

GENERAL NOTES

- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KING COUNTY CODE (KCC), ROAD STANDARDS (KCRS), WASHINGTON STATE DOT (WSDOT) STANDARD SPECIFICATIONS AND THE CONDITIONS OF PRELIMINARY APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND OF THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
- THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF DEVELOPMENT AND ENVIRONMENTAL SERVICES (DDES) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DDES PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
- APPROVAL OF THIS ROAD, GRADING, AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G., DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.).
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DDES LAND USE INSPECTION SECTION, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS OF KCRS CHAPTER 8 ARE SUBMITTED TO THE DDES LAND USE INSPECTION SECTION THREE DAYS PRIOR TO CONSTRUCTION.
- DATUM SHALL BE KCAS UNLESS OTHERWISE APPROVED BY DDES.
- DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
- ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY, STANDARD PROCTOR.
- OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DDES AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY KING COUNTY.

SHEET INDEX

- C01 KING COUNTY COVER SHEET
- C02 DRAINAGE PLAN
- C03 DETAILS
- C04 TESC PLAN
- C05 TESC NOTES AND DETAILS
- C06 WATER PLAN
- C07 ROAD SECTIONS
- C08 DRAINAGE AND PAVING DETAILS
- C09 EXISTING CONDITIONS

HORIZONTAL CONTROL

- KING COUNTY SURVEY CONTROL POINT No. 6897, EAST QUARTER OF SECTION 28, T 21 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 1.6 FEET BELOW GRADE, IN STANDARD KC MON. CASE. NORTHING: 105165.739 (FEET) EASTING: 1278265.994 (FEET)
- KING COUNTY SURVEY CONTROL POINT No. 6907, NE CORNER OF SECTION 33, T 21 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 0.6 FEET BELOW GRADE, IN STANDARD KC MON. CASE. NORTHING: 102529.986 (FEET) EASTING: 1278209.517 (FEET)

VERTICAL DATUM :

NAVD 88

BENCH MARK :

KING COUNTY SURVEY CONTROL POINT No. 6905, SW CORNER OF SECTION 27, T 24 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 1.2 FEET BELOW GRADE, IN STANDARD KC MON. CASE. ELEVATION = 367.06

TO CONVERT FROM NAVD 88 TO NGVD-29 USE -3.58'

EXAMPLE : 367.06 NAVD 88
-3.58
363.48 NGVD-29

THE DATUM WILL BE CONVERTED TO KCAS (NGVD-29) DURING "AS-BUILDING" STAGE.

DRAINAGE NOTES

- PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO DDES PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- ALL CATCH BASIN GRATES SHALL CONFORM TO KCRS WHICH INCLUDES THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS" AND "PROPERTY OF KING COUNTY", EXCEPT THAT PRIVATE DRAINAGE SYSTEMS SHALL NOT HAVE THE WORDS "PROPERTY OF KING COUNTY".
- ALL DRIVEWAY CULVERTS LOCATED WITHIN KING COUNTY RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE KCRS.
- ROCK FOR EROSION PROTECTION OF DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF ONE FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8"/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH KCRS.
- DRAINAGE OUTLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION BY KING COUNTY. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:
 - EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.
 - OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2" X 4" STAKE MARKED "STORM" OR "DRAIN". THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.
 - PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN KCRS AND, IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.
 - DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.
 - THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO UTILITIES (E.G., POWER, GAS, TELEPHONE, TELEVISION).
 - ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOMEOWNER.
- ALL DISTURBED PERVIOUS AREAS (COMPACTED, GRADED, LANDSCAPED, ETC.) OF THE DEVELOPMENT SITE MUST DEMONSTRATE ONE OF THE FOLLOWING: THE EXISTING DUFF LAYER SHALL BE STAGED AND REDISTRIBUTED TO MAINTAIN THE MOISTURE CAPACITY OF THE SOIL, OR; AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPACITY.
- SEASONAL CLEARING IS LIMITED BETWEEN OCTOBER 1 AND MARCH 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IMPROVEMENTS AND/OR BUILDINGS SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE "IN OPERATION", (KCC 9.04).

LEGAL DESCRIPTION:

ALL OF BLOCK 4, JOVITA, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 19 OF PLATS, PAGE 14, RECORDS OF KING COUNTY, WASHINGTON.

SITE DATA:

EXISTING ZONE: R-4
PROPERTY AREA: 5.78 ACRES
PERCEL NUMBER: 3750600012
PREVIOUS BUILDING PERMIT: B04L2425
ADDRESS: 4511 SOUTH 360TH STREET, FEDERAL WAY, WA 98001

SOIL BEARING CAPACITY

1500 LB/SF

UTILITY PURVEYORS

WATER: LAKEHAVEN UTILITY DISTRICT
SEWER: LAKEHAVEN UTILITY DISTRICT
POWER: PUGET SOUND ENERGY
TELEPHONE: QWEST COMMUNICATIONS
CABLEVISION: ATT BROADBAND
GAS: PUGET SOUND ENERGY
SCHOOL DISTRICT: FEDERAL WAY #210
FIRE DISTRICT: SOUTH KING FIRE AND RESCUE

PROJECT ENGINEER

PACIFIC ENGINEERING DESIGN, LLC
15445 53RD AVE. S.
SEATTLE, WA, 98188
PHONE: (206) 431-7970
FAX: (206) 388-1648

ARCHITECT

RUTLEDGE MAUL ARCHITECTS
19336 47TH AVE NE
LAKE FOREST PARK, WA 98155-2954
PHONE: (206) 440-0330
FAX: (206) 362-4381

LANDSCAPE ARCHITECT

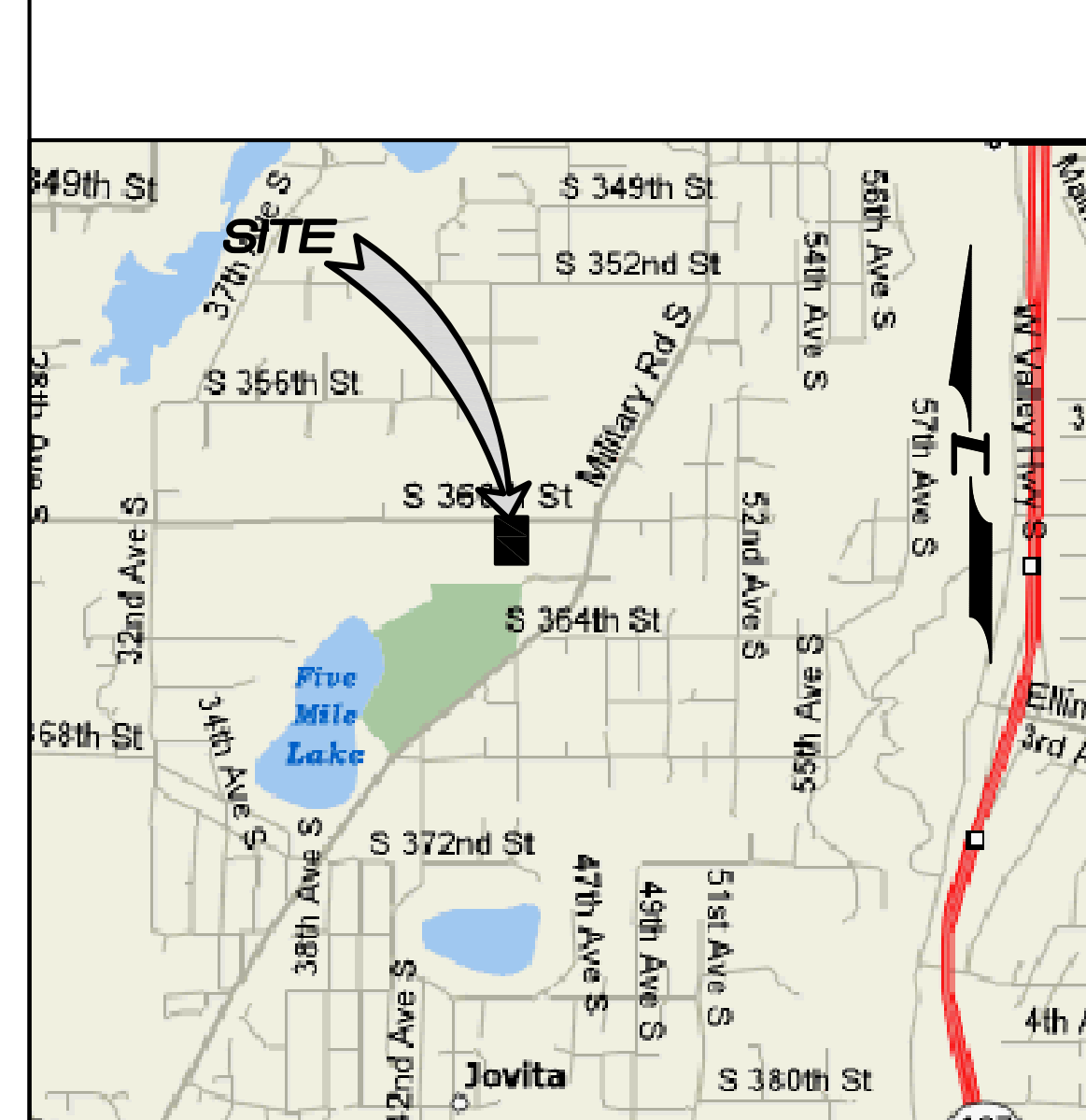
GLENN TAKAGI
18550 FIRLANDS WAY N STE 102
SHORELINE, WA 98133-3984
PHONE: (206) 542-6100
FAX: (206) 546-1128

TRAFFIC ENGINEER

WILLIAM POPP ASSOCIATES, INC.
14400 BEL RED ROAD # 206
BELLEVUE, WA 98007-3952
PHONE: (425) 401-1030

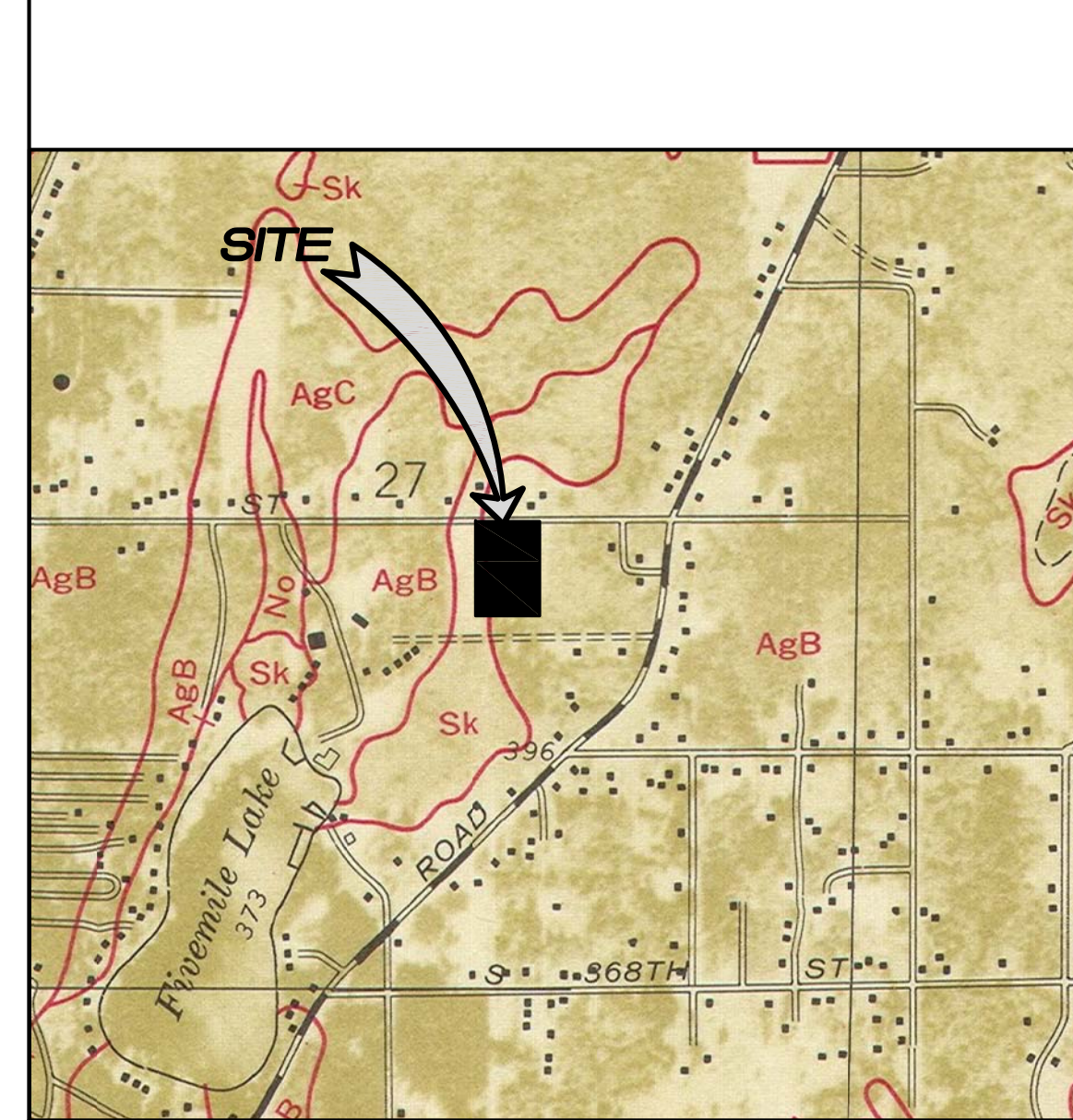
Vicinity Map

Scale 1"=2000'



Soils Map

Scale 1"=1000'



Notice Required

Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days, but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

	Phone
LAKEHAVEN UTILITY DISTRICT Sanitary Sewer	(253) 941-1516
LAKEHAVEN UTILITY DISTRICT Water District	(253) 941-1516
PUGET SOUND ENERGY Gas Company	(800) 321-4123
PUGET SOUND ENERGY Power Company	(800) 321-4123
Call Before You Dig	DIAL-A-DIG 1-800-424-5555

Notes

- The Developer is required to notify the Land Use Services Division, Land Use Inspection Section (206) 296-6642, three days prior to the beginning of construction for a preconstruction conference and specifically request inspection before beginning:
 - Installing siltation and erosion control measures
 - Clearing and grubbing
 - Earthwork
 - Installation of any underground utility
 - Before placing subbase, base or paving surfaces
 - Installation of any forms or placing any concrete
- A permit must be obtained from the office of the Resident Engineer, Washington State Department of Transportation, before any construction is started on any existing state route.
- A Hydraulic Project Approval (HPA) Permit must be obtained from the Washington State Department of Fisheries prior to any work when required.

Bonding Information

Restoration Bond Amount \$ _____
Performance Bond Amount \$ _____

Site Plan Approval

Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way.

Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval.

Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.

