBLIC WORKS (PERMIT COUNTER) AND RECEIVE APPROVAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

19. THE WORKMANSHIP AND MATERIALS FOR ALL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE COUNTY R/W SHALL BE IN ACCORDANCE WITH EDDS SECTIONS 8-02, 8-04, 8-05, 8-09 AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).

SWPPP BEST MANAGEMENT PRACTICES

FOR BEST MANAGEMENT PRACTICES AND THEIR MAINTENANCE, REFER TO THE PROJECT SURFACE WATER POLLUTION PREVENTION PLAN NARRATIVE.

PFN: 17-103680 CUP

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES APPROVED FOR CONSTRUCTION	
BY _____	DATE: _____
R/W PERMIT NO. _____	

REVISIONS

ENGINEERS
& ASSOCIATES INC.
SURVEYORS

(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

HARMSEN
& ASSOCIATES INC.

125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY
CHURCH
SNOHOMISH COUNTY, WA
SWPPP NOTES

DATE:

6/6/19

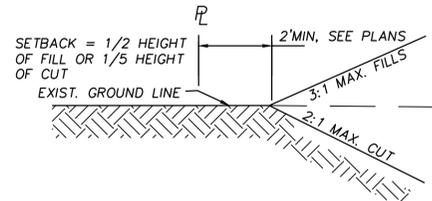
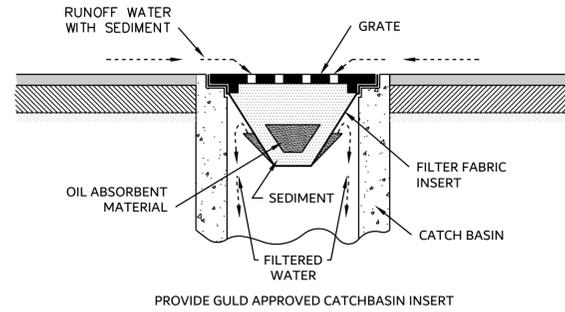
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17-319



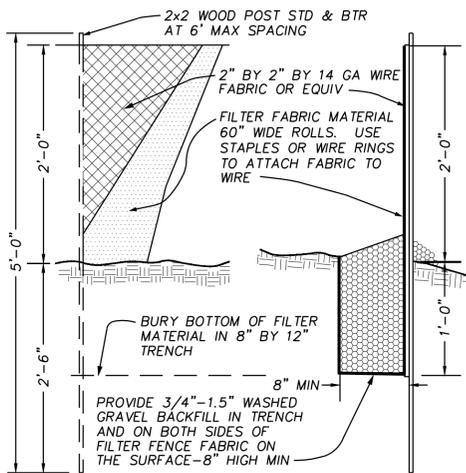
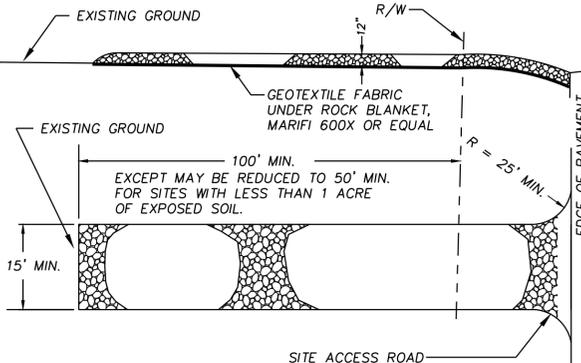
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SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.



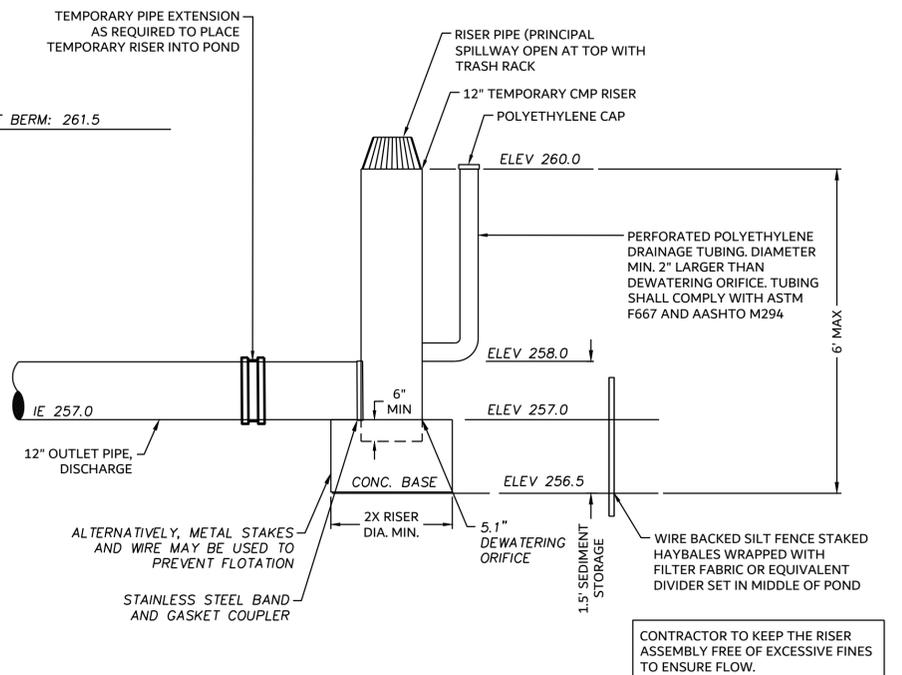
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NOTE:
1. FOR COMBINED FILTER FABRIC AND CLEARING CONTROL FENCE ADD ORANGE NETTING TO THE OUTSIDE OF THE FILTER FABRIC. FOR CLEARING CONTROL FENCE INSTALL ORANGE NETTING ON POSTS AS SHOWN.

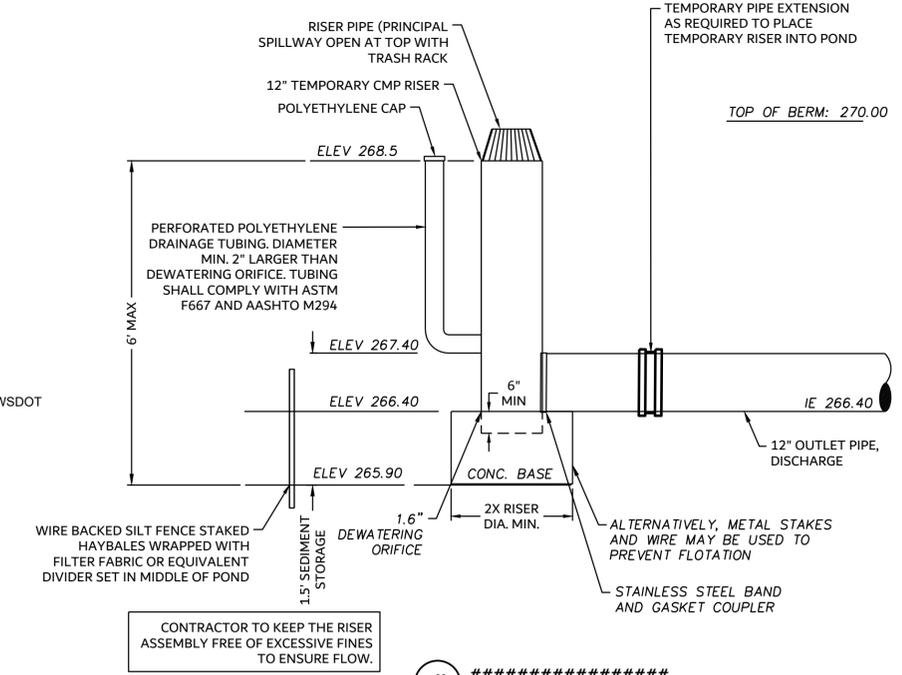
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SCALE: NOT TO SCALE

- USE 4" TO 6" QUARRY SPALLS OR CRUSHED ROCK FOR SURFACING AS SHOWN. MATERIAL WITH "FINES" IS NOT ACCEPTABLE.
- THE 100' MINIMUM LENGTH SHALL BE LENGTHENED AS NECESSARY TO INSURE MATERIAL IS NOT TRACKED INTO THE PUBLIC RIGHT-OF-WAY.
- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.

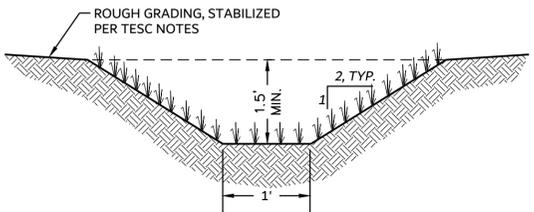
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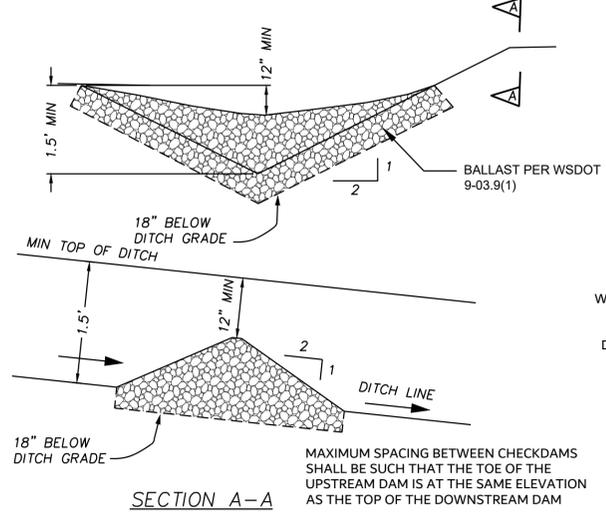
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LINING FOR OPEN DITCHES & CHANNELS

- SLOPES LESS THAN 5%, VEGETATION LINED;
- SLOPE BETWEEN 5% & 9% VEGETATION OR ROCK LINED QUARRY SPALLS AS DEFINED IN SECTION 9-13.6 OF THE WSDOT/AWPA SPECIFICATIONS
- DITCHES WITH SLOPES IN EXCESS OF 9% SHALL BE PLACED IN CLOSED CONVEYANCE SYSTEM UNLESS ALTERNATIVE ENGINEERED DESIGN IS APPROVED



SCALE: NOT TO SCALE



SECTION A-A

SCALE: NOT TO SCALE

Figure II-4.2.18 Sediment Pond Plan View

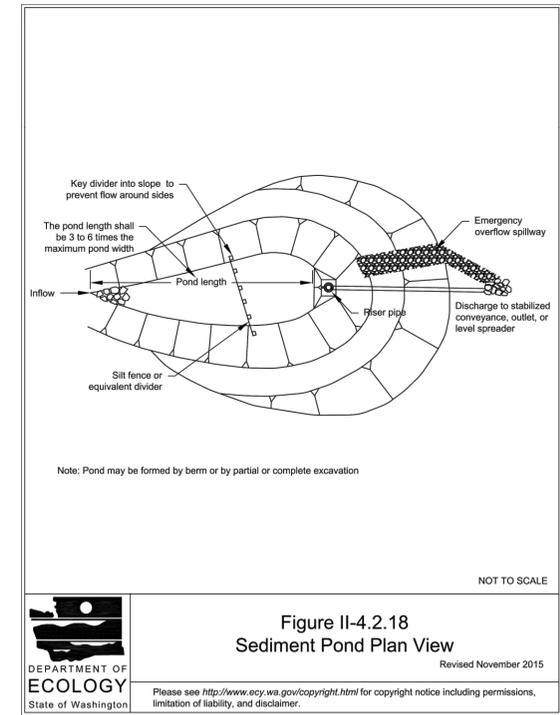


Figure II-4.2.18 Sediment Pond Plan View



Revised November 2015
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2014 Stormwater Management Manual for Western Washington
Volume II - Chapter 4 - Page 391

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SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

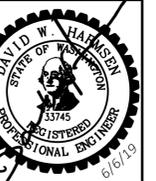
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REVISIONS

