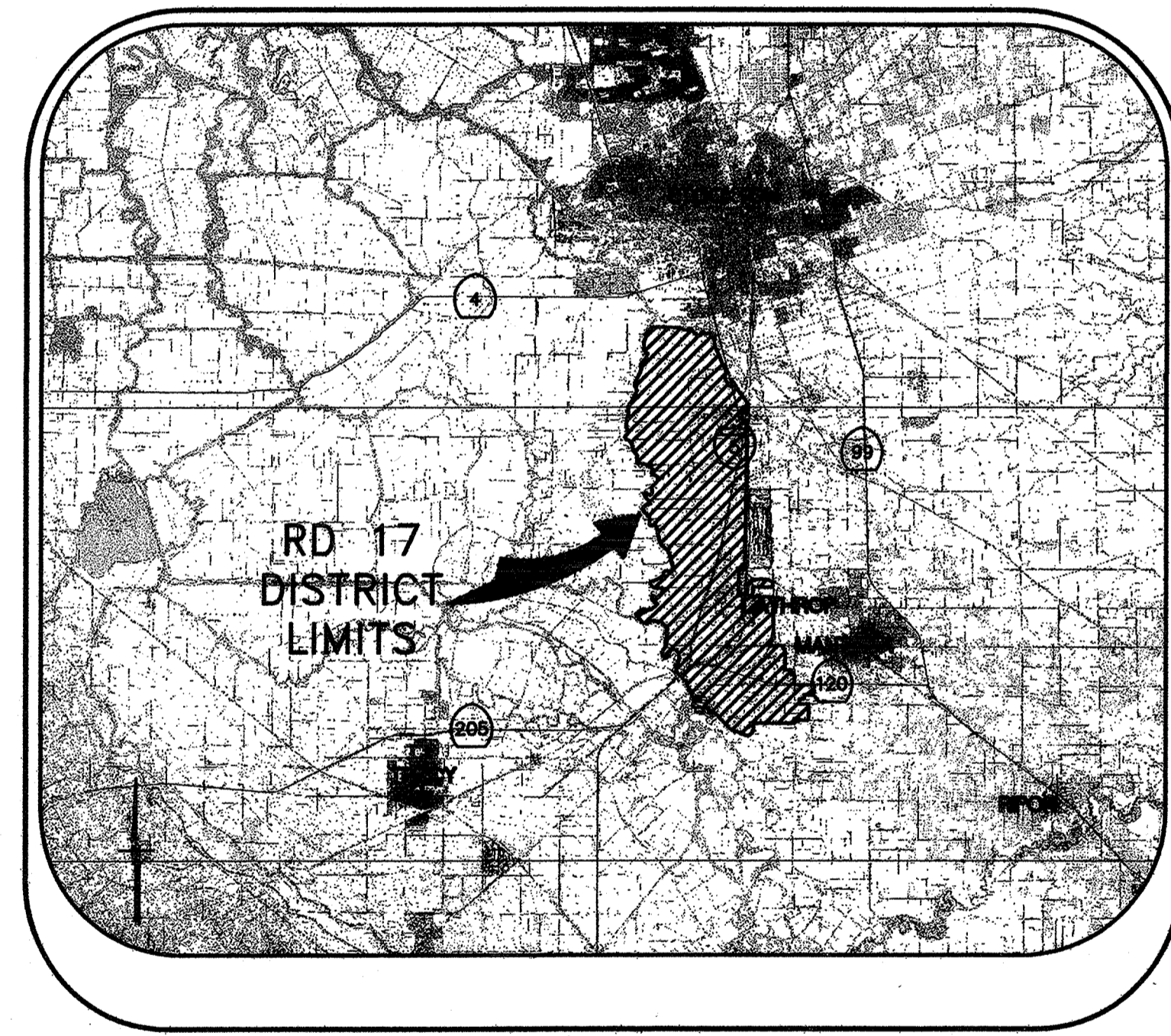
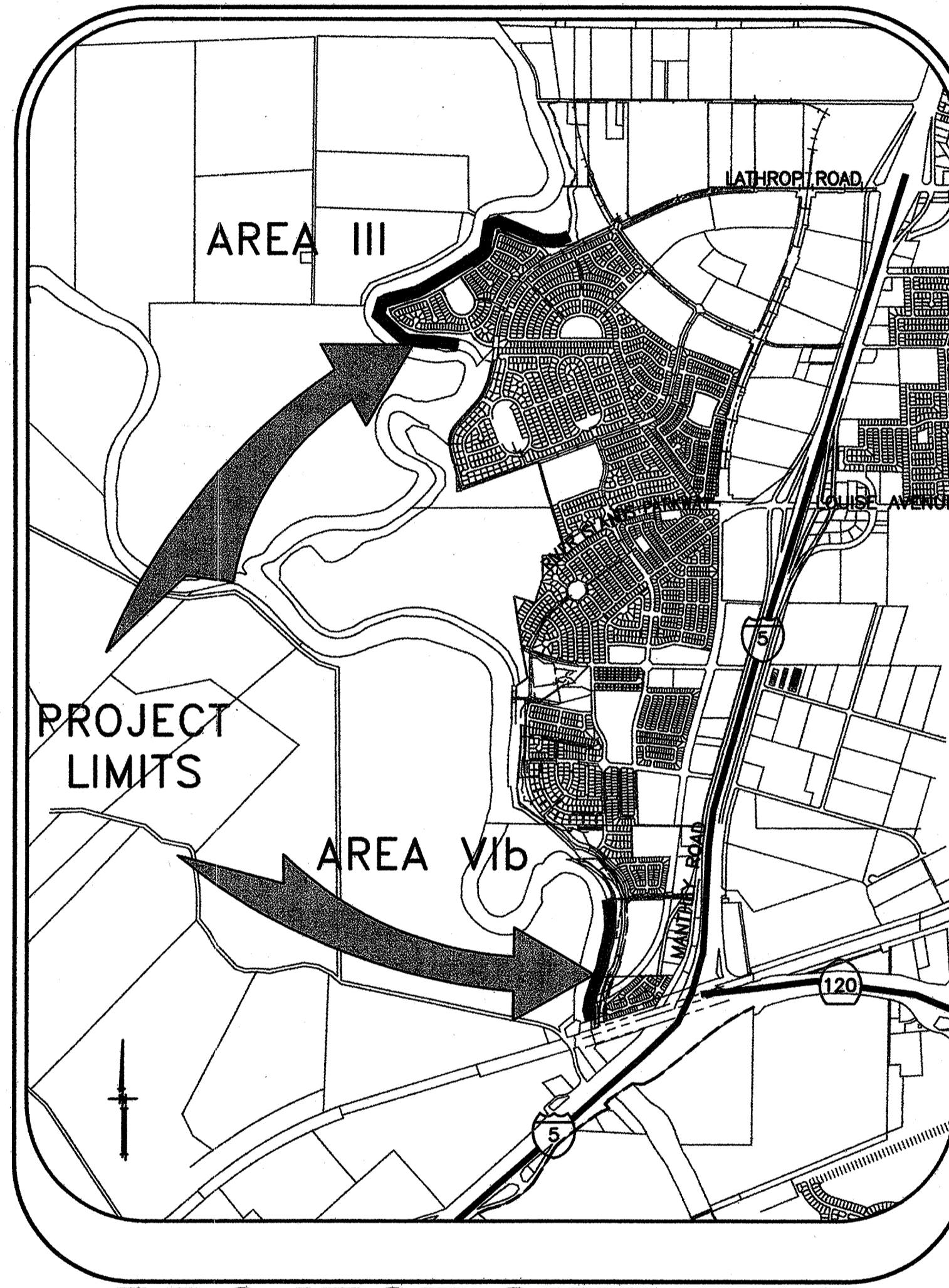


RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT AREAS III AND VIb



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	GRADING PLAN (AREA III)
6A	GRADING PLAN (AREA VIb)
7.	SELECTED CROSS SECTIONS FOR QUANTITIES (AREA III)
8.	SELECTED CROSS SECTIONS FOR QUANTITIES (AREA VIb)

INDEX

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
GARY OSTERHOUT
No. 35233
EXP. 9/30/09
CIVIL
STATE OF CALIFORNIA

GARY OSTERHOUT RCE #35233
EXP. 9/30/09

WARNING • CAUTION

EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:

REGISTERED PROFESSIONAL ENGINEER
KJELSDEN SINNOCK NEUDECK
No. 43473
EXP. 9/30/2010
CIVIL
STATE OF CALIFORNIA

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711 N. Pershing Avenue
Stockton, CA 95201-0844
Offices: (209) 946-0263
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT AREAS III & VIb DATED SEPTEMBER 15, 2008

REGISTERED PROFESSIONAL ENGINEER
JOSEF TOOLE
No. 16618
EXP. 9/30/2010
CIVIL
STATE OF CALIFORNIA

INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

REGISTERED PROFESSIONAL ENGINEER
GARY OSTERHOUT
No. 35233
EXP. 9/30/09
CIVIL
STATE OF CALIFORNIA

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.

**RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT**

COVER SHEET

SAN JOAQUIN COUNTY CALIFORNIA

	DATE: 9.22.2008	PROJECT NO. 25126.03
	SCALE: NOT TO SCALE	SHT 1
	DRAWN BY: EUN	OF 8
	DESIGNED BY: JSL	
	CHECKED BY: GO	
	2/2/09 7 DATE	



- CONTROL POINTS**
- P1- N=2123580.40 E= 6327847.96 START SEEPAGE BERM (CL STATION 515+50)
 - P2- N=2121715.53 E=6326101.44 END SEEPAGE BERM (CL STATION 569+50)
 - P3- N=2121651.90 E=6326694.72 FND REBAR L.S. 4876 PER TRACT MAP 3533
 - P4- N=2121650.91 E=6328675.89 FND IP L.S. 4876 PER TRACT MAP 3533
 - P6- N=2112509.87 E=6328785.22 START SEEPAGE BERM (CL STATION 741+05)
 - P7- N=2110618.76 E=6328412.65 END SEEPAGE BERM (CL STATION 760+50)
 - P8- N=2112517.40 E=6328724.51 FND IP L.S. 7960 PER TRACT MAP 3438
 - P9- N=2112541.760 E=6329535.17 FND IP L.S. 7960 PER TRACT MAP 3438
- VERTICAL CONTROL POINTS**
- P5- N=2122614.90 E=6325486.531 ELEV=25.87 M&S SURVEY CONTROL PT# 9355
 - P10- N=2112783.577 E=6328667.725 ELEV 29.30 M&S SURVEY CONTROL PT# 9117

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT. THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF THE RECLAMATION DISTRICT, DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 [Signature]
 CIVIL ENGINEER
 No. 55233
 Exp. 9/30/09
 STATE OF CALIFORNIA
 SEPTEMBER 30, 2009

PLANS REVIEWED AND APPROVED BY:

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 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT AREAS III & VIIb DATED SEPTEMBER 15, 2008

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

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 MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.

RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=2000'	SHT 2
DRAWN BY: EJJN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
NO. AS-BUILT	DATE 2/17/09
REVISION	

ROLES:

THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELSDEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

THE "DESIGN ENGINEER" MEANS MACKAY AND SOMPS, CIVIL ENGINEERS INC. THE DESIGN ENGINEER WILL PERFORM DISTRICT PROVIDED CONSTRUCTION STAKING AND "AS-GRADED" SURVEYS.

THE "GEOTECHNICAL ENGINEER" MEANS ENGED INC. THE GEOTECHNICAL ENGINEER WILL PROVIDE MATERIALS TESTING, COMPACTION TESTING AND OTHER GEOTECHNICAL RELATED TESTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, INCLUDING SCHEDULING AND ALL SAFETY MATTERS.

GENERAL NOTES:

- PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRECONSTRUCTION CONDITIONS (E.G. ROADS, PUMPS DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEE AND ROAD SYSTEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
- THE DISTRICT WILL FURNISH ALL RIGHT-OF-WAY FOR ALL LEVEE ROADS AND DESIGNATED ACCESS HAUL ROADS. THE CONTRACTOR WILL SECURE RIGHT-OF-WAY FOR ALL OTHER AREAS NOT UNDER THE DISTRICT'S JURISDICTION.
- IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE DISTRICT LEVEE ROADS AND/OR PUBLIC ROADS, UNLESS OTHERWISE APPROVED.
- MAXIMUM SPEED LIMIT ON DISTRICT LEVEE ROADS IS 30 MPH, OR AS POSTED. MAXIMUM SPEED LIMIT THROUGH AND ALONG TM TRACT 3526, QUERLO ROAD AND SADLER OAK DRIVE SHALL BE 20 MPH IN ORDER TO MINIMIZE DISTURBANCE TO LOCAL RESIDENTS AND TO MAINTAIN SAFETY IN AREAS WHERE LOCAL TRAFFIC AND THE PUBLIC MAY BE PRESENT. CONTRACTOR SHALL POST LARGE SLOW/CAUTION SIGNS AND SPEED LIMIT SIGNS FOR PURPOSES OF NOTIFYING BOTH CONTRACTOR'S EMPLOYEES AND THE PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFETY AT ALL TIMES ALONG ALL HAUL ROUTES AND IN ALL PROJECT AREAS (PUBLIC AND PRIVATE).
- THE DISTRICT WILL PROVIDE LOCATIONS AND ACCESS OF THE DESIGNATED PROJECT SITES WITH START AND STOP POINTS, AND WILL PROVIDE OFFSET SURVEY STAKES MARKED HORIZONTAL DISTANCE AND VERTICAL CUT/FILL TO TOE OF BERM AT 100' INTERVALS ALONG EACH OF THE PROJECT SITES TO BE UTILIZED BY THE CONTRACTOR FOR SETTING ELEVATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING AND SURVEYING BEYOND THAT PROVIDED BY THE DISTRICT AS DESCRIBED IN NOTE 8 ABOVE.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER OR THE GEOTECHNICAL ENGINEER.
- ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR DISTRICT, SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER, AND HE SHALL NOTIFY THE ENGINEER WHENEVER THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- THE INTENT OF THESE PLANS ARE TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS.
- THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HAZARDOUS MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.

1. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

DUST AND MUD CONTROL:

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, FILL AREAS, HAUL ROADS, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD. CONTRACTOR SHALL FURNISH EFFORTS NECESSARY TO MINIMIZE DUST AND OTHER DISTURBANCES NEAR EXISTING RESIDENCES AND ALL BUILDINGS NEAR HAUL ROUTES AND THE PROJECT SITE.
 - CROP DAMAGE: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL TO PREVENT CROP DAMAGE AND FOR ANY AREAS IN ADDITION TO THOSE MENTIONED THAT GENERATE DUST AND/OR OTHER CONDITIONS WHICH MIGHT DAMAGE CROPS.
 - NON WORK DAYS: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT INCLUDING NON WORKDAYS IN ALL PROJECT AREAS, INCLUDING CONSTRUCTION ROADS AND CROP AREAS WHICH ARE USED BY THE CONTRACTOR, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

2. THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK FOR DUST CONTROL FOR EACH OF THE FOLLOWING AREAS:

- PROJECT AREAS
- ACCESS AND HAUL ROADS
- LEVEE TOE BERM FILL AREAS
- OTHER CONSTRUCTION USE AREAS
- CROP DAMAGE PREVENTION
- RESIDENTIAL BUILDING AREAS

UTILITY NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444).
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES AND IRRIGATION AND DRAINAGE FACILITIES INCLUDING, BUT NOT LIMITED TO, SIPHONS, DITCHES, CROSSINGS, DISTRIBUTION BOXES, SLIDE GATES, ETC., DURING THE TERM OF THE CONTRACT. THE EXISTING IRRIGATION AND DRAINAGE FACILITIES MUST REMAIN FULLY OPERATIONAL DURING THE PERIOD OF CONSTRUCTION.

POWER LINES:

- THE CONTRACTOR SHALL TAKE NOTE OF THE POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION SHALL BE EXERCISED WHILE WORKING AROUND THE LINE LINES.
- IF POWER POLES, LINES AND GUY WIRES ARE WITHIN THE IMMEDIATE WORK AREA, CONTRACTOR SHALL ADHERE TO ALL SAFETY STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.
- FILL AROUND POLES SHALL BE PLACED AND COMPACTED IN A MANNER SO AS TO AVOID ANY ADVERSE IMPACTS TO THE INTEGRITY OF THE EXISTING POLES AND POWER SYSTEM.

TRAFFIC CONTROL:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 0242B "TRAFFIC CONTROL".

CLEANUP:

- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.
- THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL ACCESS ROADS, HAUL ROADS, AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND THE DISTRICT.

CONSTRUCTION NOTES:

ACCESS ROADS:

- THE CONTRACTOR SHALL IMPROVE, MAINTAIN, AND REPAIR UPON COMPLETION, THE ACCESS ROADS AND HAUL ROUTES AS REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE REPAIR AREAS.
- THE CONTRACTOR SHALL REVIEW THE ACCESS ROAD ROUTES AND DETERMINE THE LOCATION FOR TURNOUTS, RAMPS, ROAD DRAINAGE, ALIGNMENT, ETC. UPON COMPLETION OF THE PROJECT, SOME PORTIONS OF THE ACCESS ROADS MAY REQUIRE MINOR MODIFICATIONS AND ALTERATIONS. THE ACCESS ROADS WHICH REMAIN SHALL BE LEFT IN GOOD CONDITION FOR THE DISTRICT, FARMERS, AND OTHER LOCAL TRAFFIC.
- THE ACCESS ROUTES FOR THIS PROJECT MAY REQUIRE THE CONTRACTOR TO MODIFY AND REWORK THE GRADING OF THE EXISTING ROADS TO MEET THE CONTRACTOR'S HAULING AND ROAD DRAINAGE REQUIREMENTS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING ANY NECESSARY IMPROVEMENTS, MODIFICATIONS, AND ALTERATIONS TO MEET HIS REQUIREMENTS AND FOR THE MAINTENANCE OF ALL ACCESS ROADS AND HAUL ROUTES.
- THE CONTRACTOR'S EQUIPMENT SHALL BE RESTRICTED TO OPERATE ONLY ON THOSE ROADS AND WITHIN THOSE SPECIFIED WORK AREAS INDICATED ON THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER, DISTRICT, AND LANDOWNERS.
- THE CONTRACTOR SHALL EXTEND, STRENGTHEN, REPLACE, OR OTHERWISE MODIFY THE EXISTING CROSSINGS (E.G. CULVERTS, SIPHONS, DRAIN PIPES, IRRIGATION PIPES, PUMP DISCHARGE PIPES, WET SPOTS, ETC.) AS NECESSARY TO ACCOMMODATE HIS EQUIPMENT. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NECESSARY TO PRESERVE, PROTECT, AND MAINTAIN THE CROSSINGS SO AS TO ENSURE CONTINUOUS AND UNINTERRUPTED CONSTRUCTION OPERATIONS DURING THE ENTIRE TERM OF THIS CONTRACT.
- THE HAUL ROADS MAY REQUIRE TEMPORARY IRRIGATION OR DISCHARGE PIPE EXTENSIONS AND RAMPING DURING CONSTRUCTION OPERATIONS. TEMPORARY EXTENSIONS AND RAMPING WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT HIS EXPENSE, INCLUDING REMOVAL IF REQUIRED, IN A MANNER WHICH MEETS WITH THE APPROVAL OF THE ENGINEER AND THE LANDOWNERS.
- NEITHER THE DISTRICT NOR THE ENGINEER MAKES ANY WARRANTY OR GUARANTEE AS TO THE ADEQUACY OF THE EXISTING MATERIALS TO SUPPORT THE CONSTRUCTION TRAFFIC ON THE ACCESS ROADS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING THE NECESSARY IMPROVEMENTS AND PROVIDING THE NECESSARY MEASURES REQUIRED TO ACCOMMODATE HIS ANTICIPATED NEEDS.
- CONTRACTOR MUST MAINTAIN ACCESS BY THE DISTRICT AND/OR PUBLIC (AS APPLICABLE) ON THE ROADS USED AT ALL TIMES DURING CONSTRUCTION.

CLEARING & GRUBBING:

- UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED BY THE DISTRICT.
- USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & BURIED ELECTRICAL CABLES.
- ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE.
- ALL AREAS WITHIN THE LIMITS TO RECEIVE THE IMPORT EMBANKMENT FILL MATERIAL SHALL BE CLEARED AND GRUBBED.
- SOME PRUNING/TRIMMING/THINNING OF BRANCHES OR TREES MAY BE REQUIRED.

LEVEE SEEPAGE BERM FILL:

- THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED FILL MATERIALS TO THE DESIGNATED SEEPAGE BERM SITES.
- THE FILL SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES AND SPECIFICATIONS.
- ALL SUBGRADE AREAS RECEIVING THE FILTER DRAIN MATERIAL SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL SUBGRADE PREPARATION WORK WITHIN THE FILL AREAS PRIOR TO THE ACCEPTANCE OF THE MATERIAL.
- THE CONTRACTOR SHALL DELIVER THE FILL MATERIALS TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS. SEGREGATION OF MATERIAL SHALL BE AVOIDED AND EACH LAYER OF MATERIAL, AS SPREAD, SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.

- THE FILL MATERIALS SHALL BE PLACED IN LOOSE HORIZONTAL LAYERS NOT MORE THAN EIGHT INCHES (8") IN THICKNESS PRIOR TO COMPACTION. THE MATERIAL SHALL BE GENTLY SPREAD OUT. UNDER NO CIRCUMSTANCES SHALL ANY MATERIAL BE DROPPED FROM ANY HEIGHT ONTO THE FILL SECTION.
- IF SEGREGATION OCCURS, MATERIAL SHALL BE WORKED UNTIL IT IS UNIFORMLY AND SATISFACTORILY BLENDED. AFTER SPREADING, THE MATERIAL SHALL BE WATERED AND SHAPED TO THE REQUIRED SECTION AND THEN COMPACTED AS SPECIFIED.
- AT THE TIME MATERIALS ARE SPREAD, IT SHALL HAVE A MOISTURE CONTENT IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. SUCH MOISTURE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL.

FINISHING AND SLOPING GRADING:

- THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

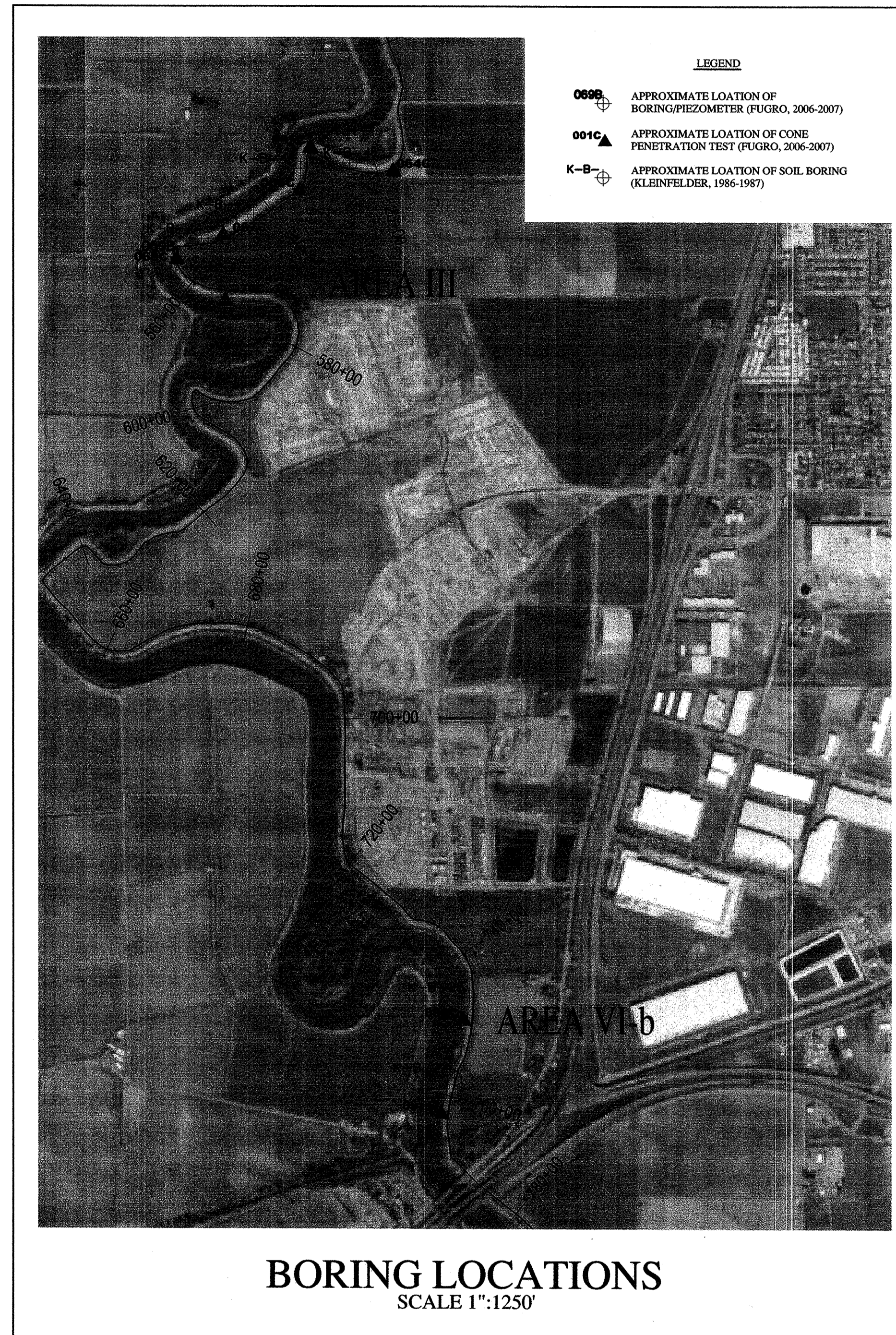
- COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- THE DISTRICT WILL RETAIN ENGED, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGED, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT, GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND EMBANKMENT FILL MATERIALS.

GEOTEXTILE FABRIC:

- GEOTEXTILE FABRIC SHALL BE CONTECH C70/06 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.
- THE GEOTEXTILE FABRIC SHALL BE PLACED WITHIN THE AREA DESIGNATED FOR FILL BETWEEN THE TOE BERM FILL AND THE FILTER DRAIN ROCK MATERIAL.
- MEASUREMENT AND PAYMENT WILL BE BY THE SQUARE FOOT (FT) NEAT AND BASED UPON THE FABRIC PLACED WITHIN THE DIMENSIONS AND LOCATIONS DESIGNATED AND ACCEPTED BY THE ENGINEER.
- MEASUREMENT OF THE FABRIC PLACED DOES NOT INCLUDE OVERLAPS AS REQUIRED.



RECORD DRAWING

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REGISTERED PROFESSIONAL ENGINEER
 GARY OSTERHOUT
 No. 35233
 EXP. 9/30/09
 CIVIL
 STATE OF CALIFORNIA

Gary Osterhout 2/17/09
 GARY OSTERHOUT RCE #35233
 EXPIRES: SEPTEMBER 30, 2009

PLANS REVIEWED AND APPROVED BY:

KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors

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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT AREAS III & VB DATED SEPTEMBER 15, 2008

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

REGISTERED PROFESSIONAL ENGINEER
 JOSEF TOOTH
 No. 2877
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 STATE OF CALIFORNIA

PLANS PREPARED UNDER THE DIRECTION OF:

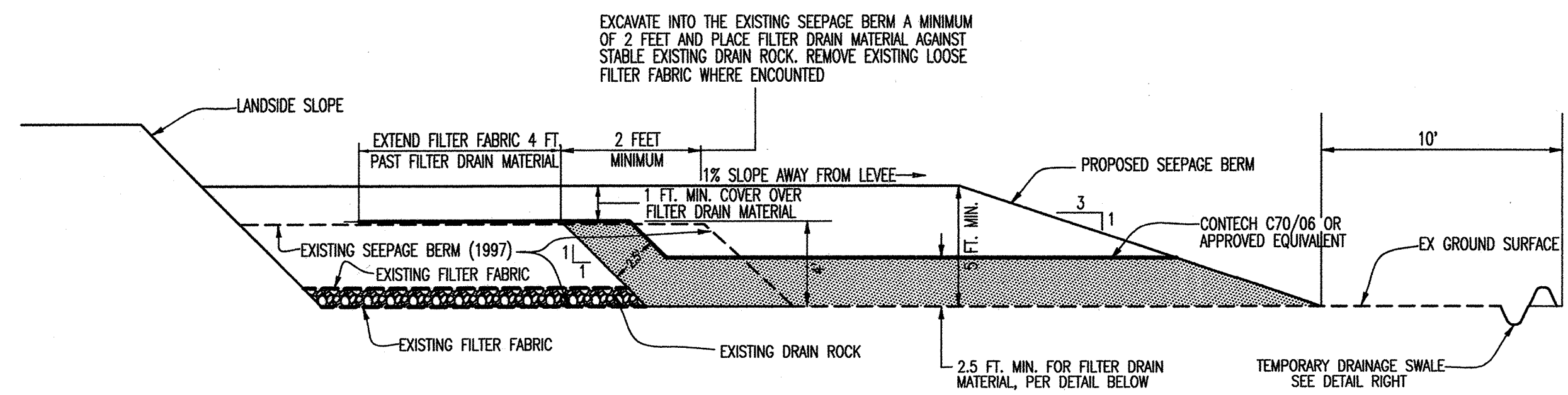
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REGISTERED PROFESSIONAL ENGINEER
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 CIVIL
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 NOTES & BORING LOCATIONS