PRO RATA SHARE ASSESSMENT ANALYSIS
(County Use Only)

Section	Township	Range	Tax Parcel	Number

Site Location is within the _____ drainage shed(s)
Pro Rata Share Assessment(s) are: Required Not Required
from the site due to development for increased storm water runoff.
Peak Runoff Assessment Rate(\$) per c.f.s. increases.(10 year, 2 hour storm)
Peak Volume Assessment Rate(\$) per Ac. Ft. increases.(2 year, 2 hour storm)

AGREEMENTS, PLAN REFERENCES, PERMITS ETC.
(To be completed by Consultant)

Preliminary Plat Approval/Permit Issued Date: _____
Expiration Date: _____
Other Related Permit Numbers Received:
Right-of-Way Use Permit _____
Grading _____
Building/Structural _____
Other _____
Board feet of tree removal on site: _____
Cubic yards of material hauled on/off the site: _____
Is this a highly sensitive area site? (Yes/No): _____
Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

Emergency 911
Police-Fire-Rescue

RECOMMENDED FOR APPROVAL
(To be completed by King County)

Date _____

Review Engineer _____
Senior Engineer _____
Traffic & Planning Engineer _____
Sensitive Areas _____
Structural Review Engineer _____
Other _____

King County
APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

Date _____ Molly A. Johnson, P.E.
Development Engineer

PROJECT CONTACT INFORMATION
(To be completed by Consultant)

Applicant Contact Person: PAUL PUREWAL (253) 639-8853
Name: _____ Phone: _____
Address and Zip Code: 24820 PACIFIC HWY S, KENT, WA 98032
 Address and Zip Code

Ownership: SATGURU RAM SINGH STANG (206) 304-1911
Name: _____ Phone: _____
Address and Zip Code: 15701 138TH PLACE SE, RENTON, WA 98058
 Address and Zip Code

A Partnership
 An Individual

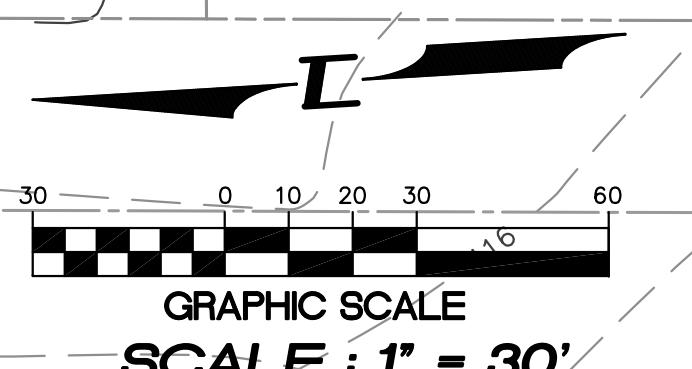
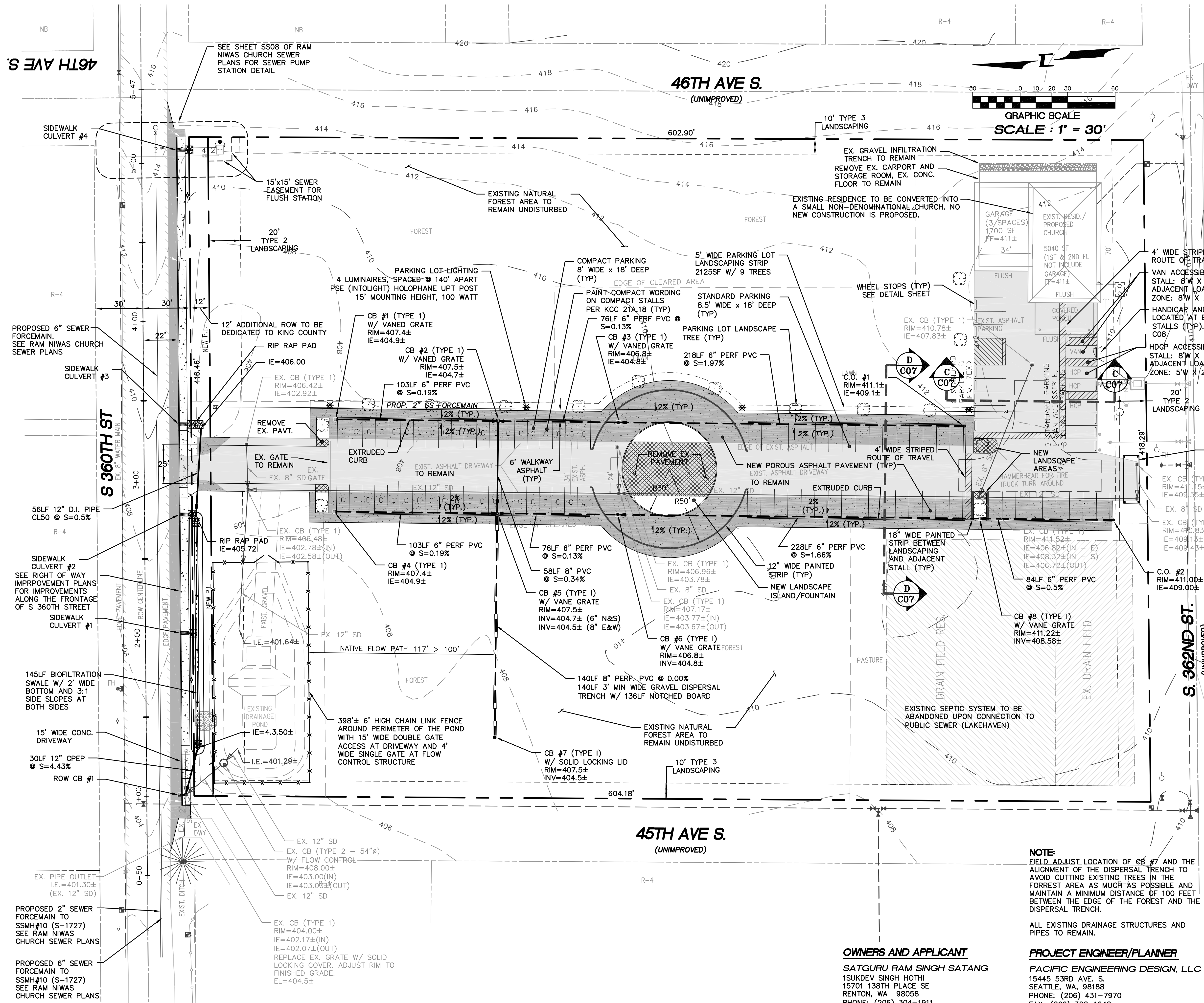
Certified Surveyor: PACIFIC ENGINEERING DESIGN, LLC (206) 431-7970
Name: _____ Phone: _____
Address and Zip Code: 15445 53RD AVE. S., SEATTLE, WA, 98188
 Address and Zip Code

PACIFIC ENGINEERING DESIGN, LLC
CIVIL ENGINEERING AND PLANNING CONSULTANTS
15445 53RD AVE. S., SEATTLE, WA, 98188 PHONE: (206) 431-7970 FAX: (206) 388-1648
Project Coordinator Phone (206) 431-7970

RAM NIWAS CHURCH
FOR: SATGURU RAM SINGH STANG
15701 138TH PLACE SE
RENTON, WA 98058
PHONE: (206) 304-1911

DDES FILE NUMBERS: A10PM158
Activity Number: _____
Project Number: _____
Development No: _____
Sheet 1 of 9

S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.



HORIZONTAL CONTROL
 1. KING COUNTY SURVEY CONTROL POINT No. 6897. EAST QUARTER OF SECTION 28, T 21 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 1.6 FEET BELOW GRADE, IN STANDARD KC MON. CASE. NORTHING: 105165.739 (FEET) EASTING: 1278265.994 (FEET)

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THE DATUM WILL BE CONVERTED TO KCAS (NGVD-29) DURING 'AS-BUILDING' STAGE.

4' WIDE STRIPED ROUTE OF TRAVEL
 VAN ACCESSIBLE STALL: 8'W X 20'L ADJACENT LOADING ZONE: 8'W X 20'L
 HANDICAP AND VAN ACCESSIBLE SIGN LOCATED AT END OF HCP AND VAN STALLS (TYP). SEE DETAIL ON SHEET C07
 HDOP ACCESSIBLE STALL: 8'W X 20'L ADJACENT LOADING ZONE: 5'W X 20'L

LEGEND

	EXISTING GRADE
	NEW TYPE 1 CB W/ FRAME AND GRATE
	NEW TYPE 1 CB W/ SOLID LOCKING LID
	NEW STORM CLEANOUT
	NEW STORM PIPE
	NEW PERFORATED STORM PIPE
	NEW CONCRETE SIDEWALK W/ CURB AND GUTTER
	NEW SIDEWALK CULVERT
	NEW RIP RAP PAD
	NEW CHAIN LINK FENCE
	NEW ASPHALT PAVEMENT
	NEW POROUS ASPHALT PAVEMENT
	EX. TYPE 1 CB
	EX. STORM PIPE
	EXISTING ASPHALT PAVEMENT

NOTE:
 FIELD ADJUST LOCATION OF CB #7 AND THE ALIGNMENT OF THE DISPERSAL TRENCH TO AVOID CUTTING EXISTING TREES IN THE FOREST AREA AS MUCH AS POSSIBLE AND MAINTAIN A MINIMUM DISTANCE OF 100 FEET BETWEEN THE EDGE OF THE FOREST AND THE DISPERSAL TRENCH.

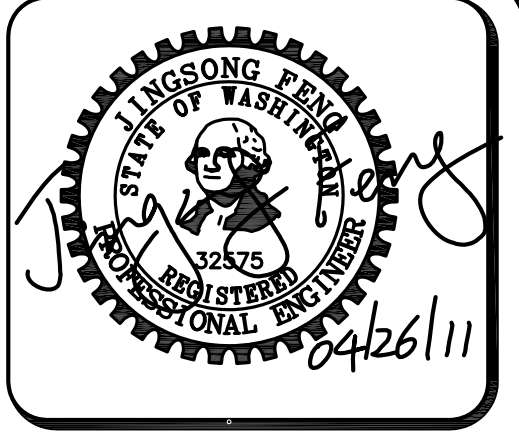
ALL EXISTING DRAINAGE STRUCTURES AND PIPES TO REMAIN.

OWNERS AND APPLICANT
 SATGURU RAM SINGH SATANG
 15UKDEV SINGH HOTHI
 15701 138TH PLACE SE
 RENTON, WA 98058
 PHONE: (206) 304-1911

PROJECT ENGINEER/PLANNER
 PACIFIC ENGINEERING DESIGN, LLC
 15445 53RD AVE. S.
 SEATTLE, WA, 98188
 PHONE: (206) 431-7970
 FAX: (206) 388-1648

APPROVED FOR CONSTRUCTION
 DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

 King County, Washington
 Date _____ Molly A. Johnson, P.E.
 Development Engineer



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 WEB SITE: PACENG.COM

Pacific Engineering Design, LLC
 Civil Engineering and Planning Consultants

BUILDING PERMIT
RAM NIWAS CHURCH
 KING COUNTY, WA

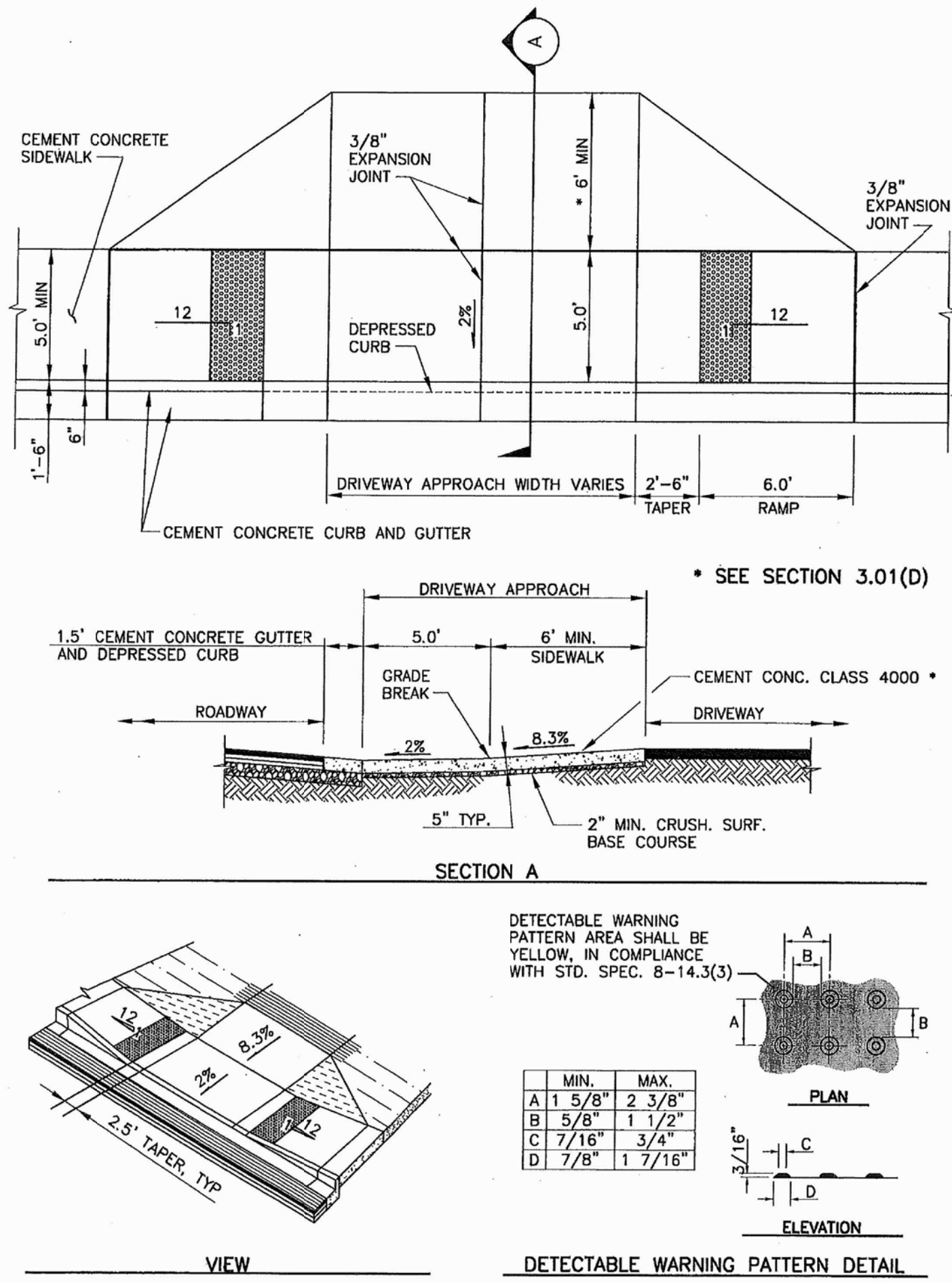
FOR: SATGURU RAM SINGH SATANG
 15701 138TH PLACE SE
 RENTON, WA 98058
 PHONE: (206) 304-1911

PROJECT NO.: 10021
 DRAWN BY: ENM
 ISSUE DATE: 7-23-2010
 SHEET REV.: 04-26-2011

DRAINAGE PLAN

10021BP01.DWG
C02

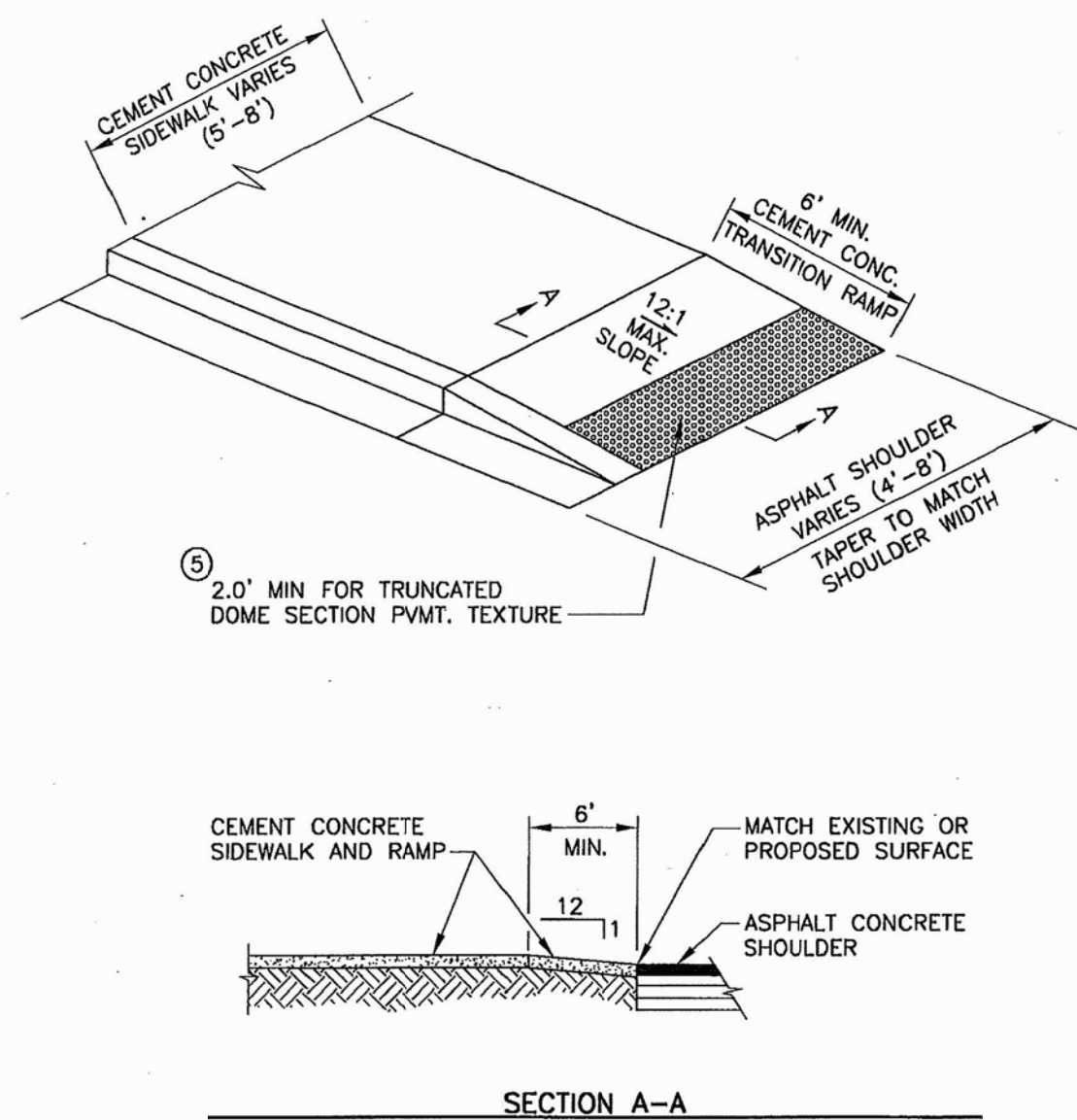
S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.