ENGINEERS SURVEYORS
(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

HARMSEN & ASSOCIATES INC.
125 EAST MAIN STREET, SUITE 104
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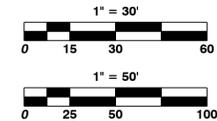
CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
SWPPP DETAILS

DATE: 6/6/19
JOB #: 17-319

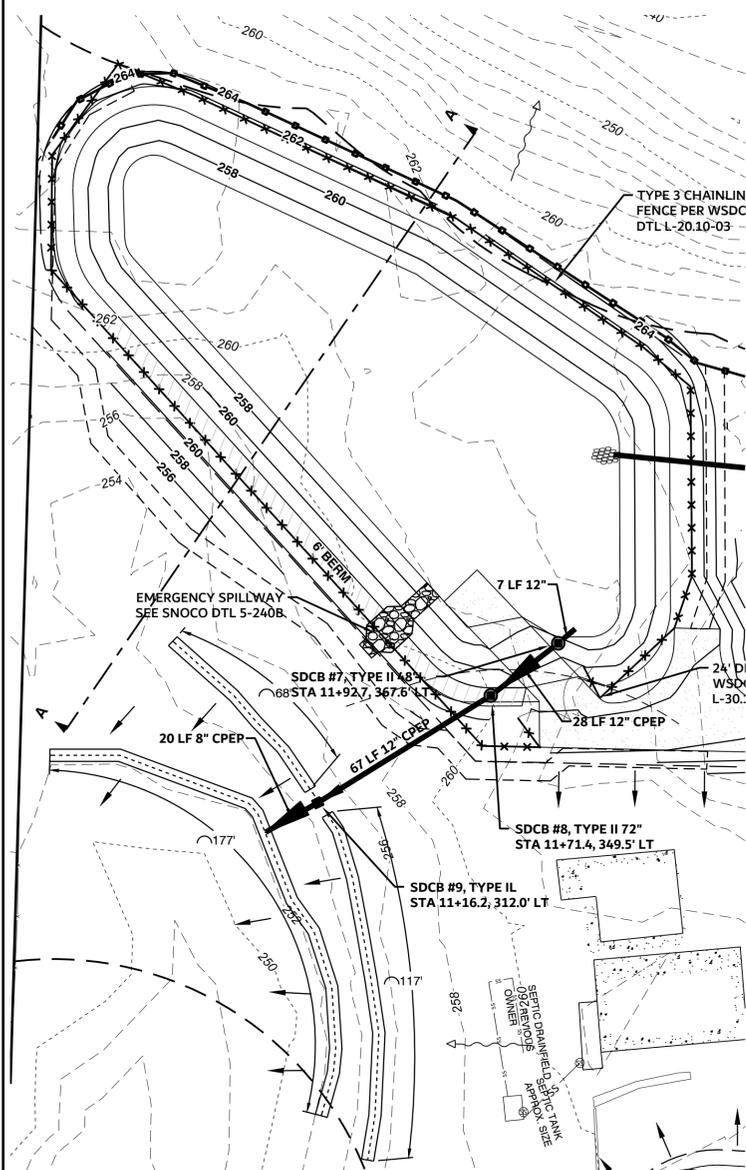


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SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

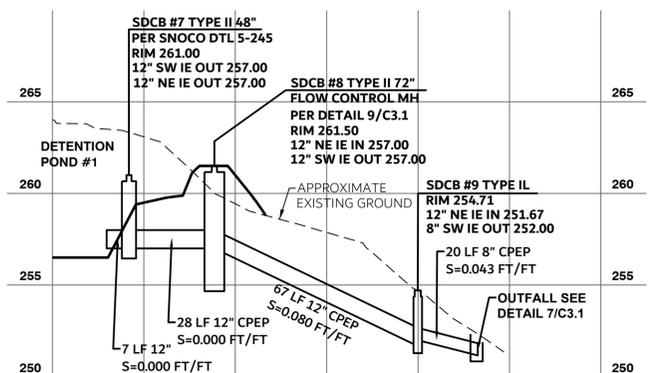


VERTICAL DATUM
 NAVD 88 PER GPS
 NAVD 88-3.64=NGVD 29
 BENCHMARK:
 TOP OF MONUMENT AT SE
 COR OF SEC EL.=259.28

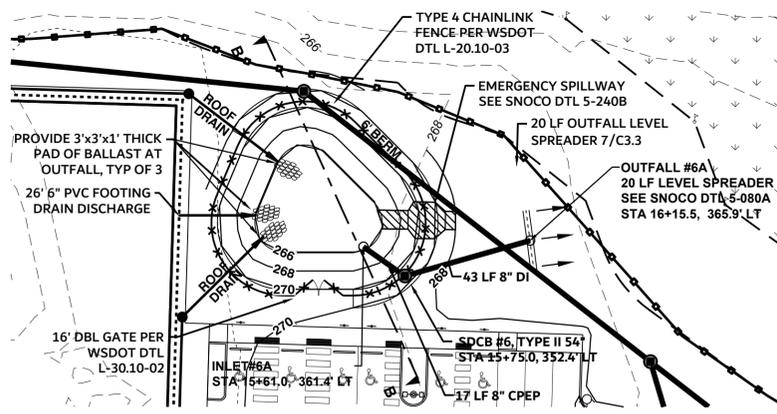


1 DETENTION POND #1
 SCALE: 1"=30'

STORM	DETENTION PERFORMANCE CHART				MAXIMUM RELEASE RATES	
	DEAD	LIVE	DESIGNED	ASBUILT	RATE	ASBUILT
2 YR	6,050	26,995	26,995	0.017	0.017	
50 YR	6,050	42,590	42,590	0.912	0.912	

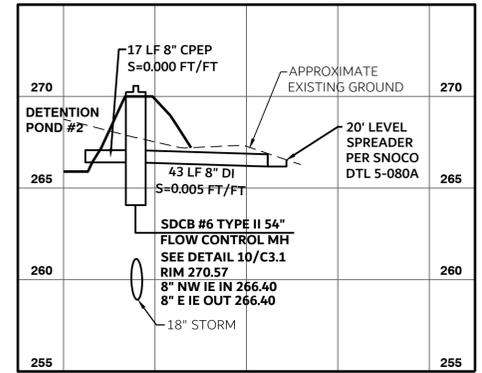


3 POND #1 OUTFALL PROFILE
 SCALE: H: 1"=30' V: 1"=5'

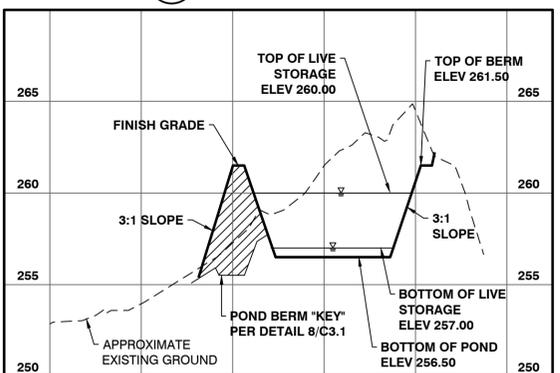


2 DETENTION POND #2
 SCALE: 1"=30'

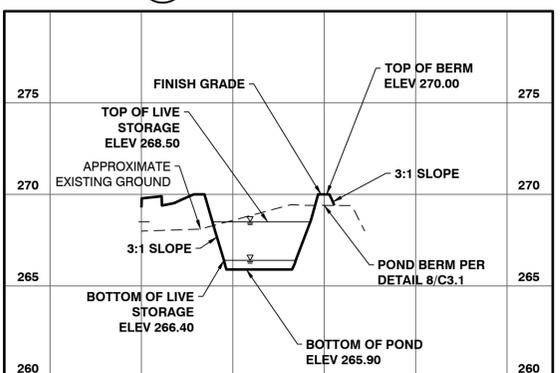
STORM	DETENTION PERFORMANCE CHART				MAXIMUM RELEASE RATES	
	DEAD	LIVE	DESIGNED	ASBUILT	RATE	ASBUILT
2 YR	575	2,735	2,735	0.005	0.005	
50 YR	575	3,560	3,560	0.027	0.027	



4 POND #2 OUTFALL PROFILE
 SCALE: H: 1"=30' V: 1"=5'

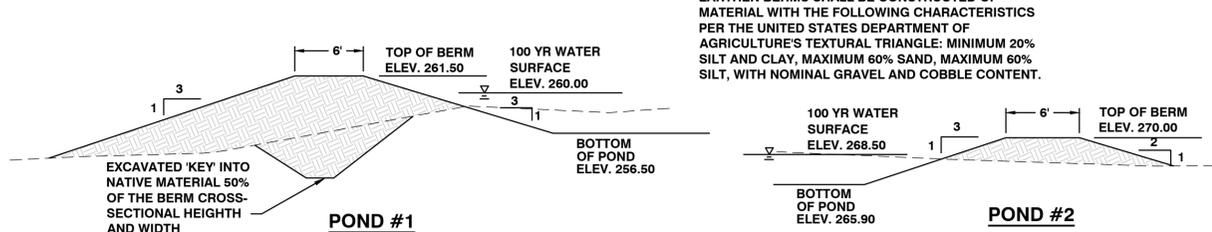


5 POND #1 SECTION A-A
 SCALE: V: 1"=30' H: 1"=5'



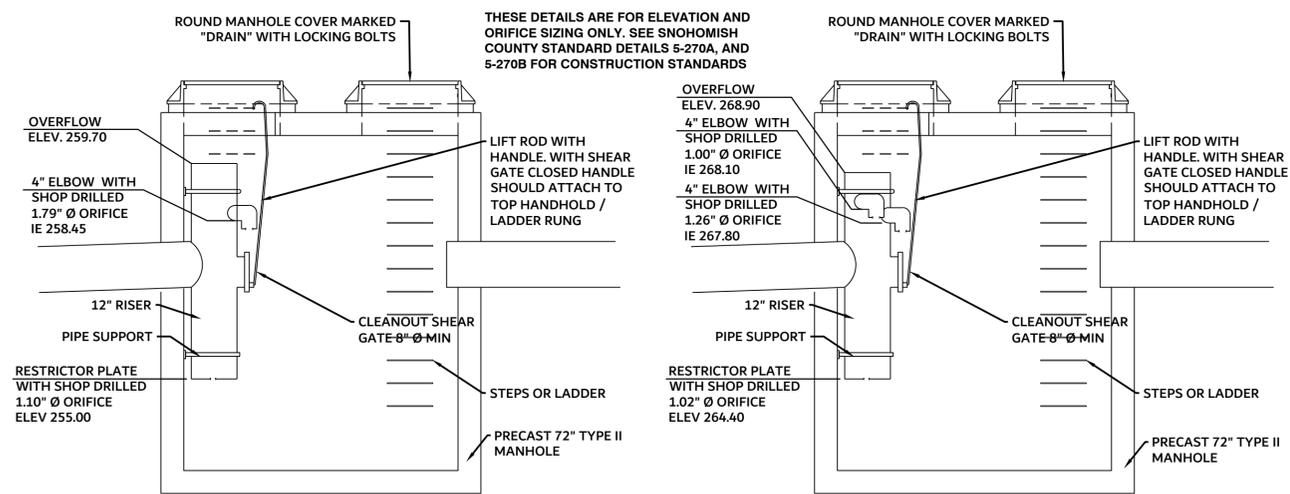
6 POND #2 SECTION B-B
 SCALE: V: 1"=30' H: 1"=5'

7 DISPERSION TRENCH DETAIL
 SCALE: NONE



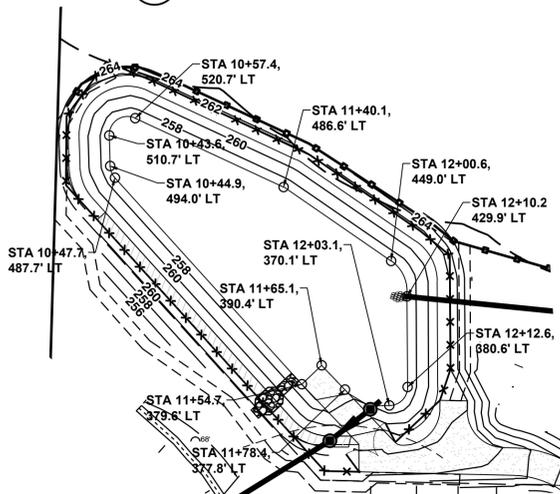
EARTHEN BERMS SHALL BE CONSTRUCTED OF MATERIAL WITH THE FOLLOWING CHARACTERISTICS PER THE UNITED STATES DEPARTMENT OF AGRICULTURE'S TEXTURAL TRIANGLE: MINIMUM 20% SILT AND CLAY, MAXIMUM 60% SAND, MAXIMUM 60% SILT, WITH NOMINAL GRAVEL AND COBBLE CONTENT.

