

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT LEFEVRE ENGINEERING & MANAGEMENT CONSULTING (956-657-5362) 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN PROJECT SITE.
2. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO EXCAVATION NEAR THEIR UTILITIES.
3. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LEMC IN WRITING PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THIS CONSTRUCTION OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
4. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE CLEARED AND GRUBBED PRIOR TO PLACEMENT OF EXCESS TRENCH MATERIAL. DE-WATERING OF THE TRENCH MAY BE REQUIRED DURING THE INSTALLATION OF THE IMPROVEMENTS AND FACILITIES/STRUCTURES. SAID DE-WATERING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
7. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
8. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY OWNER SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
9. WHERE CONTRACTOR'S WORK AND/OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART 32 OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS M.U.T.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION. A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE ENGINEER & OTHER APPROPRIATE PERSONS.
10. LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE LINES AND/OR OBSTRUCTIONS AHEAD OF EXCAVATION.
11. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
12. OVERHEAD LINES MAY EXIST ON THE PROPERTY. CLEARLY VISIBLE LINES ARE NOT MARKED, AND CONTRACTOR TO NOTE THEIR LOCATION PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR OBJECTS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
13. CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES, IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COSTS OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR, NO SEPARATE PAY.
14. CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.
15. SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE AS DIRECTED BY THE ENGINEER. IF THE ENGINEER NOTICES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR, AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL.
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
17. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
18. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT.
19. IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
20. WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC, GOVERNMENTAL, AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GOVERNING ENTITIES.
21. TOPOGRAPHIC SURVEY PERFORMED BY HIDALGO COUNTY PLANNING DEPARTMENT—JUNE 2013

BENCHMARKS:
 1 NAIL IN POWER POLE
 ELEVATION: 66.37'

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:

| | |
|--------------------|----------------|
| TEXAS ONE CALL: | 1-800-245-4545 |
| HC PCT 4: | 956-381-3112 |
| TRDOT: | 956-702-6331 |
| TEXAS GAS SERVICE: | 956-444-3836 |
| AT&T: | 956-279-1885 |
| NORTH ALAMO WSC: | 956-383-1618 |

EXIST. CONDITION AND SURVEY CONTROL PLAN
 SCALE: 1:50'

LeFEVRE
 ENGINEERING &
 MANAGEMENT CONSULTING, L.L.C.

612 Nolans, Suite 220
 McAllen, Texas 78504
 Tel. 956.687.LEMC
 Fax. 956.687.5363

Civil Engineering
 Survey Engineering
 Planning
 Project Management

PROJECT #: 201307
 DATE: 06.06.13
 DRAWN BY: HD
 CHECKED BY: WRL
 REVISION:
 1: _____
 2: _____
 3: _____
 4: _____

**PRECINCT NO. 4 - PARKS
 RECREATIONAL FACILITY
 IMPROVEMENTS PROJECT
 (SUNFLOWER PARK)**

PROJECT :
 LOCATION :
 OWNER :

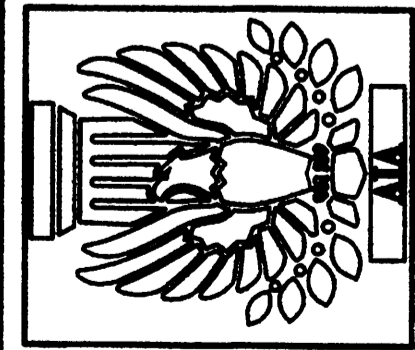
SAN CARLOS, TEXAS
 HIDALGO COUNTY
 SAN CARLOS, TEXAS



architecture
 project management
 interior design

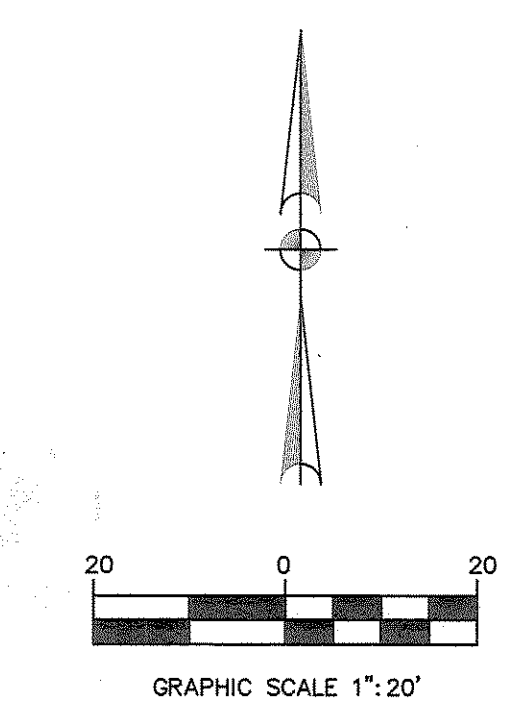
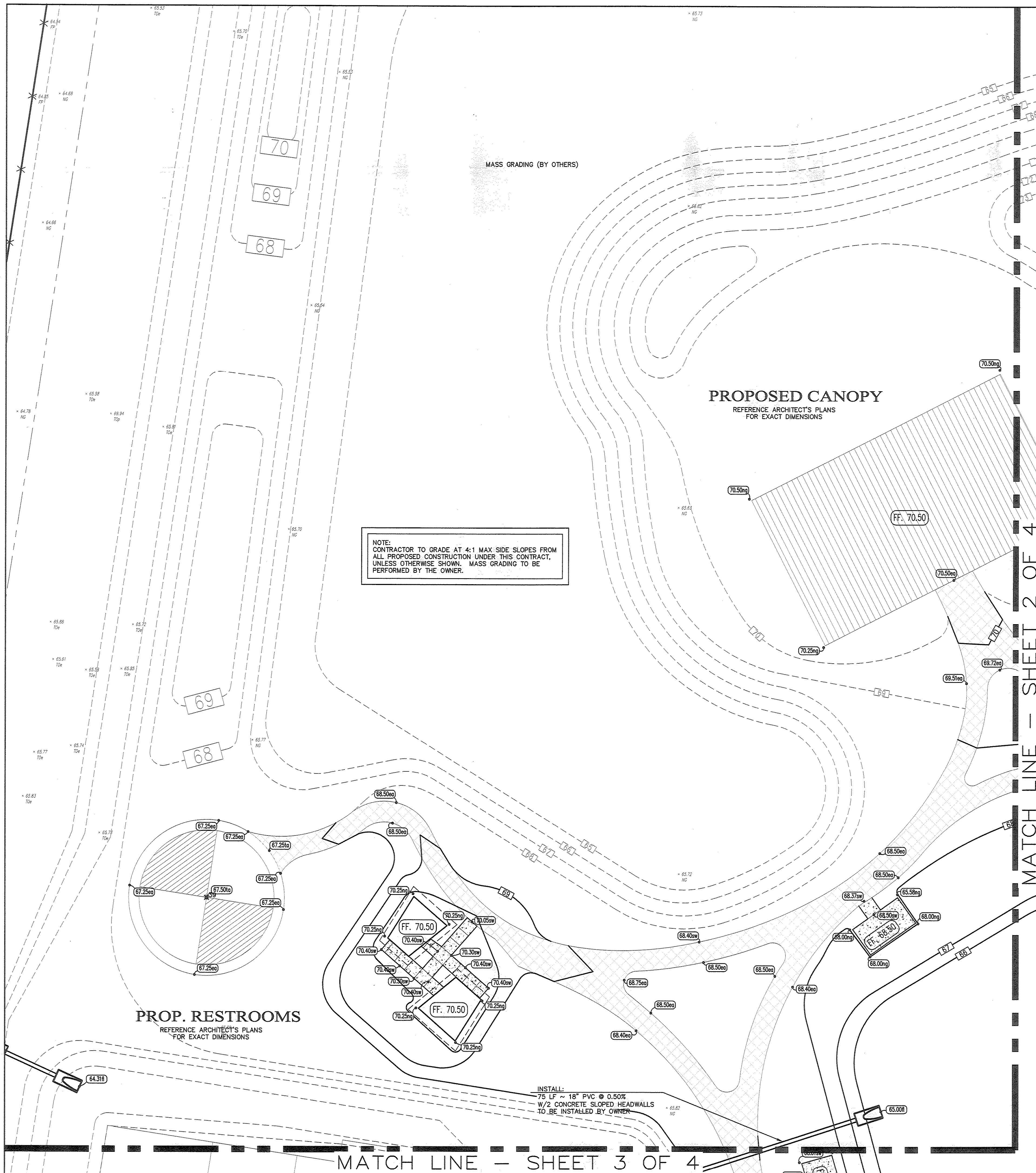
Mata & Garcia
 ARCHITECTS LLP

