

GENERAL CONSTRUCTION PLAN NOTES:

GENERAL NOTES:

- ALL CONSTRUCTION IS REQUIRED TO BE IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER, THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT, COUNTY ENGINEER (IF APPROPRIATE), UTILITY COMPANIES WITH SERVICES IN THE AREA, AND ANY OTHER AFFECTED PARTIES. NOTIFY ALL SUCH PARTIES AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION INCLUDING CONNECTION TO EXISTING WATER OR WASTEWATER LINES AND ANY TESTING PHASE.
- NO BLASTING IS ALLOWED.
- MANHOLE FRAMES, COVERS, AND WATER VALVES SHALL BE RAISED TO FINISHED PAVEMENT GRADE BY THE UTILITY CONTRACTOR. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO OR REMOVAL OF EXISTING UTILITIES, DRIVEWAYS, PAVEMENT, CURB AND GUTTER, SIDEWALKS, ETC. SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION BY THE CONTRACTOR OR THE UTILITY, AT UTILITIES OPTION, AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BEFORE FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
- ALL FILL AREAS NOT UNDER PROPOSED ROAD AND OVER ALL UTILITIES, SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH TEX-113-E METHOD.
- CRUSHED STONE MEETING THE CONTRACT PLANS AND SPECIFICATIONS IS TO BE USED AS BEDDING MATERIAL FOR ALL WATER AND/OR WASTEWATER MAINS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES SUCH AS GAS LINES, WATER LINES, VALVE BOXES, FIRE HYDRANTS, STRUCTURES, AND OTHER APPURTENANCES THAT LIE WITHIN THE RIGHT-OF-WAY OR EASEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL UTILITIES, DRIVEWAYS, PAVEMENT, CURB AND GUTTER, SIDEWALKS, FENCES, AND ANY OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER ALL ITEMS ARE SHOWN ON THE PLANS AT HIS SOLE EXPENSE. THE LOCATIONS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES IS APPROXIMATE. IN ADDITION TO NORMAL PRECAUTIONS WHEN EXCAVATING, TAKE EXTRA CAUTION WHEN EXCAVATING WITHIN 25 FEET OF ANY UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS (1-800-344-8377) AND THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT FOR UTILITY LOCATION ASSISTANCE.
- ALL CONSTRUCTION ACTIVITIES, INCLUDING ACCESS, EGRESS, TRAVEL, STOCKPILING, ETC. ARE TO BE CONFINED TO AREAS IDENTIFIED BY THE ENGINEER.
- THE CONTRACTOR SHALL FURNISH THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT THREE SETS OF "AS-BUILT" PLANS REFLECTING ALL CHANGES MADE IN THE FIELD.
- CONTRACTOR AND HIS EMPLOYEES SHALL NOT ENTER ANY PRIVATE PROPERTY OR STORE ANY EQUIPMENT OR MATERIALS ON PRIVATE PROPERTY UNLESS HE HAS WRITTEN PERMISSION TO BE ON THE PROPERTY.
- REFER TO THE SURVEY CONTROL SHEET FOR HORIZONTAL AND VERTICAL DATUM AVAILABLE AT THE PROJECT SITE.
- THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS REMOVED WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT. DISPOSAL OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNLESS PRIOR PERMISSION IS OBTAINED FROM THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY, STAGING AREAS, ETC., WITHIN THE LIMITS OF CONSTRUCTION.
- ADEQUATE BARRICADES, WARNINGS AND LIGHTING WILL BE EMPLOYED FOR SAFETY AND TRAFFIC FLOW. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- EXCAVATIONS SHALL NOT BE MADE DURING INCLEMENT WEATHER. WATER ACCUMULATION IN EXCAVATIONS EXCEEDING 1 INCH SHALL BE PUMPED OUT BEFORE THE CONCRETE IS PLACED.

MATERIALS:

- ALL CONCRETE PROVIDED SHALL BE TXDOT CLASS "C", 3,600 PSI PORTLAND CEMENT CONCRETE MEETING THE REQUIREMENTS OF TXDOT STANDARD SPECIFICATION NO. 421.
- ALL REINFORCEMENT STEEL BE ASTM A615, GRADE 60 STEEL MEETING THE REQUIREMENTS OF TXDOT STANDARD SPECIFICATION NO. 440.

STREET AND DRAINAGE NOTES:

- ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY. INITIAL TESTING SHALL BE PAID FOR BY THE OWNER. ANY SUBSEQUENT TESTING OR RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT SHALL BE PRESENT DURING ALL TESTS. THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT SHALL BE GIVEN A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY TESTING.
- BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
- DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.
- STREET RIGHT-OF-WAYS SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE OWNER.
- BARRICADES BUILT TO THE OWNER STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY ACCORDING TO TEXAS DEPARTMENT OF TRANSPORTATION REQUIREMENTS AS DESCRIBED AND SHOWN IN THE BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS.

TRAFFIC MARKING NOTES:

- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS.
- ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES, OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION MAY BE REGULARLY INSPECTED FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE ENGINEER, THEY ARE WARRANTED.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE TOM GREEN COUNTY PUBLIC WORKS DEPARTMENT.

SIDEWALKS, RAMPS AND TDLR ACCESSIBILITY REQUIREMENTS:

- ALL SIDEWALK SHALL BE A MINIMUM OF 4" THICK. SEE DETAILS FOR SUBGRADE PREPARATION, REINFORCING, JOINT PATTERNS AND OTHER INFORMATION.
- THE FOLLOWING GENERAL TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR) CRITERIA APPLY TO MANEUVERING SURFACES AT DOORS, ENTRIES, PORCHES, RAMP LANDINGS, PARKING AREAS, WALKWAYS AND PAVEMENT WHICH ARE PART OF A REQUIRED ACCESSIBLE ROUTE OR ENTRY/EXIT.
 - THE REQUIRED CLEAR FLOOR SPACE AREA AT ACCESSIBLE ENTRY/EXIT DOORS SHALL NOT HAVE A SLOPE THAT EXCEEDS 1:50 (2%) IN ANY DIRECTION.
 - CROSS SLOPE FOR ACCESSIBLE WALKWAYS SHALL NOT EXCEED 1:50 (2%).
 - RUNNING SLOPE FOR ACCESSIBLE WALKWAYS SHALL NOT EXCEED 1:20 (5%).
 - PAVEMENT SURFACES THAT ARE PART OF A REQUIRED ACCESSIBLE ROUTE SHALL NOT EXCEED 1:50 (2%) CROSS SLOPE AND 1:20 (5%) RUNNING SLOPE.
 - CHANGES IN GRADE IN ACCESSIBLE ROUTES GREATER THAN 1:20 (5%) REQUIRE A RAMP.
 - ABRUPT CHANGES IN LEVEL IN EXCESS OF 1/4" ARE NOT PERMITTED.
- ACCESSIBLE ROUTE ELEVATIONS INDICATED ON THE GRADING PLAN ARE SCHEMATIC, AND ARE INTENDED TO COMPLY IN ALL RESPECTS WITH TDLR REQUIREMENTS. THE CONTRACTOR IS TO ADJUST GRADES AS NECESSARY TO FIT PARTICULAR CONDITIONS. NOTIFY ENGINEER AND REQUEST INSTRUCTIONS IF NON-COMPLIANT SITUATIONS ARE ENCOUNTERED OR ANTICIPATED.