8 POND BERM DETAIL
 SCALE: NONE

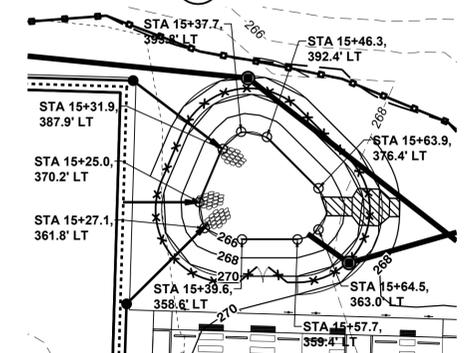


9 SDCB #8 FLOW CONTROL (POND 1)
 SCALE: NOT TO SCALE

10 SDCB #6 FLOW CONTROL (POND 2)
 SCALE: NOT TO SCALE



11 DETENTION POND #1 LAYOUT
 SCALE: 1"=50'



12 DETENTION POND LOCATION
 SCALE: 1"=30'

PNF: 17-103680 CUP
 SNOHOMISH COUNTY
 PLANNING AND DEVELOPMENT SERVICES
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 BY _____ DATE: _____
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CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
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C3.1

SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

BMP T5.13: POST-CONSTRUCTION SOIL QUALITY

THIS BMP SHALL BE USED IN THE LANDSCAPED AREAS ON THE SITE AND ANY OTHER DISTURBED AREAS.

PURPOSE AND DEFINITION:

NATURALLY OCCURRING (UNDISTURBED) SOIL AND VEGETATION PROVIDE IMPORTANT STORMWATER FUNCTIONS INCLUDING: WATER INFILTRATION; NUTRIENT, SEDIMENT, AND POLLUTANT ADSORPTION; SEDIMENT AND POLLUTANT BIOFILTRATION; WATER INTERFLOW STORAGE AND TRANSMISSION; AND POLLUTANT DECOMPOSITION. THESE FUNCTIONS ARE LARGELY LOST WHEN DEVELOPMENT STRIPS AWAY NATIVE SOIL AND VEGETATION AND REPLACES IT WITH MINIMAL TOPSOIL AND SOD. NOT ONLY ARE THESE IMPORTANT STORMWATER FUNCTIONS LOST, BUT SUCH LANDSCAPES THEMSELVES BECOME POLLUTION-GENERATING PERVIOUS SURFACES DUE TO INCREASED USE OF PESTICIDES, FERTILIZERS AND OTHER LANDSCAPING AND HOUSEHOLD/INDUSTRIAL CHEMICALS, THE CONCENTRATION OF PET WASTES, AND POLLUTANTS THAT ACCOMPANY ROADSIDE LITTER.

ESTABLISHING SOIL QUALITY AND DEPTH REGAINS GREATER STORMWATER FUNCTIONS IN THE POST DEVELOPMENT LANDSCAPE, PROVIDES INCREASED TREATMENT OF POLLUTANTS AND SEDIMENTS THAT RESULT FROM DEVELOPMENT AND HABITATION, AND MINIMIZES THE NEED FOR SOME LANDSCAPING CHEMICALS, THUS REDUCING POLLUTION THROUGH PREVENTION.

APPLICATIONS AND LIMITATIONS:

ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH IS NOT THE SAME AS PRESERVATION OF NATURALLY OCCURRING SOIL AND VEGETATION. HOWEVER, ESTABLISHING A MINIMUM SOIL QUALITY AND DEPTH WILL PROVIDE IMPROVED ON-SITE MANAGEMENT OF STORMWATER FLOW AND WATER QUALITY.

SOIL ORGANIC MATTER CAN BE ATTAINED THROUGH NUMEROUS MATERIALS SUCH AS COMPOST, COMPOSTED WOODY MATERIAL, BIOSOLIDS, AND FOREST PRODUCT RESIDUALS. IT IS IMPORTANT THAT THE MATERIALS USED TO MEET THE SOIL QUALITY AND DEPTH BMP BE APPROPRIATE AND BENEFICIAL TO THE PLANT COVER TO BE ESTABLISHED. LIKEWISE, IT IS IMPORTANT THAT IMPORTED TOPSOILS IMPROVE SOIL CONDITIONS AND DO NOT HAVE AN EXCESSIVE PERCENT OF CLAY FINES.

DESIGN GUIDELINES:

SOIL RETENTION:

THE DUFF LAYER AND NATIVE TOPSOIL SHOULD BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY:

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF TEN PERCENT DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT (BASED ON A LOSS-ON-IGNITION TEST) IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE ORIGINAL UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.

2. PLANTING BEDS MUST BE MULCHED WITH 2 INCHES OF ORGANIC MATERIAL

3. QUALITY OF COMPOST AND OTHER MATERIALS USED TO MEET THE ORGANIC CONTENT REQUIREMENTS:
 - A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST THAT MEETS THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220. THIS CODE IS AVAILABLE ONLINE AT: [HTTP://WWW.ECY.WA.GOV/PROGRAMS/SWFA/FACILITIES/350.HTML](http://www.ecy.wa.gov/programs/swfa/facilities/350.html).

COMPOST USED IN BIORETENTION AREAS SHOULD BE STABLE, MATURE AND DERIVED FROM YARD DEBRIS, WOOD WASTE, OR OTHER ORGANIC MATERIALS THAT MEET THE INTENT OF THE ORGANIC SOIL AMENDMENT SPECIFICATION. BIOSOLIDS AND MANURE COMPOSTS CAN BE HIGHER IN BIO-AVAILABLE PHOSPHORUS THAN COMPOST DERIVED FROM YARD OR PLANT WASTE AND THEREFORE ARE NOT ALLOWED IN BIORETENTION AREAS DUE TO THE POSSIBILITY OF EXPORTING BIO-AVAILABLE PHOSPHORUS IN EFFLUENT.

THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 35% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1.

THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.

- B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIALS AS DEFINED ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND MEETING THE CONTAMINANT STANDARDS OF GRADE A COMPOST.

THE RESULTING SOIL SHOULD BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW.

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.

2. AMEND DISTURBED SOIL ACCORDING TO THE FOLLOWING PROCEDURES:

- A. SCARIFY SUBSOIL TO A DEPTH OF ONE FOOT
- B. IN PLANTING BEDS, PLACE THREE INCHES OF COMPOST AND TILL IN TO AN EIGHT-INCH DEPTH.
- C. IN TURF AREAS, PLACE TWO INCHES OF COMPOST AND TILL IN TO AN EIGHT-INCH DEPTH.
- D. APPLY TWO TO FOUR INCHES OF ARBORIST WOOD CHIP, COARSE BARK MULCH, OR COMPOST MULCH TO PLANTING BEDS AFTER FINAL PLANTING.

ALTERNATIVELY, DISTURBED SOIL CAN BE AMENDED ON A SITE-CUSTOMIZED MALULER SO THAT IT MEETS THE SOIL QUALITY CRITERIA SET FORTH ABOVE, AS DETERMINED BY A LICENSED ENGINEER, GEOLOGIST, LANDSCAPE ARCHITECT, OR OTHER PERSON AS APPROVED BY SNOHOMISH COUNTY.

3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER AND DEPTH REQUIREMENTS BY FOLLOWING THE PROCEDURES IN METHOD (2) ABOVE.

4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE ORGANIC MATTER AND DEPTH REQUIREMENTS.

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

MAINTENANCE:

1. SOIL QUALITY AND DEPTH SHOULD BE ESTABLISHED TOWARD THE END OF CONSTRUCTION AND ONCE ESTABLISHED, SHOULD BE PROTECTED FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION.

2. SOIL SHOULD BE PLANTED AND MULCHED AFTER INSTALLATION.

3. PLANT DEBRIS OR ITS EQUIVALENT SHOULD BE LEFT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER.

STORM DRAINAGE NOTES

1. ALL STORM DRAIN PIPE MUST BE CONSTRUCTED OF ONE OF THE FOLLOWING MATERIALS UNLESS OTHERWISE SPECIFIED IN THE PLANS. ALL PIPE JOINTS MUST BE GASKETED AND MUST BE OF THE SAME MATERIAL AS THE PIPE. THE PIPE SHALL HAVE MINIMUM COVER AS SHOWN BELOW.

*COVERAGE REQUIREMENTS FOR 18" OR SMALLER:

- < 1.0' REQUIRES RCP (REINFORCED CONCRETE PIPE WITH GASKETED JOINTS, ASTM C-76 CLASS II) MINIMUM OR DUCTILE IRON PIPE.
- 1.0' - 1.5' REQUIRES CP (CONCRETE PIPE WITH RUBBER GASKETED JOINTS, ASTM C-14) MINIMUM OR DUCTILE IRON PIPE.
- > 1.5' REQUIRES 16 GAUGE CMP (CORRUGATED METAL PIPE AASHTO M236 TYPE I & II) OR CPEP PIPE WITH DOUBLE GASKETED SLEEVED JOINTS. IN HIGH WATER TABLE AREAS PVC (PVC ASTM D 3034, SDR 35 WITH GASKETED JOINTS SHALL BE REQUIRED.

2. ALL PLASTIC PIPE SHALL BE MADE LOCATABLE BY LAYING VINYL COATED 10 GA. WIRE 1" ABOVE PIPE.

3. ALL STORM DRAIN WORK MUST BE STAKED BY SURVEY FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

4. THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6 INCHES, MAXIMUM DEPTH 8 INCHES, THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. TO DETERMINE MATERIAL REQUIREMENTS FOR BACKFILL REFER TO WSDOT STANDARD SPEC. 7.08.3(3) AND STANDARD SPEC. 2.03.3(14)C, METHOD B & C.

5. ALL CATCH BASINS WITH A DEPTH OVER 5 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (48" DIAMETER OR LARGER).

6. STORM WATER RETENTION/DETENTION FACILITIES, STORM PIPE, AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO CITY ACCEPTANCE. CONTAMINATED WATER SHALL NOT BE PUMPED INTO AN EXISTING CITY STORM SYSTEM.

7. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7.08.3(1). IF, IN THE OPINION OF THE INSPECTOR THE EXISTING FOUNDATION IS UN-SATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS (WSDOT 7.08.3(3)). PIPE SHALL NOT BE INSTALLED ON SOD, FROZEN EARTH, OR LARGE BOULDERS OR ROCK.

8. ALL GRATES (INLETS AND CATCH BASINS) SHALL BE DEPRESSED 0.1 FEET BELOW PAVEMENT LEVEL.

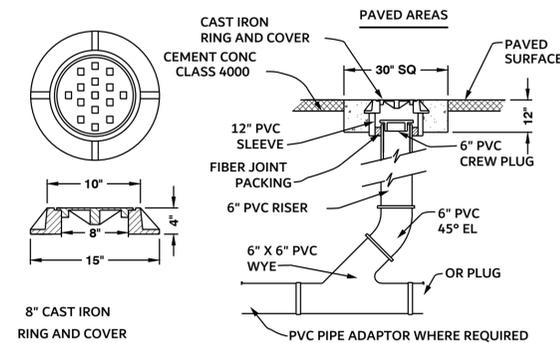
9. ALL CATCH BASINS AND CURB INLETS SHALL HAVE LOCKING LIDS.