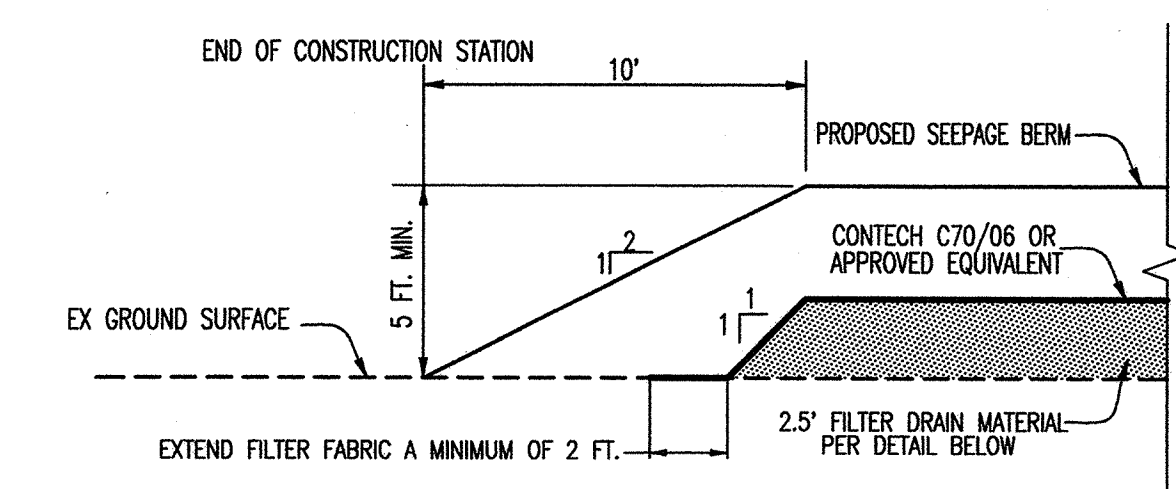
SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE:	SHT 3
DRAWN BY: EJM	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
DATE: 2/17/09	



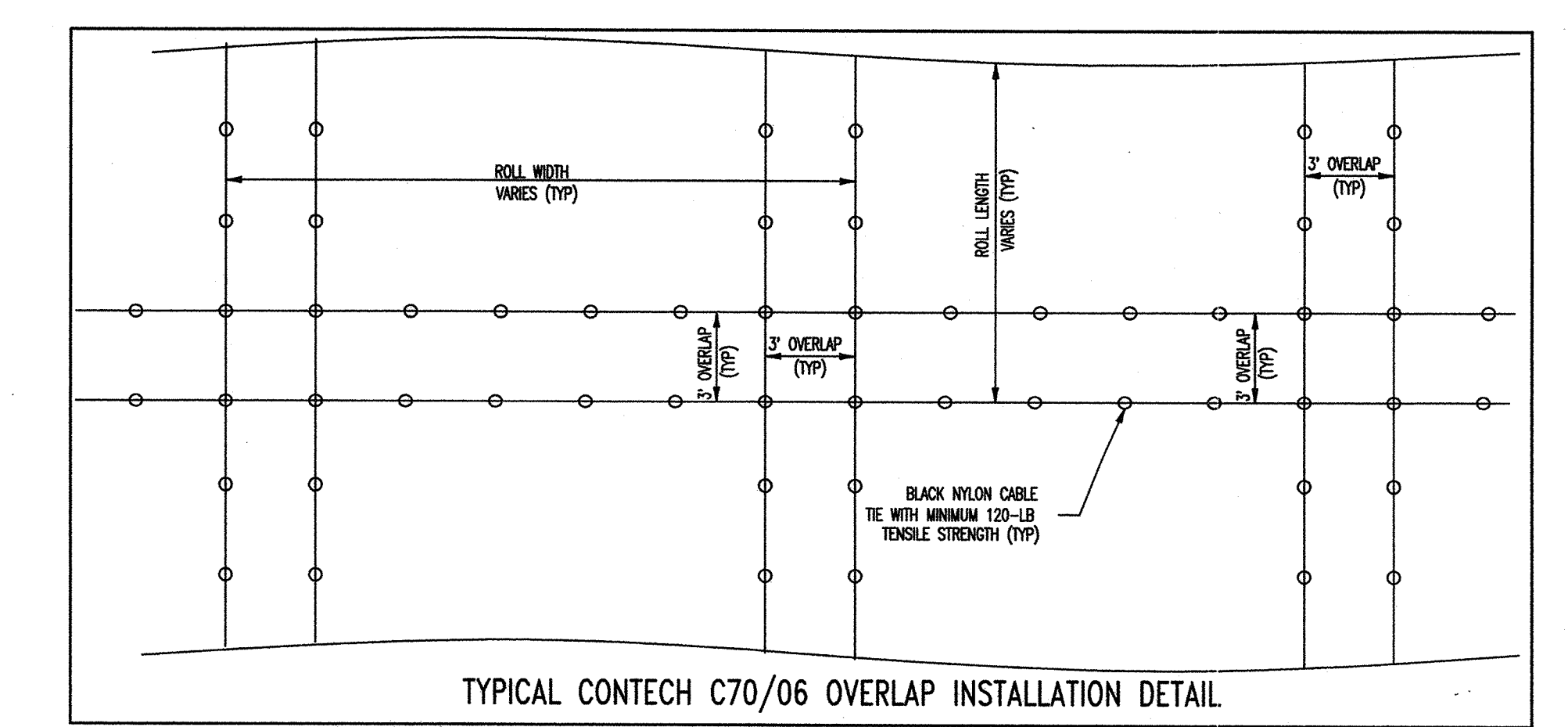
TYPICAL SECTION 1

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM OVER EXISTING SEEPAGE BERM
STATIONING 555+50± THRU 564+80± & 741+05± THRU 760+50±

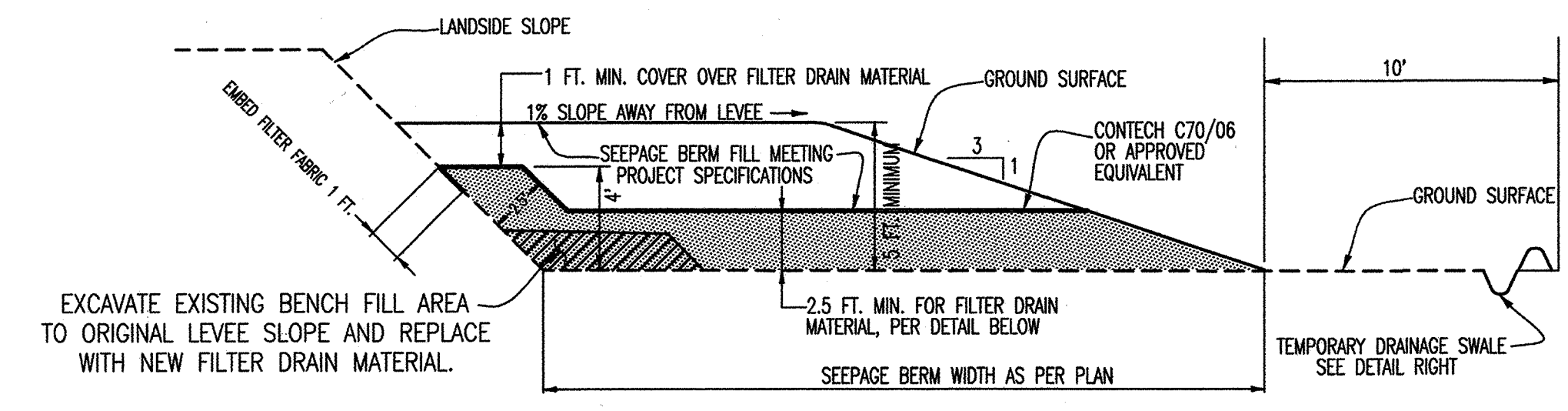


TYPICAL TRANSITION SECTION 4

NTS
TYPICAL BERM END TRANSITION DETAIL (SECTION CUT PARALLEL TO LEVEE)

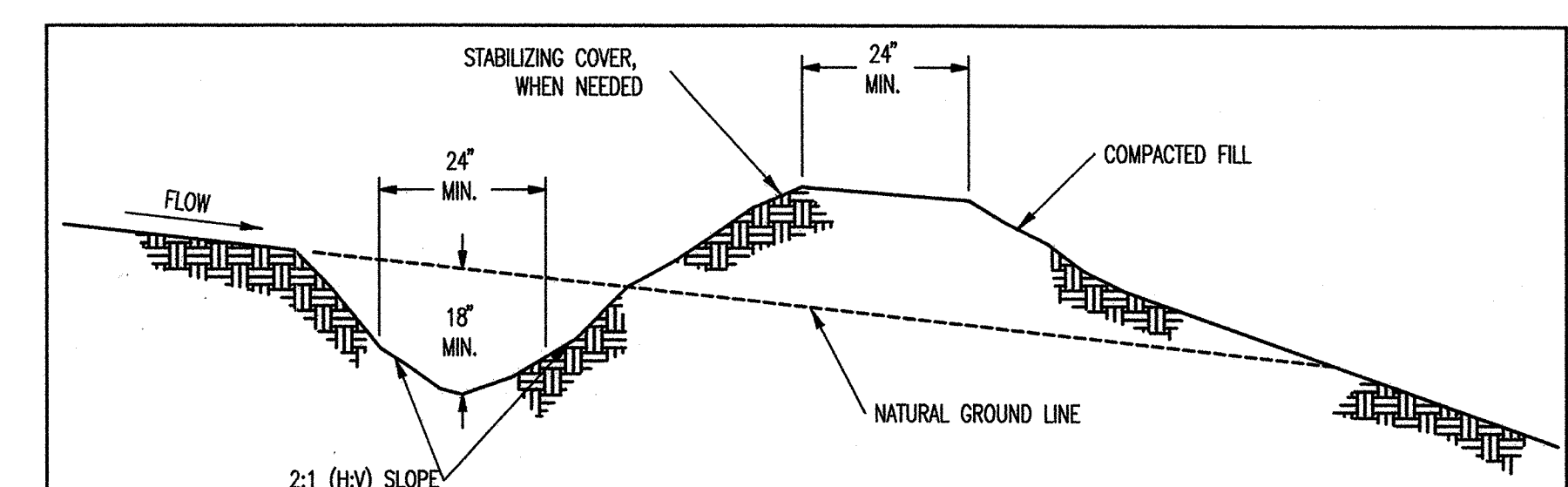


TYPICAL CONTECH C70/06 OVERLAP INSTALLATION DETAIL



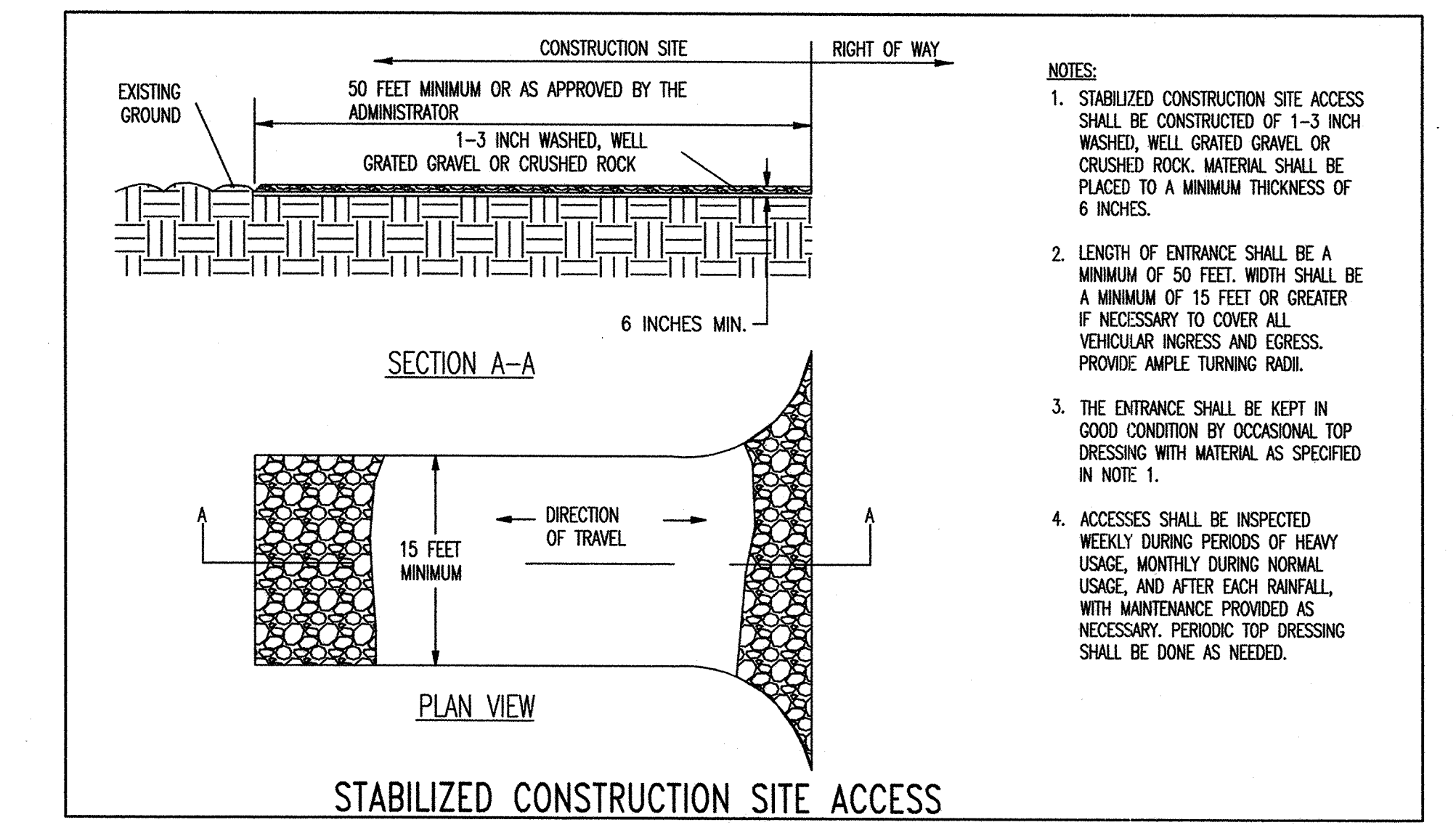
TYPICAL SECTION 2

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM AGAINST LANDSIDE OF THE LEVEE. (WHERE THERE IS AN EXISTING BENCH FILL OF UNKNOWN ORIGIN)
STATIONING 521+00± THRU 548+50±