Fernando Mata A.J.A., Partner
 Hector Rene Garcia R.A., Partner
 194 West Ivy Avenue McAllen, Texas 78501
 Tel : (956) 659-9195 Fax : (956) 651-8868



SHEET:
2.1

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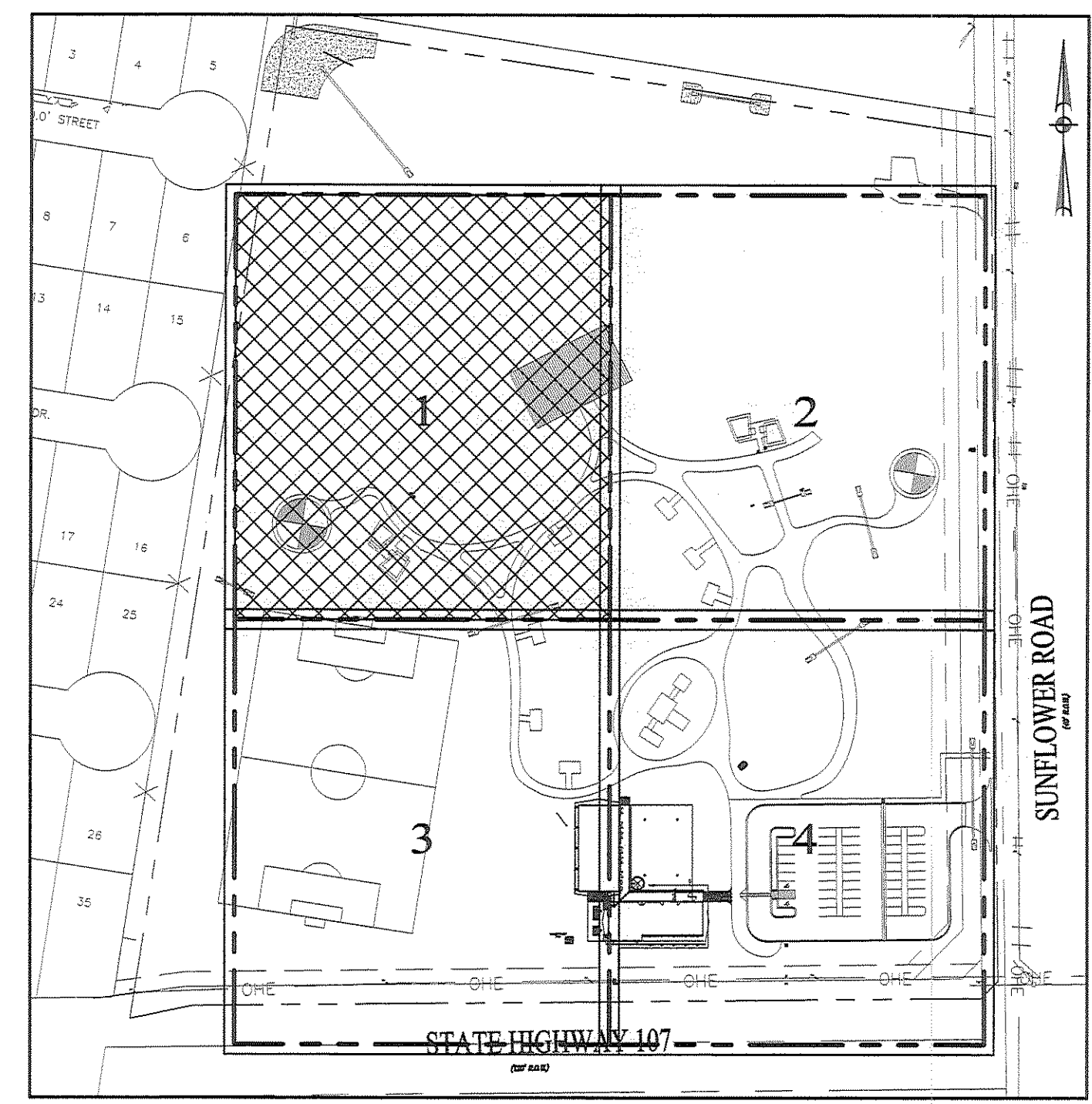
- 97.00 - MASS GRADING CONTOUR
- 10.5 - PROPOSED CONTOUR
- 00.00xx - PROPOSED SPOT ELEVATION
- xx - ABBREVIATED DESIGNATORS
- NG - NATURAL GROUND
- TC - TOP OF CURB
- G - GUTTER
- TG - TOP OF GRATE
- FF - FINISHED FLOOR
- FL - FLOW LINE
- SW - SIDEWALK
- EA - EDGE OF ASPHALT
- TA - TOP OF ASPHALT
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- BW - BOTTOM OF WALL
- > - PROPOSED FLOW DIRECTION
- x 38.50 - EXISTING SPOT ELEVATION

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| TEXAS GAS SERVICE: | 956-444-3936 |
| AT&T: | 956-279-1985 |
| NORTH ALAMO WSC: | 956-383-1618 |

GRADING NOTES:

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2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
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6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED.
7. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEO-TECHNICAL REPORT.
8. ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS SHALL BE SEEDDED IN ACCORDANCE WITH SPECIFICATION.