10. STORM STUB OUTS SHALL BE MARKED WITH A 2" X 4" BOARD AND LABELED "STORM" AND EXTENDED 5 FEET ONTO PROPERTY. LOCATOR WIRE TO EXTEND TO TOP OF MARKER BOARD.

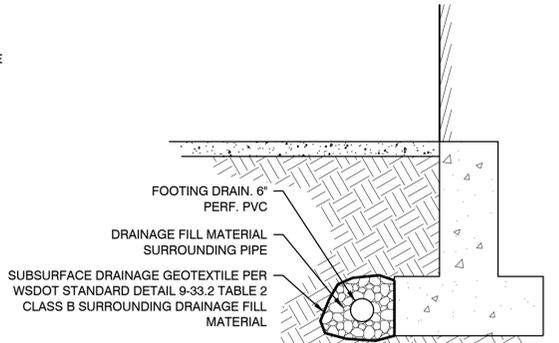
11. TESTING AND TV INSPECTION OF STORM DRAIN LINES ARE AT THE CITY OF MONROE OPTION. TRASH RACKS SHALL BE INSTALLED ON THE UPSTREAM AND DOWNSTREAM END OF PIPES, CULVERTS, AND BIOSWALES.

12. HANDHOLDS IN RISER OR ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" CLEARANCE.

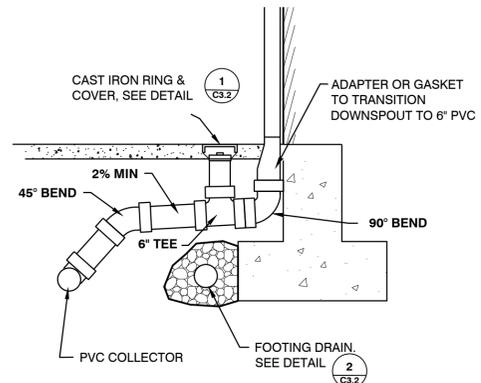
13. FOR CATCH BASINS AND CURB INLETS SHALL BE PER CITY OF MONROE STANDARD PLANS.



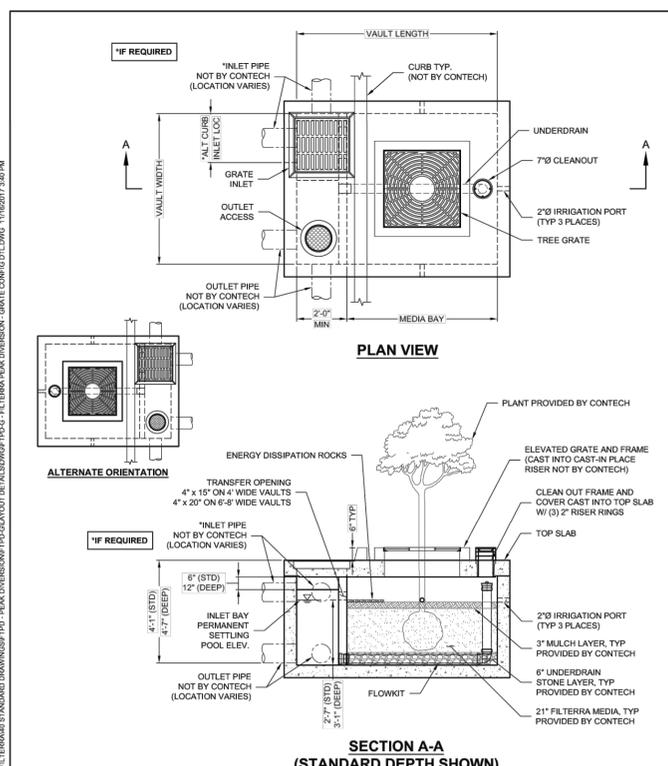
1 6 CLEAN OUT DETAIL
SCALE: NOT TO SCALE



2 FOOTING DRAIN DETAIL
SCALE: NOT TO SCALE



3 DOWNSPOUT CONNECTION DETAIL
SCALE: NOT TO SCALE



SECTION A-A
(STANDARD DEPTH SHOWN)

FTPD-G STANDARD HEIGHT CONFIGURATION

DESIGNATION (OPTIONS: -P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE	TREE GRATE QTY & SIZE
FTPD0404-G	N/A CA	4 x 4	4 x 6	1'-8"	1.4	12"SQ12"	(1) 2.5' x 2.5'
FTPD0405-G	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	1.4	12"SQ12"	(1) 2.5' x 2.5'
FTPD0406-G	N/A MID-ATL	4 x 6	4 x 8	1'-8"	1.4	12"SQ12"	(1) 3' x 3'
FTPD0405B-G	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	1.4	12"SQ12"	(1) 2.5' x 2.5'
FTPD0505-G	ALL	6 x 6	6 x 8	1'-8"	1.4	24"SQ12"	(1) 3' x 3'
FTPD0506-G	ALL	6 x 8	6 x 10	1'-8"	1.4	24"SQ12"	(1) 4' x 4'
FTPD0610-G	ALL	6 x 10	6 x 12	1'-8"	1.4	24"SQ12"	(1) 4' x 4'
FTPD0710-G	ALL	7 x 10	7 x 13	2'-6"	2.1	24"SQ24"	(1) 4' x 4'
FTPD0810S-G	ALL	8 x 10.5	8 x 14	3'-0"	2.5	24"SQ24"	(1) 4' x 4'
FTPD0812S-G	ALL	8 x 12.5	8 x 16	3'-0"	2.5	24"SQ24"	(2) 4' x 4'

N/A = NOT AVAILABLE

FTPD-GD DEEP OPTION CONFIGURATION

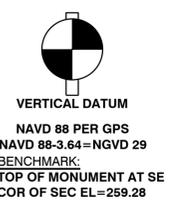
DESIGNATION (OPTIONS: -P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE	TREE GRATE QTY & SIZE
FTPD0404-GD	N/A CA	4 x 4	4 x 6	1'-8"	4.6	12"SQ12"	(1) 2.5' x 2.5'
FTPD0405-GD	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	4.6	12"SQ12"	(1) 2.5' x 2.5'
FTPD0406-GD	N/A MID-ATL	4 x 6	4 x 8	1'-8"	4.6	12"SQ12"	(1) 3' x 3'
FTPD0405B-GD	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	4.6	12"SQ12"	(1) 2.5' x 2.5'
FTPD0504-GD	ALL	5 x 4	5 x 6	1'-8"	4.6	24"SQ12"	(1) 2.5' x 2.5'
FTPD0506-GD	ALL	6 x 6	6 x 8	1'-8"	4.6	24"SQ12"	(1) 3' x 3'
FTPD0508-GD	ALL	6 x 8	6 x 10	1'-8"	4.6	24"SQ12"	(1) 4' x 4'
FTPD0610-GD	ALL	6 x 10	6 x 12	1'-8"	4.6	24"SQ12"	(1) 4' x 4'
FTPD0710-GD	ALL	7 x 10	7 x 13	2'-6"	6.8	24"SQ24"	(1) 4' x 4'
FTPD0810S-GD	ALL	8 x 10.5	8 x 14	3'-0"	8.2	24"SQ24"	(1) 4' x 4'
FTPD0812S-GD	ALL	8 x 12.5	8 x 16	3'-0"	8.2	24"SQ24"	(2) 4' x 4'

N/A = NOT AVAILABLE

*MAX BYPASS FLOW IS INTERNAL WEIR FLOW. SITE SPECIFIC ANALYSIS IS REQUIRED TO DETERMINE GRATE INLET FLOW CAPACITY

CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
8025 Centre Pointe Dr., Suite 400, West Chester, OH 45388
800-338-1122 513-645-7000 513-645-7993 FAX

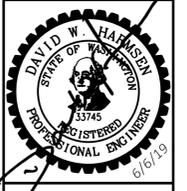
FILTERRA PEAK DIVERSION - GRATE (FTPD-G) CONFIGURATION DETAIL



REVISIONS

ENGINEERS SURVEYORS
(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

HARMSEN & ASSOCIATES INC.
125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
DRAINAGE NOTES & DETAILS

DATE: 6/19
JOB #: 17-319

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

C3.2

PFN: 17-103680 CUP

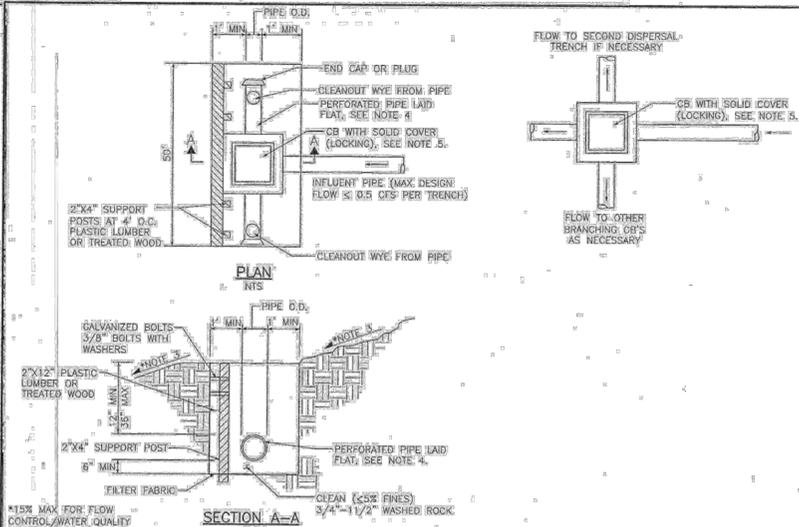
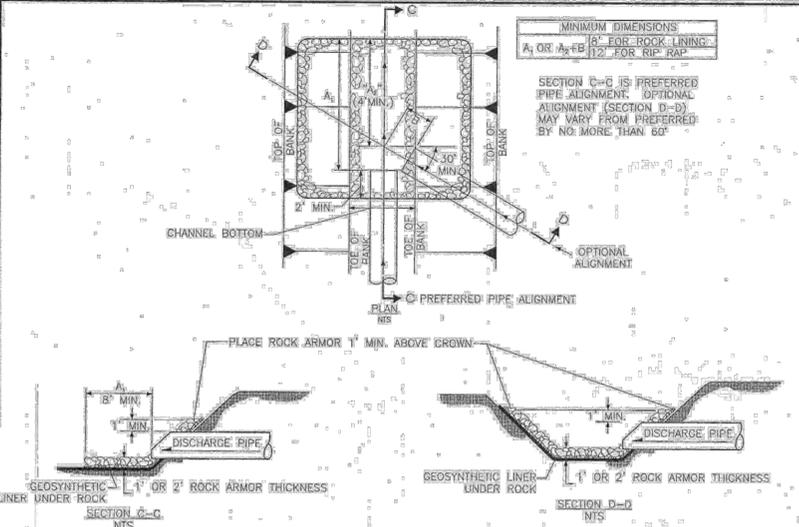
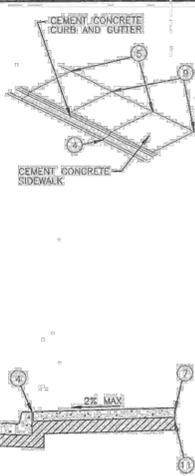
SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY _____ DATE: _____
R/W PERMIT NO. _____

SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

NOTES:

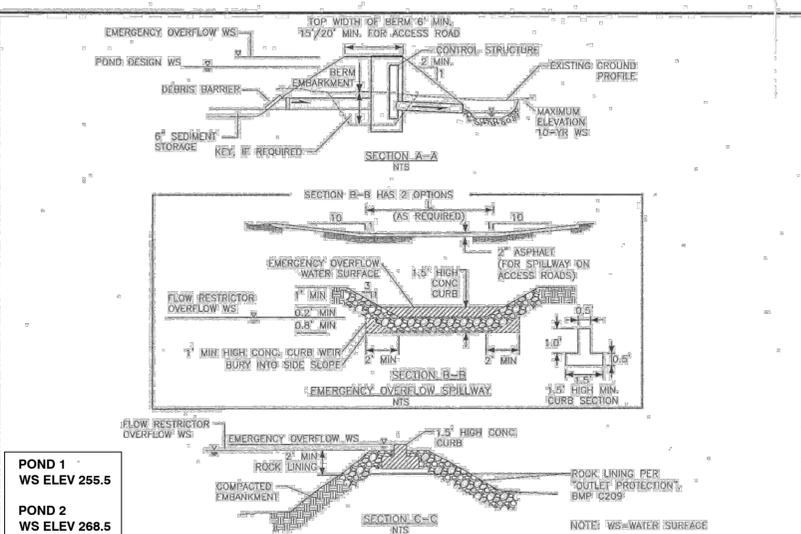
- CONSTRUCTION OF SIDEWALKS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
- ALL CONCRETE SHALL BE COMMERCIAL CLASS CONCRETE PER WSDOT/APWA SPECIFICATIONS.
- FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
- EXPANSION JOINTS CONSISTING OF 3/8" FULL DEPTH PREMOLDED JOINT MATERIAL SHALL BE PLACED AROUND FIRE HYDRANTS, POLES, METER BOXES AND OTHER OBSTRUCTIONS AND ALONG WALLS OR STRUCTURES IN PAVED AREAS. EXPANSION JOINTS SHALL ALSO BE PLACED AT THE BEGINNING AND THE END OF EACH CURVE, ON EACH SIDE OF STRUCTURES, DROP CURB DRIVEWAYS AND CURB RAMPS, BETWEEN SIDEWALK AND BACK OF CURB WHEN PAVED SEPARATELY, AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. FULL EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE PLACED IN ADJACENT CURB WHEN A MAXIMUM SPACING OF 20 FEET.
- CONTRACTION JOINTS (GUMMY JOINTS) CONSISTING OF 3/8" X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10 FEET. WHEN SIDEWALKS ARE PLACED BY SLIP-FORMING, A PREMOLDED STOP OF 3/8" THICK AND 1/2" TO FULL BIRTH MAY BE USED. CONTRACTION JOINTS (GUMMY JOINTS) IN SIDEWALKS SHALL BE LOCATED SO AS TO MATCH THE JOINTS IN THE CURB WHETHER SIDEWALK IS ADJACENT TO CURB OR SEPARATED BY A PLANTING STRIP. JOINT SEALANTS FOR SAWED CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF SECTION 3-04.2 OF THE WSDOT/APWA SPECIFICATIONS.
- ALL JOINTS SHALL BE CLEAN AND EDGED.
- CEMENT CONCRETE SIDEWALK THICKNESS IS SPECIFIED IN TEXT SECTION 4-05C. SEE ALSO STANDARD DRAWINGS 2-020 AND 2-025 FOR DRIVEWAY DETAILS.
- THE WIDTH OF SIDEWALK SHALL BE 5 FEET MIN. FOR SINGLE FAMILY RESIDENTIAL PROPERTY USES AND 7 FEET MIN. FOR COMMERCIAL/INDUSTRIAL AND MULTI-FAMILY RESIDENTIAL PROPERTY USES.
- SCORE MARKS, 1/4" DEEP, ARE TO BE PLACED ON 5 FOOT CENTERS, AND TO CORRESPOND TO THE MARKINGS IN EXISTING SIDEWALKS. WHEN THE SIDEWALK WIDTH EXCEEDS 6 FEET, A LONGITUDINAL SCORE AT THE CENTER OF THE SIDEWALK SHALL BE PROVIDED.
- FINISH SHALL BE A LIGHT BROOM FINISH.
- 6 INCHES OF GRAVEL, BORROW OR EQUIVALENT. SEE STANDARD DRAWINGS 3-020, 3-050 AND SECTION 4-10.
- SUBGRADE COMPACTION FOR SIDEWALKS SHALL MEET A MINIMUM 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH SEC 2-03.5(14) OF THE WSDOT/APWA SPECIFICATIONS.
- PLANTER STRIPS REQUIRED BUT NOT SHOWN. SEE STANDARD DRAWINGS 3-020 AND 3-050 FOR LOCATION OF PLANTERS. SEE TEXT SECTION 4-05.



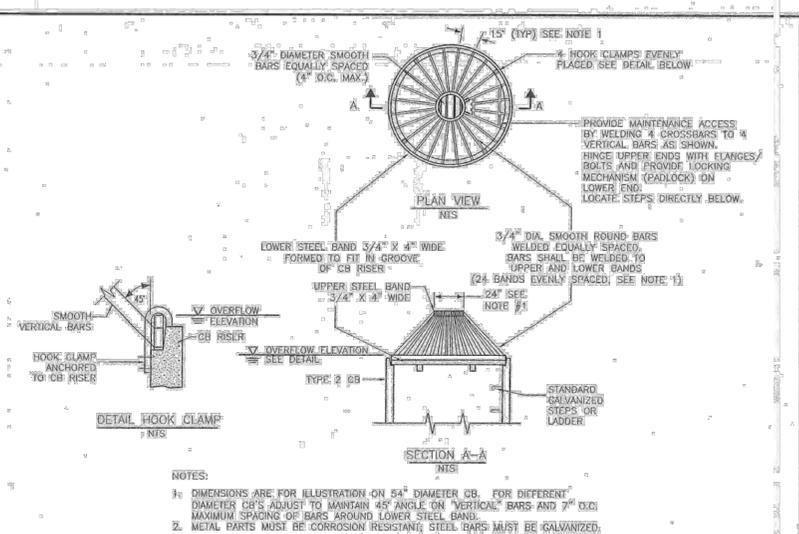
SNOHOMISH COUNTY PUBLIC WORKS
4-150 SIDEWALK DETAILS
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE

SNOHOMISH COUNTY PUBLIC WORKS
5-060 PIPE/CULVERT OUTFALL DISCHARGE PROTECTION PAD
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE

SNOHOMISH COUNTY PUBLIC WORKS
5-080A LEVEL SPREADER TRENCH
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE



SNOHOMISH COUNTY PUBLIC WORKS
5-240B TYPICAL DETENTION POND SECTIONS
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE



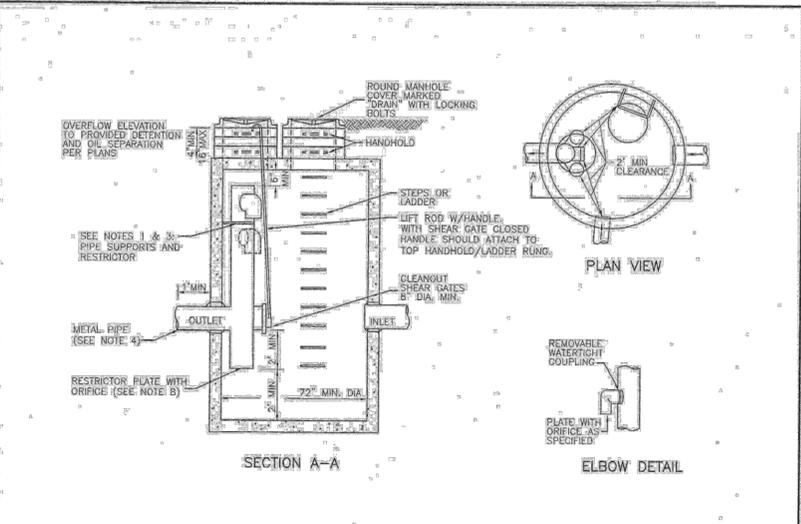
SNOHOMISH COUNTY PUBLIC WORKS
5-245 OVERFLOW STRUCTURE
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE

NOTES:

- THE PIPE SUPPORTS AND THE FLOW RESTRICTOR SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND BE ANCHORED AT A MAXIMUM SPACING OF 36" AT THE PIPE SUPPORTS TO THE MANHOLE WITH 5/8" STAINLESS STEEL EXPANSION BOLTS OR EMBED THE SUPPORTS INTO THE MANHOLE WALL 2". ACCESS PORTS SHALL BE PROVIDED OVER THE LADDER AND OVER THE CONTROL STRUCTURE.
- FOR DETAILS SHOWING GRADE RING, LADDER, STEPS, HANDHOLDS AND TOP SLABS, SEE STD DWG 5-120, CATCHBASIN DETAILS.
- THE FLOW RESTRICTOR SHALL BE FABRICATED FROM ONE OF THE FOLLOWING MATERIALS:
0.060" CORRUGATED ALUMINUM-ALLOY DRAIN PIPE
0.064" CORRUGATED GALVANIZED STEEL DRAIN PIPE WITH TREATMENT 1
0.064" CORRUGATED ALUMINIZED STEEL DRAIN PIPE
0.060" ALUMINUM ALLOY FLAT SHEET, IN ACCORDANCE WITH ASTM B 209, 5052 H32 OR EP5
HIGH DENSITY POLYETHYLENE STORM SEWER PIPE
- OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A STANDARD COUPLING BAND FOR CORRUGATED METAL PIPE OR GROUTED INTO THE BELL OF CONCRETE PIPE.
- THE VERTICAL RISER STEM OF THE RESTRICTOR/SEPARATOR SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE WITH A 6" MINIMUM SIZE.
- FRAME AND LADDER OR STEPS TO BE OFFSET SO THAT (1) CLEANOUT GATE IS VISIBLE FROM TOP; (2) CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE; (3) FRAME IS CLEAR OF CURB (IF ANY EXIST).
- MULTI-ORIFICE ELBOWS MAY BE LOCATED AS SHOWN ON ONE SIDE OF RISER TO ASSURE LADDER CLEARANCE. SIZE OF ELBOWS TO BE DETERMINED BY THE ENGINEER.
- RESTRICTOR PLATE WITH ORIFICE AS SPECIFIED IN THE PLANS. OMIT PLATE IF ONLY FOR POLLUTION CONTROL. SPECIFIED OPENING TO BE CUT ROUND AND SMOOTH.
- CLEANOUT GATE/SEPARATOR GATE:
ALUMINUM ALLOY PER ASTM B26-2032A OR CAST IRON ASTM A48 CLASS 300 AS REQUIRED.
LIFT HANDLE EITHER SOLID OR TUBING WITH ADJUSTABLE HOOK AS REQUIRED.
NEOPRENE RUBBER GASKETS REQUIRED BETWEEN FLANGES.
- ALTERNATE CLEANOUT GATES/SEPARATOR GATES TO THE DESIGN SHOWN ON STD DWG 5-275 ARE ACCEPTABLE PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8" BOLT SINGLE FOR BOLTING TO THE FLANGE CONNECTION. 5/8" DIAMETER STAINLESS STEEL EXPANSION BOLTS SHALL BE USED.
- RESTRICTOR TEES MAY BE FABRICATED (EXTRUSION WELDED) FROM DOUBLE WALLED (SMOOTH INTERIOR) CORRUGATED POLYETHYLENE PIPE MEETING THE REQUIREMENTS OF SECTION 5-051 OF THESE STANDARDS. PIPE SUPPORTS FOR RESTRICTOR SHALL BE FABRICATED FROM THOSE MATERIALS LISTED IN NOTE 3 ABOVE. THE OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A PREMIUM COUPLING BY USING A HOSE SHRINK ADAPTER TO OTHER TYPES OF PIPE, OR BY FABRICATING A SMOOTH OR TAPERED OUTLET TO SLIP INSIDE OF THE CULVERT OR SEWER PIPE.