COMMERCIAL/INDUSTRIAL DRIVEWAY APPROACH PARALLEL SIDEWALK FIG. 3-007 3-17



Department of Transportation Road Services Division 2007 Design and Construction Standards

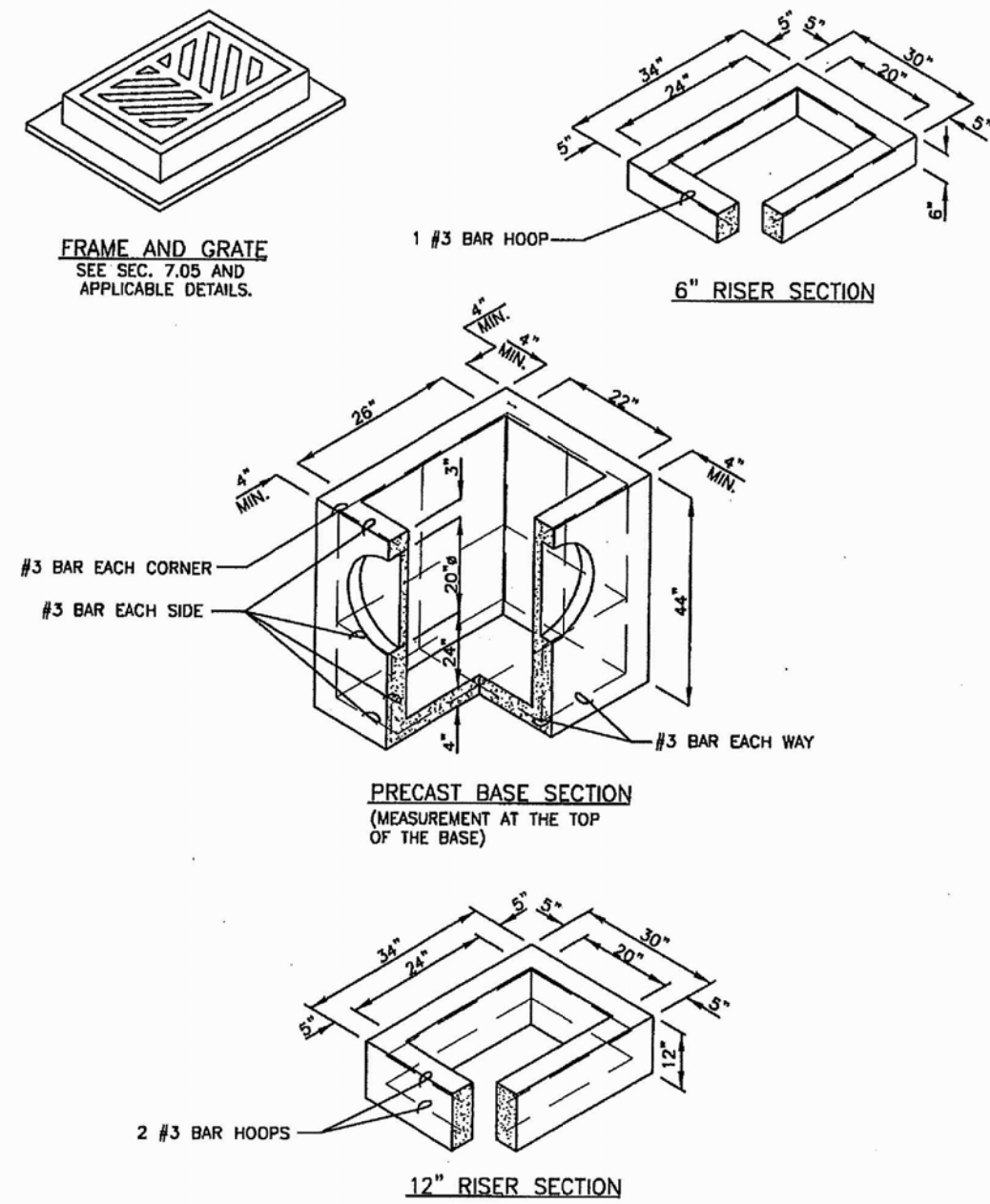


- NOTES:**
- SEE SEC. 3.02 FOR SIDEWALK WIDTHS.
 - SEE SECS. 2.02 AND 2.03 FOR PAVEMENT AND SHOULDER WIDTHS.
 - SHOULDER SHALL BE SURFACED AS REQUIRED BY SECS. 3.07 AND 4.01. PAVED SHOULDER SLOPE SHALL MATCH CROWN SLOPE OR 0.02 FT./FT.
 - SEE FIG. 3-001 FOR CURB AND SIDEWALK JOINTS.
 - RAMP SHALL BE TEXTURED USING TRUNCATED DOME PATTERN. (SEE FIG. 3-011.) DETECTABLE WEARING PATTERN SHALL BE YELLOW IN COMPLIANCE WITH WSDOT STANDARD SPECIFICATIONS 8-14.3(3).
 - THIS DETAIL APPLIES TO ROLLED AND VERTICAL CURB ROADWAYS.

CEMENT CONCRETE SIDEWALK TRANSITION TO ASPHALT SHOULDER FIG. 3-014 3-24



Department of Transportation Road Services Division 2007 Design and Construction Standards

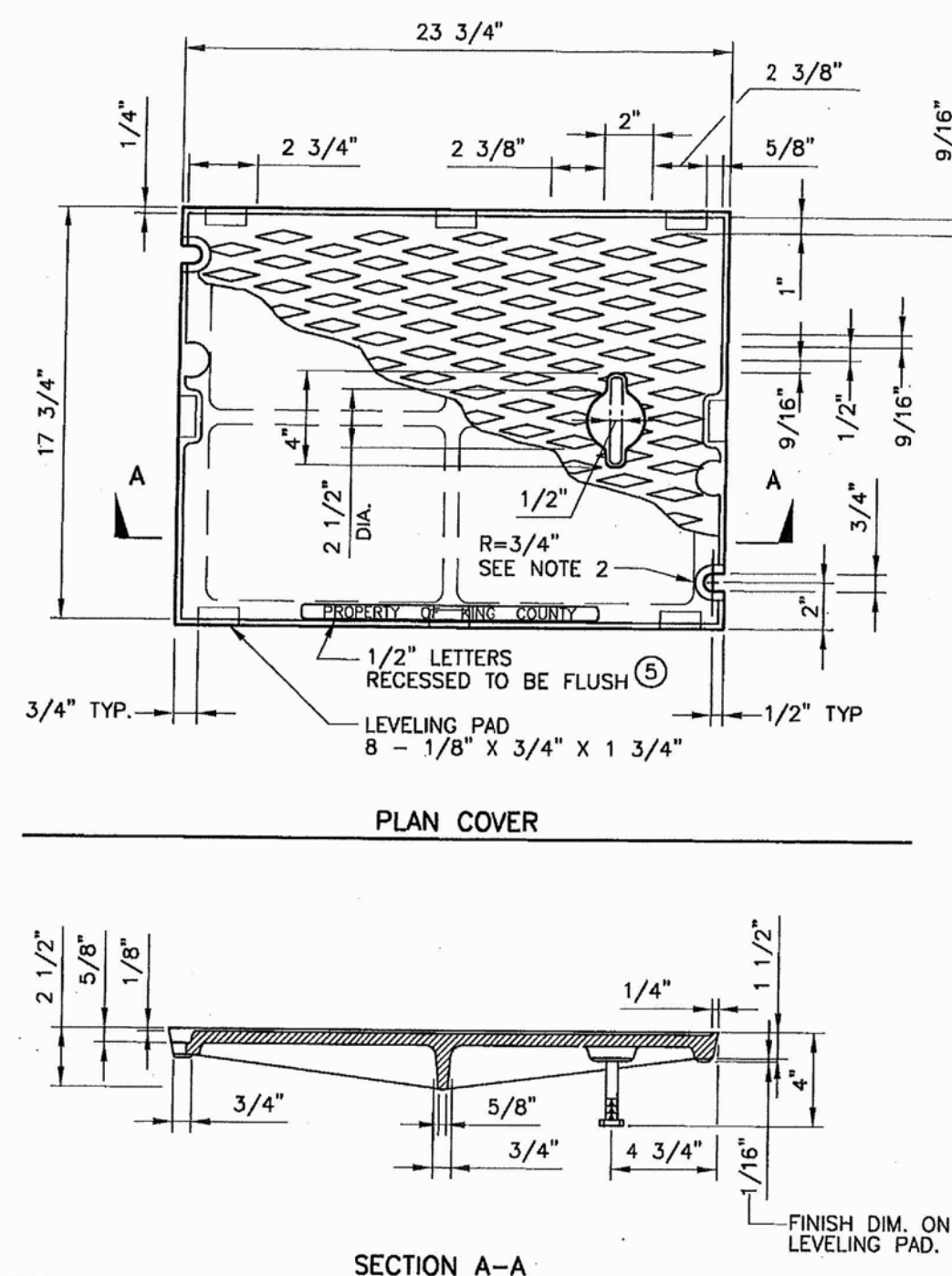


- NOTES:**
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (ASTM M 199) & CURB UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/PAPER STANDARD SPECIFICATIONS.
 - AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQ. IN. PER FT. MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (ASTM M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
 - ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
 - PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2 IN. MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUDED IF WALL IS LEFT INTACT.
 - KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIA. PLUS CATCH BASIN WALL THICKNESS.
 - ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIA. OF 20 IN. KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
 - THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5 FT.
 - THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
 - CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION 80-4-602. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-LOCKING FIT WITH ANY COVER POSITIVE.
 - FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
 - FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/PAPER STANDARD Dwg. 81-14.
 - EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2 IN. FROM VERTICAL EDGE OF CATCH BASIN WALL.

CATCH BASIN TYPE 1 FIG. 7-003 7-8



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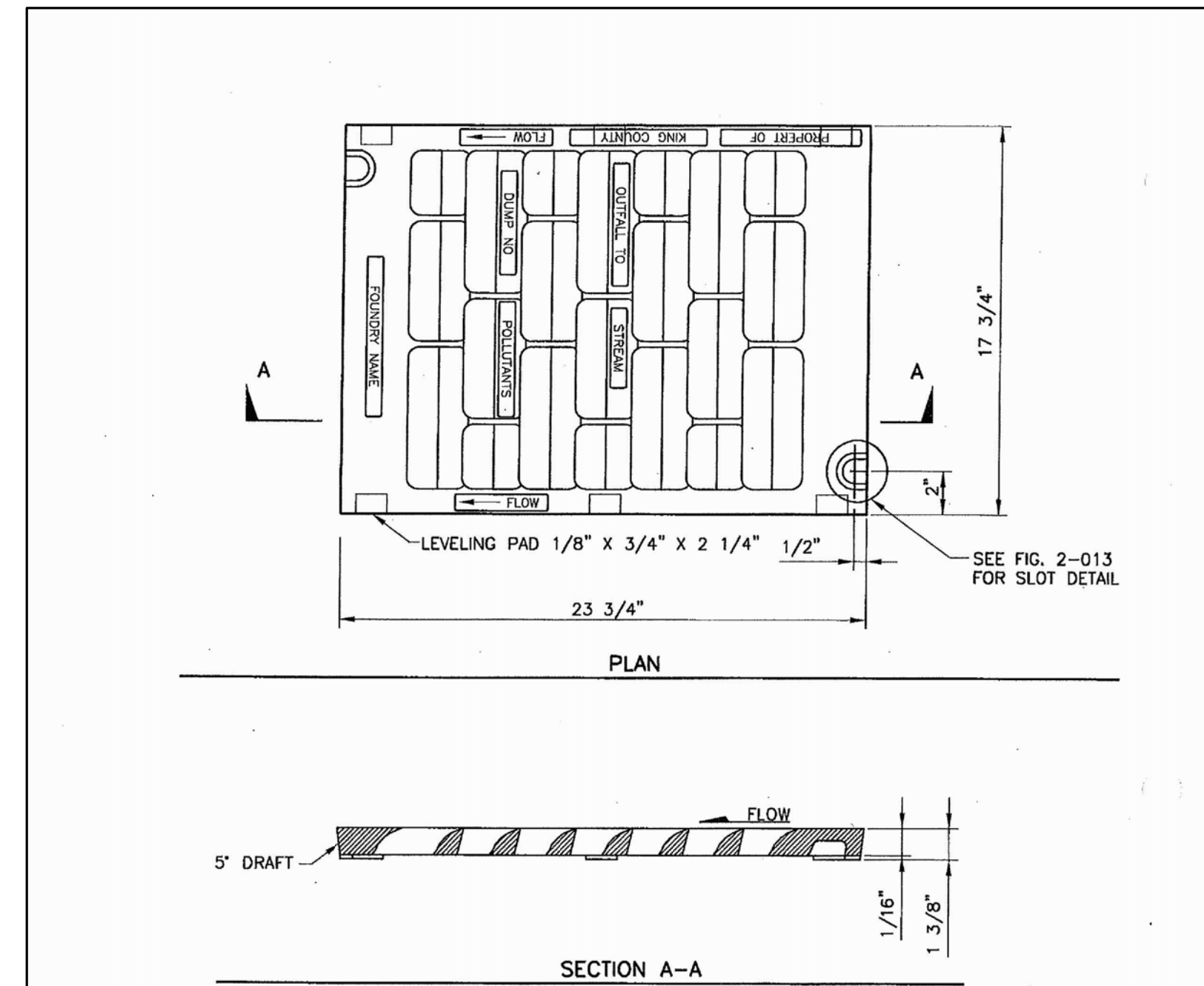


- NOTES:**
- USE WITH FRAME (FIG. 7-014) DRILLED AND TAPPED FOR LOCKING BOLTS.
 - USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, MIN. 2 IN. LONG.
 - MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
 - SEE SEC. 7.05.
 - THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

SOLID COVER FIG. 7-015 7-20



Department of Transportation Road Services Division 2007 Design and Construction Standards