GRADING AND DRAINAGE PLAN 1/4
SCALE: 1" = 20'

LeFEVRE
ENGINEERING & MANAGEMENT CONSULTING, LLC.

612 Nolans, Suite 520
McAllen, Texas 78504
Tel: 956.687.LEMC
Fax: 956.687.5363

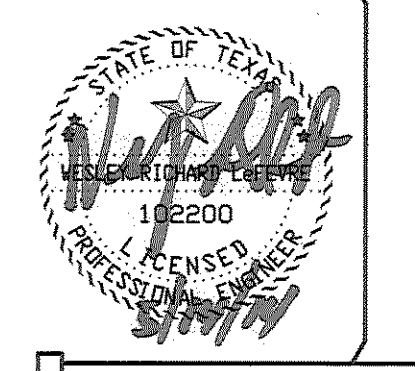
Texas Registered Engineering Firm F-11722

Civil Engineering
Environmental Engineering
Planning
Project Management

PROJECT #: 201307
DATE: 00.00.13
DRAWN BY: HO
CHECKED BY: WRL
REVISION:
1. REV. FINISHED FLOORS
2.
3.
4.

PRECINCT NO. 4 - PARKS, RECREATIONAL FACILITY IMPROVEMENTS PROJECT (SUNFLOWER PARK)

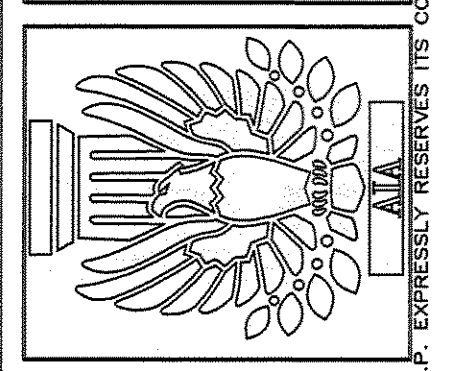
PROJECT: SAN CARLOS, TEXAS
LOCATION: HIDALGO COUNTY
OWNER:



architecture
project management
interior design

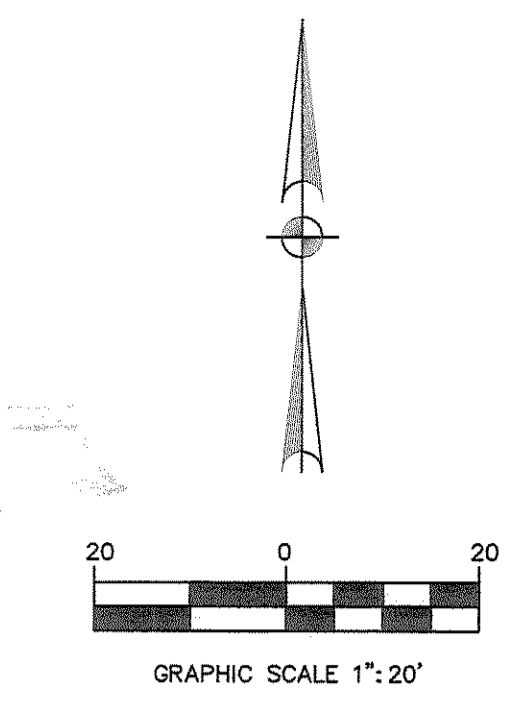
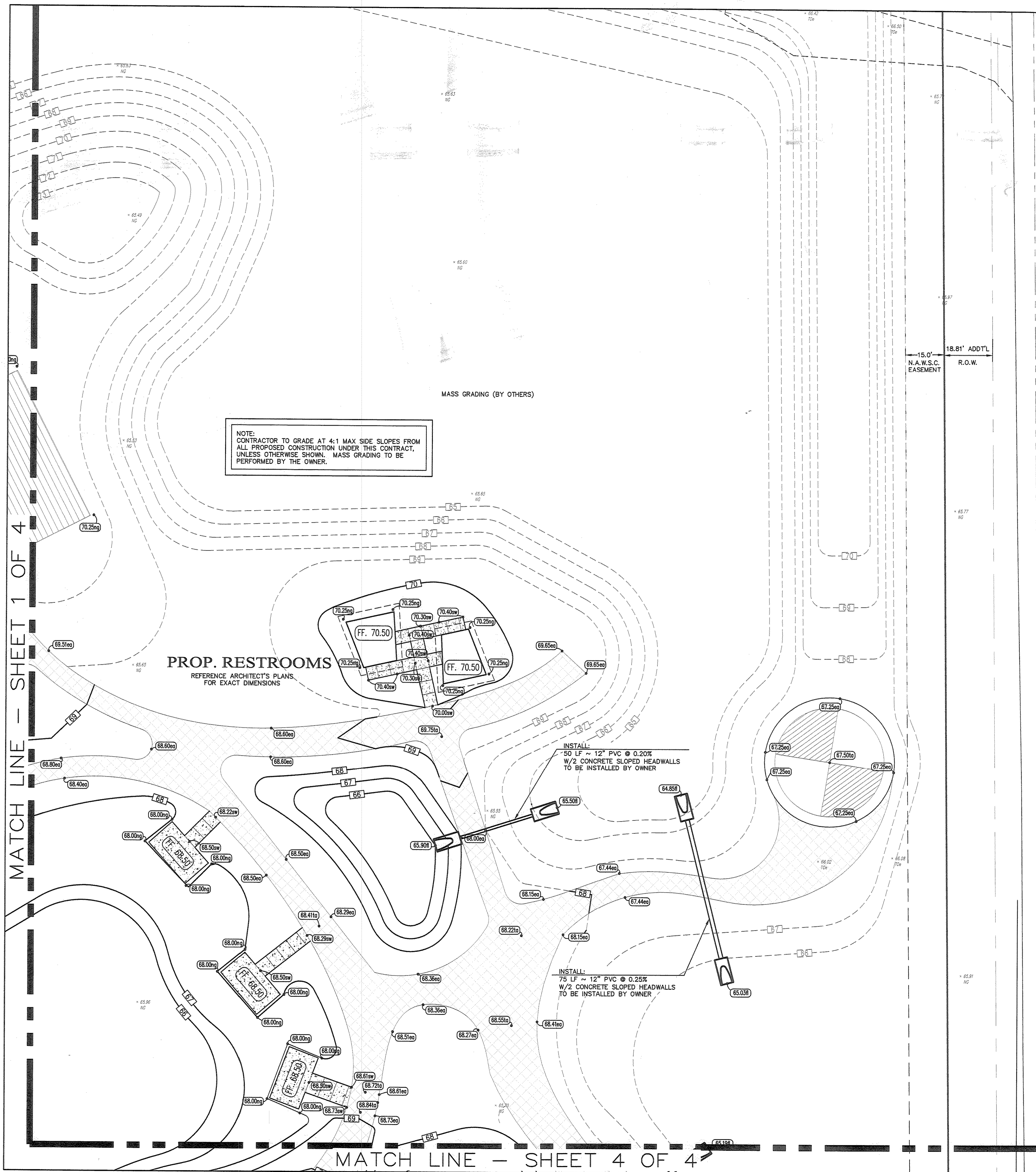
Mata & Garcia
ARCHITECTS LLP

Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
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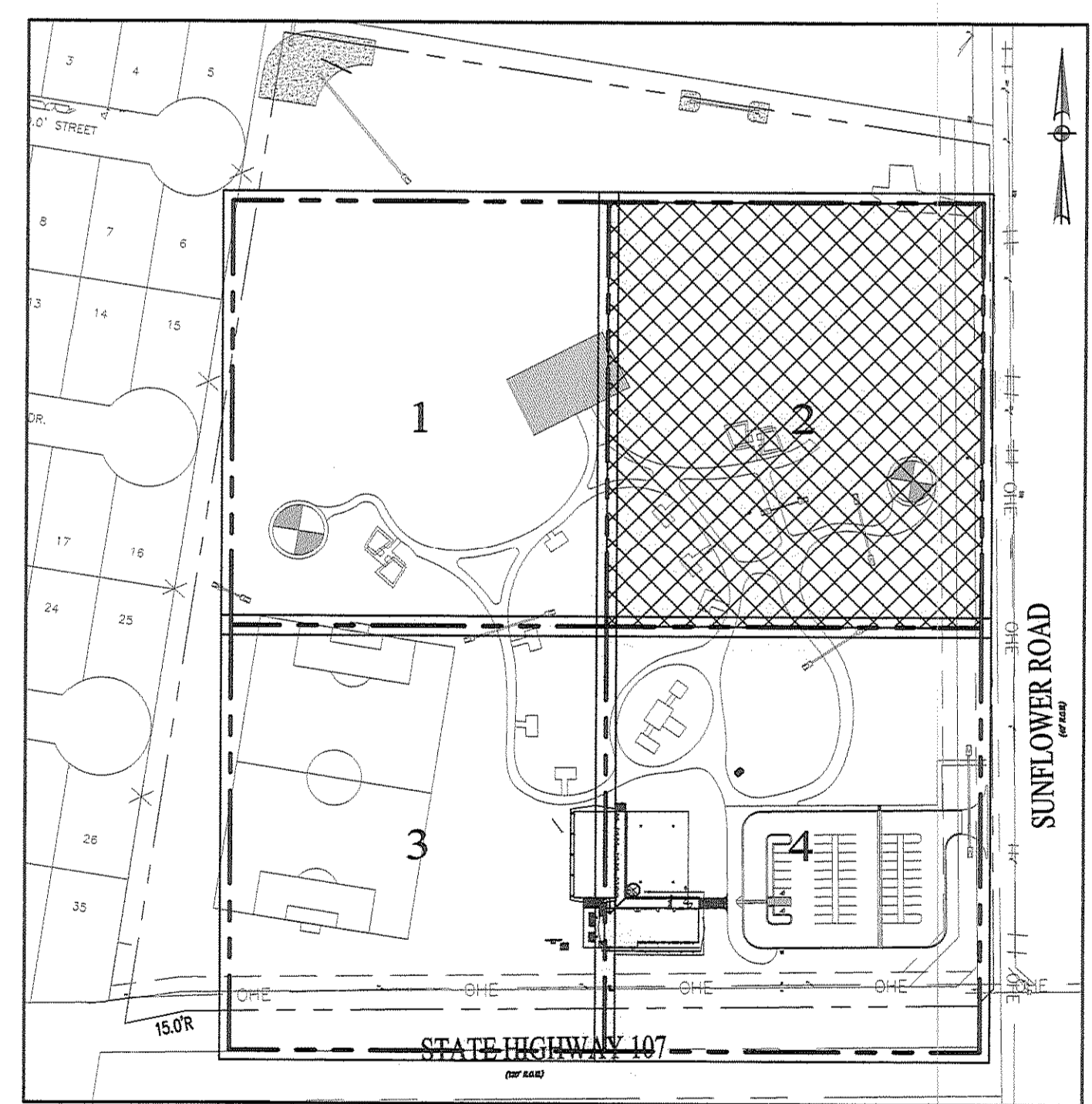
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GRADING AND DRAINAGE PLAN 2/4
SCALE: 1:20'

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Texas Registered Engineering Firm F-11722

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**PRECINCT NO. 4 - PARKS,
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IMPROVEMENTS PROJECT
(SUNFLOWER PARK)**