SITE EXCAVATION, FILLING AND GRADING:

- COMPLETELY REMOVE ALL TREES, SHRUBS, AND STUMPS FROM THE CONSTRUCTION AREA AS IDENTIFIED ON THE GRADING PLAN. REMOVE ALL CONCRETE SLABS, CONCRETE WALLS, FOUNDATIONS, BRUSH PILES, ETC. ON THE SITE AS REQUIRED TO PROPERLY CONSTRUCT THE PROJECT.
- BEFORE EXCAVATION IS BEGUN, STRIP THE TOP 12" OF TOPSOIL FROM AREAS TO BE EXCAVATED OR OCCUPIED BY BUILDING, ROADS, WALKS ETC., AND PILE IN DESIGNATED LOCATIONS WHERE IT WILL NOT INTERFERE WITH BUILDING OR UTILITY OPERATIONS. STRIPPED TOPSOIL SHALL BE FREE FROM LARGE STONES AND DEBRIS. USE TOPSOIL FOR FINISH GRADING. EXCESS TOPSOIL MAY BE USED FOR COMMON SITE FILLS IF AN ADEQUATE STOCKPILE IS RETAINED FOR FINISH GRADING.
- ALL EXCAVATION IS TO BE UNCLASSIFIED; I.E., THE REMOVAL OF ALL MATERIALS AS ENCOUNTERED, WITH NO ADDITIONAL PAYMENTS FOR ROCK EXCAVATION EXCEPT FOR CHANGES IN WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.
- PERFORM EXCAVATION OF EVERY TYPE OF MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT, TO THE LINES, GRADES AND ELEVATIONS INDICATED AND AS SPECIFIED HEREIN. PERFORM EXCAVATION AND FILLING IN A MANNER AND SEQUENCE THAT WILL PROVIDE DRAINAGE AT ALL TIMES.
- KEEP ALL EXCAVATIONS DRY BY DIVERTING OR PUMPING SEEPAGE OR SURFACE WATER FROM EXCAVATIONS.
- COMPLETE ALL GRADING NECESSARY TO BRING THE ENTIRE AREA SHOWN ON THE DRAWINGS TO THE SUBGRADE LEVELS INDICATED ON THE PLANS AND DETAILS. GRADES NOT OTHERWISE INDICATED SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, OR BETWEEN SUCH POINTS AND EXISTING FINISH GRADES. ROUND OFF ABRUPT CHANGES IN SLOPES.
- THE SITE FILL MATERIAL SHALL BE PLACED IN 8 INCH LOOSE LIFTS, AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D698). THE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D698. THE CONTRACTOR MAY EITHER USE GRANULAR FILL OR CLAY FILL. THE GRANULAR FILL SHALL CONSIST OF WELL GRADED CLEAN SAND WITH A MAXIMUM PARTICLE SIZE OF 1/2 INCH. THE CLAY FILL SHALL BE FREE OF ORGANICS, TRASH, RUBBLE, OR OTHER DELETERIOUS MATERIALS; AND HAVE NO PARTICLE SIZE GREATER THAN 3 INCHES IN DIAMETER.
- STRIPPING TOP SOIL FROM FILL AREAS IS NOT REQUIRED. BEFORE STARTING THE FIRST LIFT OF FILL, SCARIFY, MOISTURE CONDITION AND COMPACT THE TOP 6" OF EXISTING MATERIAL TO A MINIMUM OF 95% OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM D698 AT MOISTURE CONTENTS -1% TO +3% OF OPTIMUM.

TRENCH SAFETY NOTES:

- IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS (SUBCHAPTER C OF CHAPTER 756 OF THE HEALTH AND SAFETY CODE TITLED "TRENCH SAFETY") AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS (UNITED STATES DEPARTMENT OF LABOR OSHA RULES 29 CFR PART 1926 - SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED.
- PRIOR TO PERFORMING ANY EXCAVATION ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE OWNER, AND THE OWNER SHALL ACKNOWLEDGE RECEIPT OF, A TRENCH SAFETY SYSTEM SPECIFICALLY DESIGNED FOR THIS PROJECT AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. A COPY OF THIS TRENCH SAFETY SYSTEM PLAN MUST BE MAINTAINED AT THE PROJECT SITE DURING CONSTRUCTION OF THE PROTECTIVE SYSTEM(S).
- IN ACCORDANCE WITH OSHA REGULATIONS, WHEN EMPLOYEES ARE REQUIRED TO BE IN TRENCHES 4- FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
- IF A TRENCH SAFETY SYSTEM PLAN WAS NOT PREPARED BECAUSE TRENCHES AND/OR EXCAVATIONS WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES AND/OR EXCAVATIONS ARE IN FACT 5 FEET OR MORE IN DEPTH OR TRENCHES AND/OR EXCAVATIONS LESS THAN 5 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE, THE TRENCHED OR EXCAVATED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A LICENSED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS, ARE SUBMITTED BY THE CONTRACTOR TO AND THEIR RECEIPT IS ACKNOWLEDGED BY THE OWNER, AND, A BID ITEM FOR IMPLEMENTATION OF TRENCH SAFETY SYSTEMS IS ADDED TO THE CONTRACT BY CHANGE ORDER.

NOTE FOR COUNTY CONSTRUCTION CREWS/STAFF:

NOTES INCLUDED ON THIS PLAN SHEET AND THROUGHOUT THIS CONSTRUCTION PLAN SET OFTEN REFER TO THE RESPONSIBILITIES OF THE 'CONTRACTOR'. FOR FORCE ACCOUNT WORK AND ALL CONSTRUCTION TO BE ACCOMPLISHED BY TOM GREEN COUNTY PERSONNEL THE DUTIES AND RESPONSIBILITIES ASSIGNED TO THE 'CONTRACTOR' IN THESE CONSTRUCTION PLANS MUST BE UNDERTAKEN BY THE APPROPRIATE COUNTY STAFF MEMBERS.