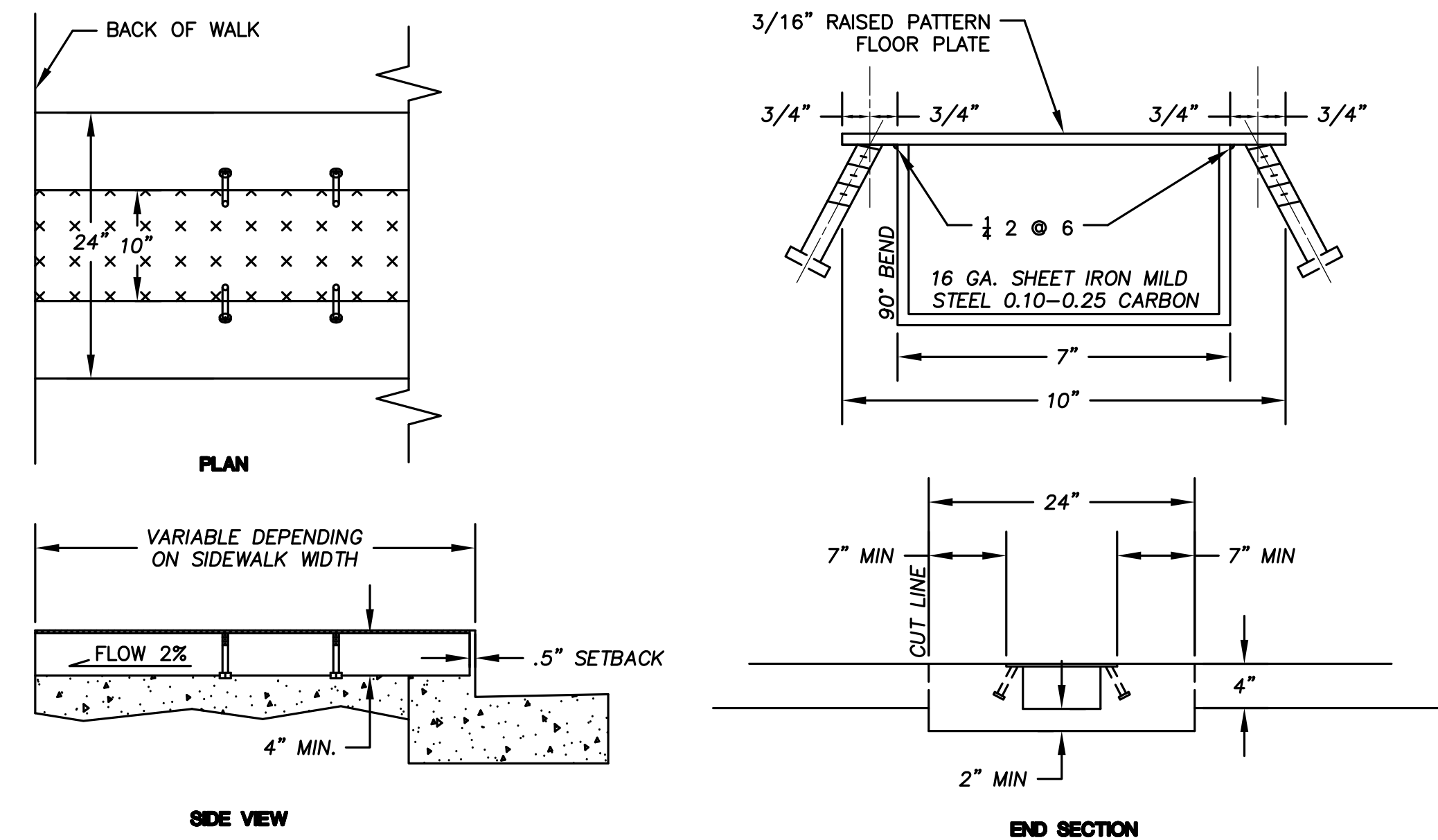


- NOTES:**
- SELF-LOCK VANED GRATE MANUFACTURER SUBJECT TO APPROVAL BY ENGINEER.
 - USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG. NOTE SLOT DETAIL.
 - MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
 - "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
 - SEE SEC. 7.05.
 - THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.

VANED GRATE FIG. 7-018 7-23



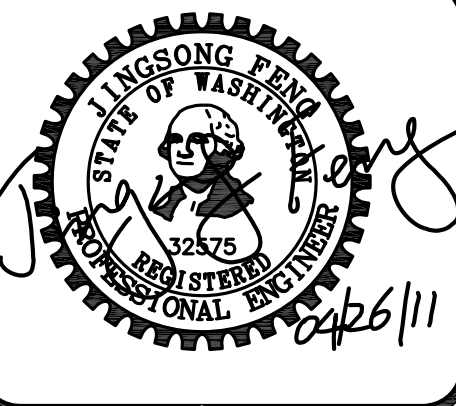
Department of Transportation Road Services Division 2007 Design and Construction Standards



SIDEWALK CULVERT DETAILS

APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES
King County, Washington

Date _____ Molly A. Johnson, P.E.
Development Engineer



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Pacific Engineering Design, LLC
Civil Engineering and Planning Consultants

LAKEHAVEN UTILITY DISTRICT PROJECT No. 6304025
RAM NIWAS CHURCH

FOR: SATOJURU RAM SINGH STANG
15701 138TH PLACE SE
RENTON, WA 98058
PHONE: (206) 304-1911

PROJECT NO.: 10021
DRAWN BY: CJB
ISSUE DATE: 7-23-2010
SHEET REV.: 04-26-2011

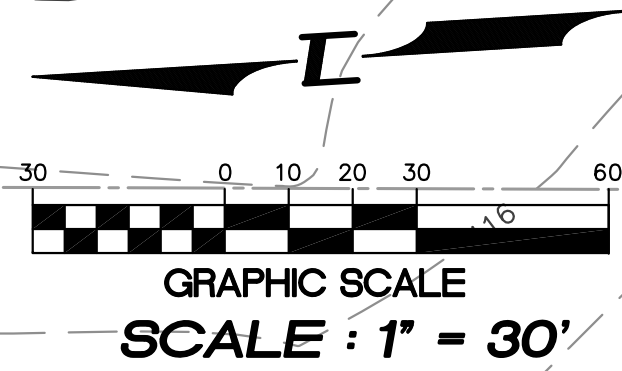
DETAILS

10021D102.DWG

C03

S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.

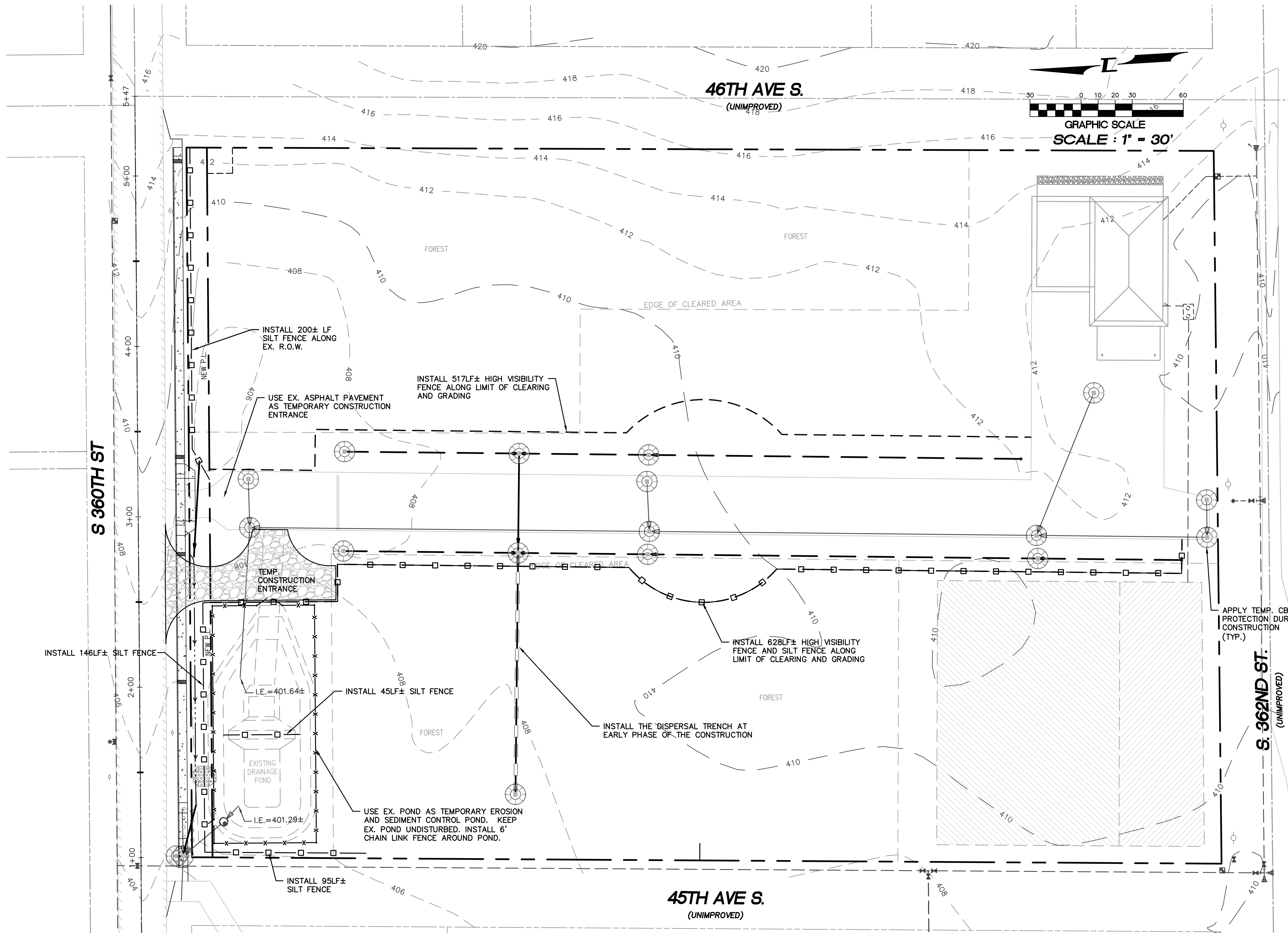
46TH AVE S.
(UNIMPROVED)



45TH AVE S.
(UNIMPROVED)

S 360TH ST

S 362ND ST.
(UNIMPROVED)



LEGEND

	CB PROTECTION
	SILT FENCE
	HIGH VISIBILITY FENCE
	TEMP CONSTRUCTION ENTRANCE

HORIZONTAL CONTROL

- KING COUNTY SURVEY CONTROL POINT No. 6897. EAST QUARTER OF SECTION 28, T 21 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 1.6 FEET BELOW GRADE, IN STANDARD KC MON. CASE. NORTHING: 105165.739 (FEET) EASTING: 1278265.994 (FEET)
- KING COUNTY SURVEY CONTROL POINT No. 6907. NE CORNER OF SECTION 33, T 21 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 0.6 FEET BELOW GRADE, IN STANDARD KC MON. CASE. NORTHING: 102529.986 (FEET) EASTING: 1278209.517 (FEET)

VERTICAL DATUM :
NAVD 88

BENCH MARK :
KING COUNTY SURVEY CONTROL POINT No. 6905. SW CORNER OF SECTION 27, T 24 N, R 4 E, W.M., CONCRETE MONUMENT WITH LEAD AND BRASS TACK, SET 1.2 FEET BELOW GRADE, IN STANDARD KC MON. CASE. ELEVATION = 367.06

TO CONVERT FROM NAVD 88 TO NGVD-29 USE -3.58'

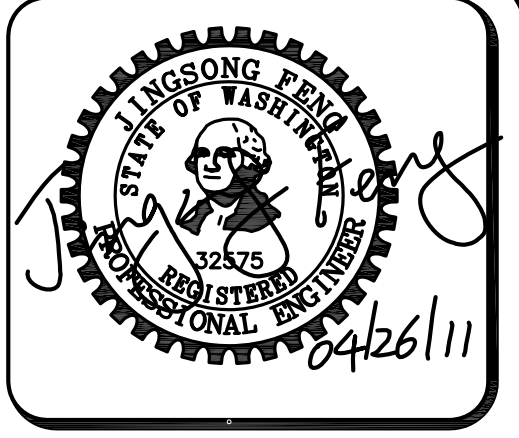
EXAMPLE : 367.06 NAVD 88
 -3.58
 363.48 NGVD-29

THE DATUM WILL BE CONVERTED TO KCAS (NGVD-29) DURING 'AS-BUILDING' STAGE.

OWNERS AND APPLICANT
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15UKDEV SINGH HOTHI
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PROJECT ENGINEER/PLANNER
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 King County, Washington
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BUILDING PERMIT
RAM NIWAS CHURCH
KING COUNTY, WA
FOR: SATGURU RAM SINGH SATANG
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PROJECT NO.: 10021
DRAWN BY: ENM
ISSUE DATE: 7-23-2010
SHEET REV.: 04-26-2011

TESC PLAN

10021TESC01.DWG
C04

S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.

WET WEATHER CLEARING REQUIREMENTS

KCC 16.82.1500

CONSTRUCTION PROJECTS CAN BE A SIGNIFICANT CONTRIBUTOR OF POLLUTION TO STREAMS AND WETLANDS. THEREFORE, FROM OCTOBER 1 THROUGH MARCH 31.

- CLEARING AND GRADING SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE DIRECTOR THAT SILT-LADEN RUNOFF EXCEEDING STANDARDS IN KING COUNTY SURFACE WATER DESIGN MANUAL WILL BE PREVENTED FROM LEAVING THE CONSTRUCTION SITE THROUGH A COMBINATION OF THE FOLLOWING:
 - SITE CONDITIONS INCLUDING VEGETATIVE COVERAGE, SLOPE, SOIL TYPE AND PROXIMITY TO RECEIVING WATERS;
 - LIMITATIONS ON ACTIVITIES AND THE EXTENT OF DISTURBED AREAS; AND
 - PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES.
- THE DIRECTOR SHALL SET FORTH IN WRITING THE BASIS FOR APPROVAL OR DENIAL OF CLEARING OR GRADING DURING THIS PERIOD.
- CLEARING AND GRADING WILL BE ALLOWED ONLY IF THERE IS INSTALLATION AND MAINTENANCE OF AN EROSION AND SEDIMENTATION CONTROL PLAN APPROVED BY THE DEPARTMENT WHICH SHALL DEFINE ANY LIMITS ON CLEARING AND GRADING OR SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES REQUIRED DURING THIS PERIOD. ALTERNATE BEST MANAGEMENT PRACTICES MAY BE APPROVED OR REQUIRED ON-SITE BY THE INSPECTOR.
- IF, DURING THE COURSE OF CONSTRUCTION, SILT-LADEN RUNOFF EXCEEDING STANDARDS IN THE KING COUNTY SURFACE WATER DESIGN MANUAL LEAVES THE CONSTRUCTION SITE OR IF CLEARING AND GRADING LIMITS OR EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THE APPROVED PLAN ARE NOT MAINTAINED, A NOTICE OF VIOLATION SHALL BE ISSUED.
- IF THE EROSION AND SEDIMENT CONTROL PROBLEM DEFINED IN THE VIOLATION IS NOT ADEQUATELY REPAIRED WITHIN TWENTY-FOUR HOURS OF THE NOTICE OF VIOLATION, THEN A NOTICE AND ORDER MAY BE ISSUED BY THE INSPECTOR TO INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES TO STOP SILT-LADEN RUNOFF FROM LEAVING THE SITE. THE NOTICE AND ORDER MAY ALSO REQUIRE THE CONTRACTOR TO DISCONTINUE ANY FURTHER CLEARING AND GRADING, EXCEPT FOR EROSION AND SEDIMENT CONTROL MAINTENANCE AND REPAIR, UNTIL THE FOLLOWING MARCH 31.

EROSION CONTROL SEEDING NOTES

PURPOSE

TO REDUCE EROSION AND SEDIMENTATION BY STABILIZING EXPOSED SOILS THAT WILL NOT BE BROUGHT TO FINAL GRADING OR PERMANENT COVER TREATMENT OR VEGETATION WITHIN 30 DAYS OF THE EXPOSURE.