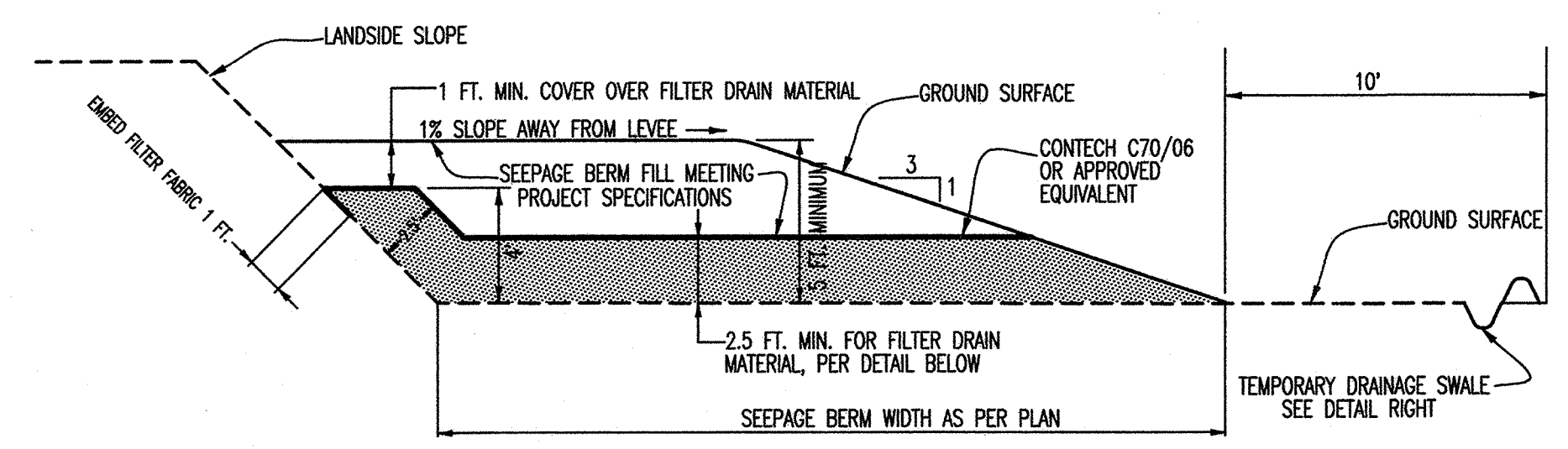
TYPICAL TEMPORARY DRAINAGE SWALE (EROSION CONTROL)

- NOTES:
1. STABILIZE INLET, OUTLETS AND SLOPE.
2. PROPERLY COMPACT THE SUBGRADE.
3. SWALE TO BE REMOVED UPON COMPLETION OF SEEPAGE BERM CONSTRUCTION



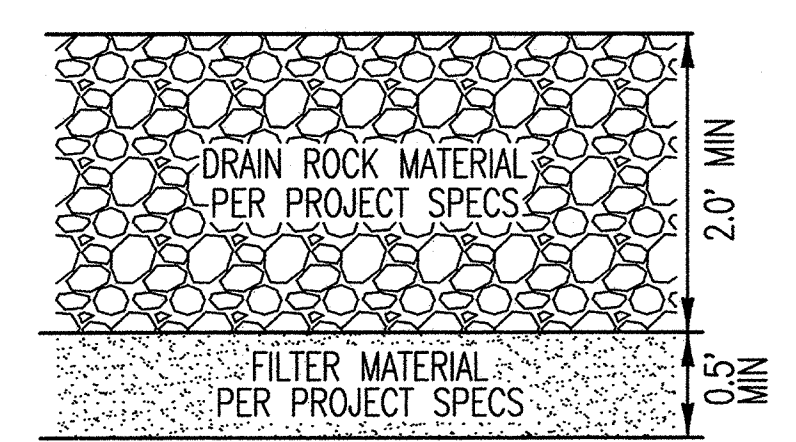
STABILIZED CONSTRUCTION SITE ACCESS

- NOTES:
1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1-3 INCH WASHED, WELL GRATED GRAVEL OR CRUSHED ROCK. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6 INCHES.
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MINIMUM OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.
3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN NOTE 1.
4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

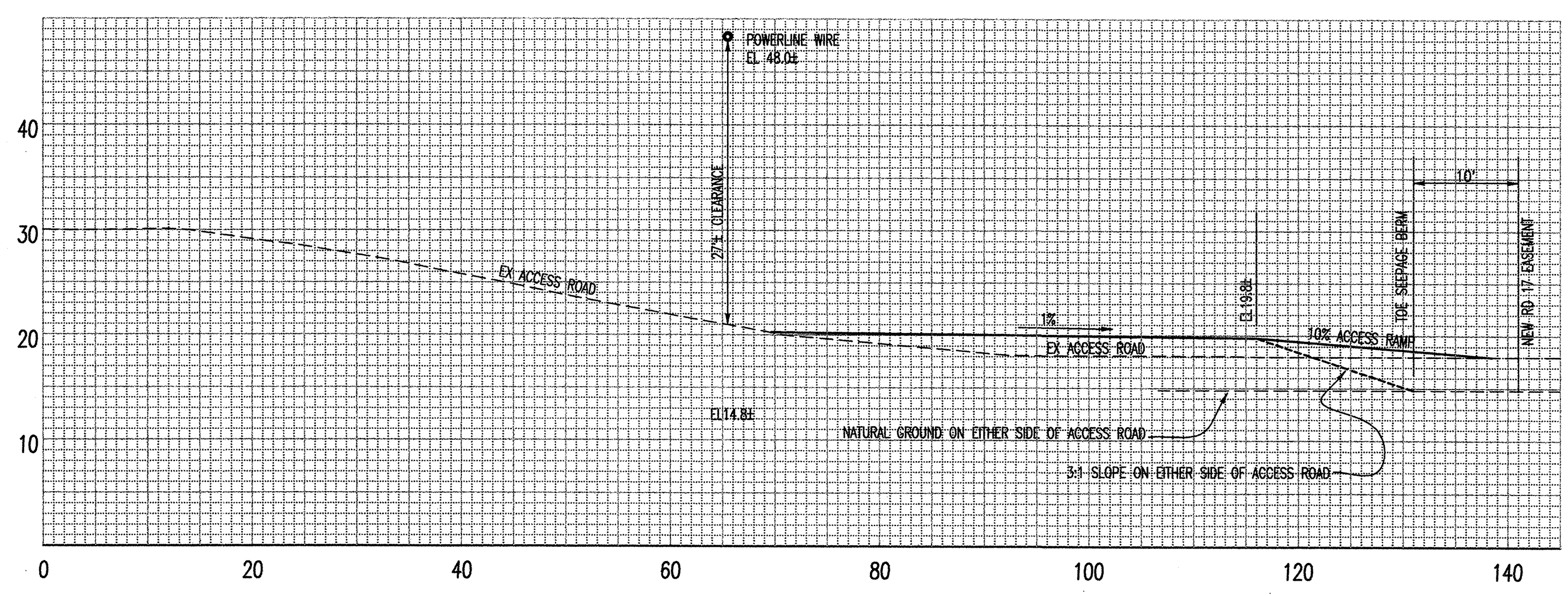


TYPICAL SECTION 3

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM AGAINST LANDSIDE OF THE LEVEE. (WHERE THERE IS NOT AN EXISTING SEEPAGE BERM) (EXCLUDING GAPS AT PUMPS)
STATIONING 515+50± THRU 521+00±/564+80± THRU 569+50±



FILTER DRAIN MATERIAL DETAIL



SECTION 5
STATION 754+02
ACCESS ROAD TO LEVEE
NTS

RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
No. 35233
EXP. 9/30/09
GARY OSTERHOUT RCE #35233
EXP. SEPTEMBER 30, 2009

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

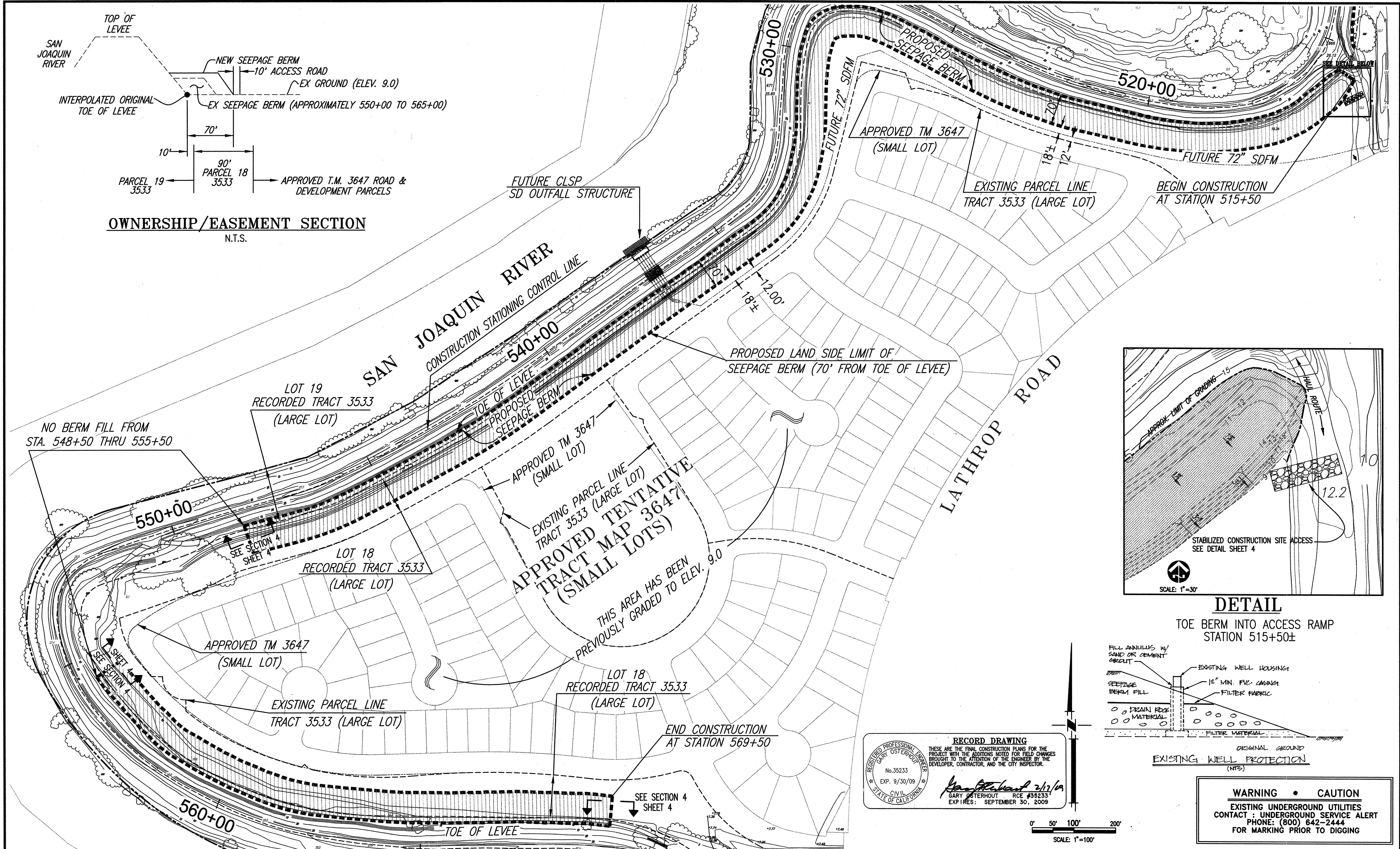
PLANS REVIEWED AND APPROVED BY:
KJELDEN SINNOCK NEUDECK INC.
Consulting Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Offices: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED UNDER-SEEPAGE EVALUATION, RD NO. 17, MOSSDALE TRACT AREAS II & VB DATED SEPTEMBER 15, 2008
ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

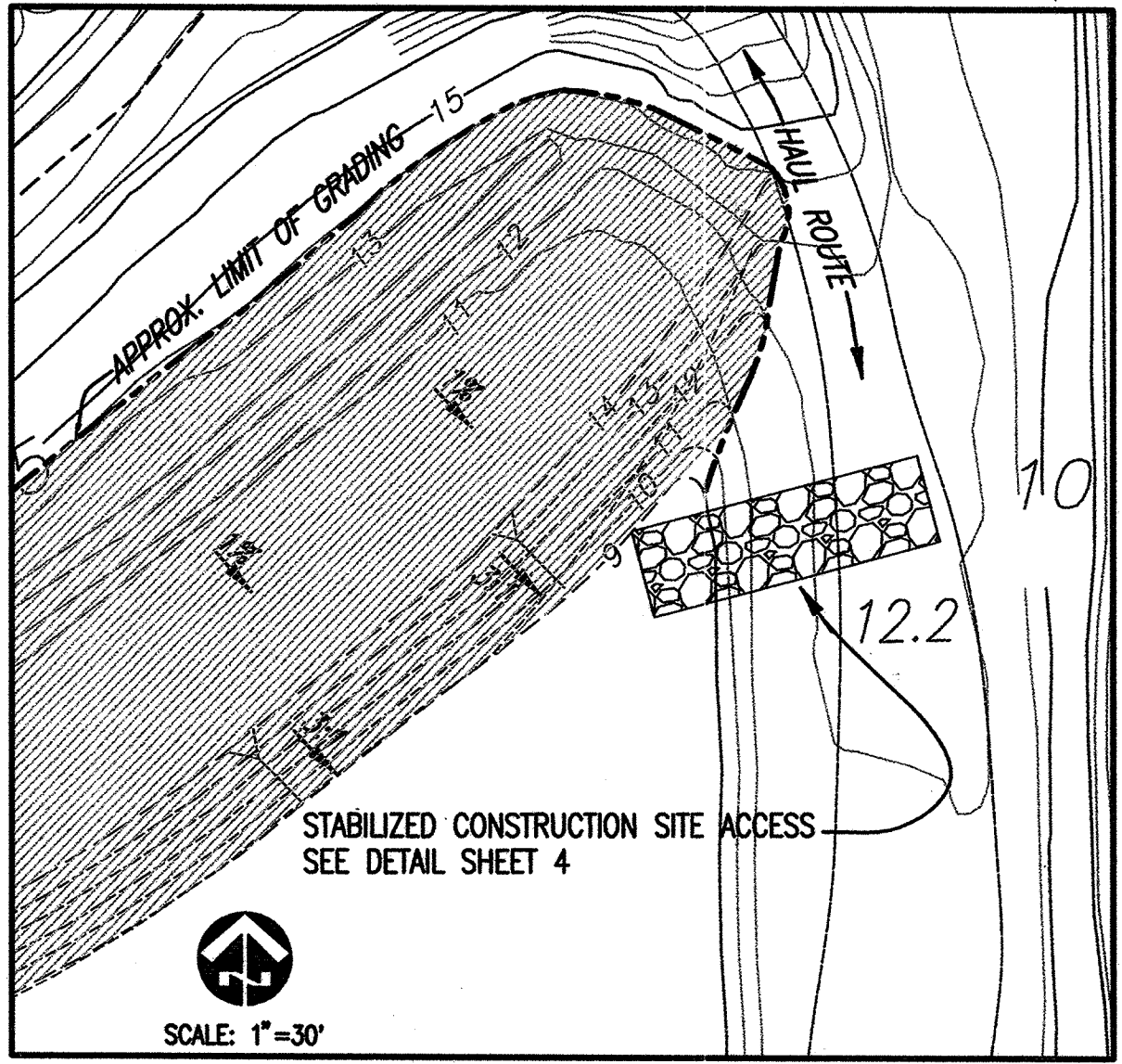
PLANS PREPARED UNDER THE DIRECTION OF:
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ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
TYPICAL SECTIONS AND DETAILS
SAN JOAQUIN COUNTY CALIFORNIA