NO.	REVISION	BY	DATE

DESIGNED BY:	AML
DRAWN BY:	JBS
CHECKED BY:	AML
APPROVED BY:	AML
DATE DRAWN:	06/22/11

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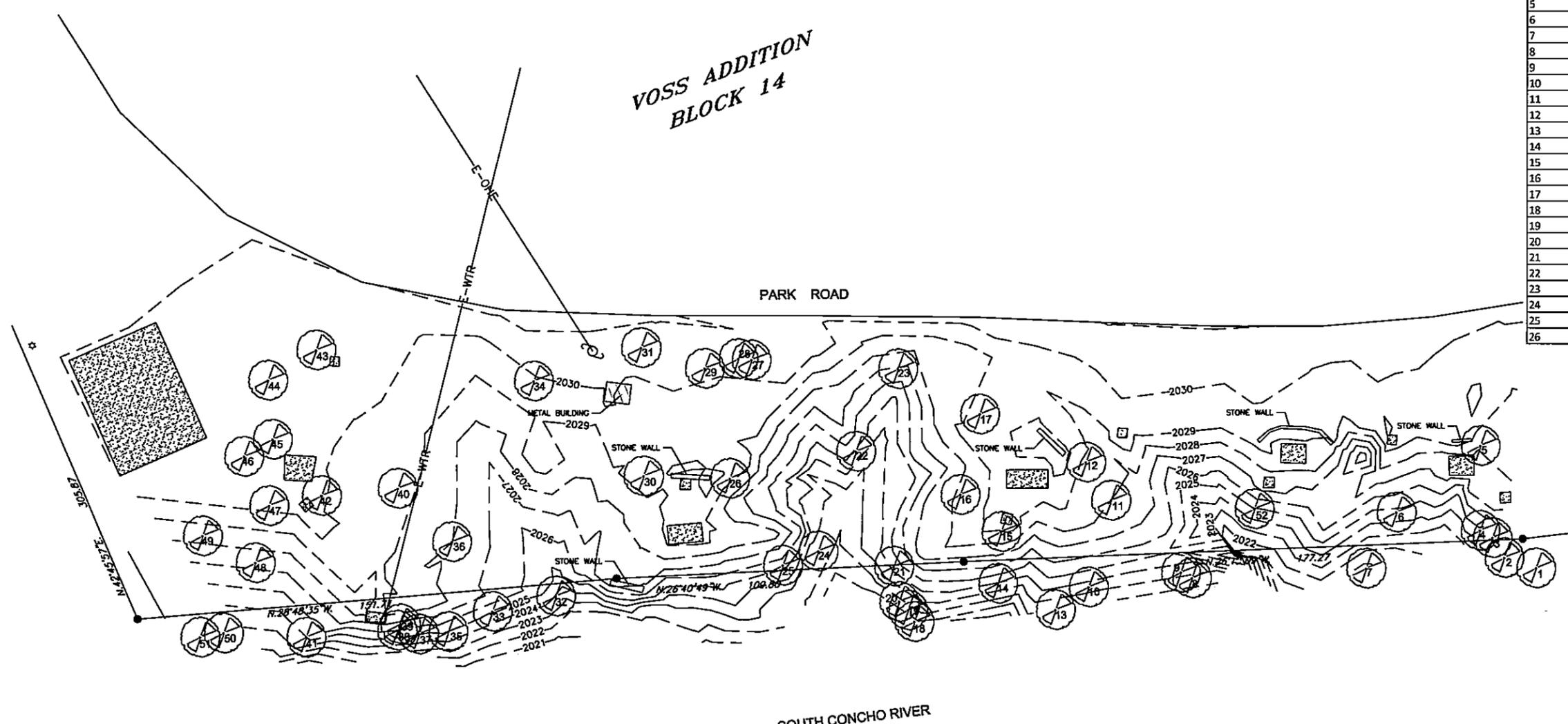
PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT

GENERAL CONSTRUCTION PLAN NOTES

JOB NO. 8545
DRAFT
SHEET <u>2</u> of <u>8</u>
DRWG. NO. 8545 802

PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT - CONSTRUCTION PLANS

Tree Survey							
Tree No.	Tree Size	Drip Line	Type	Tree No.	Tree Size	Drip Line	Type
1	12"	20'	Pecan	27	36"	30'	Oak
2	24"	30'	Pecan	28	4'	30'	Oak
3	12"	20'	Pecan	29	2'	30'	Oak
4	12"	20'	Pecan	30	4'	60'	Oak
5	24"	20'	Pecan	31	36"	30'	Oak
6	6'	60'	Oak	32	24"	20'	Unknown
7	12'	15'	Oak	33	36"	30'	Unknown
8	4'	50'	Pecan	34	4'	50'	Pecan
9	36"	30'	Pecan	35	24"	30'	Pecan
10	12"	15'	Pecan	36	36"	15'	Pecan
11	5'	60'	Oak	37	6"	15'	Pecan
12	36"	40'	Oak	38	12"	15'	Pecan
13	24"	20'	Pecan	39	12"	15'	Pecan
14	5'	60'	Oak	40	24"	30'	Pecan
15	4'	30'	Oak	41	12"	20'	Unknown
16	4'	50'	Oak	42	36"	20'	Oak
17	4'	50'	Oak	43	36"	30'	Pecan
18	12"	20'	Pecan	44	4'	50'	Oak
19	12"	15'	Pecan	45	5'	60'	Pecan
20	12"	15'	Pecan	46	36"	50'	Oak
21	12"	15'	Pecan	47	18"	30'	Oak
22	4'	50'	Oak	48	24"	30'	Pecan
23	12"	15'	Unknown	49	24"	50'	Oak
24	4'	30'	Oak	50	36"	20'	Oak
25	5'	60'	Oak	51	36"	20'	Oak
26	6'	50'	Oak	52	36"	40'	Pecan



- LEGEND**
- APPROXIMATE WATER EDGE
 - - - - - CONTOUR LINE
 - [Hatched Box] BUILDING
 - [Stippled Box] CONCRETE

UTILITY LOCATIONS
 The underground utilities shown hereon have been located from available field survey information, existing drawings, and from information obtained from third parties. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned and makes no guarantee that the underground utilities shown are in the exact location indicated. The surveyor has not physically located the underground utilities.

Surveyed on the ground April 7, 2011.
 MAP SHOWING A TOPOGRAPHIC SURVEY OF AN AREA OUT OF VOSS ADDITION, BLOCK 14, TOM GREEN COUNTY, TEXAS.