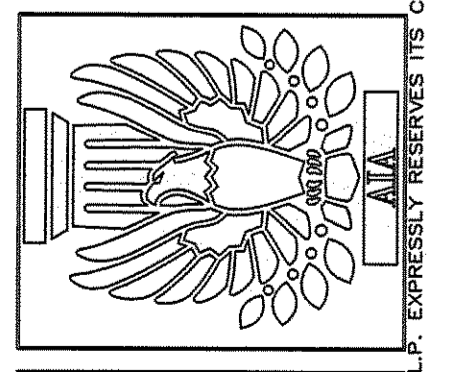
PROJECT: SAN CARLOS, TEXAS
LOCATION: HIDALGO COUNTY



architecture
project management
interior design

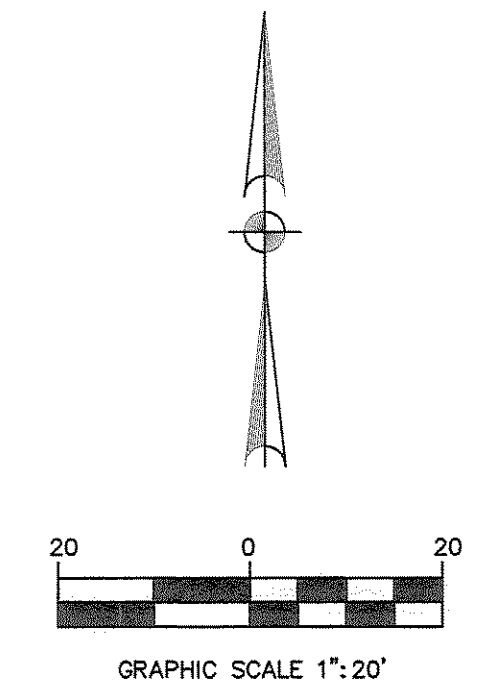
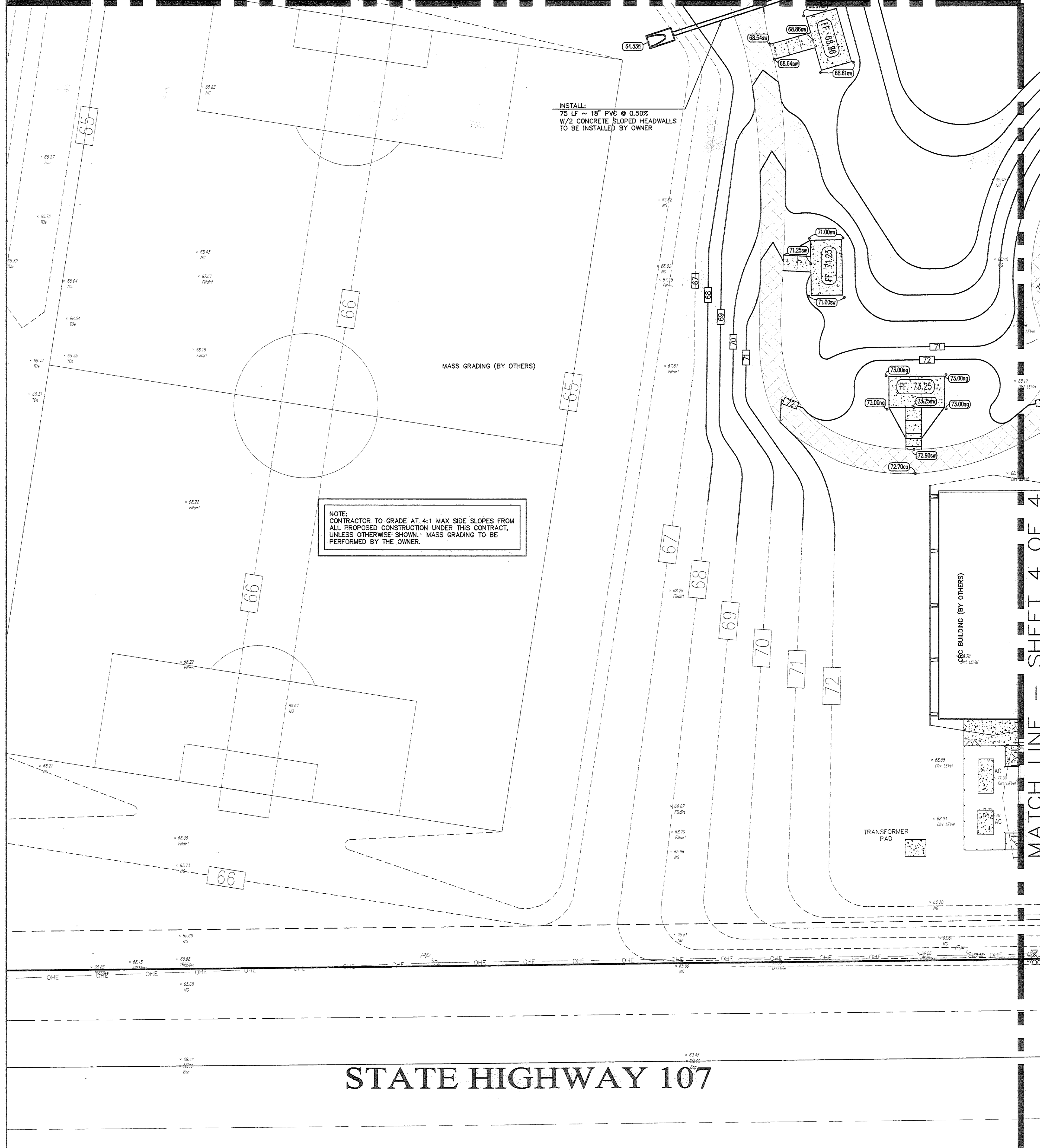
Mata & Garcia
ARCHITECTS Llp

Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
134 West Ivy Avenue McAllen, Texas 78501
Tel: (956) 631-9145 Fax: (956) 631-9568