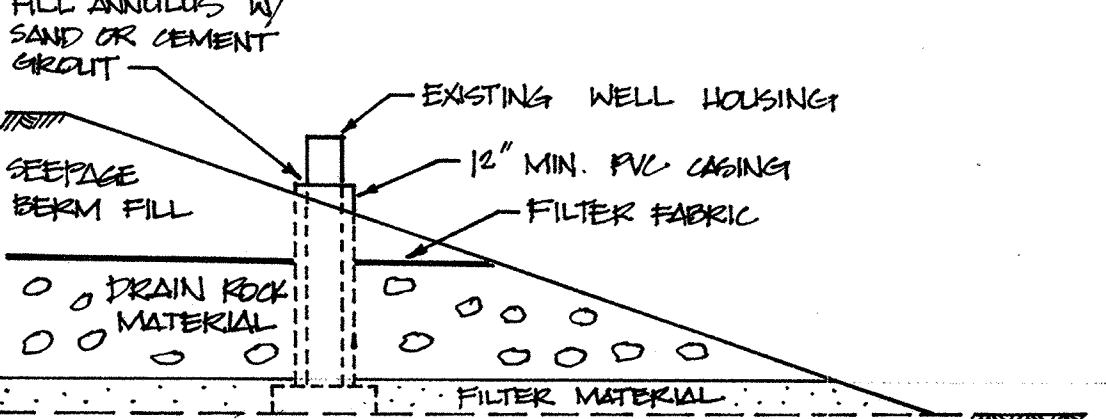
DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: NOT TO SCALE	SHT 4
DRAWN BY: EJJN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
DATE: 2/19/09	



OWNERSHIP/EASEMENT SECTION
N.T.S.



DETAIL
TOE BERM INTO ACCESS RAMP
STATION 515+50±



EXISTING WELL PROTECTION
(N.T.S.)

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Gary Osterhout 2/17/09
GARY OSTERHOUT RCE #33233
EXP. RES. SEPTEMBER 30, 2009

SCALE: 1"=100'

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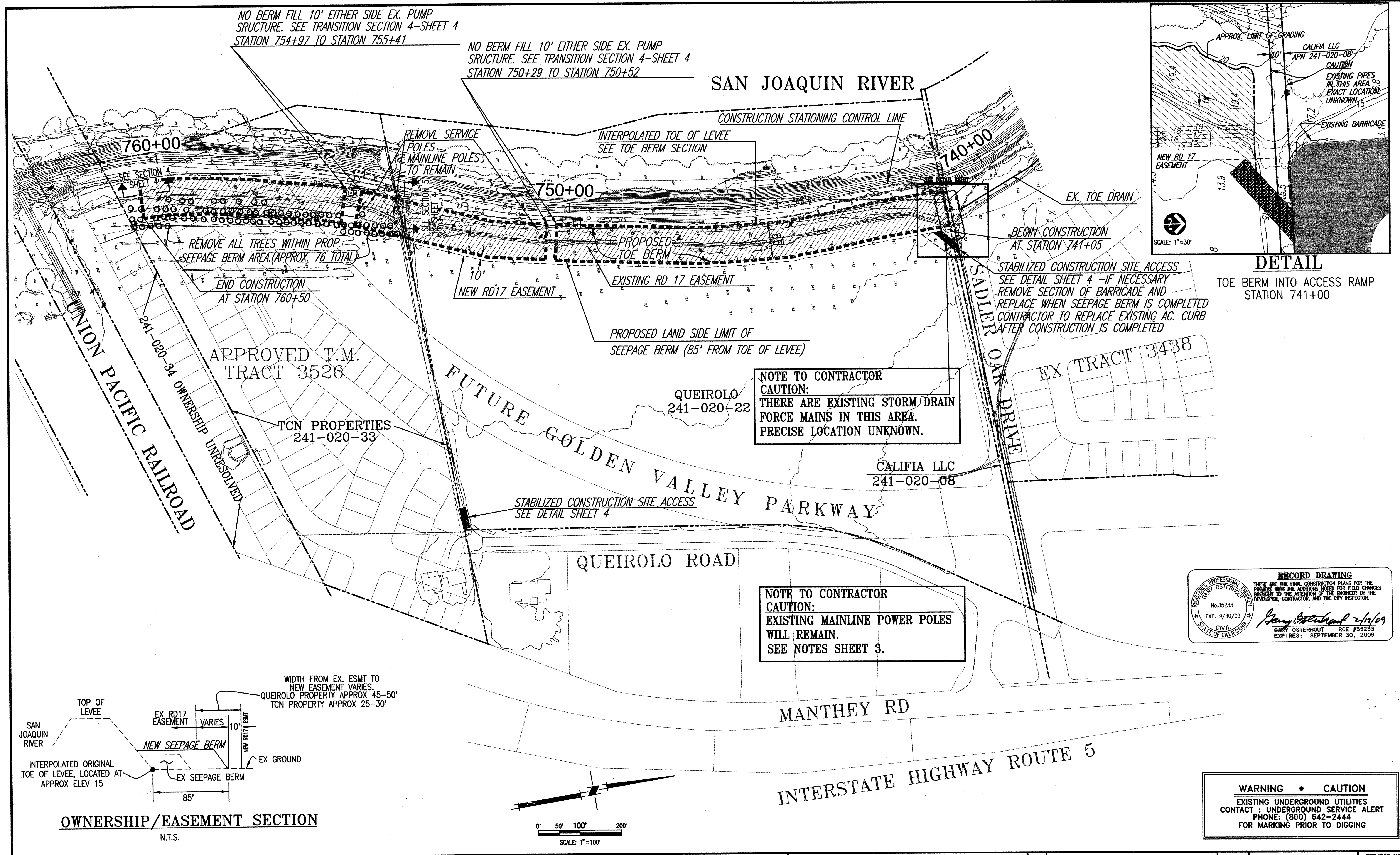
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5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
GRADING PLAN (AREA III)
STATION 515+50 THRU 569+50
SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=100'	SHT 5
DRAWN BY: EJM	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	



NO BERM FILL 10' EITHER SIDE EX. PUMP STRUCTURE. SEE TRANSITION SECTION 4-SHEET 4 STATION 754+97 TO STATION 755+41

NO BERM FILL 10' EITHER SIDE EX. PUMP STRUCTURE. SEE TRANSITION SECTION 4-SHEET 4 STATION 750+29 TO STATION 750+52

SAN JOAQUIN RIVER

CONSTRUCTION STATIONING CONTROL LINE

INTERPOLATED TOE OF LEVEE
SEE TOE BERM SECTION

760+00

750+00

740+00

REMOVE ALL TREES WITHIN PROP. SEEPAGE BERM AREA (APPROX. 76' TOTAL)

END CONSTRUCTION AT STATION 760+50

REMOVE SERVICE POLES
MAINLINE POLES TO REMAIN

PROPOSED TOE BERM

EXISTING RD 17 EASEMENT

10'
NEW RD17 EASEMENT

PROPOSED LAND SIDE LIMIT OF SEEPAGE BERM (85' FROM TOE OF LEVEE)

EX. TOE DRAIN

BEGIN CONSTRUCTION AT STATION 741+05

STABILIZED CONSTRUCTION SITE ACCESS
SEE DETAIL SHEET 4 -IF NECESSARY REMOVE SECTION OF BARRICADE AND REPLACE WHEN SEEPAGE BERM IS COMPLETED CONTRACTOR TO REPLACE EXISTING AC. CURB AFTER CONSTRUCTION IS COMPLETED

APPROVED T.M. TRACT 3526

TCN PROPERTIES 241-020-33

QUEIROLO 241-020-22

CALIFIA LLC 241-020-08

STABILIZED CONSTRUCTION SITE ACCESS
SEE DETAIL SHEET 4

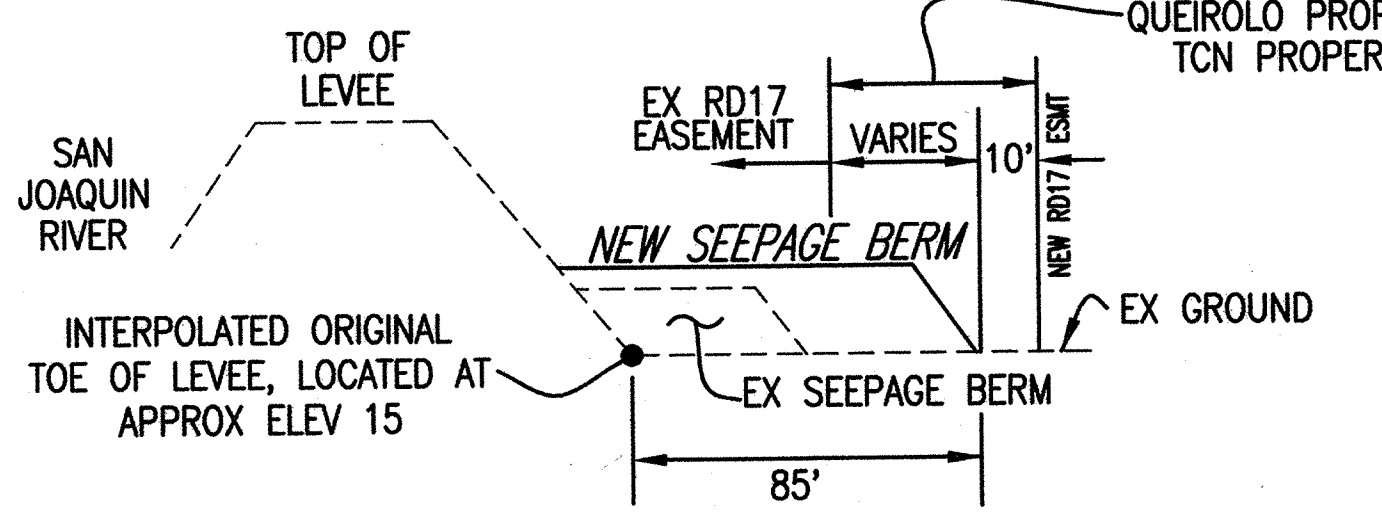
QUEIROLO ROAD

FUTURE GOLDEN VALLEY PARKWAY

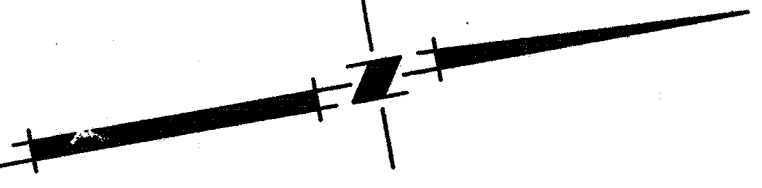
NOTE TO CONTRACTOR
CAUTION:
THERE ARE EXISTING STORM DRAIN FORCE MAINS IN THIS AREA. PRECISE LOCATION UNKNOWN.

NOTE TO CONTRACTOR
CAUTION:
EXISTING MAINLINE POWER POLES WILL REMAIN. SEE NOTES SHEET 3.

RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
GARY OSTERHOUT RCE #35233
EXP. 9/30/09
SEPTEMBER 30, 2009



OWNERSHIP/EASEMENT SECTION
N.T.S.