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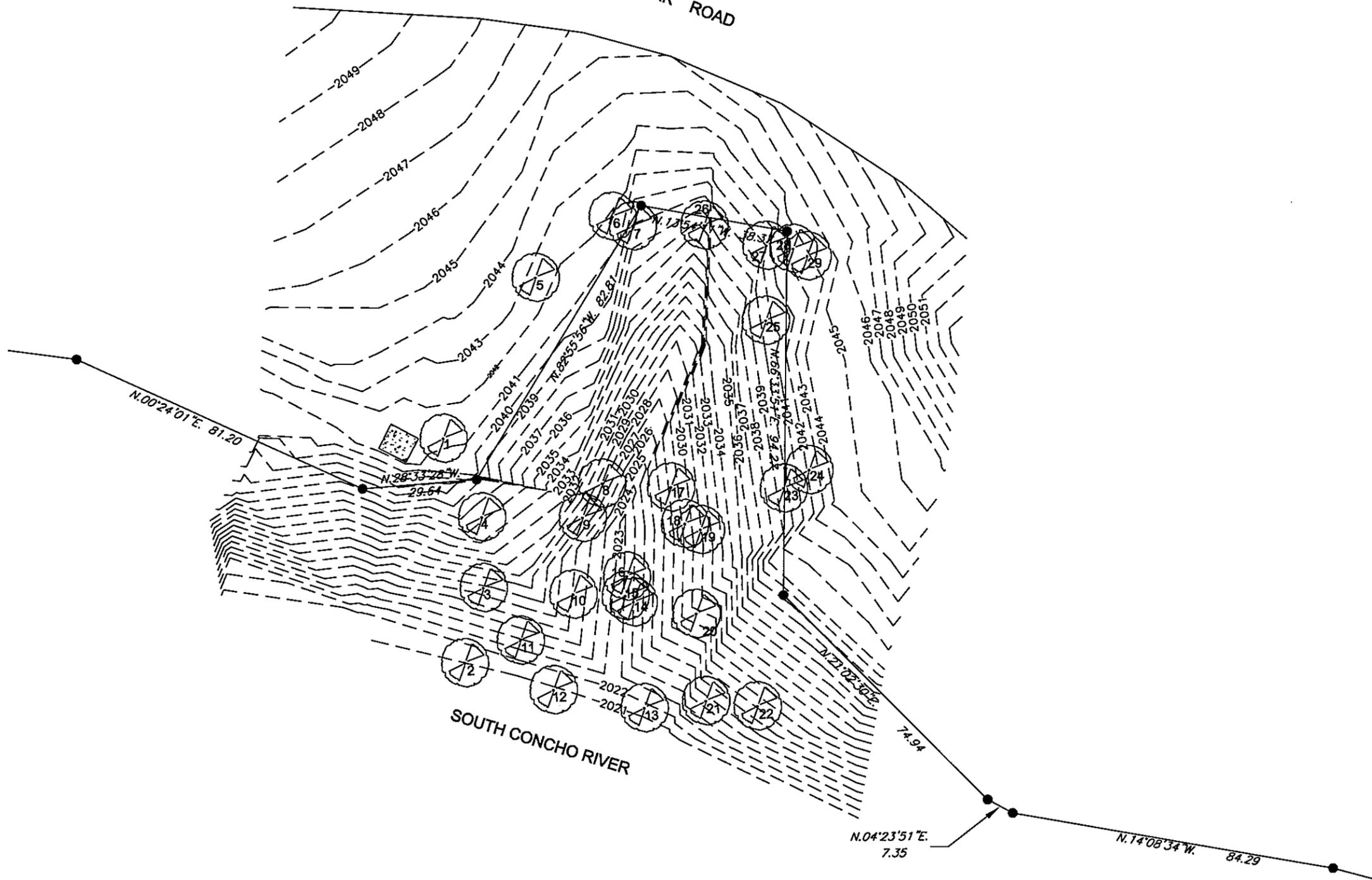

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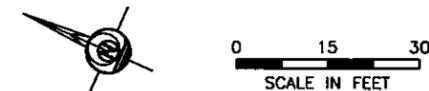
PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT
 SURVEYED SITE 1

JOB NO. 8545
DRAFT
 SHEET 3 OF 8
 DRWG. NO. 8545 803

JOHAN ZERBACH SURVEY 1827
 ABST. NO. 4217
 PARK ROAD



Tree Survey							
Tree No.	Tree Size	Drip Line	Type	Tree No.	Tree Size	Drip Line	Type
1	12"	15'	Pecan	16	36"	20'	Oak
2	24"	20'	Pecan	17	12"	20'	Pecan
3	24"	20'	Pecan	18	24"	30'	Pecan
4	36"	30'	Oak	19	24"	30'	Pecan
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6	12"	15'	Pecan	21	24"	20'	Pecan
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10	24"	30'	Pecan	25	12"	20'	Pecan
11	12"	20'	Pecan	26	12"	12'	Pecan
12	24"	20'	Pecan	27	12"	12'	Pecan
13	24"	20'	Pecan	28	12"	12'	Pecan
14	24"	30'	Pecan	29	12"	12'	Pecan
15	12"	15'	Pecan				



LEGEND

- APPROXIMATE WATER EDGE
- - - 2023 - - - CONTOUR LINE
- [Stippled Box] CONCRETE

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 MAP SHOWING A TOPOGRAPHIC SURVEY OF AN AREA OUT OF JOHAN ZERBACH SURVEY 1827, ABST. NO. 4217, TOM GREEN COUNTY, TEXAS.