SEE TEXT SECTION 5-10F

SNOHOMISH COUNTY PUBLIC WORKS
5-270A FLOW RESTRICTOR/OIL POLLUTION CONTROL - RESTRICTOR NOTES
APPROVED BY: [Signature]
COUNTY ROAD ENGINEER DATE

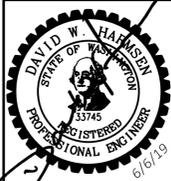


SNOHOMISH COUNTY PUBLIC WORKS
5-270B FLOW RESTRICTOR/OIL POLLUTION CONTROL - RESTRICTOR
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COUNTY ROAD ENGINEER DATE

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ENGINEERS SURVEYORS
(360) 794-7811
(206) 343-5903
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HARMSEN & ASSOCIATES INC
125 EAST MAIN STREET, SUITE 104
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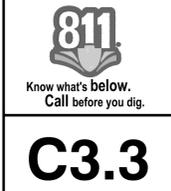
CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
SNOHOMISH COUNTY DETAILS

DATE: 6/6/19
JOB #: 17-319

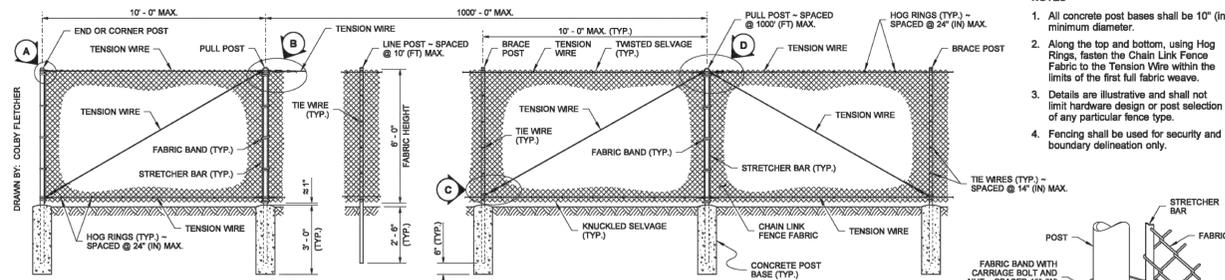
PFN: 17-103680 CUP

SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____
R/W PERMIT NO. _____

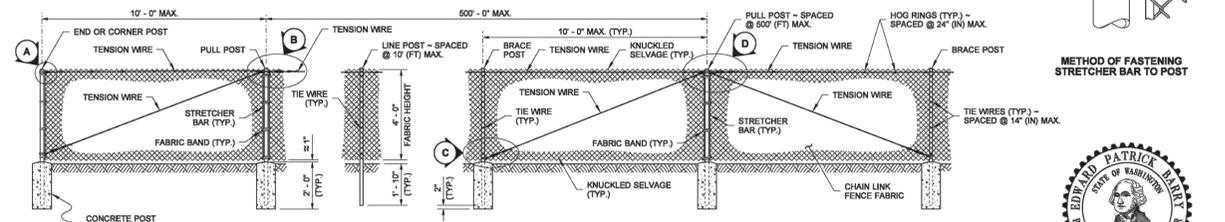


SE 1/4, SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.



- NOTES**
1. All concrete post bases shall be 10" (in) minimum diameter.
 2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
 3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
 4. Fencing shall be used for security and boundary delineation only.

TYPE 3



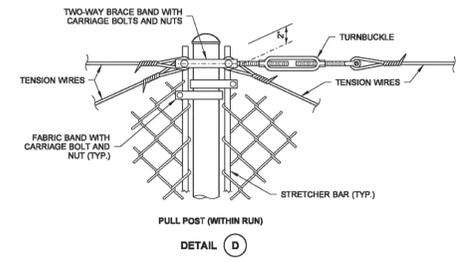
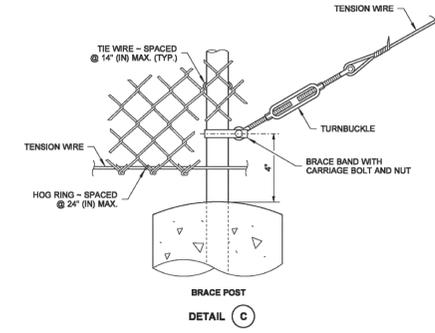
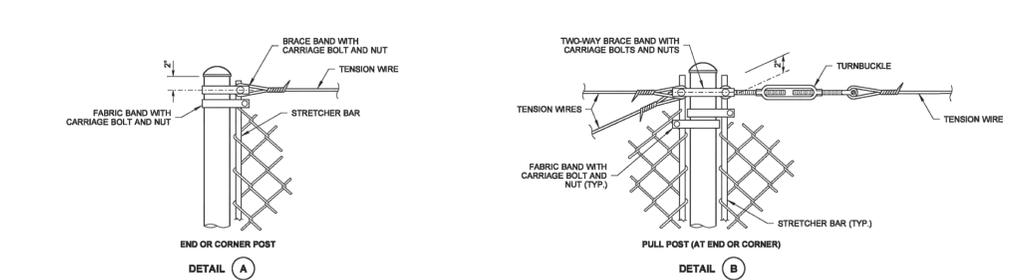
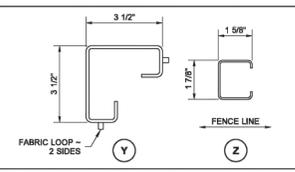
METHOD OF FASTENING STRETCHER BAR TO POST



Barry, Ed
Jul 14 2015 11:14 AM
CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-03
SHEET 1 OF 2 SHEETS

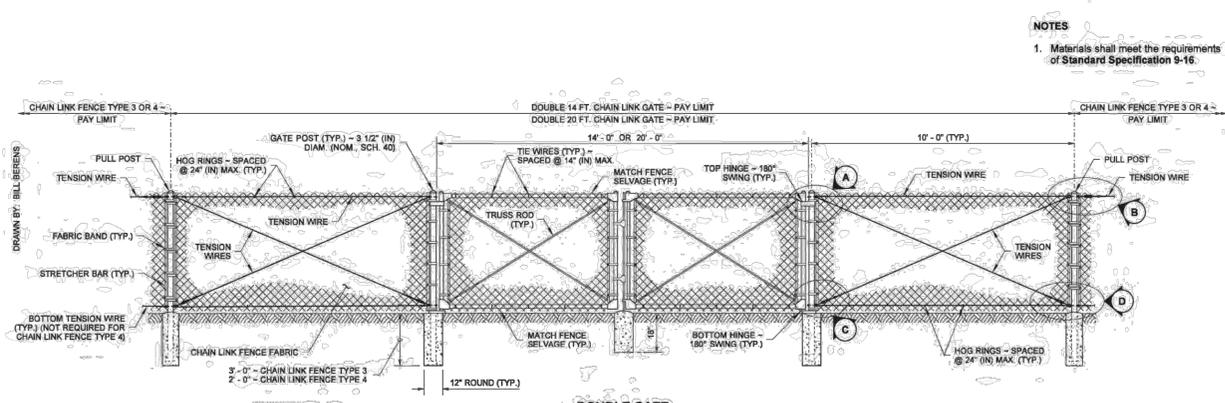
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 14 2015 11:24 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

POST	PIPE		ROLL FORMED
	NOM. SIZE (SCH. 40) I.D.	SECTION	
END, CORNER, OR PULL POST	2 1/2" DIAM.	(Y)	5.10
LINE OR BRACE POST	2" DIAM.	(Z)	1.85



Barry, Ed
Jul 14 2015 11:14 AM
CHAIN LINK FENCE TYPES 3 AND 4
STANDARD PLAN L-20.10-03
SHEET 2 OF 2 SHEETS

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Carpenter, Jeff
Jul 14 2015 11:25 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

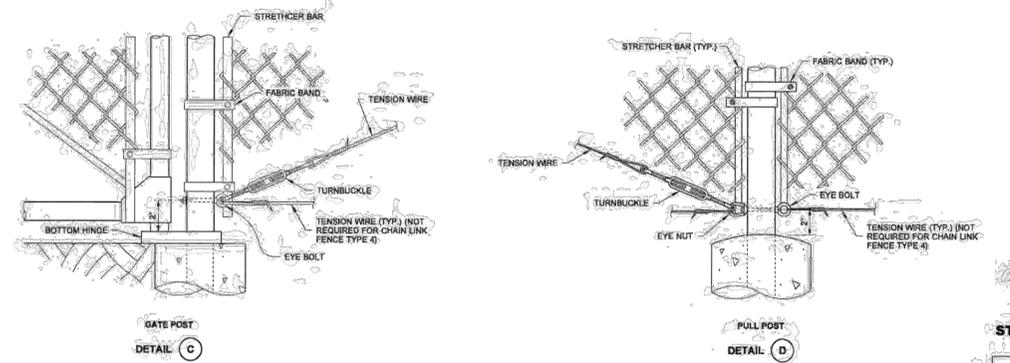
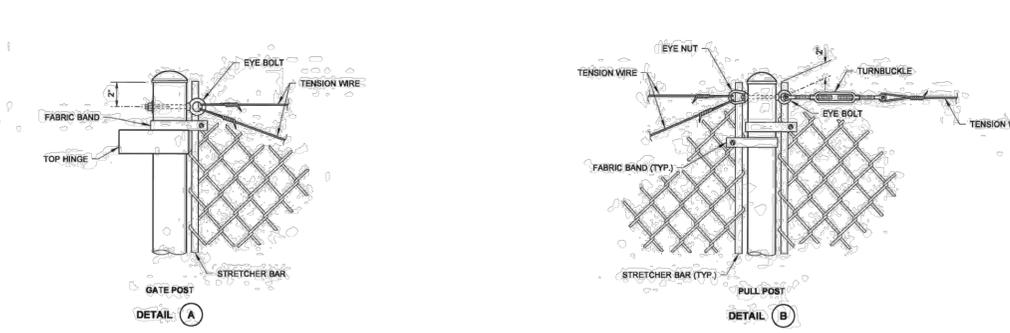


- NOTES**
1. Materials shall meet the requirements of Standard Specification 9-16.



Barry, Ed
May 6 2014 3:57 PM
CHAIN LINK GATE
STANDARD PLAN L-30.10-02
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 11 2014 1:40 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



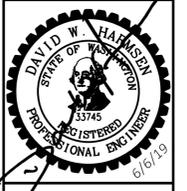
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May 6 2014 3:58 PM
CHAIN LINK GATE
STANDARD PLAN L-30.10-02
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jun 11 2014 1:41 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

REVISIONS

HARMSEN & ASSOCIATES INC.
ENGINEERS SURVEYORS
(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



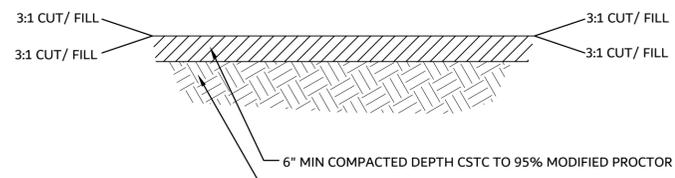
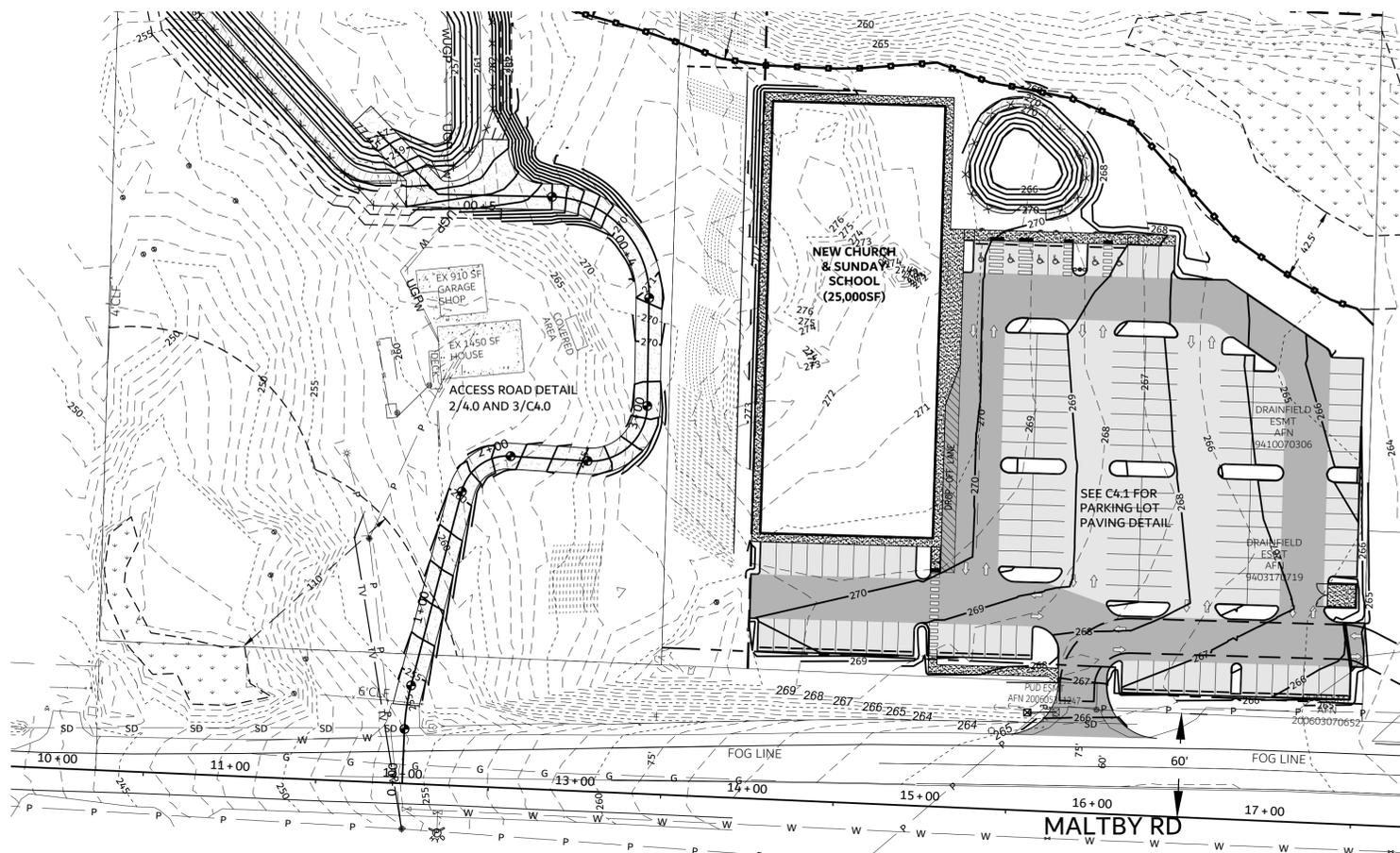
CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
WSDOT DETAILS