CONDITIONS WHERE PRACTICE APPLIES

- PERMANENT STRUCTURES ARE TO BE INSTALLED OR EXTENSIVE GRADING OF THE AREA WILL OCCUR PRIOR TO THE ESTABLISHMENT OF PERMANENT VEGETATION.
- EXPOSED SOIL SURFACES WHICH ARE NOT TO BE FINAL GRADE WITHIN 30 DAYS.
- AREAS WHICH WILL NOT BE SUBJECTED TO HEAVY WEAR BY CONSTRUCTION TRAFFIC.
- AREAS SLOPING UP TO 10% FOR 100 FT. OR LESS.

DESIGN CRITERIA/SPECIFICATIONS

- TIME OF PLANTING - DURING THE TIME PERIOD BETWEEN APRIL 1 THROUGH JUNE 30 AND SEPTEMBER 1 THROUGH OCTOBER 31. (NOTE: IF PLANTING BETWEEN JULY 1 AND AUGUST 31, IRRIGATION MAY BE REQUIRED. IF PLANTING BETWEEN NOVEMBER 1 AND MARCH 31, MULCHING WILL BE REQUIRED IMMEDIATELY AFTER PLANTING.)
- SITE PREPARATION - BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKE/SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
- SEEDBED PREPARATION - THE SEEDBED SHOULD BE FIRM, BUT NOT COMPACT, WITH A FAIRLY FINE SURFACE FOLLOWING SURFACE ROUGHENING. SURFACE ROUGHENING SHOULD BE DONE AT RIGHT ANGLES TO THE SLOPE AND PREFERABLY "CAT WALKED" UP SLOPE.
- FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES AND WETLANDS MUST USE NON-PHOSPHORUS FERTILIZER.
- SEEDING - APPLY THE FOLLOWING MIXTURE TO THE PREPARED SEED BED AT A RATE OF 20 LBS/ACRE:

NAME	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
REDTOP (AGROSTIS ALBA)	10 %	92	85
ANNUAL RYE (LOLIUM MULTIFLORUM)	40 %	98	90
CHEWINGS FESQUE (FESTUCA RUBRA COMMUTATA)	40 %	98	90
(JAMESTOWN, BANNER, SHADOW OR KOKET)			
WHITE DUTCH CLOVER	10%	95	90

FINAL STABILIZATION NOTES

- ALL DISTURBED AREAS OF THE SITE SHALL BE VEGETATED OR OTHERWISE PERMANENTLY STABILIZED. AT A MINIMUM, DISTURBED AREAS SHALL BE SEEDED AND MULCHED (SECTION 5.4.2.4) WITH A HIGH LIKELIHOOD THAT SUFFICIENT COVER WILL DEVELOP SHORTLY AFTER FINAL APPROVAL. MULCH WITHOUT SEEDING IS NOT ADEQUATE TO ALLOW FINAL APPROVAL OF THE PERMIT, EXCEPT FOR SMALL AREAS OF MULCH USED FOR LANDSCAPING. THE ONLY EXCEPTIONS TO THESE REQUIREMENTS ARE LOTS WITHIN A PLAT THAT ARE TO BE DEVELOPED UNDER AN APPROVED RESIDENTIAL PERMIT IMMEDIATELY FOLLOWING PLAT APPROVAL. IN THESE CASES, MULCH AND/OR TEMPORARY SEEDING ARE ADEQUATE FOR COVER.
- STRUCTURAL MEASURES SUCH AS, BUT NOT LIMITED TO, SILT FENCES, PIPE SLOPE DRAINS, CONSTRUCTION ENTRANCES, STORM DRAIN INLET PROTECTION, SEDIMENT TRAPS AND PONDS, SHALL BE REMOVED FROM THE SITE. MEASURES THAT WILL QUICKLY DECOMPOSE, SUCH AS BRUSH BARRIERS AND ORGANIC MULCHES, MAY BE LEFT IN PLACE. IN THE CASE OF SILT FENCES, IT MAY BE BEST TO REMOVE FENCES IN CONJUNCTION WITH THE SEEDING, SINCE IT MAY BE NECESSARY TO BRING MACHINERY BACK IN TO REMOVE THEM. THIS WILL RESULT IN DISTURBED SOILS THAT WILL AGAIN REQUIRE PROTECTION. THE DDES INSPECTOR MUST APPROVE AN APPLICANT'S PROPOSAL TO REMOVE FENCING PRIOR TO THE ESTABLISHMENT OF VEGETATION. IN SOME CASES, SUCH AS RESIDENTIAL BUILDING FOLLOWING PLAT DEVELOPMENT, IT MAY BE APPROPRIATE TO LEAVE SOME OR ALL TESC MEASURES FOR USING DURING SUBSEQUENT DEVELOPMENT. THIS SHALL BE DETERMINED ON A SITE-SPECIFIC BASIS.
- ALL PERMANENT SURFACE WATER FACILITIES, INCLUDING CATCH BASINS, MANHOLES, PIPES, DITCHES, CHANNELS, R/D FACILITIES AND WATER QUALITY FACILITIES SHALL BE CLEANED. ANY OFF-SITE CATCH BASINS THAT REQUIRED PROTECTION DURING CONSTRUCTION (SECTION 5.4.5.3) SHALL ALSO BE CLEANED.
- IF ONLY THE INFRASTRUCTURE OF THE SITE HAS BEEN DEVELOPED (E.G., SUBDIVISIONS, AND SHORT PLATS) WITH BUILDING CONSTRUCTION TO OCCUR UNDER A DIFFERENT PERMIT, THEN THE SENSITIVE AREA BUFFERS AND NATIVE GROWTH PROTECTION EASEMENTS SHALL BE CLEARLY MARKED AS PER SECTION 5.4.1 IN ORDER TO ALERT FUTURE BUYERS AND BUILDERS.

EROSION/ SEDIMENTATION CONTROL NOTES

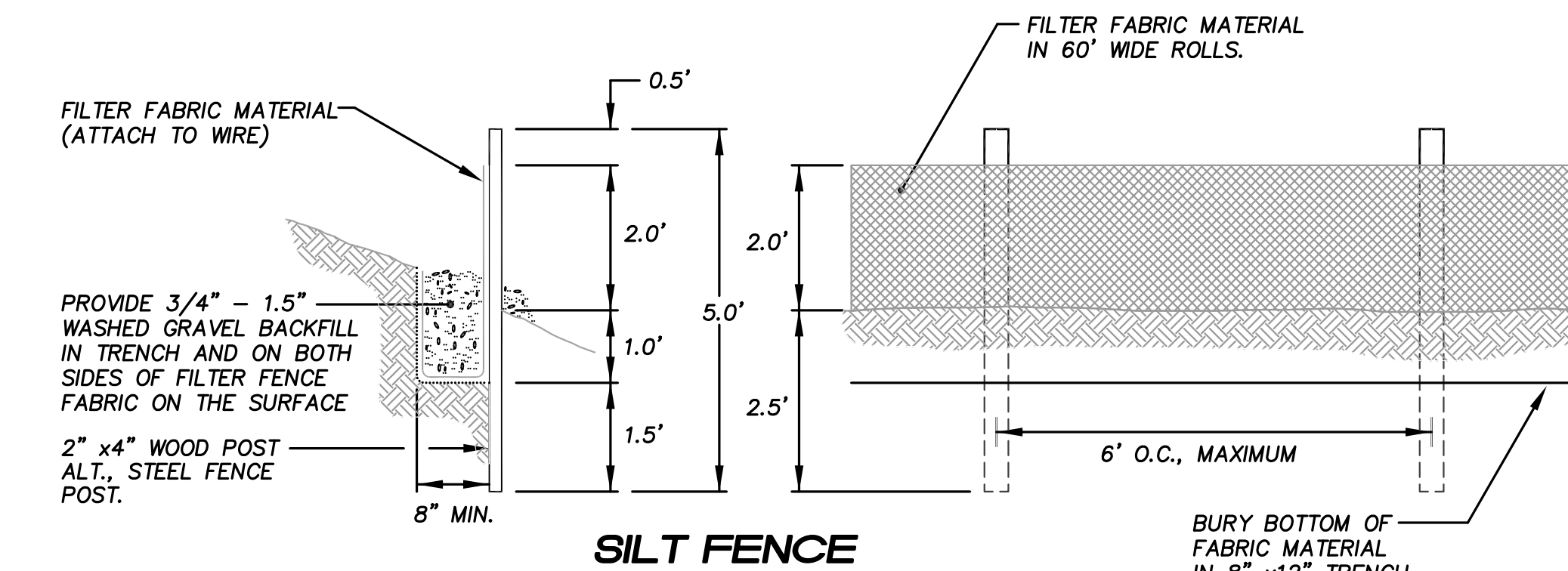
- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT-OF-WAY DOES NOT OCCUR FOR DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR FOR REVIEW.

RECOMMENDED CONSTRUCTION SEQUENCE

- PRE-CONSTRUCTION MEETING.
- POST NOTICE OF CONSTRUCTION ACTIVITY SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- INSTALL THE DISPERSAL TRENCH AND CB #1 TO 6.
- USE EXISTING FOREST VEGETATION FOR FILTRATION OF SILT PARTICLES.
- USE EXISTING DETENTION/WET POND FOR TEMPORARY SEDIMENT AND EROSION CONTROL.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING, GRADING AND UTILITY INSTALLATIONS FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
- STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.

FILTER FABRIC FENCE INSTALLATION NOTES

- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST WITH ALL OTHER PROVISIONS OF STANDARD NOTE 5 APPLY.
- THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL.
- FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.



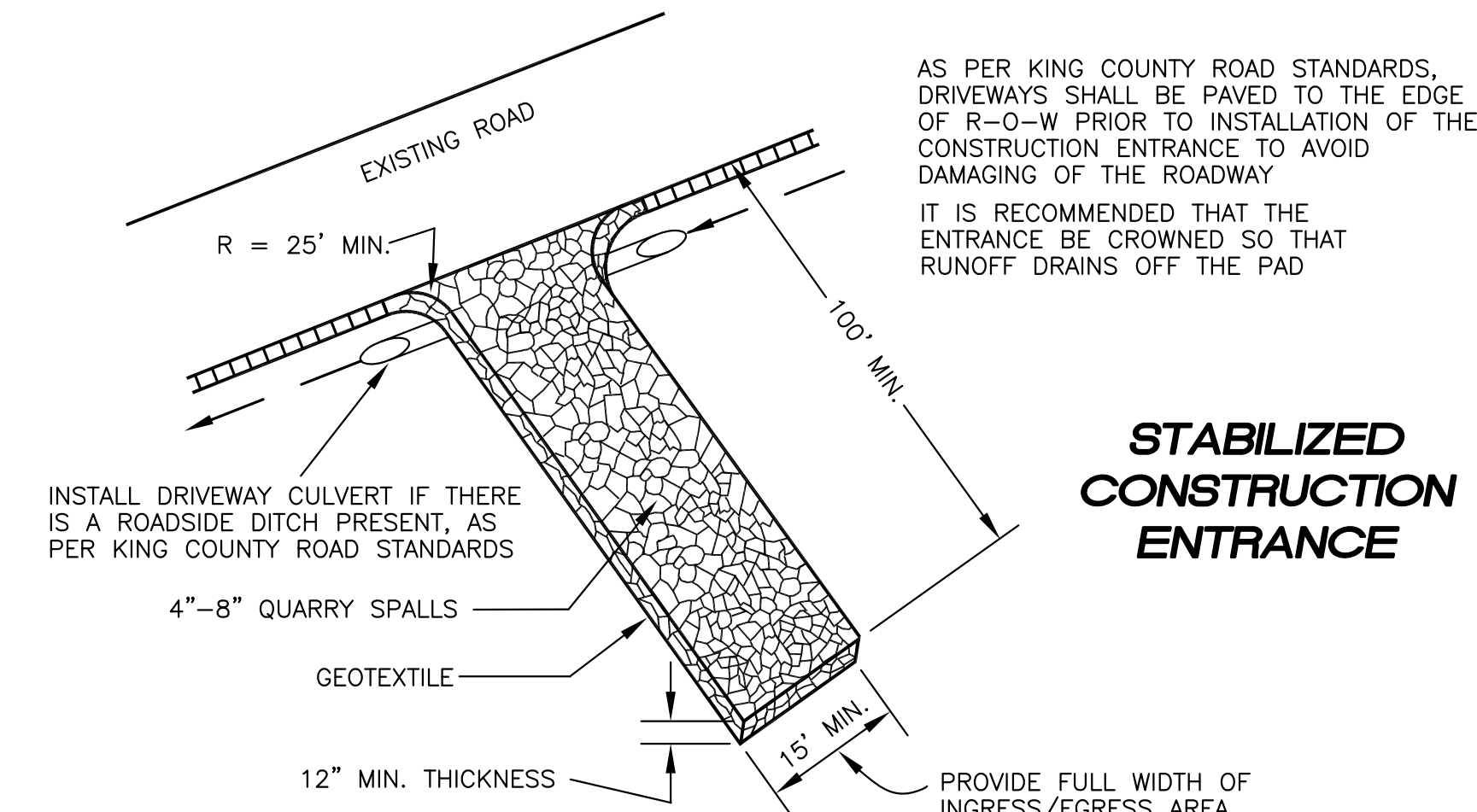
SILT FENCE

PURPOSE

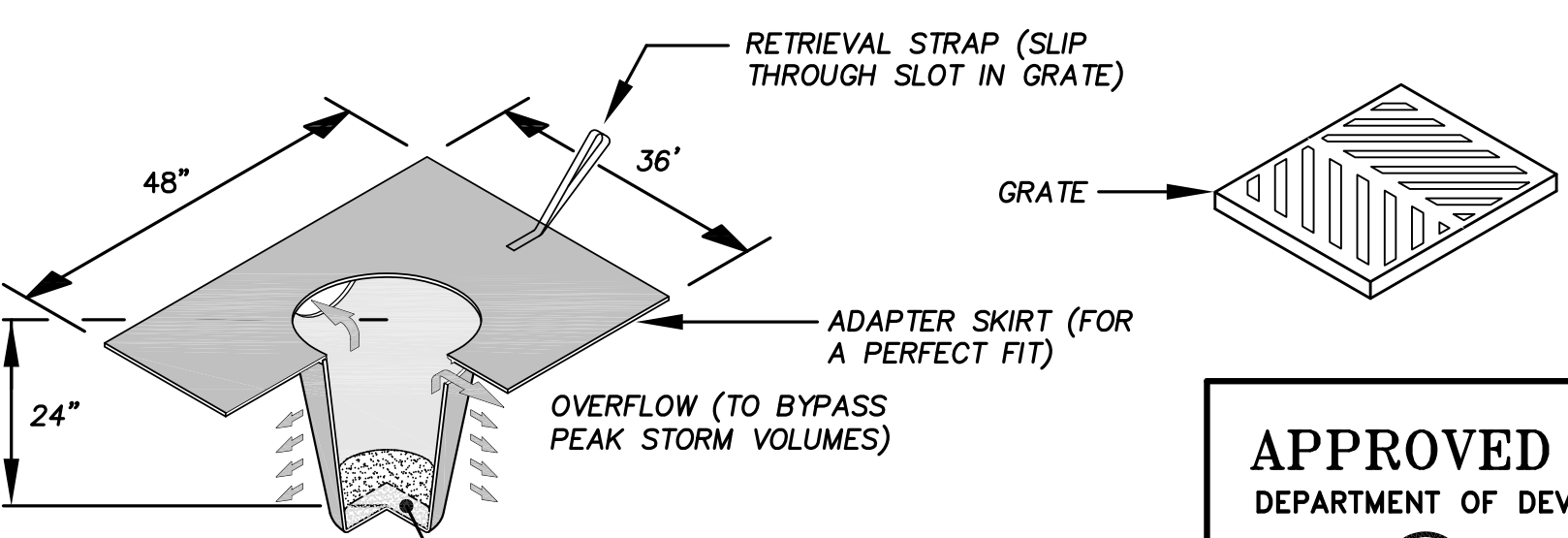
TO RETAIN SEDIMENT FROM VERY SMALL DISTURBED AREAS BY CONSTRUCTION OF A TEMPORARY BARRIER MADE FROM RESIDUE MATERIALS AVAILABLE FOR CONSTRUCTION OF SUCH A BARRIER. NOTE: DOES NOT REPLACE THE NEED FOR A SEDIMENT TRAP OR POND.