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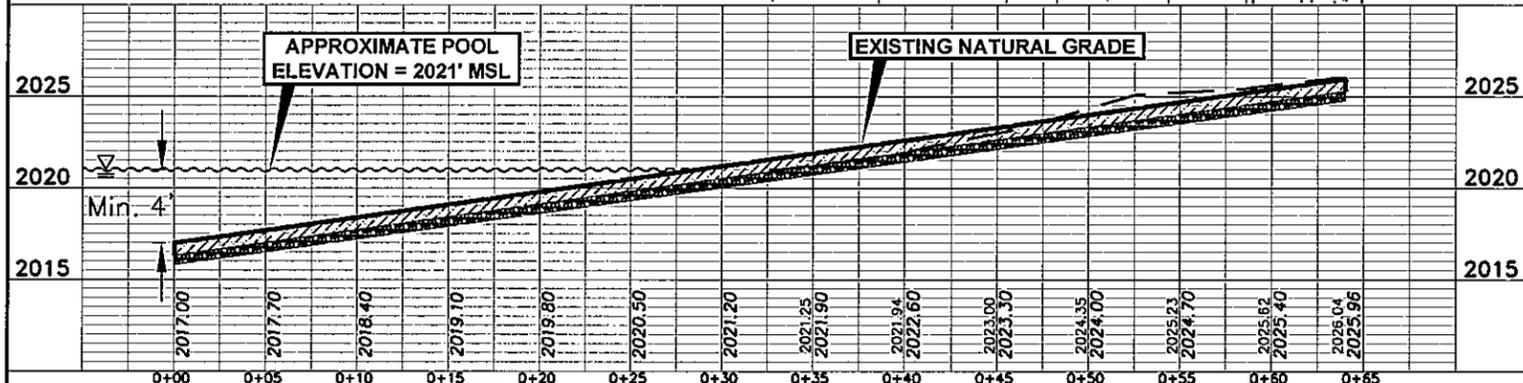
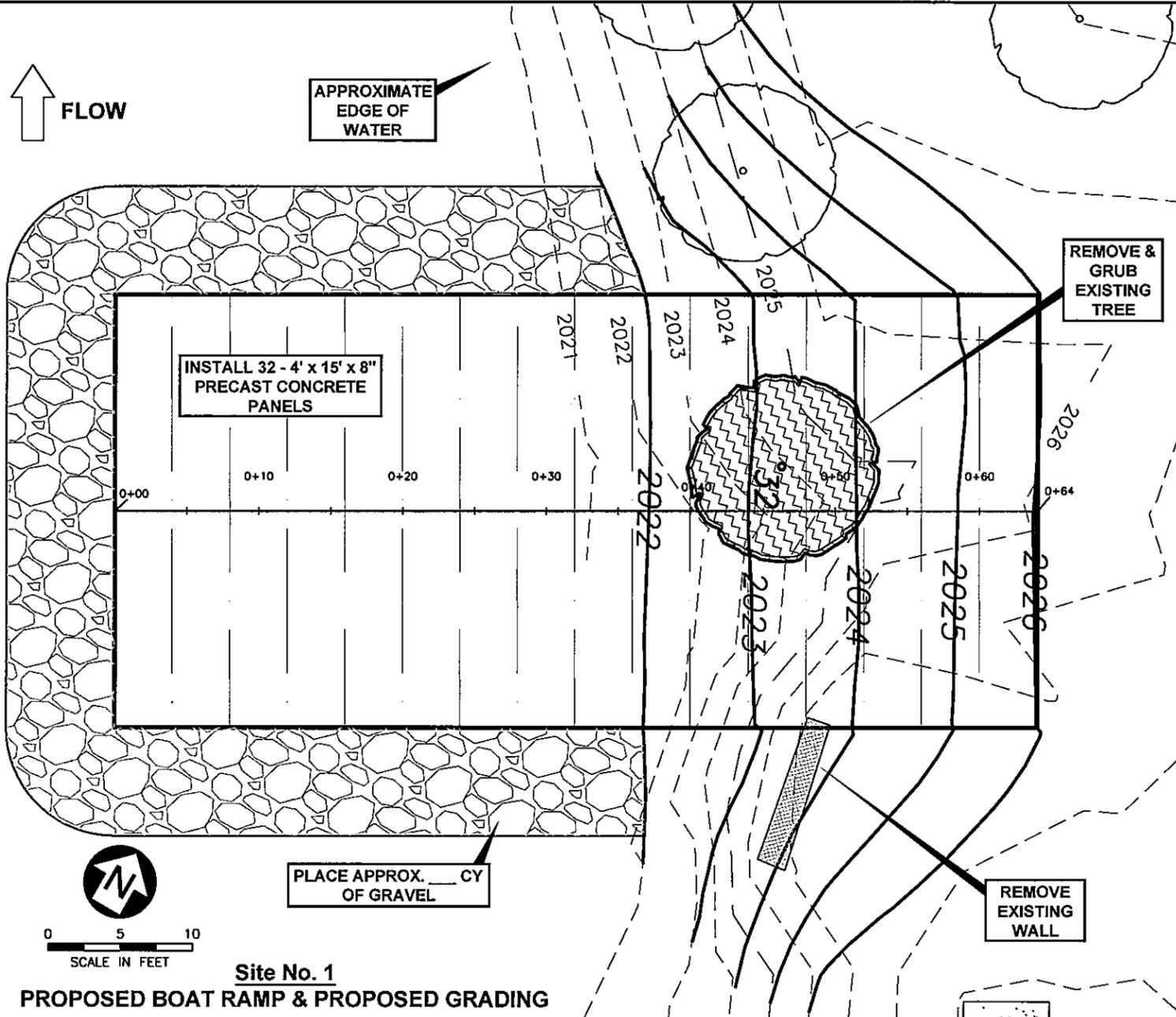
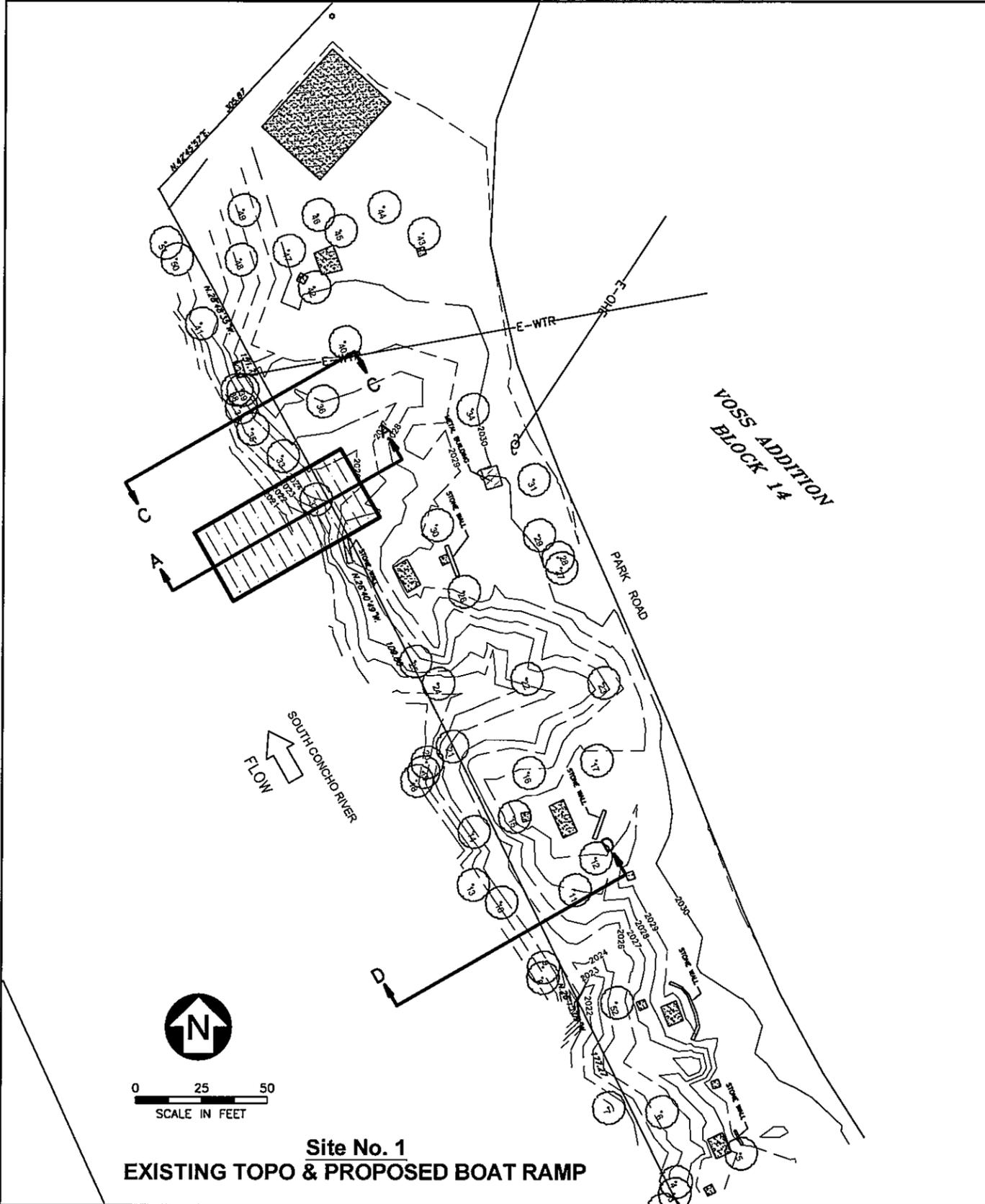


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PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT
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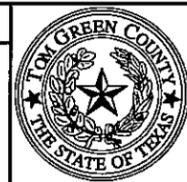
JOB NO. 8545
DRAFT
 SHEET 4 OF 8
 DRWG. NO. 8545 804