DATE: 6/6/19
JOB #: 17-319

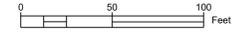
811
Know what's below.
Call before you dig.
C3.4

PFN: 17-103680 CUP
SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION
BY: _____ DATE: _____
R/W PERMIT NO. _____

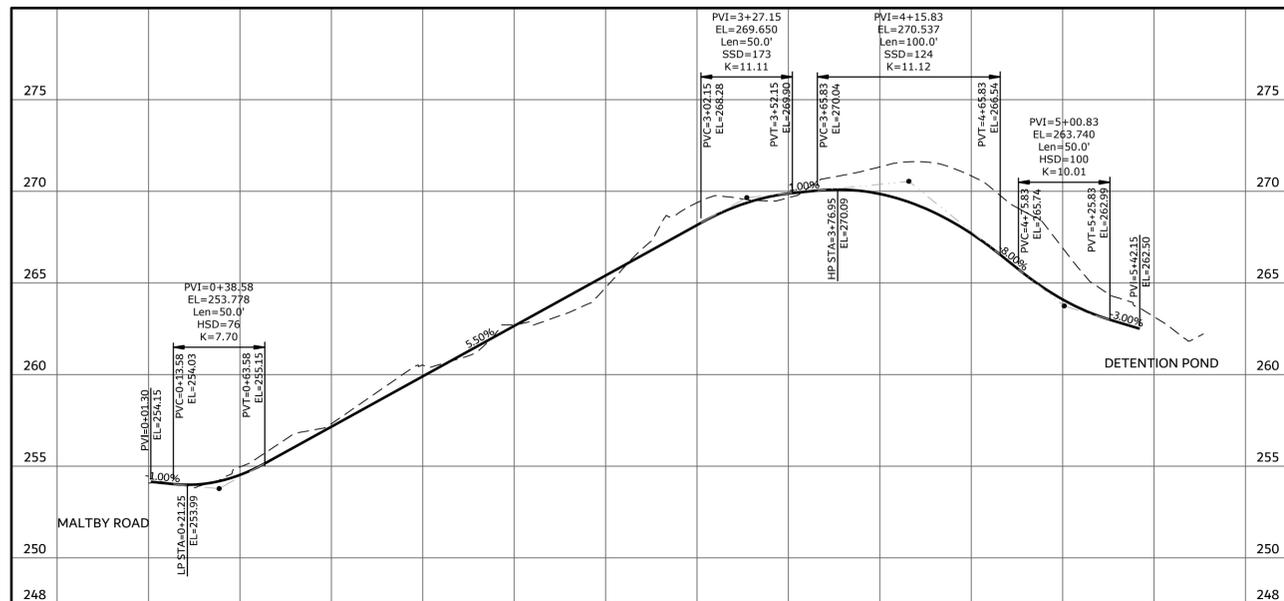
SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.



1 GRADING-PAVING PLAN
SCALE: 1"=50'

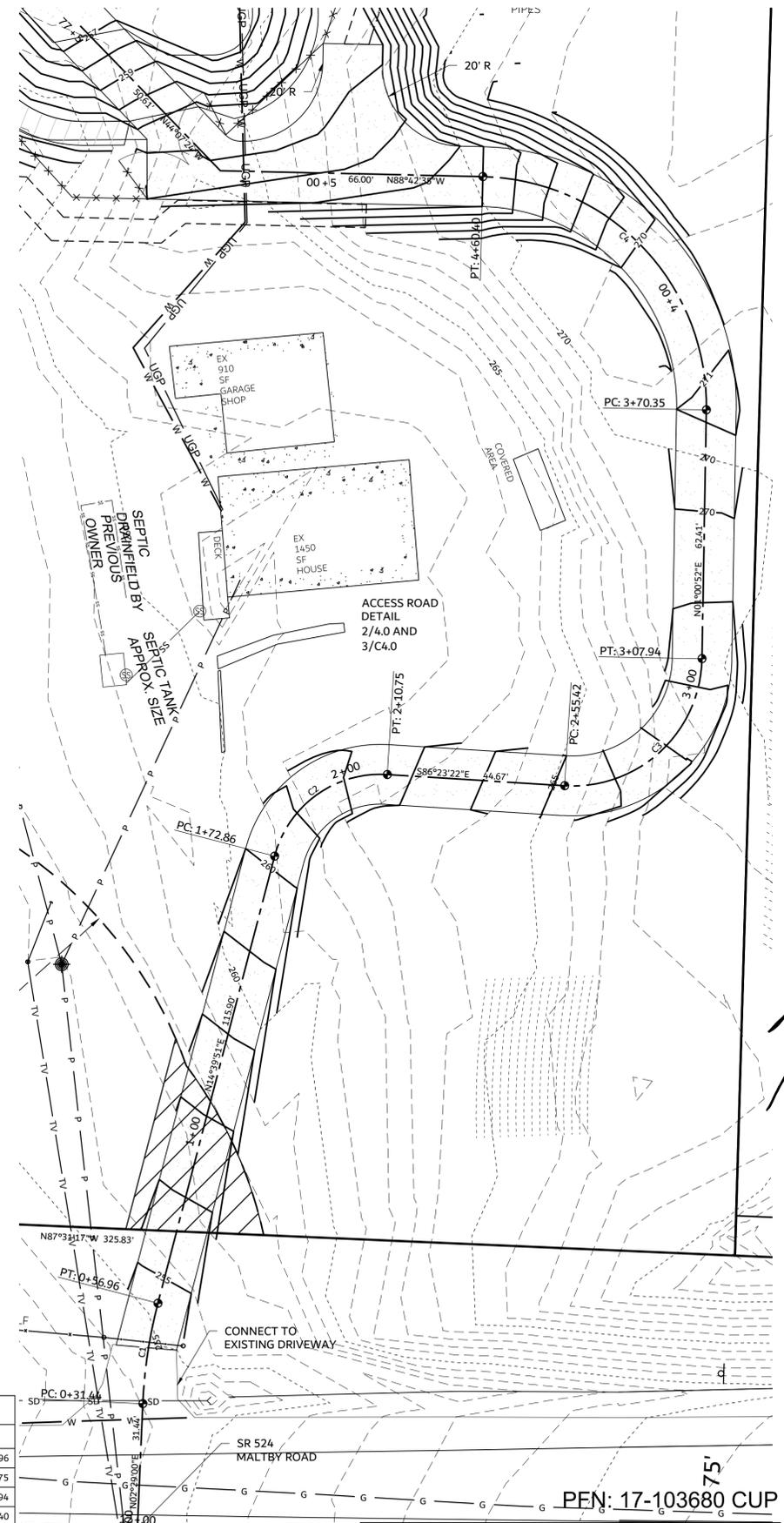


4 POND ACCESS ROAD SECTION
SCALE: NOT TO SCALE

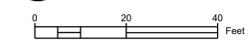


2 POND ACCESS ROAD PROFILE
SCALE: H: 1"=50' V: 1"=5'

ROAD HORIZONTAL CURVE TABLE					
Curve #	P.I.	Radius	Arch Length	Delta	P.C. P.T.
C1	0+44.25	120.00	25.51	N8°34'25.56"E	0+31.44 0+56.96
C2	1+95.50	27.50	37.89	N54°08'14.13"E	1+72.86 2+10.75
C3	2+89.43	32.50	52.52	N47°18'44.83"E	2+55.42 3+07.94
C4	4+27.58	57.50	90.04	N43°50'51.34"W	3+70.35 4+60.40



3 POND ACCESS ROAD PLAN
SCALE: 1"=20'



SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

DATE: _____
BY: _____

R/W PERMIT NO. _____

REVISIONS

ENGINEERS
SURVEYORS

HARMSEN & ASSOCIATES, INC.

125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY
CHURCH
SNOHOMISH COUNTY, WA
GRADING PLAN

DATE: 6/6/19
JOB #: 17-319



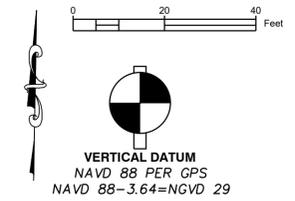
C4.0

SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.

BENCHMARK:
TOP OF MONUMENT AT SE COR OF
SEC EL=259.28

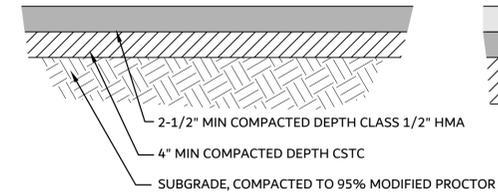
BASIS OF BEARINGS:
N01°39'50"E ALONG THE E LINE OF
THE SE QTR OF SEC. 22-27-5

HORIZONTAL DATUM:
WA STATE COORD. SYSTEM, NORTH
ZONE, NAD 1983 (1991 ADJ.)