SHEET: 2.4

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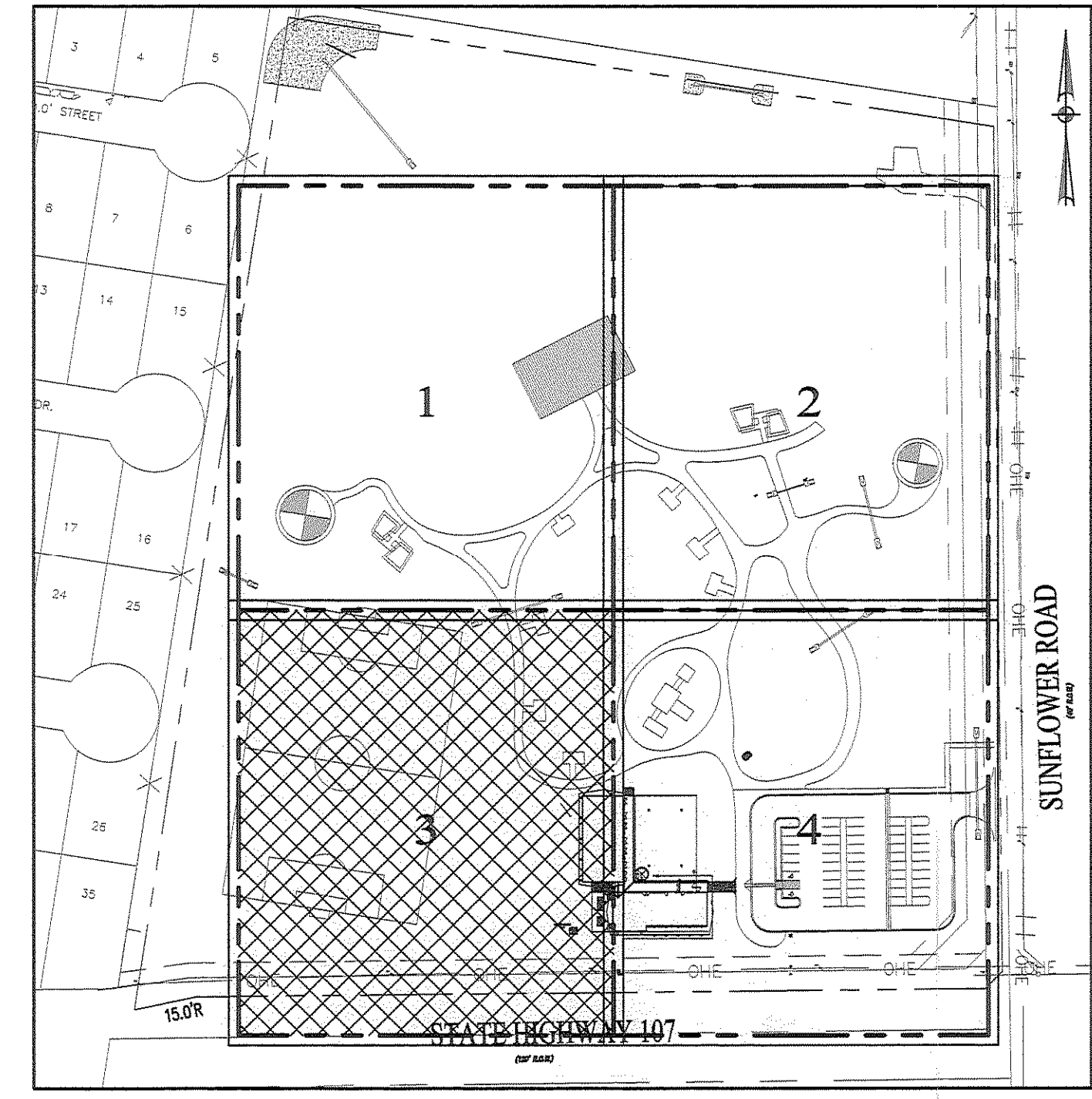
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GRADING AND DRAINAGE PLAN 3/4

SCALE: 1"=20'

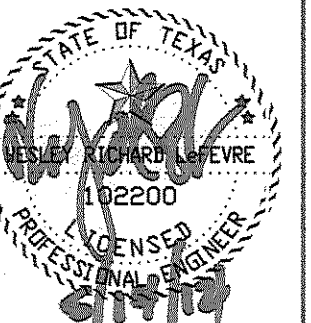
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Tel. 956.687.LEMC
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Civil Engineering
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Planning
Project Management

SHEET:

2.5



Mata & Garcia
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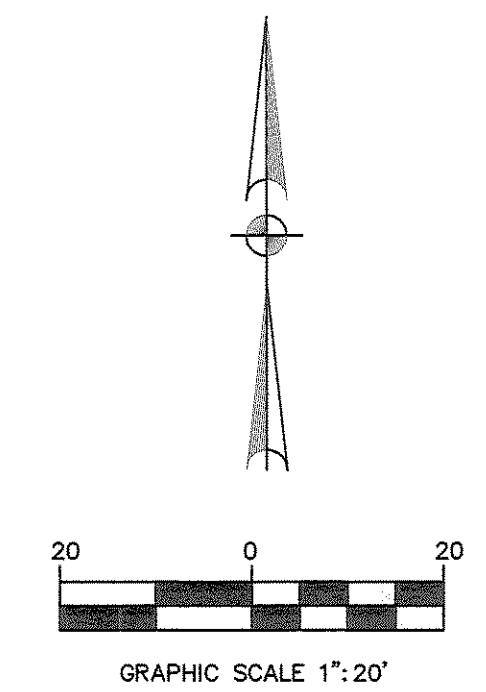
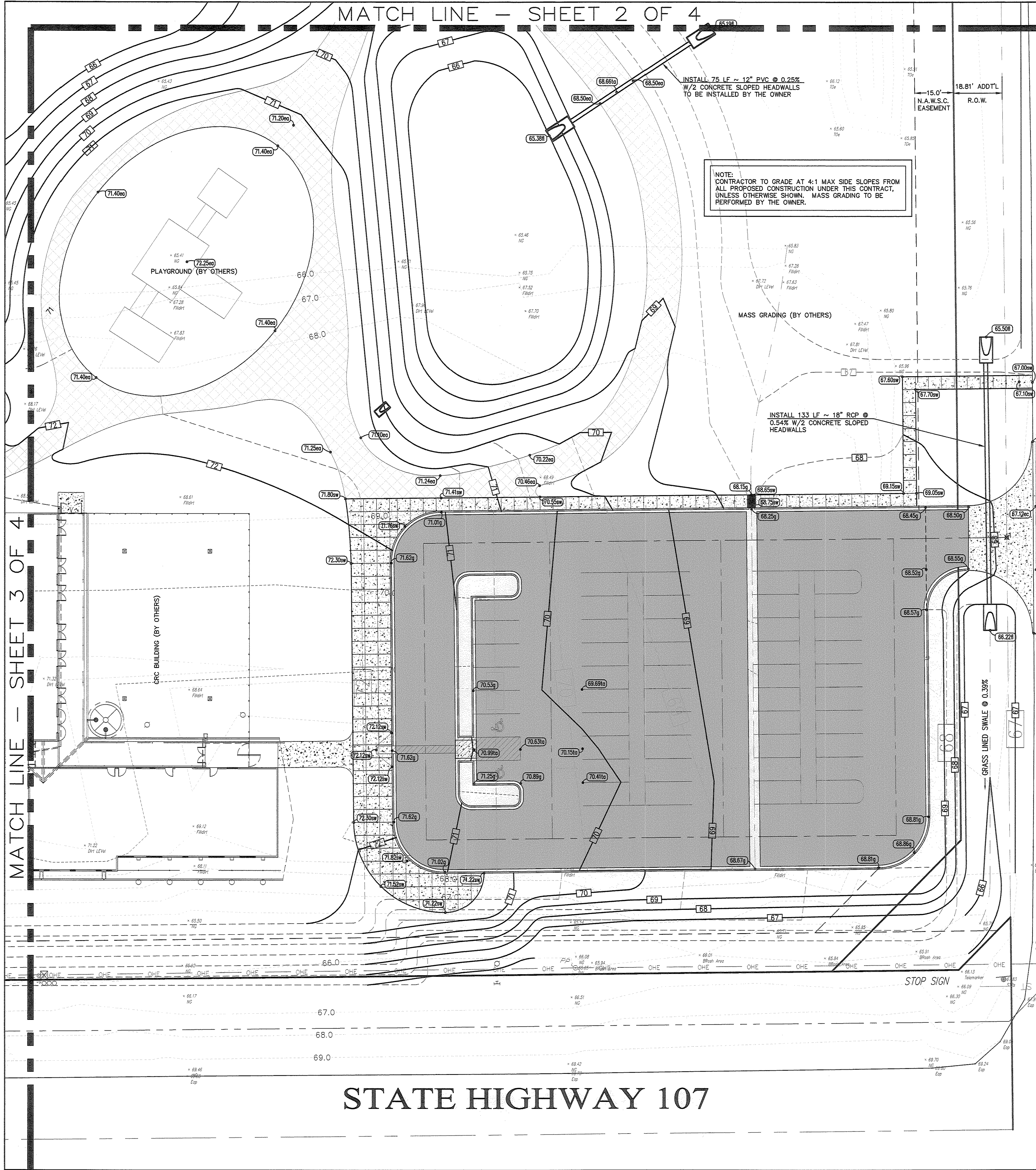
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IMPROVEMENTS PROJECT
(SUNFLOWER PARK)