SCALE: 1"=100'

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:
KSN KJELSDEN SINNOCK NEUDECK INC.
Consulting Engineers and Land Surveyors
Post Office Box 844
7111 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
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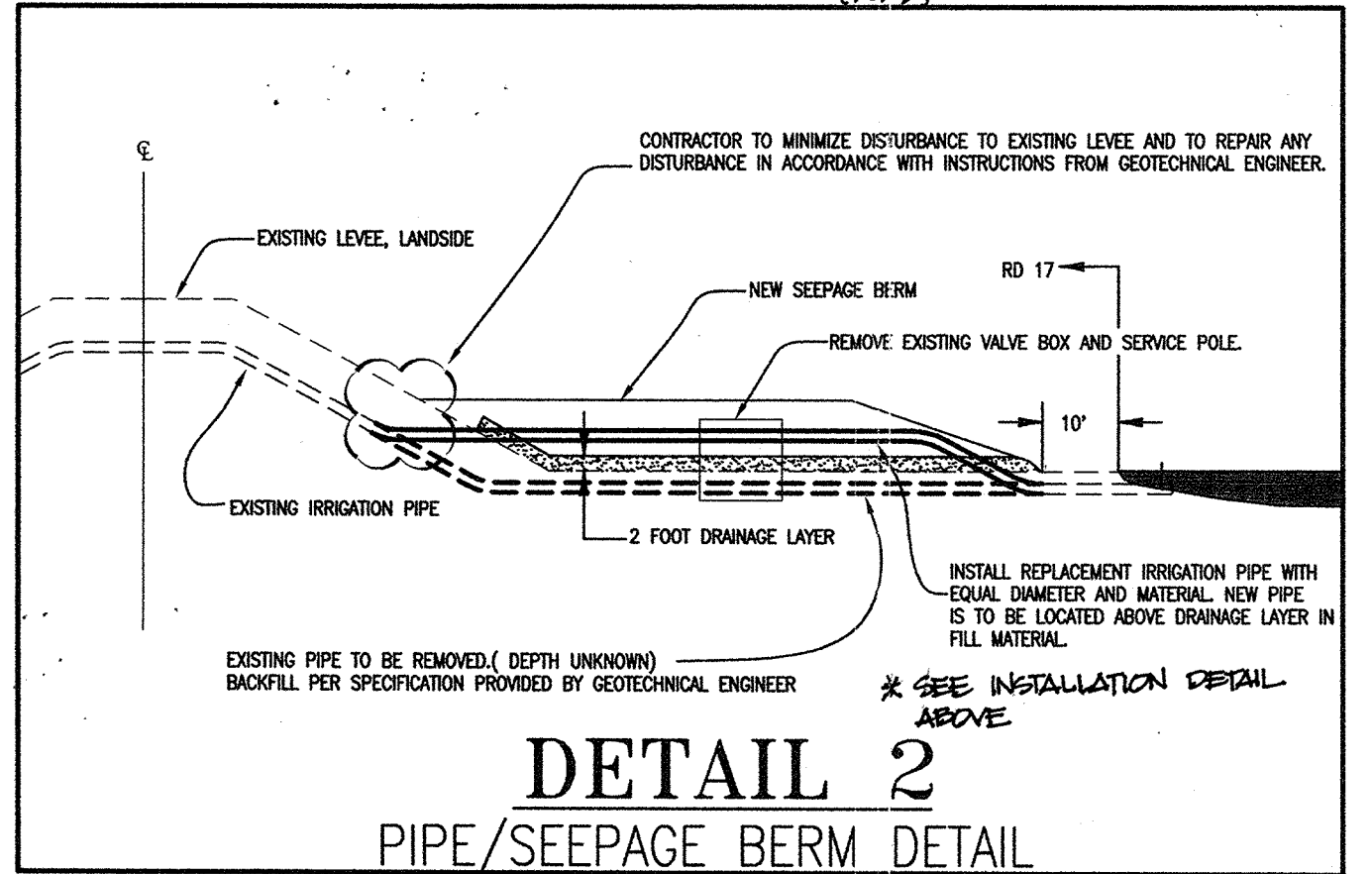
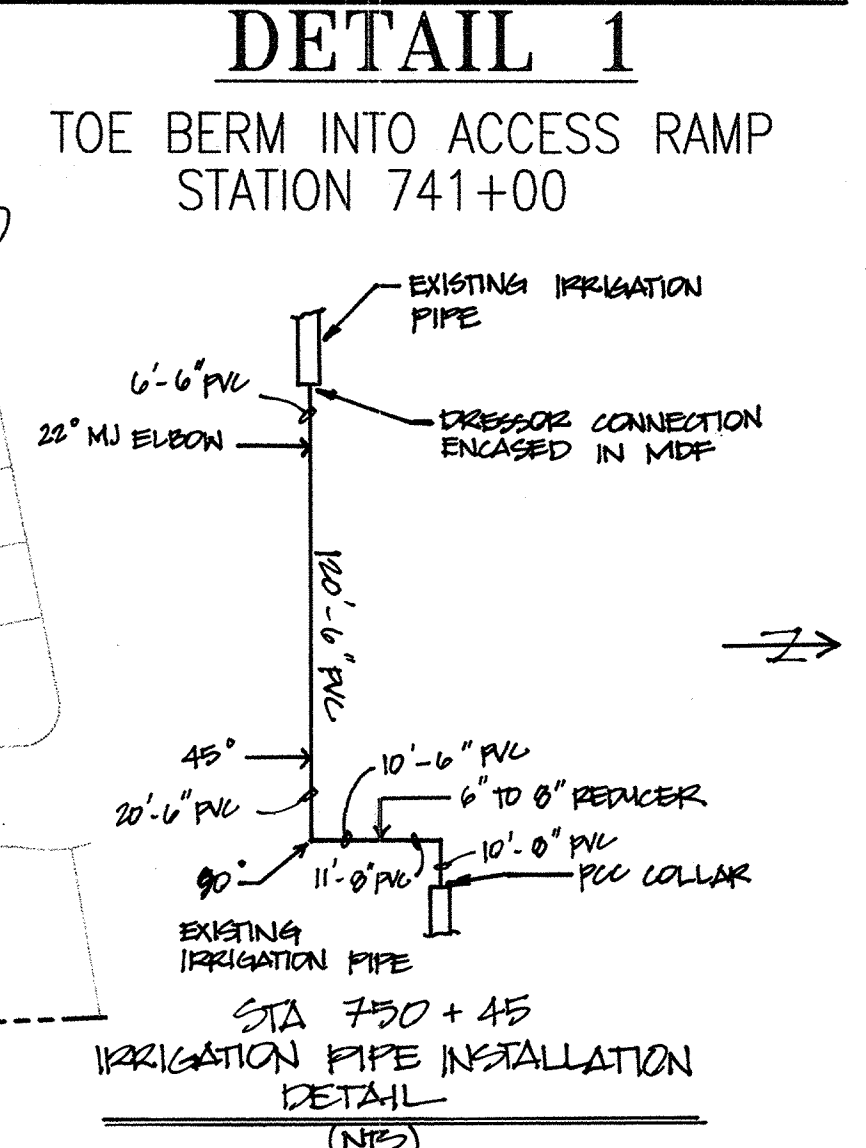
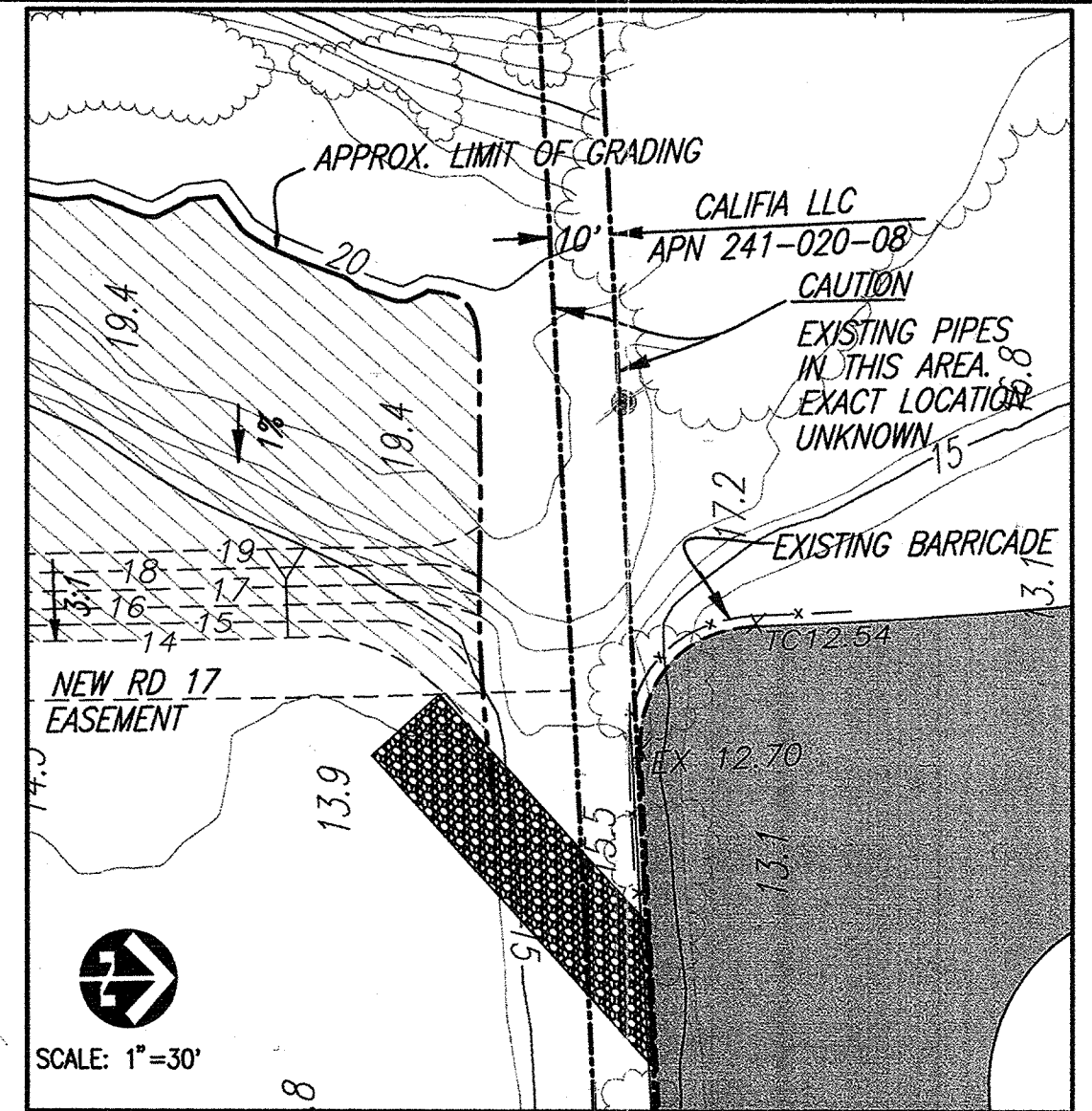
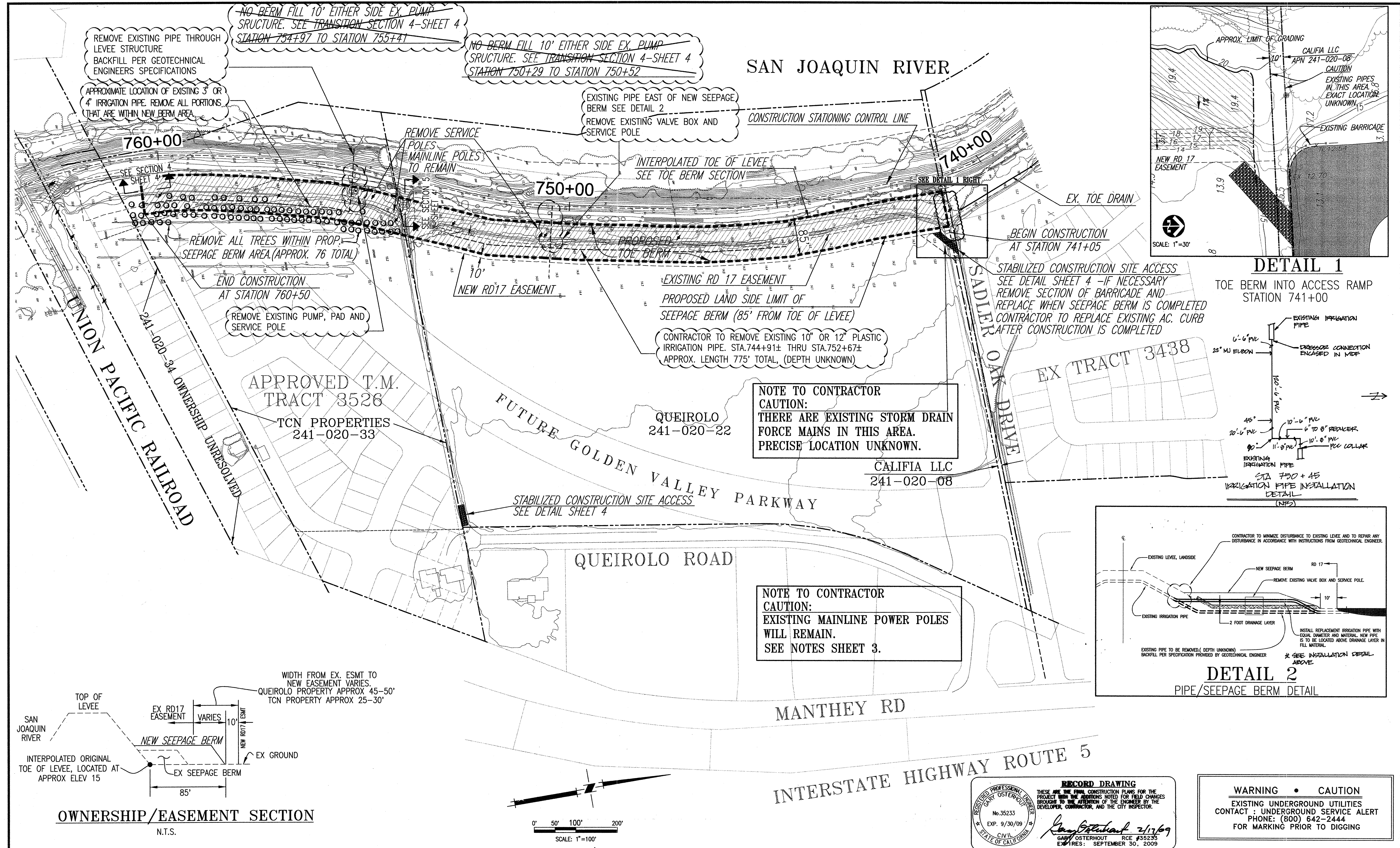
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREAS III & VII DATED SEPTEMBER 15, 2008
ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Somp
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0590
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
GRADING PLAN (Area VIB)
STATION 741+05 THRU 760+50
SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=100'	SHT 6
DRAWN BY: EUN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	

VOID-SEE SHEET 6A



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
GARY OSTERHOUT
No. 35233
EXP. 9/30/09
CIVIL
STATE OF CALIFORNIA

Gary Osterhout 2/17/09
GARY OSTERHOUT RCE #35233
EXPIRES: SEPTEMBER 30, 2009

WARNING • CAUTION

EXISTING UNDERGROUND UTILITIES CONTACT : UNDERGROUND SERVICE ALERT PHONE: (800) 642-2444 FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:

KSN INC. Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0298
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT

GRADING PLAN (AREA VIB)
STATION 741+05 THRU 760+50

SAN JOAQUIN COUNTY CALIFORNIA

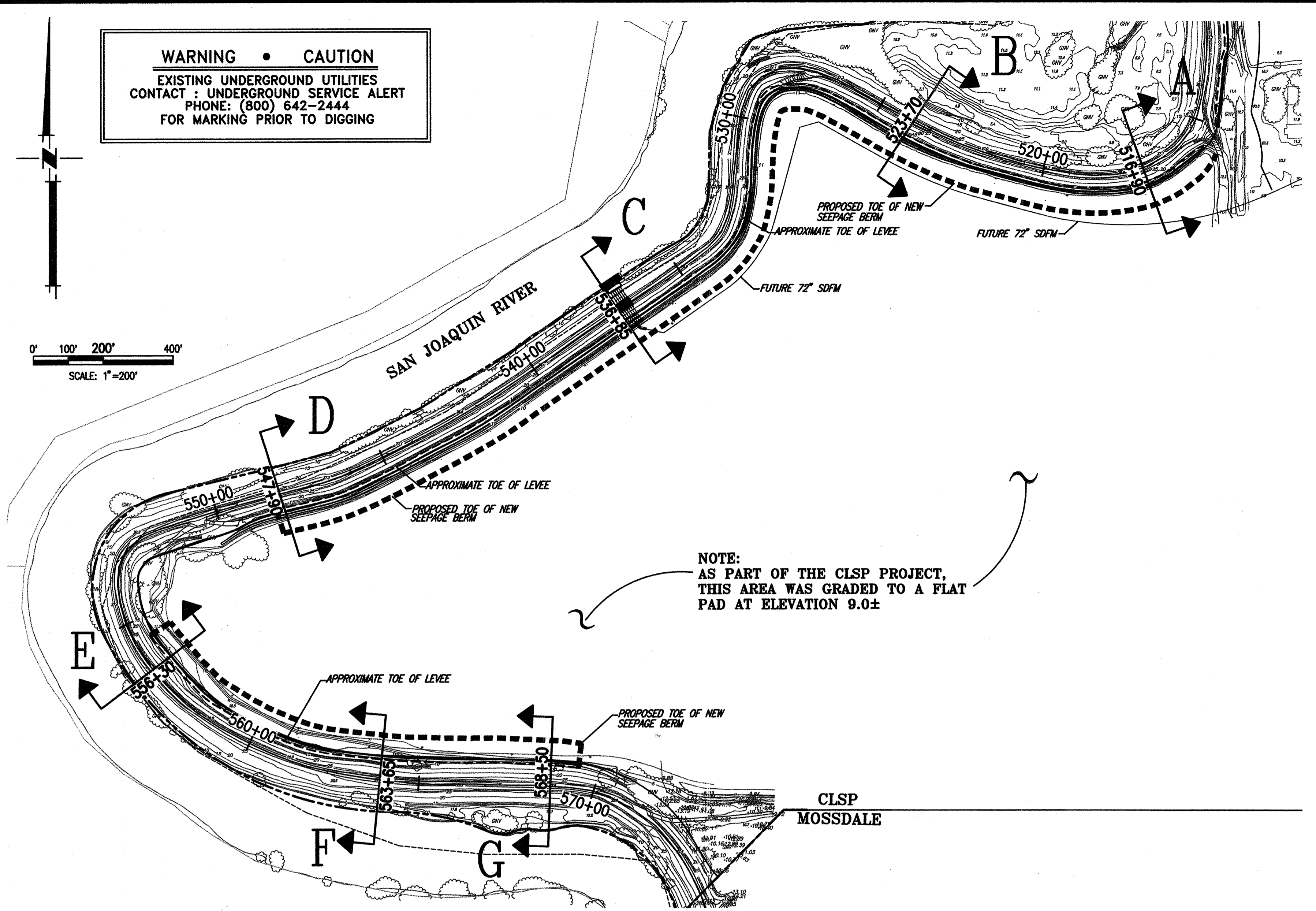
NO.	REVISION	DATE
2	AS-BUILT	2/17/09
1	ADD IRRIGATION CHANGES & DETAIL 2/ELIMINATED GAPS IN BERM	10-31-08

DATE: 9.22.2008
SCALE: 1"=100'
DRAWN BY: EJN
DESIGNED BY: JSL
CHECKED BY: GO

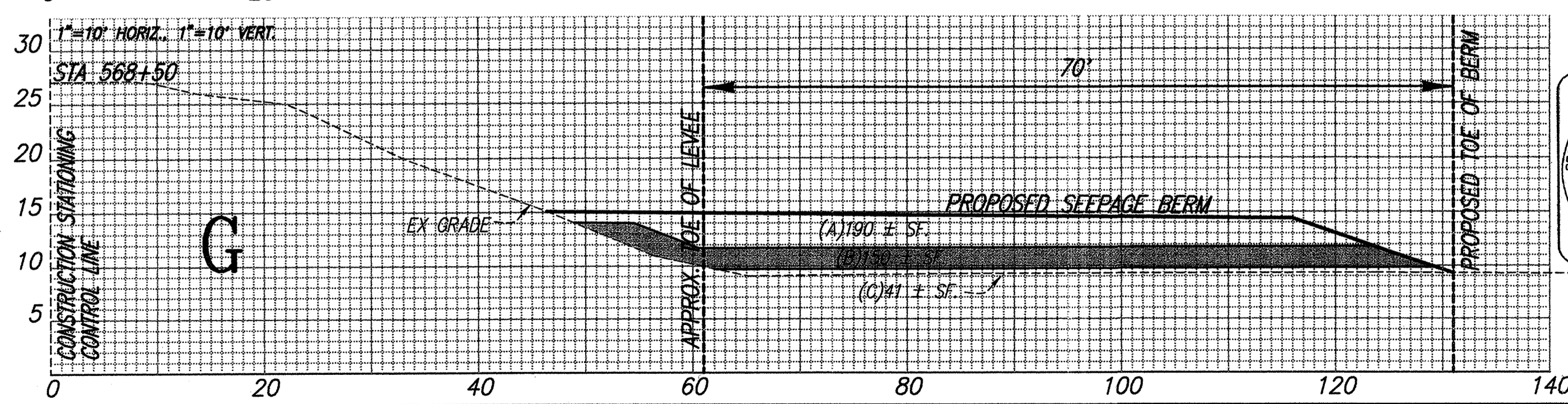
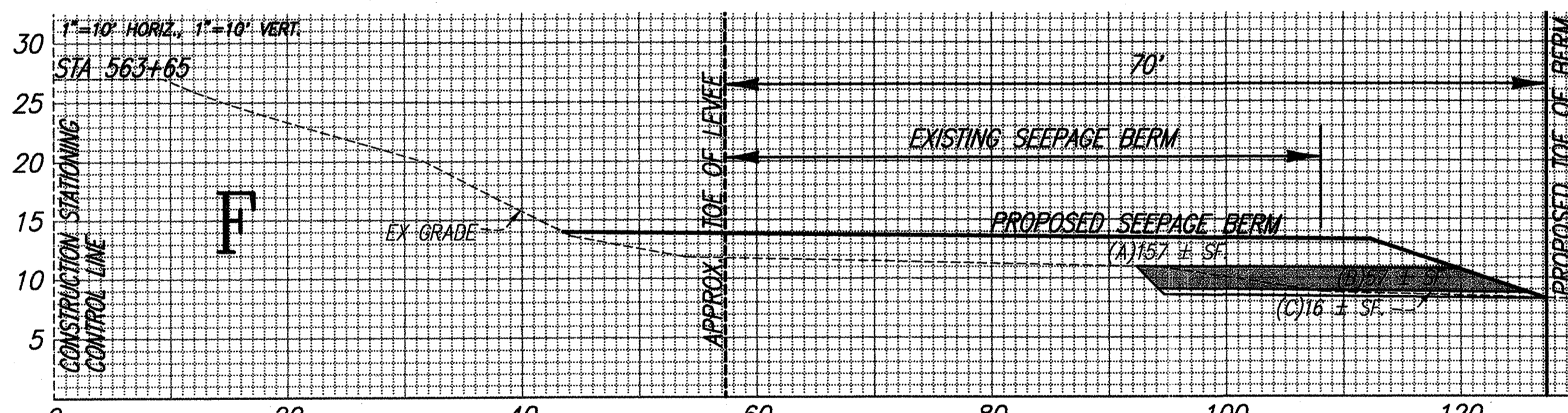
PROJECT NO. 25126.03
SHT 6A
OF 8

WARNING • CAUTION
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0' 100' 200' 400'
 SCALE: 1"=200'

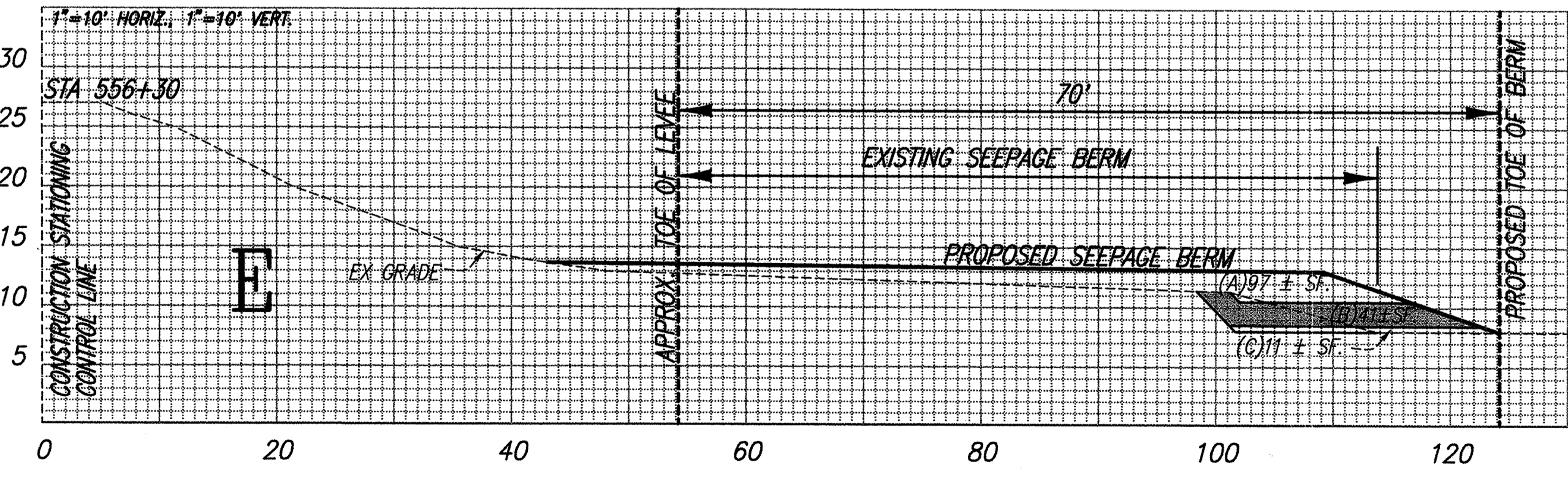
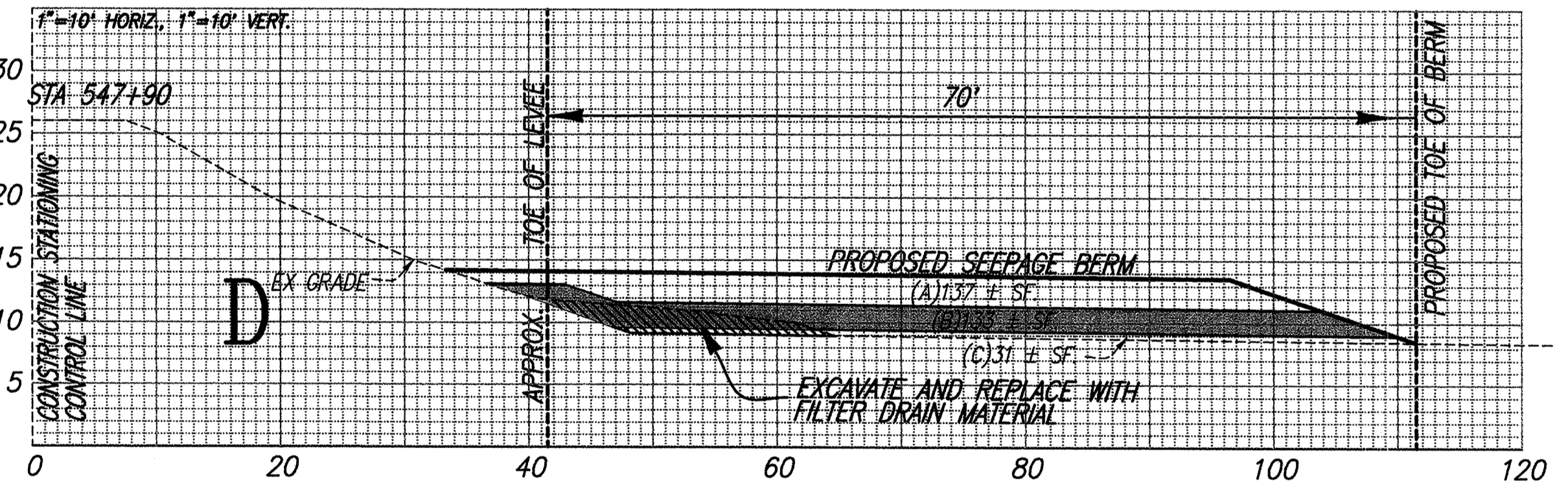
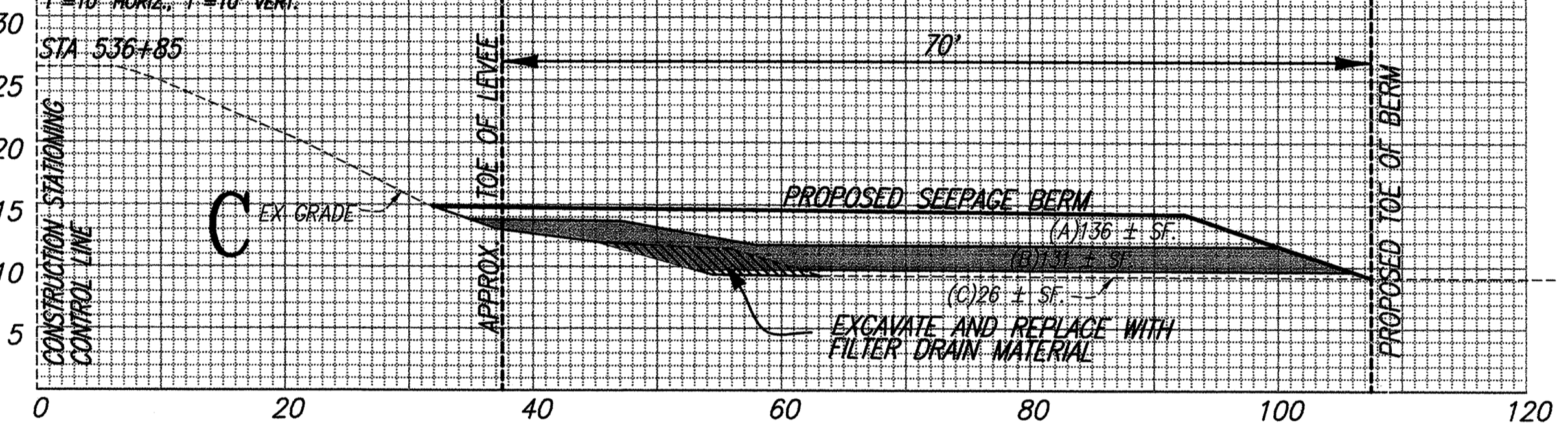
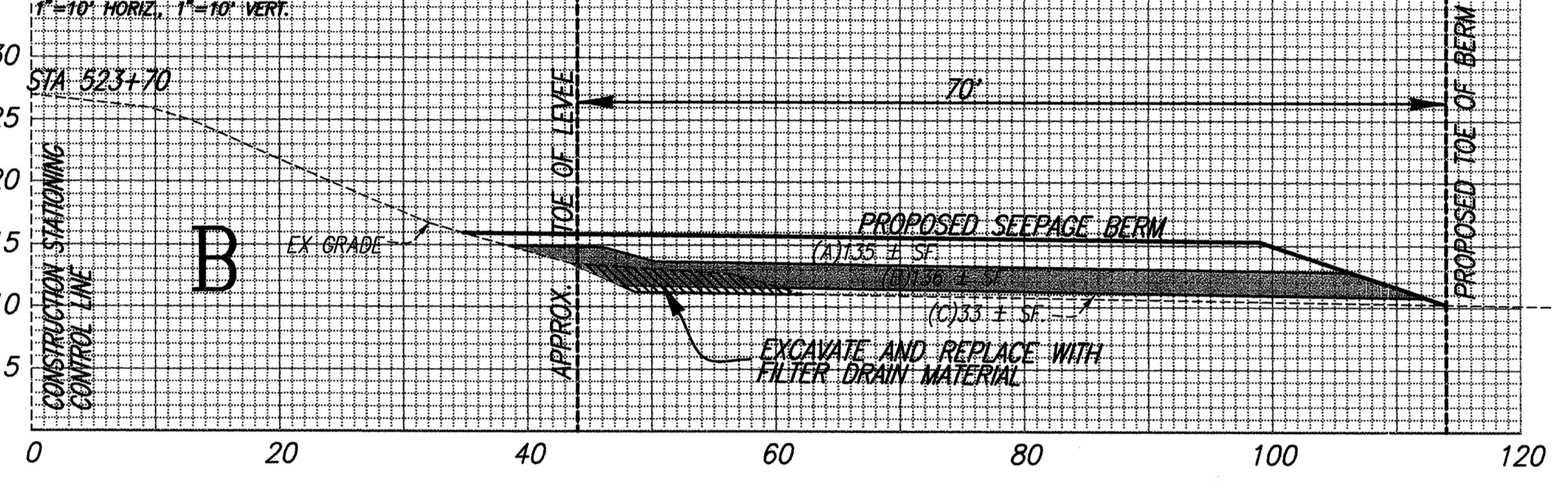
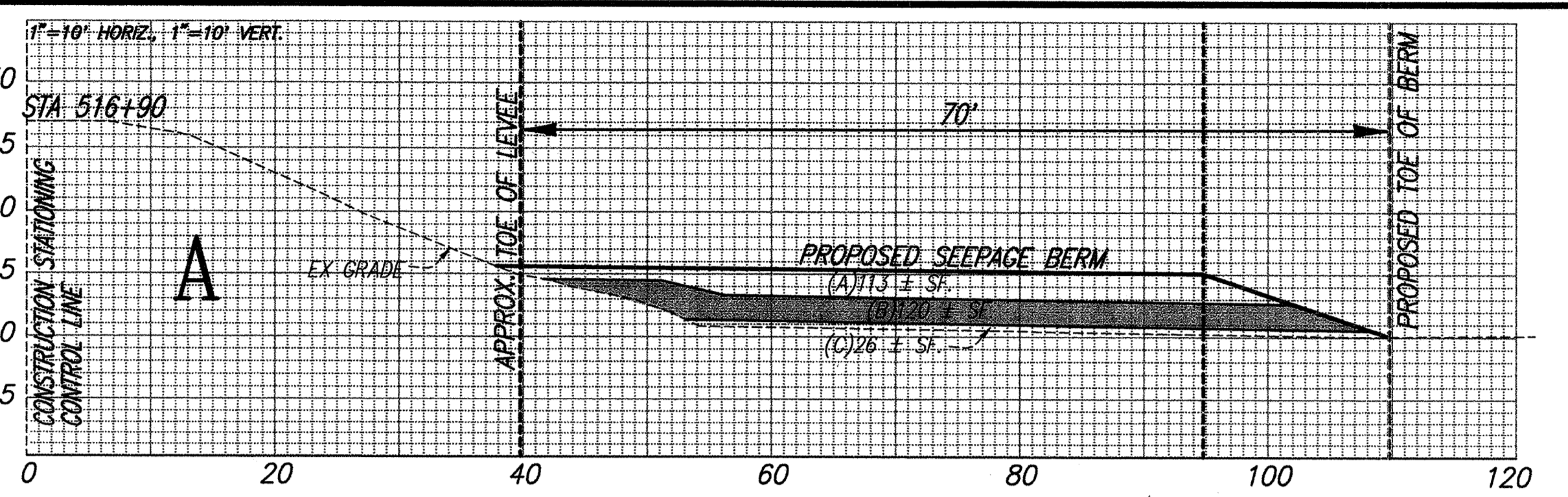