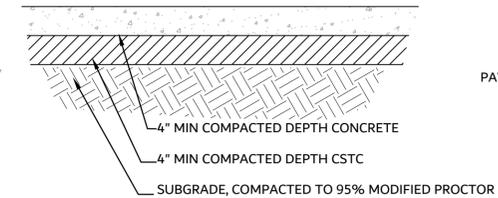
PAVING LEGEND

- 1 STANDARD ASPHALT PAVING SECTION (C4.1)
- 2 FIRE LANE ASPHALT PAVING SECTION (C4.1)
- 3 CONCRETE WALKWAY SECTION (C4.1)



PAVING ALTERNATE:
4" CSTC MAY BE REPLACED WITH 3" ATB

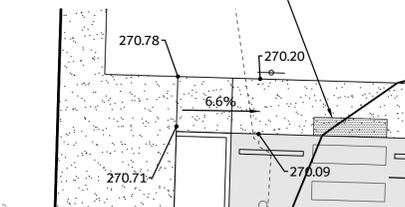
- 1 STANDARD ASPHALT PAVING SECTION
SCALE: NONE



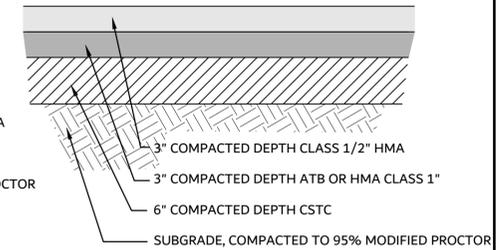
- 3 CONCRETE WALKWAY SECTION
SCALE: NONE

SEE ARCHITECTURE
SITE PLAN FOR
STRIPING AND LAYOUT

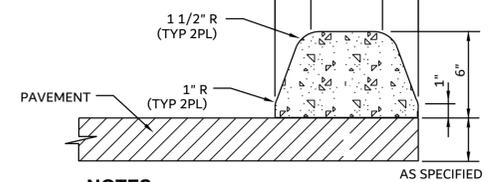
TRUNCATED DOMES
TYP. OF 4
SEE DETAIL 2/C4.2



- 5 ADA RAMP 1
SCALE: 1"=10'



- 2 FIRE LANE ASPHALT PAVING SECTION
SCALE: NONE

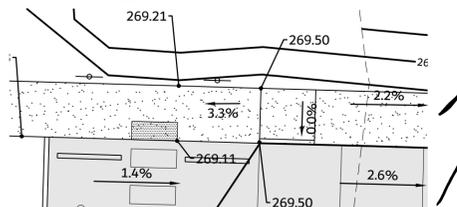


AS SPECIFIED

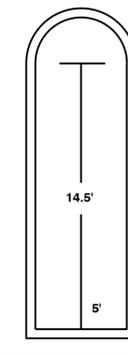
NOTES:

1. DUMMY JOINTS SHALL BE PLACED EVERY 10 FEET. THROUGH JOINTS SHALL BE PLACED ONLY AT POINTS OF TANGENCY.
2. CONCRETE SHALL BE CLASS 3000 OR COMMERCIAL WITH AIR-ENTRAINMENT.
3. AT THE CONTRACTOR'S OPTION CONCRETE CURBS MAY BE ANCHORED TO THE EXISTING PAVEMENT EITHER BY PLACING STEEL TIE BARS 1 FOOT ON EACH SIDE OF EVERY JOINT, OR BY USING AN ADHESIVE. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-20 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR TYPE II EPOXY RESIN.

- 4 EXTRUDED CONCRETE CURB
SCALE: NOT TO SCALE

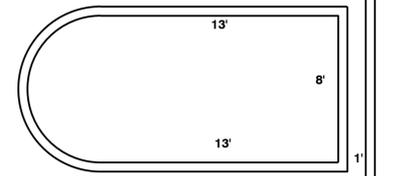


- 6 ADA RAMP 2
SCALE: 1"=10'



- 7 ADA RAMP 3
SCALE: 1"=10'

- 8 CURB SPACING DETAIL
SCALE: 1"=5'

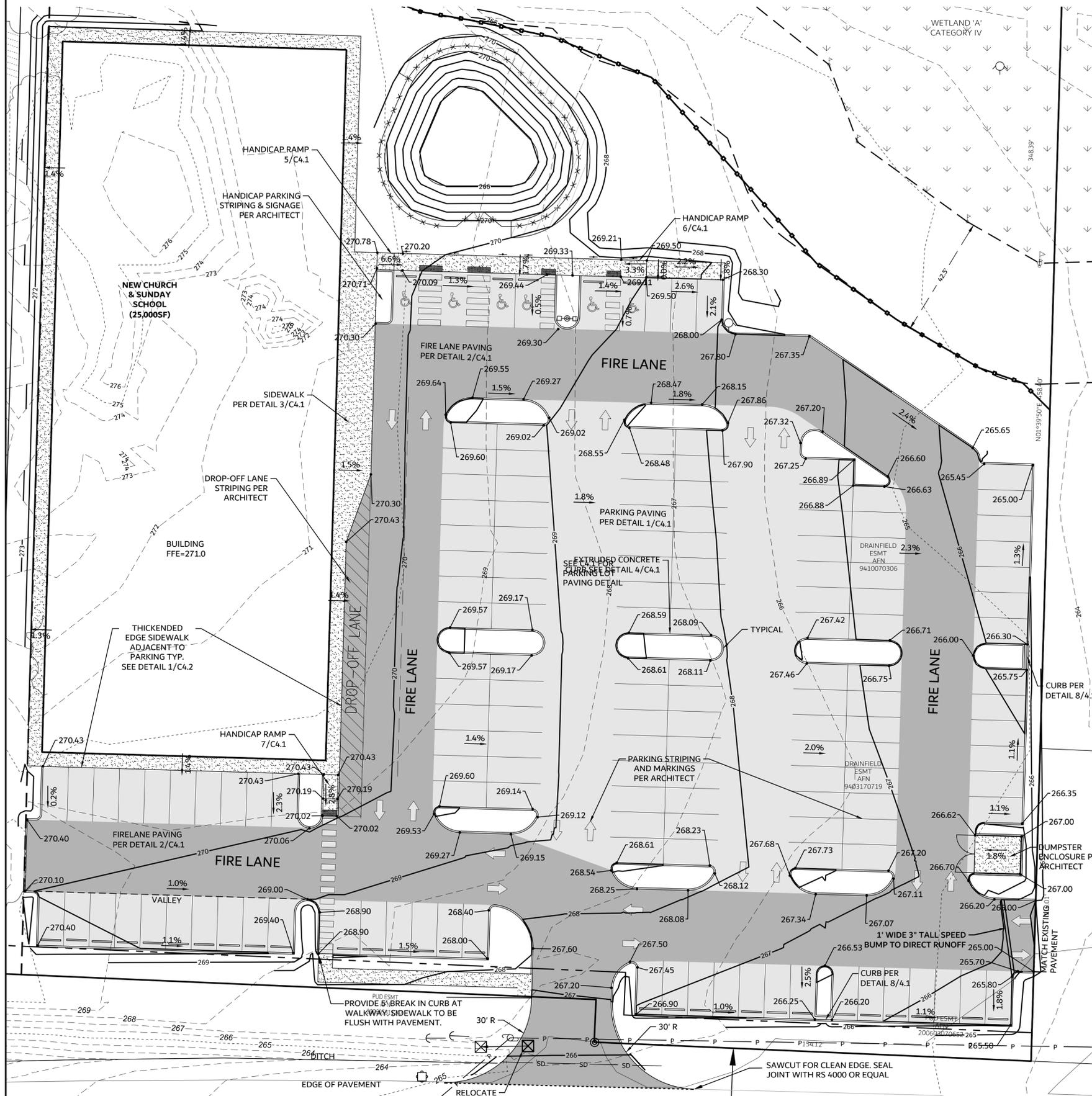


PFN: 17-103680 CUP

SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY _____ DATE: _____

R/W PERMIT NO. _____



REVISIONS

ENGINEERS
SURVEYORS

HARMSEN & ASSOCIATES, INC.
125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



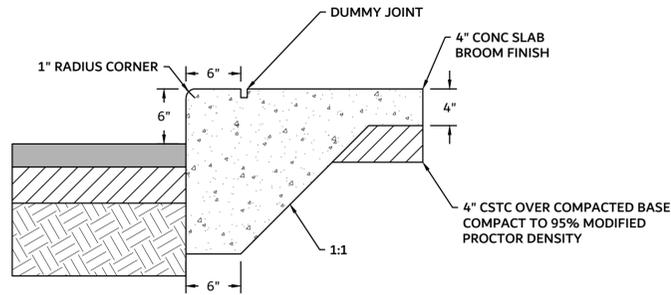
CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY
CHURCH
SNOHOMISH COUNTY, WA
PARKING AREA PLAN

DATE: 6/6/19
JOB #: 17-319

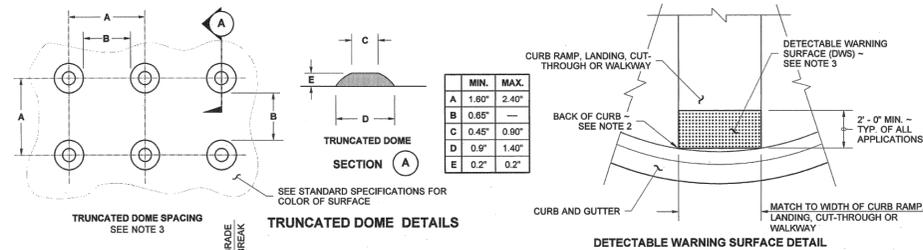


C4.1

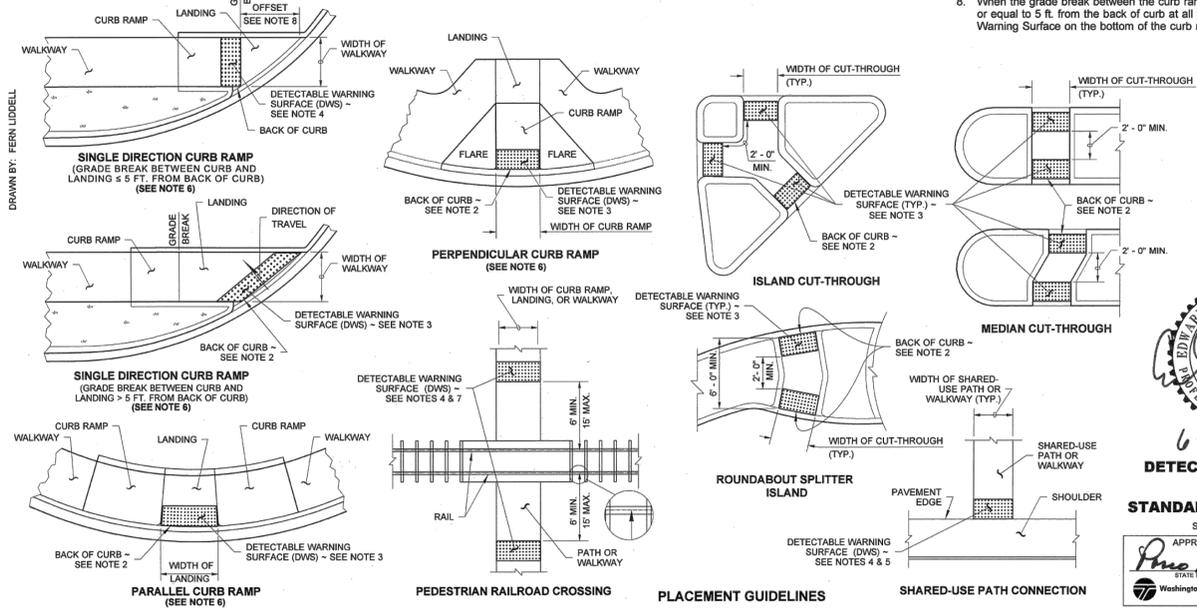
SECTION 22, TOWNSHIP 27 NORTH, RANGE 5 EAST, W.M.



1 THICKED CURB & SIDEWALK
SCALE: NOT TO SCALE



- NOTES**
- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp (exclusive of flares) or the landing.
 - The Detectable Warning Surface shall be placed at the back of curb, and need not follow the radius.
 - The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
 - The rows of truncated domes shall be aligned to be parallel to the direction of travel.
 - If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
 - See **Standard Plans** for sidewalk and curb ramp details.
 - If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
 - When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp.



6-18-2012

DETECTABLE WARNING SURFACE

STANDARD PLAN F-45.10-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pino B. B... DATE

STATE DESIGN ENGINEER

Washington State Department of Transportation

REVISIONS

ENGINEERS
SURVEYORS

(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

HARMSEN & ASSOCIATES, INC.

125 EAST MAIN STREET, SUITE 104
P.O. BOX 516
MONROE, WA 98272



CONSTRUCTION DRAWINGS
GOLD CREEK COMMUNITY CHURCH
SNOHOMISH COUNTY, WA
PAVING DETAILS

DRAWN BY: -
CHECKED BY: -
DATE: 6/6/19
JOB #: 17-319
SCALE: 1" =



C4.2

PFN: 17-103680 CUP

SNOHOMISH COUNTY
PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY _____ DATE: _____

R/W PERMIT NO. _____