PROJECT # : 201307
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REVISION:
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4:

PROJECT :
LOCATION :
OWNER :

SAN CARLOS, TEXAS
HIDALGO COUNTY

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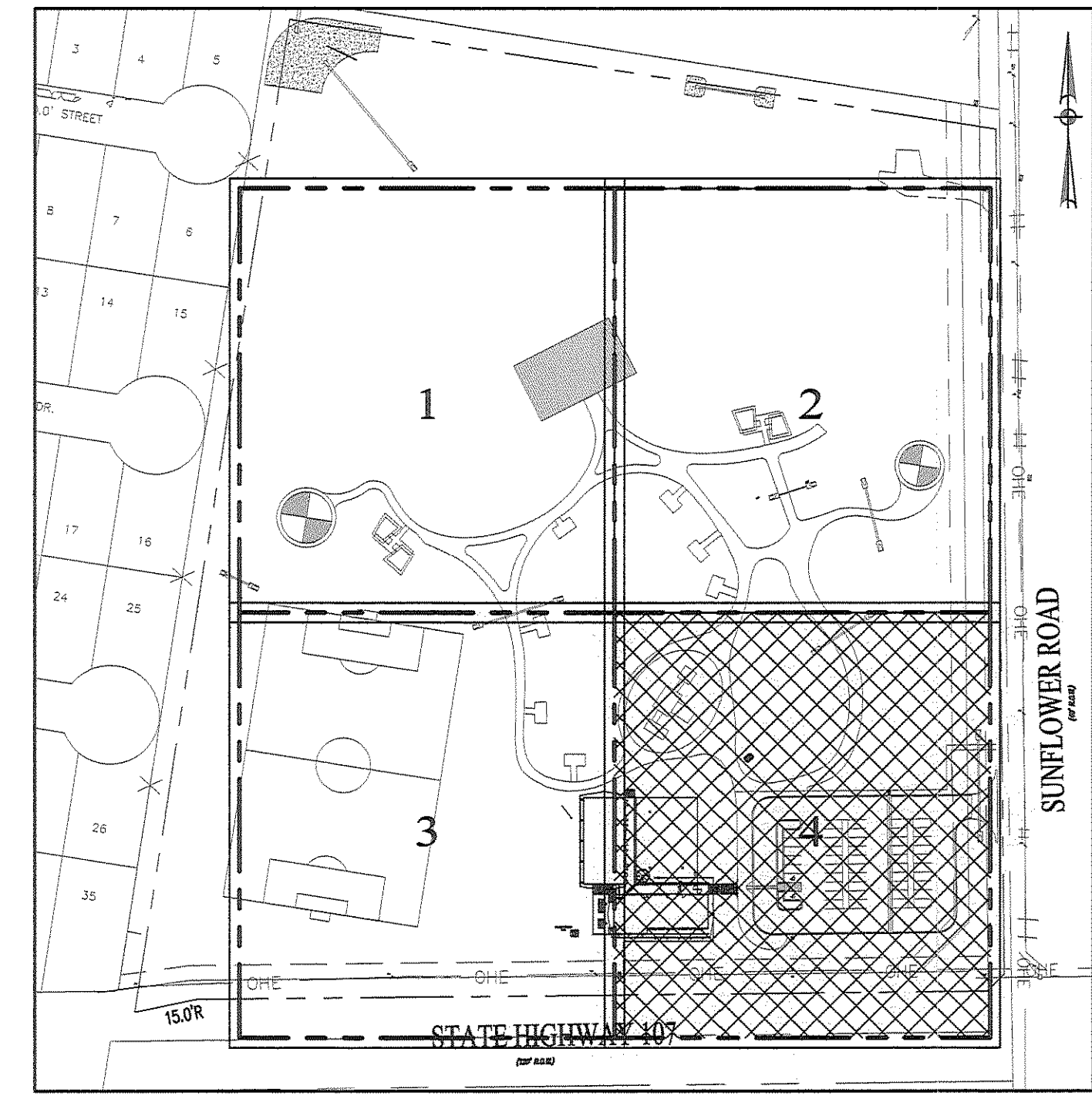
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GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE COUNTY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED.
7. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEO-TECHNICAL REPORT.
8. ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS SHALL BE SEEDDED IN ACCORDANCE WITH SPECIFICATION.