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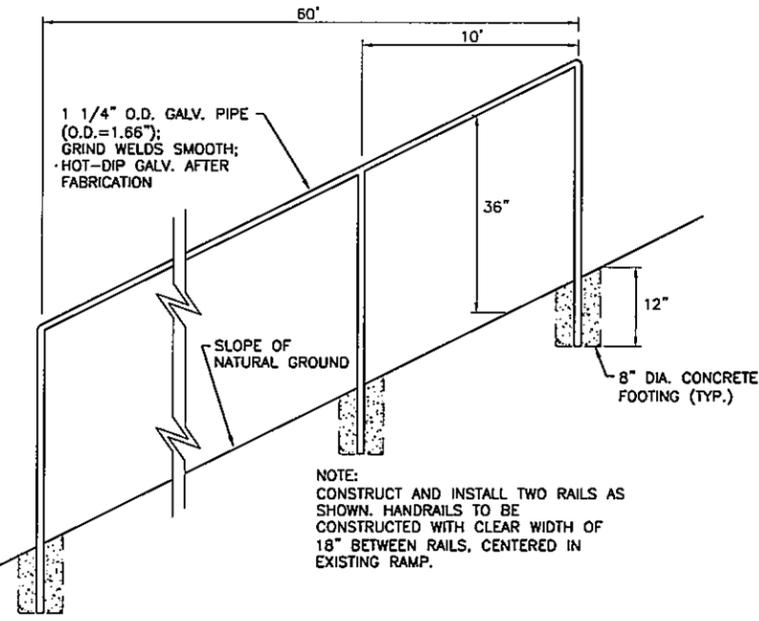
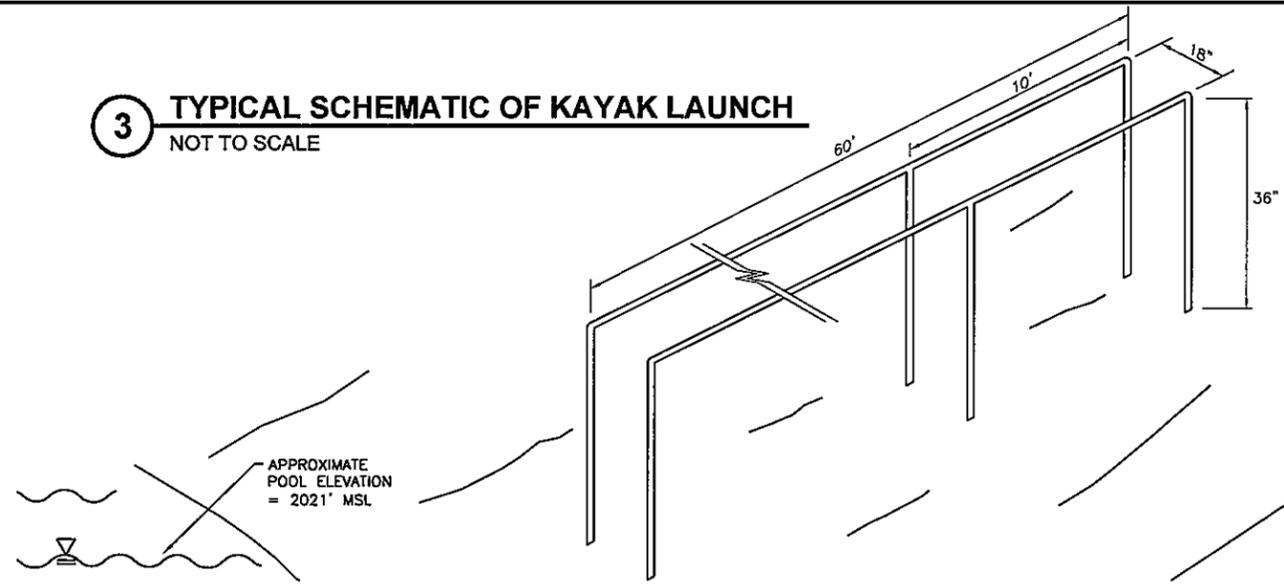
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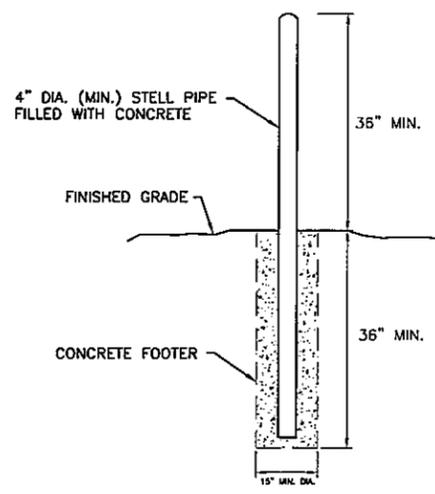
PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT
 EXISTING TOPO, PROPOSED BOAT RAMP, PROPOSED GRADING & PROFILE A-A