CONDITIONS WHERE PRACTICE APPLIES: BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE FOR CONSTRUCTION OF SUCH A BARRIER. NOTE: DOES NOT REPLACE THE NEED FOR A SEDIMENT TRAP OR POND.

DESIGN CRITERIA/SPECIFICATIONS: MINIMUM HEIGHT= 3.0'. MAXIMUM HEIGHT= 5.0'. MINIMUM WIDTH= 5.0' AT ITS BASE. MAXIMUM WIDTH= 15.0'. A FILTER FENCE ANCHORED OVER THE BRUSH BERM MAY BE REQUIRED BY KING COUNTY INSPECTOR TO ENHANCE THE FILTRATION ABILITY OF THE BARRIER.



STABILIZED CONSTRUCTION ENTRANCE



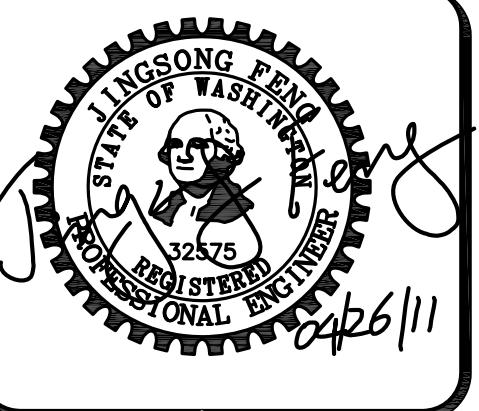
MAXIMUM FLOW RATE OF 500 GPM, INSERTS WILL NOT CAUSE PONDING. FITS ANY SIZE CATCHBASIN UP TO 30\"/>

SEDIMENT FILTER INSERT

APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

King County, Washington

Date _____ Molly A. Johnson, P.E.
Development Engineer



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LAKEHAVEN UTILITY DISTRICT PROJECT No. 6304025
FAM NIWAS CHURCH

KING COUNTY, WA

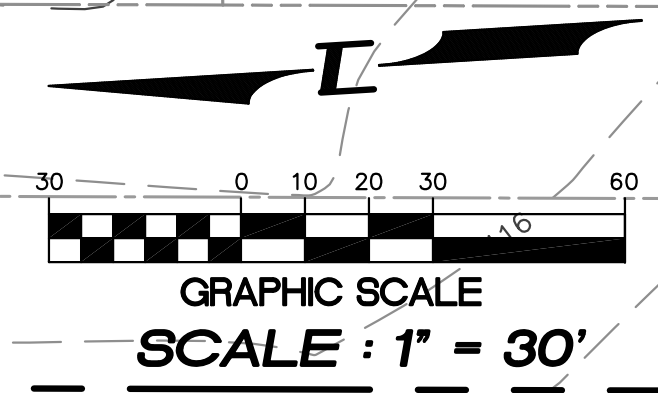
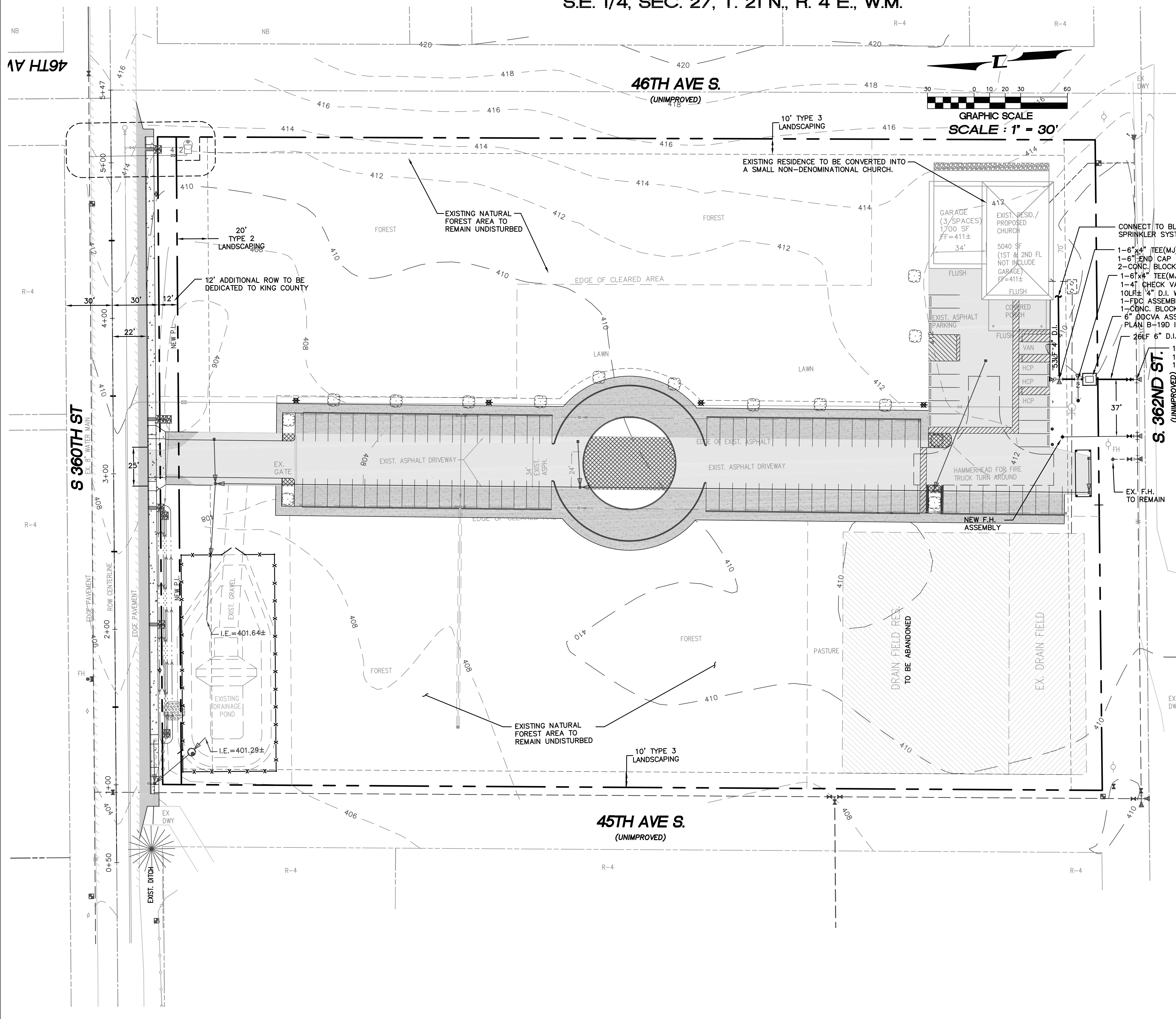
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PROJECT NO.: **10021**
DRAWN BY: **CJB**
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TESC NOTES AND DETAILS

10021TESC01.DWG
C05

S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.



EXISTING RESIDENCE TO BE CONVERTED INTO A SMALL NON-DENOMINATIONAL CHURCH.

20' TYPE 2 LANDSCAPING

12' ADDITIONAL ROW TO BE DEDICATED TO KING COUNTY

EXISTING NATURAL FOREST AREA TO REMAIN UNDISTURBED

EDGE OF CLEARED AREA

LAWN

EXIST. ASPHALT DRIVEWAY

EXIST. ASPHALT DRIVEWAY

10' TYPE 3 LANDSCAPING

EXISTING NATURAL FOREST AREA TO REMAIN UNDISTURBED

45TH AVE S. (UNIMPROVED)

GARAGE (3 SPACES) 1700 SF FF=411±
 EXIST. RESID./ PROPOSED CHURCH 5040 SF (1ST & 2ND FL NOT INCLUDE GARAGE) FF=411±

CONNECT TO BLDG. SPRINKLER SYSTEM

- 1-6"x4" TEE(MJ)
- 1-6" END CAP
- 2-CONC. BLOCKING
- 1-6"x4" TEE(MJ)
- 1-4" CHECK VALVE
- 10LF 4" D.I. WATER
- 1-FDC ASSEMBLY
- 1-CONC. BLOCKING
- 6" DDCVA ASSEMBLY PER LUD STANDARD
- PLAN B-19D IN UTILITY VAULT 676-WA
- 26LF 6" D.I.

- 1- 8"x6" TAP-IN TEE
- 1-6" GATE VALVE W/ VALVE BOX (MJxFL)
- 1-CONC. BLOCKING

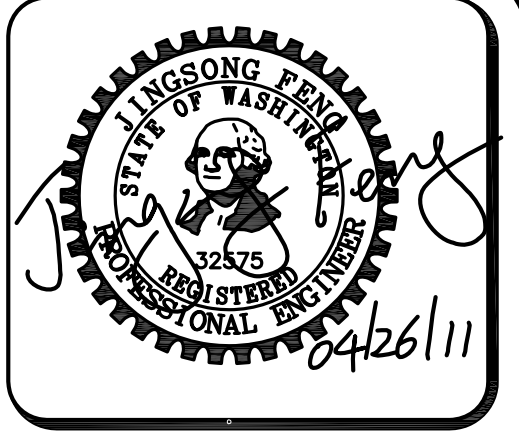
S. 362ND ST. (UNIMPROVED)

NOTE

- BUILDING TO BE EQUIPPED WITH NFPA 13 AUTOMATIC SPRINKLER SYSTEM PER TITLE 17 OF KING COUNTY CODE
- BUILDING TO BE EQUIPPED WITH MONITORED AUTOMATIC FIRE ALARM SYSTEM PER NFPA 72.
- KITCHEN TO EQUIPPED WITH UL300 FIXED FIRE SUPPRESSION SYSTEM

LEGEND

- 465 EXISTING GRADE
- PROPERTY LINE
- TEE WITH CONC. BLOCKING
- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECT
- CHECK VALVE



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Pacific Engineering Design, LLC
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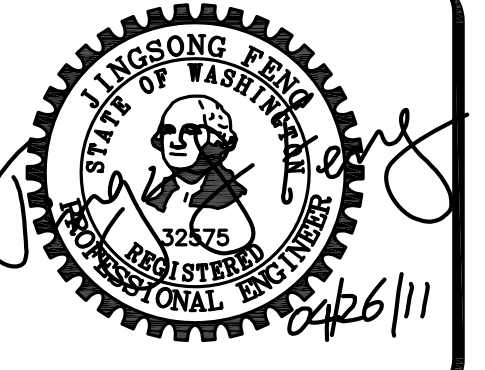
BUILDING PERMIT
RAM NIWAS CHURCH
 KING COUNTY, WA
 FOR: SATGURU RAM SINGH STANG
 10021 WA SE
 BENTON, WA 98058
 PHONE: (206) 304-1911

PROJECT NO.: 10021
 DRAWN BY: ENM
 ISSUE DATE: 7-23-2010
 SHEET REV.: 04-26-2011

WATER PLAN

APPROVED FOR CONSTRUCTION
 DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES
 King County, Washington
 Date _____ Molly A. Johnson, P.E.
 Development Engineer

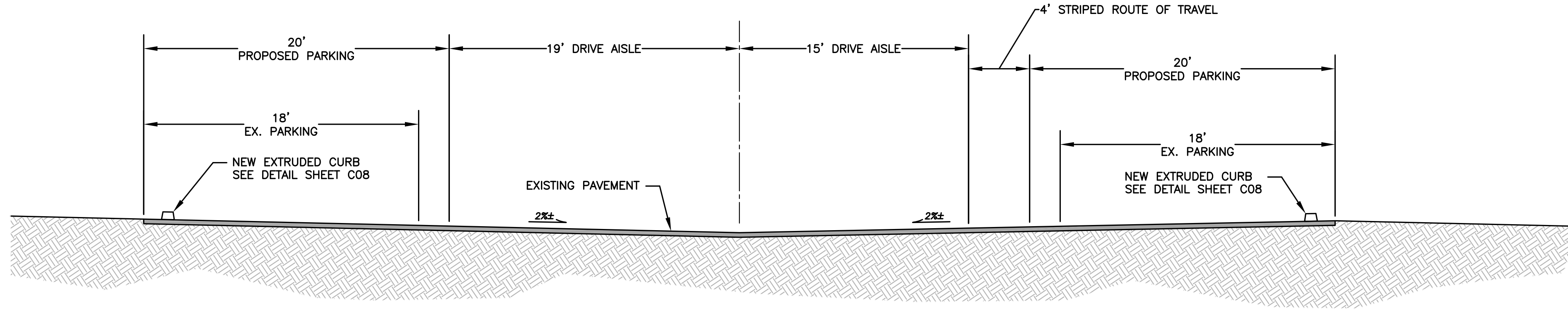
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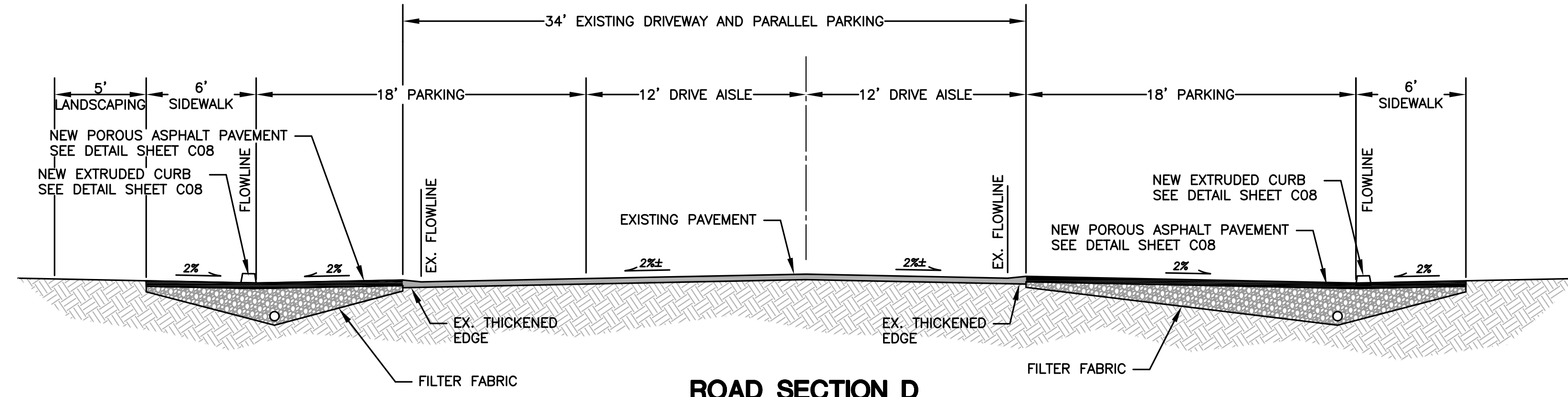
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ROAD SECTION C
N.T.S.



ROAD SECTION D
N.T.S.