NOTE:
 AS PART OF THE CLSP PROJECT,
 THIS AREA WAS GRADED TO A FLAT
 PAD AT ELEVATION 9.0±



QUANTITIES LEGEND
 (A) -- SQUARE FEET OF SEEPAGE BERM
 FILL MATERIAL
 (B) -- SQUARE FEET OF DRAIN ROCK
 (C) -- SQUARE FEET OF FILTER MATERIAL

RECORD DRAWING
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 GARY OSTERHOUT RCE #35233
 EXP. 9/30/09



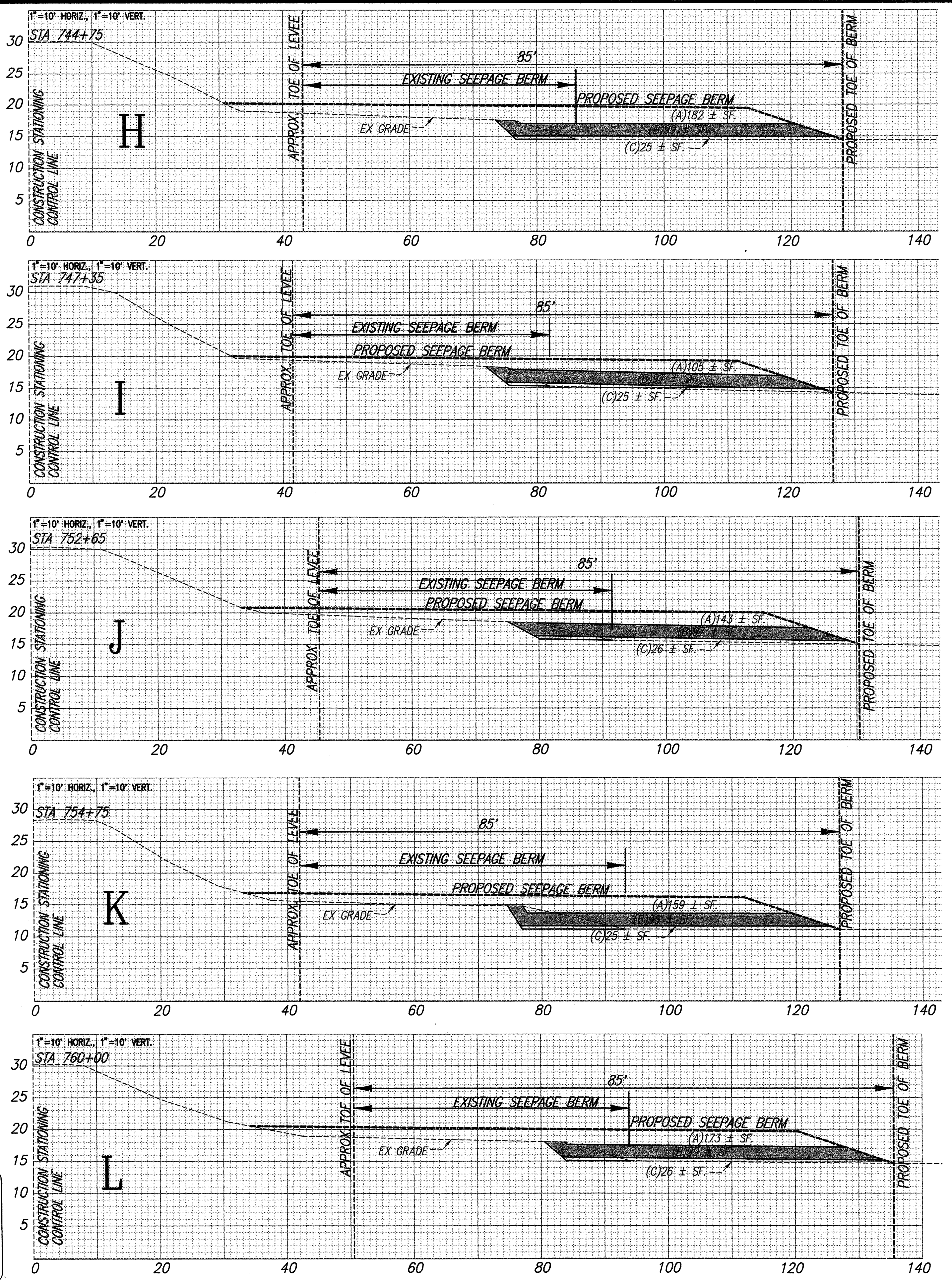
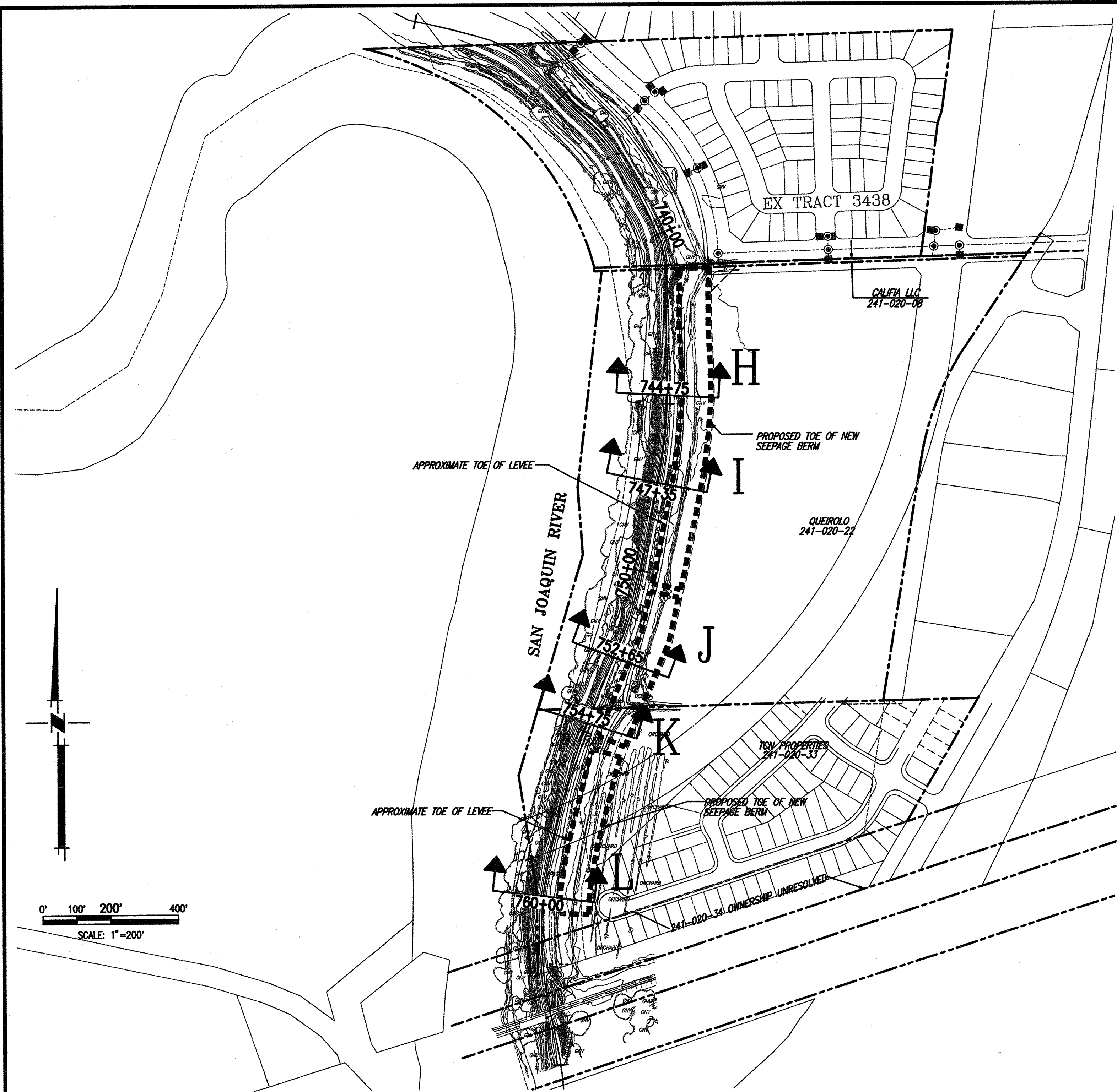
PLANS REVIEWED AND APPROVED BY:
K S KJELSDEN
S SINNOCK
N NEUDECK
INC. Consulting Engineers and Land Surveyors
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ENGEO
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 SELECTED CROSS SECTIONS FOR QUANTITIES (AREA III)
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: VARIES	SHT 7
DRAWN BY: EJM	OF 8
DESIGNED BY: JSI	
CHECKED BY: GO	



QUANTITIES LEGEND
 (A)--SQUARE FEET OF SEEPAGE BERM FILL MATERIAL
 (B)--SQUARE FEET OF DRAIN ROCK
 (C)--SQUARE FEET OF FILTER MATERIAL

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 EXP. 9/30/09
 CIVIL
 STATE OF CALIFORNIA
 Gary Osterhout 2/17/09
 GARY OSTERHOUT RCE #35235
 EXPIRES: SEPTEMBER 30, 2009

PLANS REVIEWED AND APPROVED BY:
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 Consulting Engineers and Land Surveyors
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 SAN JOAQUIN COUNTY CALIFORNIA

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DRAWN BY: EJJN	OF 8
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