JOB NO. 8545
DRAFT
 SHEET 5 of 8
 DRWG. NO. 8545 PP01

3 TYPICAL SCHEMATIC OF KAYAK LAUNCH
NOT TO SCALE

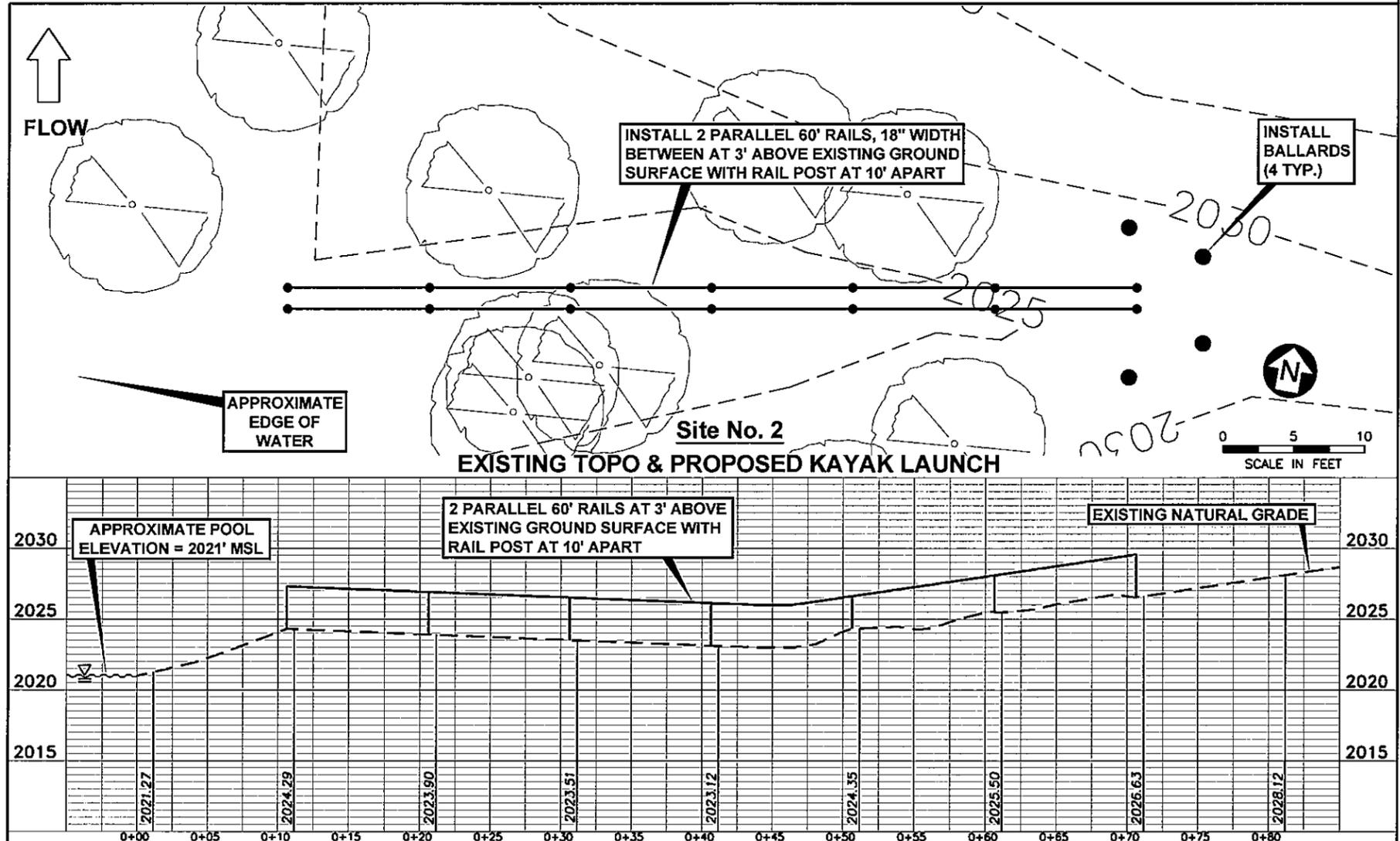


1 TYPICAL SECTION RAILING DETAIL
NOT TO SCALE



2 TYPICAL BOLLARD DETAIL
NOT TO SCALE

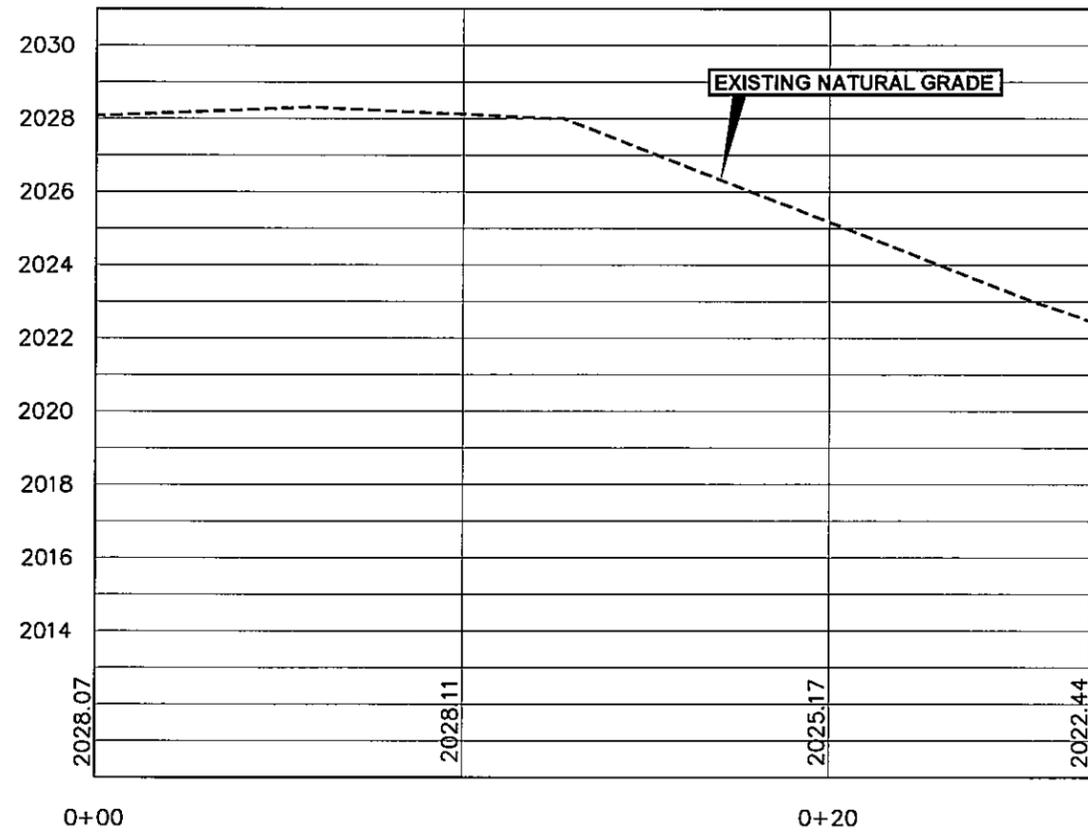
- NOTES:
1. BOLLARDS SHALL BE SPACED NOT MORE THAN 4' O.C.
2. BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT.