LAKEHAVEN UTILITY DISTRICT PROJECT No. 6304025
RAM NIWAS CHURCH
KING COUNTY, WA
FOR: SATOJURU RAM SINGH STANG
15701 138TH PLACE SE
RENTON, WA 98058
PHONE: (206) 304-1911

PROJECT NO.: 10021
DRAWN BY: CJB
ISSUE DATE: 7-23-2010
SHEET REV.: 04-26-2011

ROAD SECTIONS

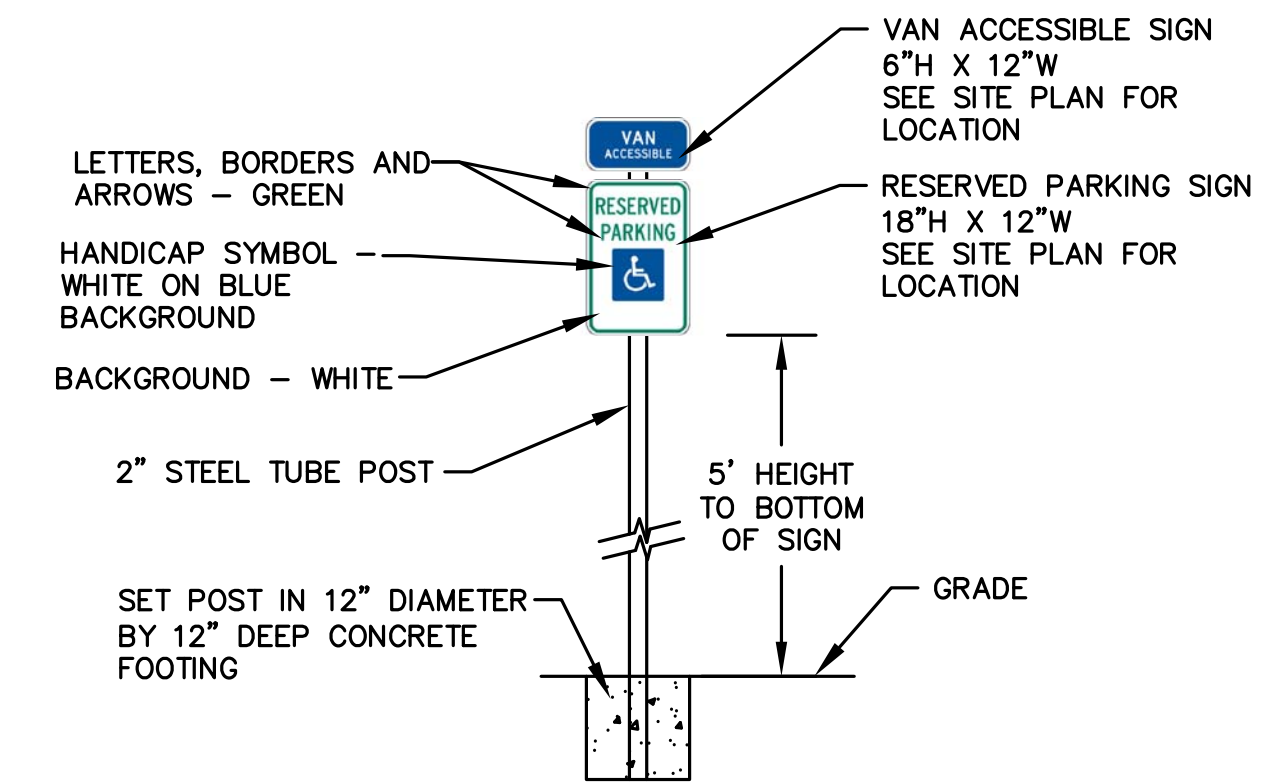
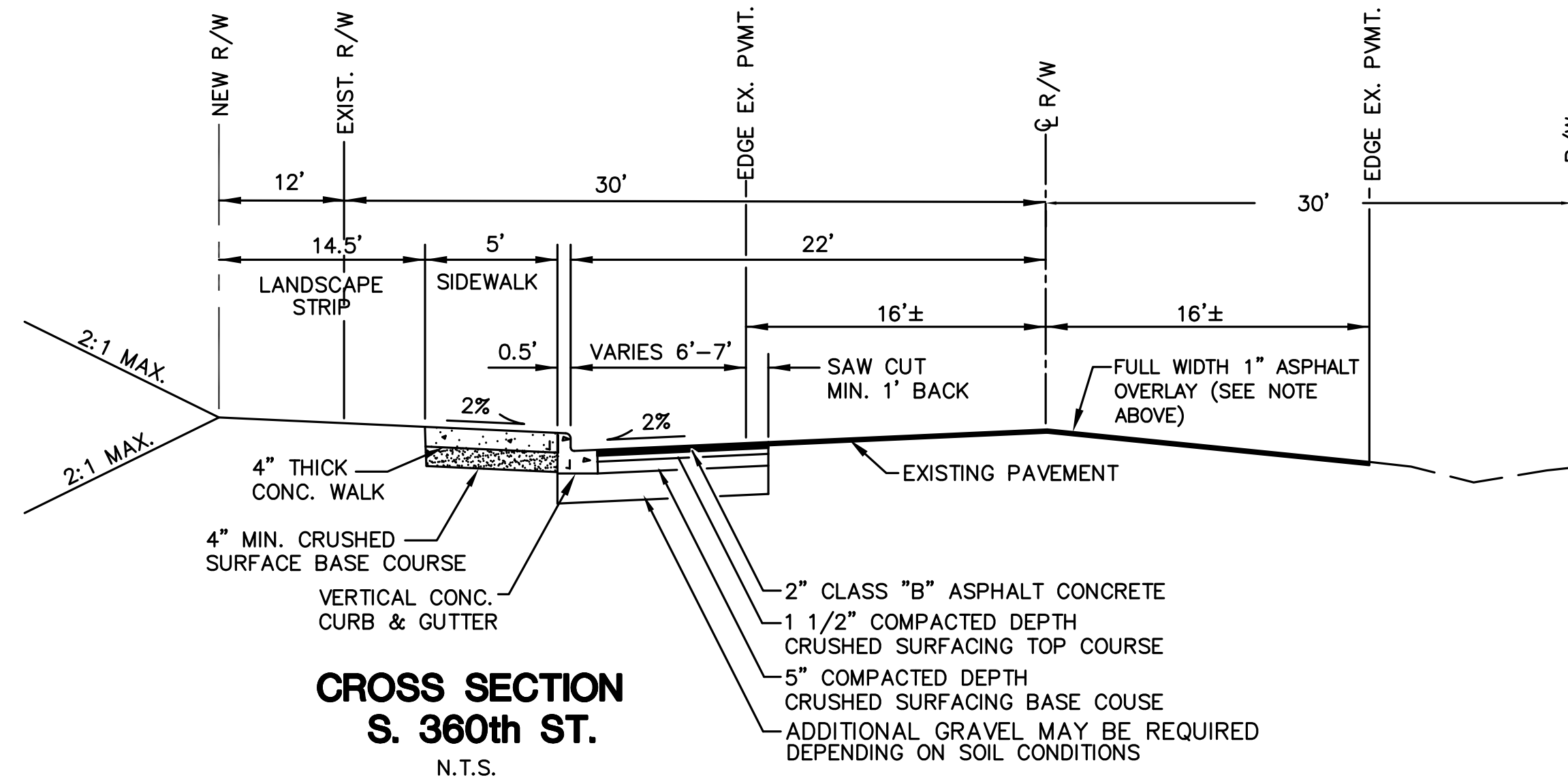
APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES
King County, Washington
Date _____ Molly A. Johnson, P.E.
Development Engineer

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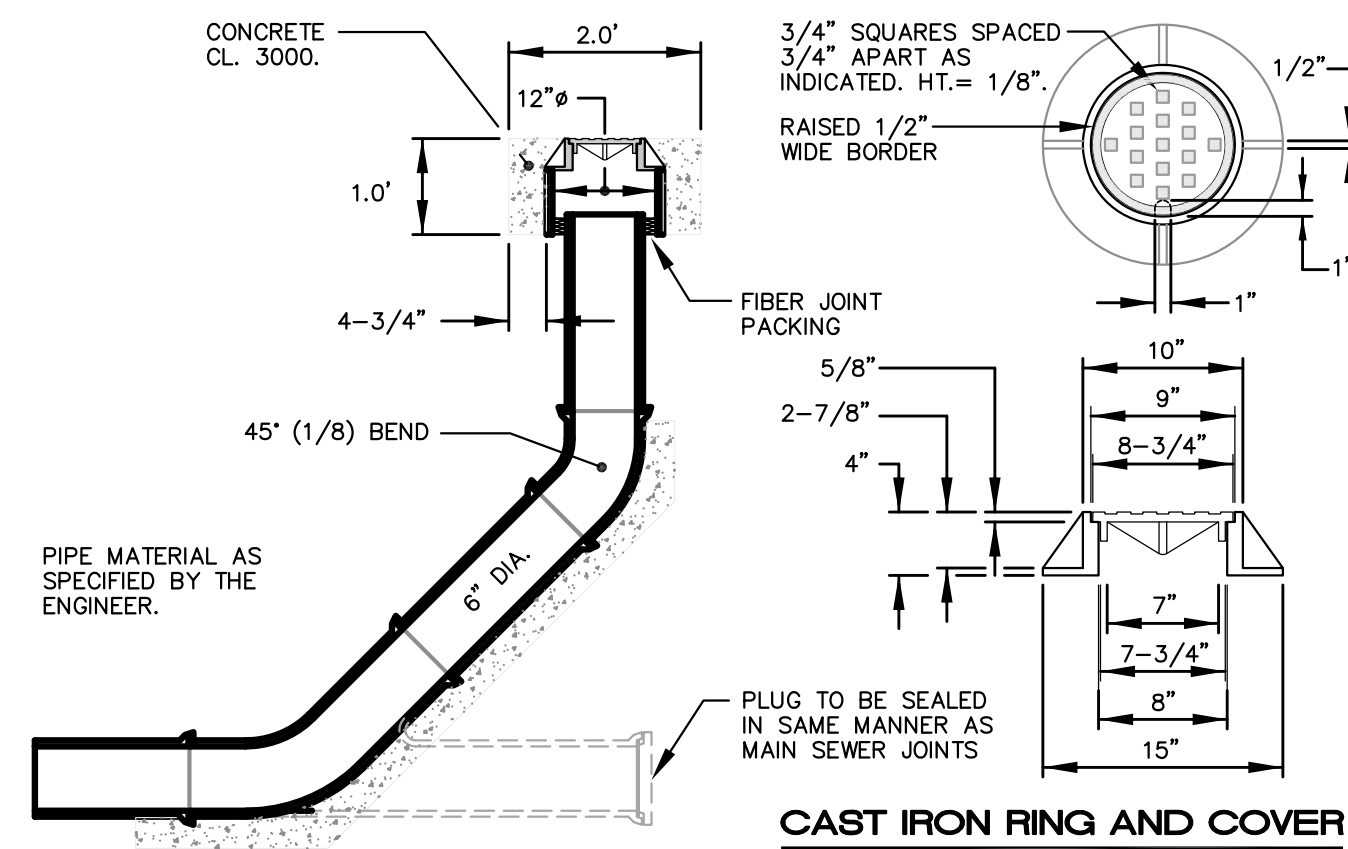
S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.

NOTE: PER KCRS SECTION 4.10F, THE EDGE OF EXISTING PAVEMENT SHALL BE SAWCUT TO PROVIDE A CLEAN, VERTICAL EDGE FOR JOINING TO THE NEW ASPHALT. AFTER PLACEMENT OF THE NEW ASPHALT SECTION, THE JOINT SHALL BE SEALED AND THE STREET OVERLAID 1 INCH, PLUS PRELEVEL COURSE, FULL WIDTH THROUGH THE WIDENED AREA. THE REQUIREMENT FOR OVERLAY MAY BE WAIVED BY THE ENGINEER OR REVIEWING AGENCY BASED ON THE CONDITION OF THE EXISTING PAVEMENT AND THE EXTENT OF REQUIRED CHANGES TO CHANNELIZATION.

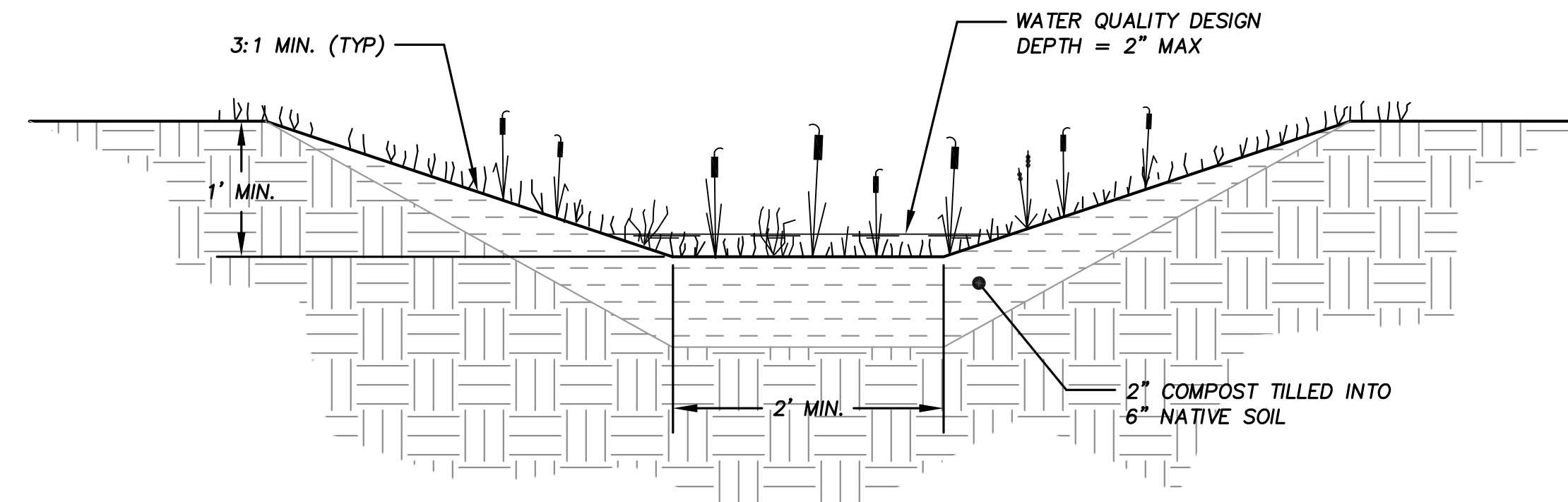
- NOTES:
- FOR WIDTHS OF SIDEWALK SEE SEC. 3.02.
 - FOR WIDTHS OF PAVEMENT AND SHOULDER SEE SECS. 2.02, 2.03, AND 2.04.
 - SHOULDER SHALL BE SURFACED AS REQUIRED BY SECTIONS 3.07 AND 4.01. IF PAVED, SHOULDER SLOPE SHALL MATCH CROWN SLOPE OR .02 FT./FT.
 - FOR CURB AND SIDEWALK JOINTS SEE DWG. NO. 3-001.
 - TRANSITION RAMP SHALL BE TEXTURED WITH TRUNCATED DOME WARNING PATTERN.



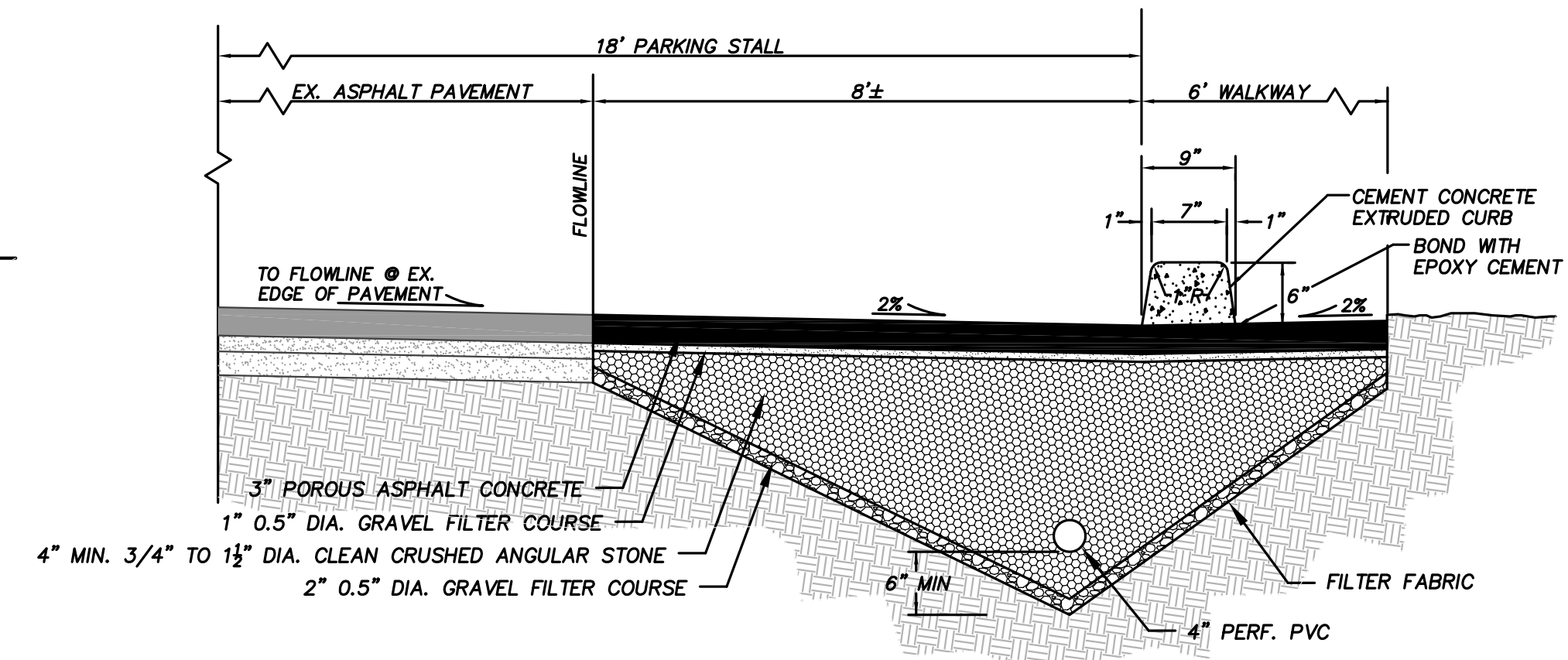
HANDICAP AND VAN ACCESSIBLE SIGN DETAIL
N.T.S.



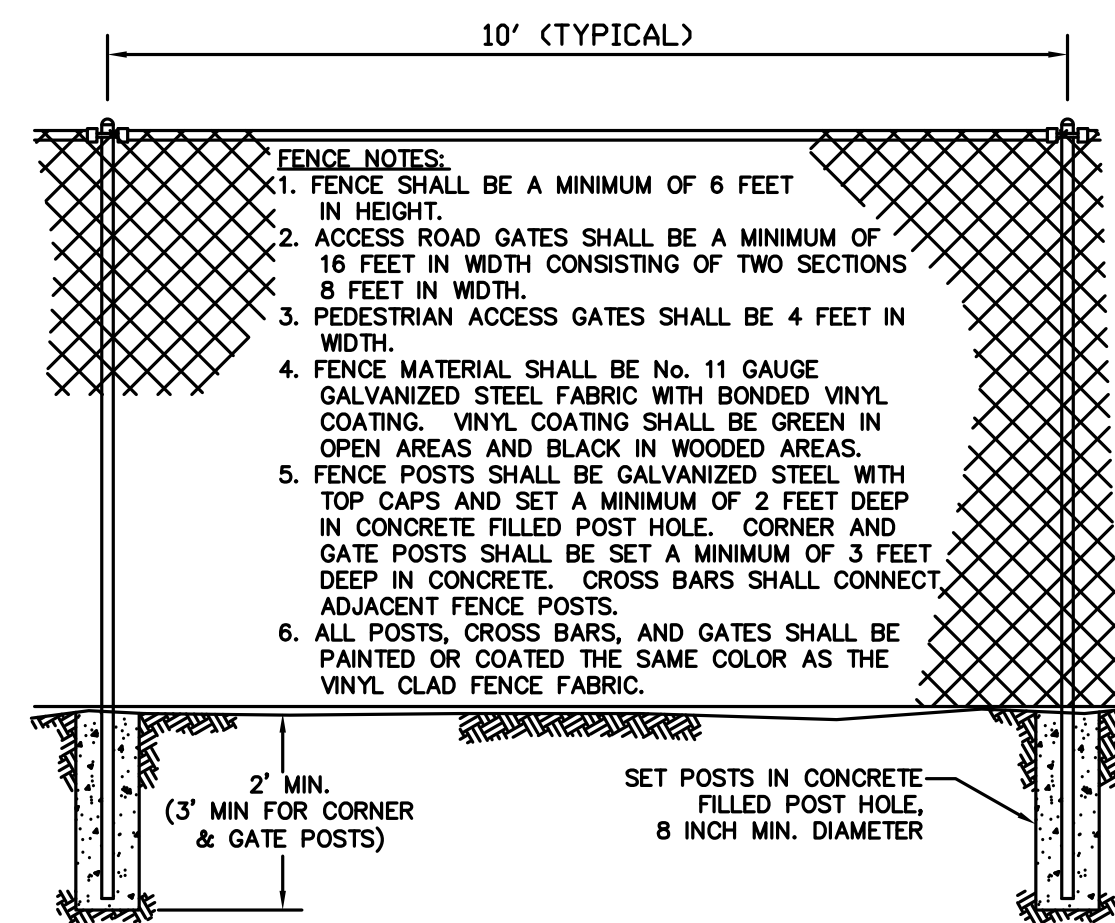
CLEAN OUT
N.T.S.



BIOFILTRATION SWALE SECTION
N.T.S.



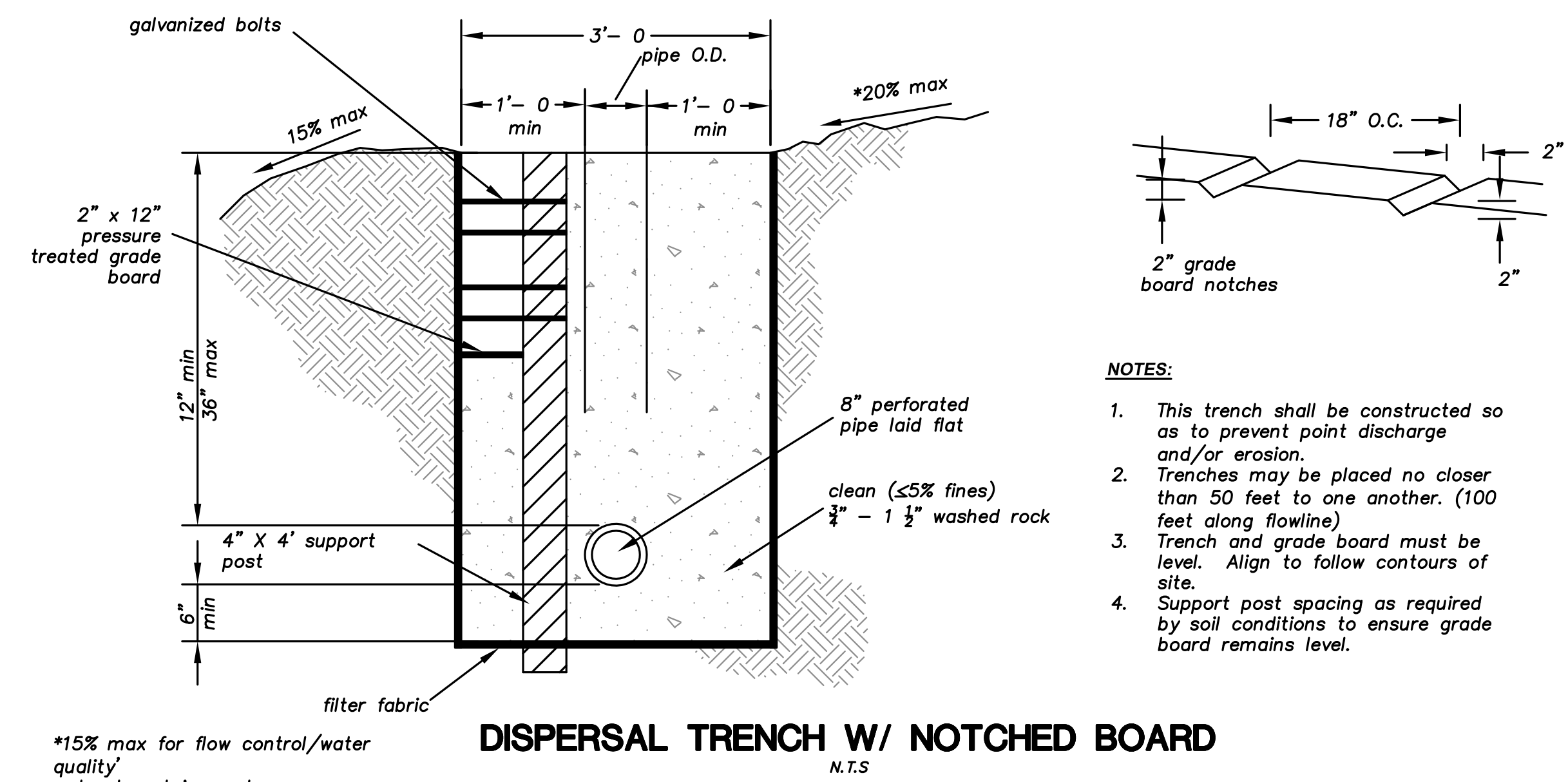
EXTRUDED CURB - ONSITE PAVEMENT SECTION
N.T.S.



DETENTION POND FENCING
N.T.S.
ONLY APPLIES TO THE AREAS SHOWN AS CHAIN LINK FENCE ON THE PLAN

TABLE 6.3.1C GRASS SEED MIXES SUITABLE FOR BIOFILTRATION SWALE TREATMENT AREAS			
MIX 1		MIX 2	
75-80 PERCENT	TALL OR MEADOW FESCUE	60-70 PERCENT	TALL FESCUE
10-15 PERCENT	SEASIDE CREEPING BENTGRASS OR COLONIAL BENTGRASS	10-15 PERCENT	SEASIDE CREEPING BENTGRASS OR COLONIAL BENTGRASS
5-10 PERCENT	REDTOP	10-15 PERCENT	MEADOW FOXTAIL
		6-10 PERCENT	ALSIKE CLOVER
		1-5 PERCENT	MARSHFIELD BIG TREFOIL
		1-6 PERCENT	REDTOP

NOTE: ALL PERCENTAGES ARE BY WEIGHT.



*15% max for flow control/water quality treatment in rural areas.

DISPERSAL TRENCH W/ NOTCHED BOARD
N.T.S.

- NOTES:
- This trench shall be constructed so as to prevent point discharge and/or erosion.
 - Trenches may be placed no closer than 50 feet to one another. (100 feet along flowline)
 - Trench and grade board must be level. Align to follow contours of site.
 - Support post spacing as required by soil conditions to ensure grade board remains level.



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LAKEHAVEN UTILITY DISTRICT PROJECT No. 6304025
RAM NIWAS CHURCH
KING COUNTY, WA
FOR: SATOJURU RAM SINGH STANG
15701 138TH PLACE SE
RENTON, WA 98058
PHONE: (206) 304-1911

D.D.E.S. FILE No.

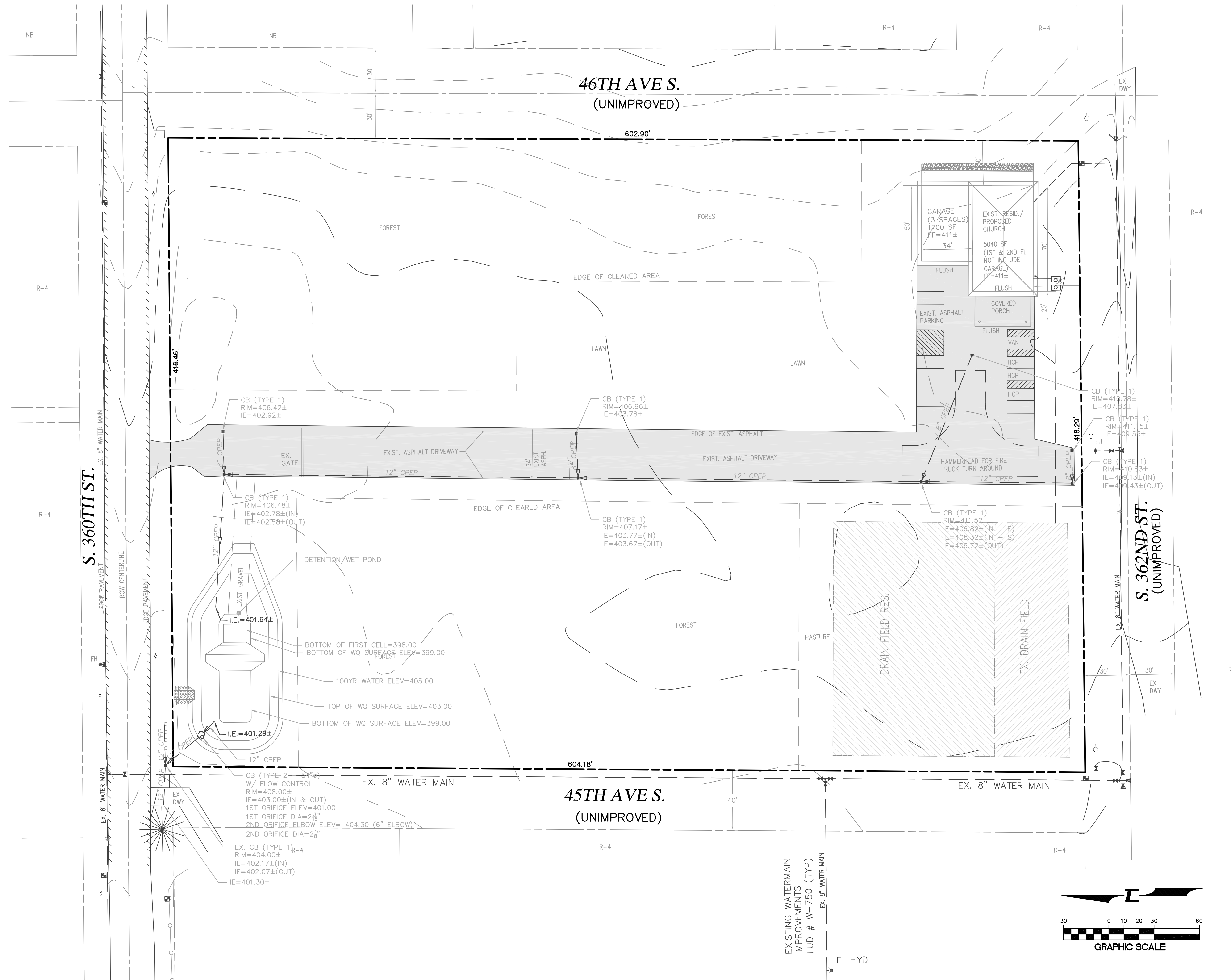
PROJECT NO.: 10021
DRAWN BY: CJB
ISSUE DATE: 7-23-2010
SHEET REV.: 04-26-2011

DRAINAGE AND PAVING DETAILS

APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES
King County, Washington
Date _____ Molly A. Johnson, P.E.
Development Engineer

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C08

S.E. 1/4, SEC. 27, T. 21 N., R. 4 E., W.M.



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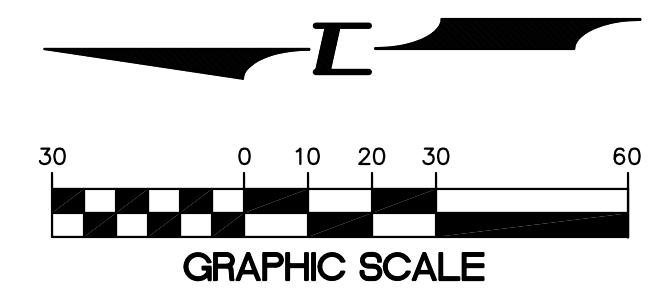
LAKEHAVEN UTILITY DISTRICT PROJECT No. 630821
RAM NIWAS CHURCH
KING COUNTY, WA

FOR: SATOJURU RAM SINGH STANG
15701 138TH PLACE SE
RENTON, WA 98058
PHONE: (206) 304-1911

PROJECT NO.: 10021
DRAWN BY: CJB
ISSUE DATE: 7-23-2010
SHEET REV.:

EXISTING CONDITIONS

10021E001.DWG
C09



EXISTING WATERMAIN IMPROVEMENTS
LUD # W-750 (TYP)
EX. 8" WATER MAIN
F. HYD