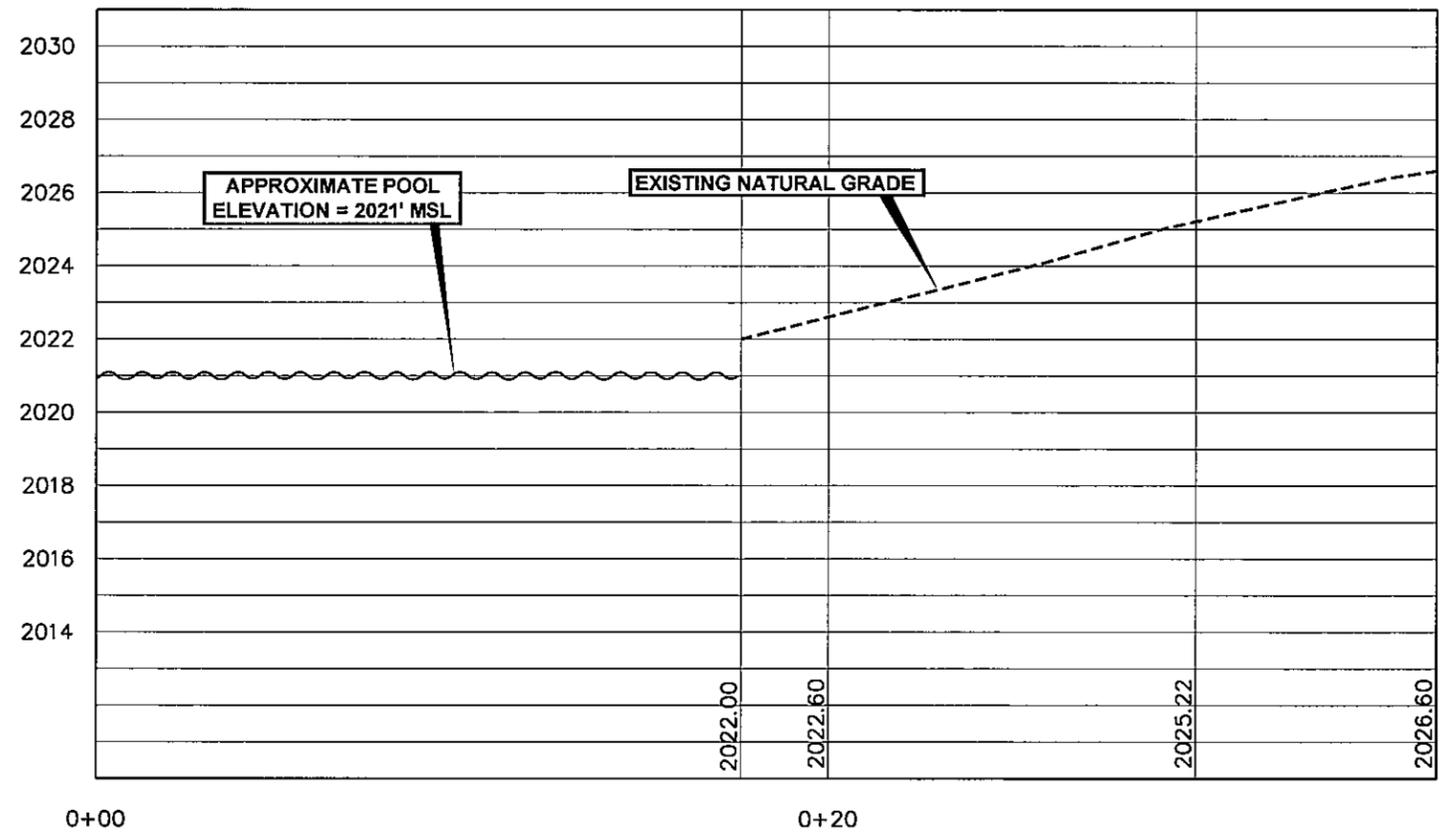
DESIGNED BY: AML		DRAWN BY: RPS		CHECKED BY: AML		APPROVED BY: AML		DATE DRAWN: 07/07/11		<p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>		<p>PRELIMINARY Not for Construction</p> <p>This document is released for REVIEW under the authority of: ADAM M. LUKE Texas P.E. 98260 on July 8, 2011.</p>		<p>PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT</p> <p>EXISTING TOPO, PROPOSED KAYAK LAUNCH, & PROFILE OF PROPOSED KAYAK LAUNCH</p>		<p>JOB NO. 8545</p> <p>DRAFT</p> <p>SHEET 6 of 8</p> <p>DRWG. NO. 8545 PP02</p>	
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TBPE Registered Firm No. F-355



1 PROFILE C - C
SEE SHEET 5

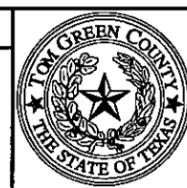


2 PROFILE D - D
SEE SHEET 5

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 DATE DRAWN: 07/08/11

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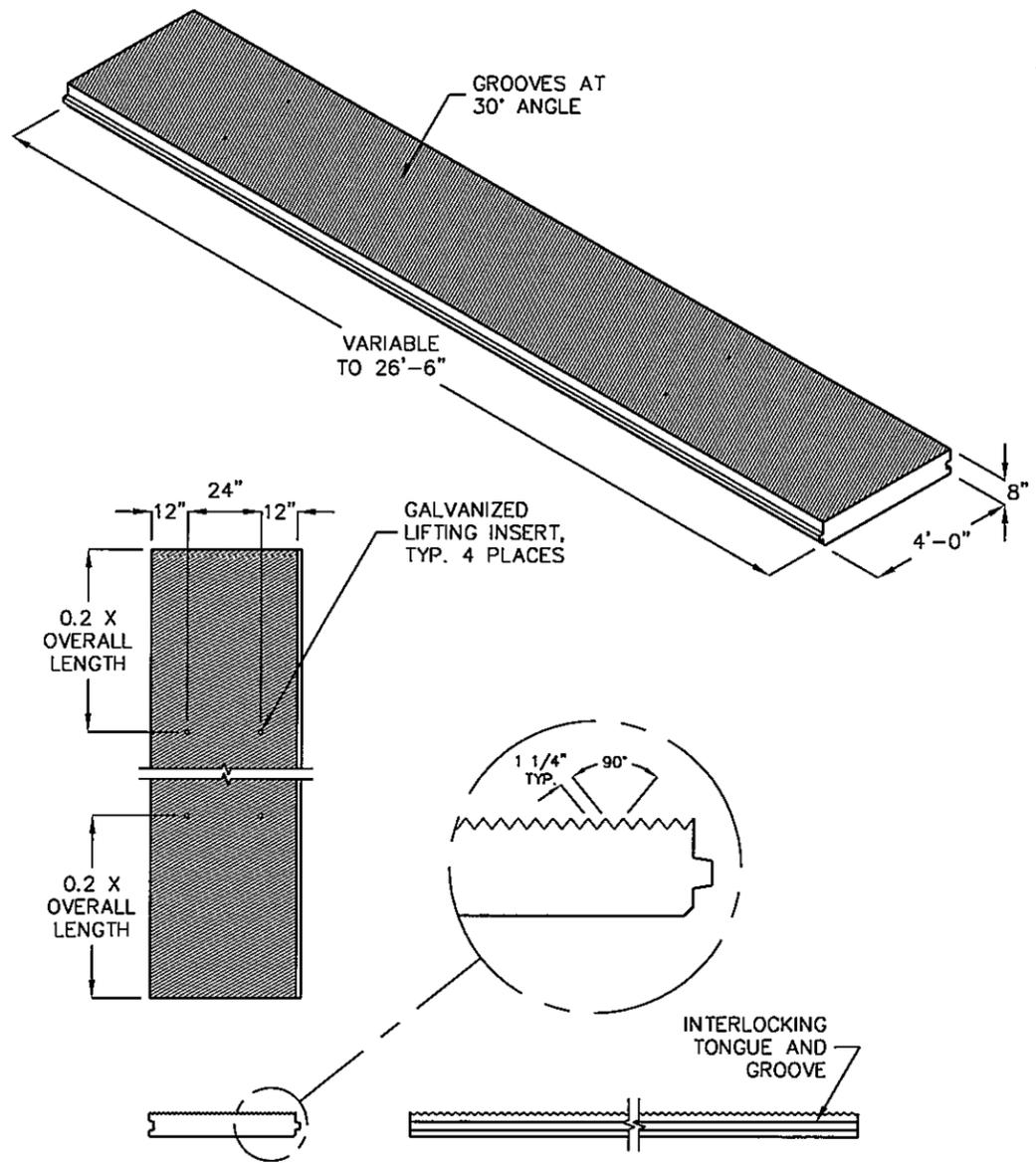


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PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT
 TYPICAL BANK PROFILES

JOB NO. 8545
DRAFT
 SHEET 7 OF 8
 DRWG. NO. 8545 B05



FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

5/30/06
BOAT RAMP_B.dwg
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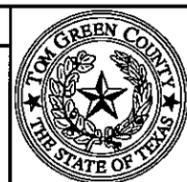


1 TYPICAL BOAT RAMP DETAIL
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PUGH PARK BOATING ACCESS IMPROVEMENT PROJECT

DETAILS

JOB NO. 8545
DRAFT
SHEET 8 OF 8
DRWG. NO. 8545 B06