GRADING AND DRAINAGE PLAN 4/4
SCALE: 1"=20'

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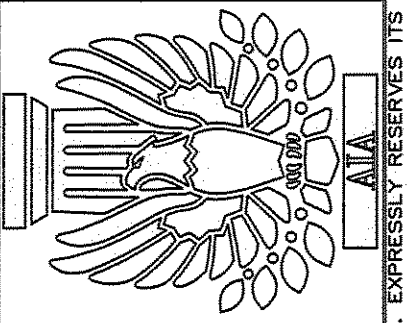
PRECINCT NO. 4 - PARKS
RECREATIONAL FACILITY
IMPROVEMENTS PROJECT
(SUNFLOWER PARK)

PROJECT: SAN CARLOS, TEXAS
LOCATION: HIDALGO COUNTY
OWNER:



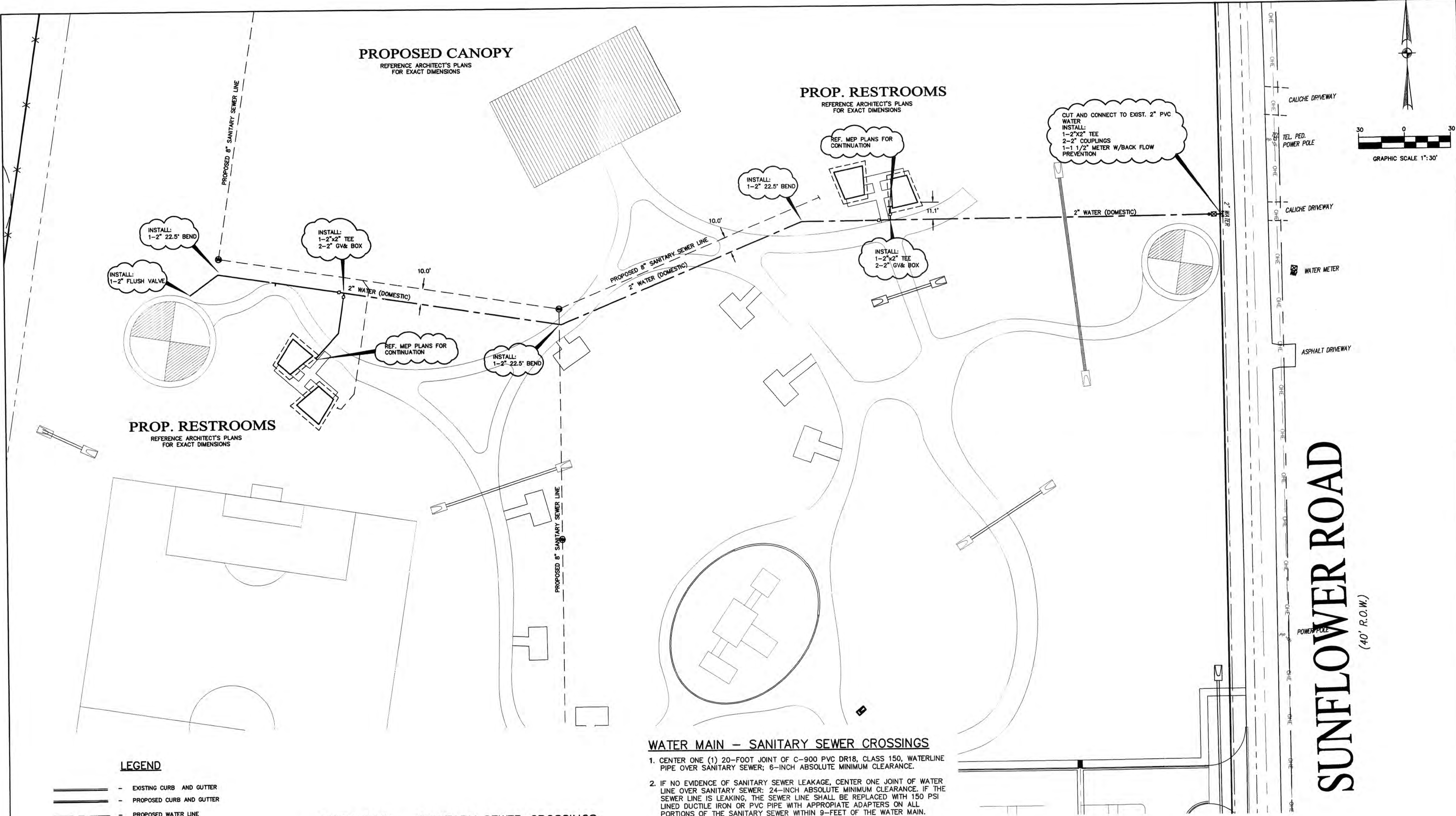
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SHEET: 2.6

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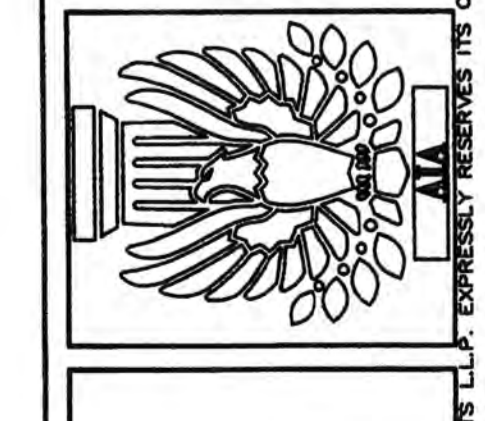


PROJECT #: 201307
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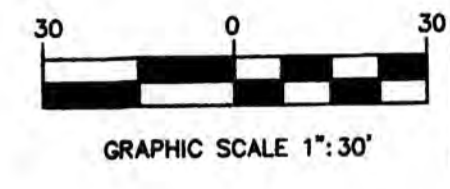
PRECINCT NO. 4 - PARKS, RECREATIONAL FACILITY IMPROVEMENTS PROJECT (SUNFLOWER PARK)
 PROJECT :
 LOCATION :
 OWNER :
 SAN CARLOS, TEXAS
 HIDALGO COUNTY



Mata & Garcia ARCHITECTS LLP
 architecture project management interior design
 Hector Rene Garcia R.A., Partner
 Fernando Mata A.I.A., Partner
 134 West Ivy Avenue McAllen, Texas 78501 Tel: (361) 634-945 Fax: (361) 634-958



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SUNFLOWER ROAD

(40' R.O.W.)

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:
 TEXAS ONE CALL: 1-800-245-4545
 HC PCT 4: 956-381-3112
 TxDOT: 956-702-6331
 TEXAS GAS SERVICE: 956-444-3936
 AT&T: 956-279-1985
 NORTH ALAMO WSC: 956-363-1618

WATER DISTRIBUTION PLAN

SCALE: 1:30'

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 612 Nolana, Suite 520
 McAllen, Texas 78504
 Tel: 361.687.1646
 Fax: 361.687.5363

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LEGEND

- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- PROPOSED WATER LINE
- PROPOSED BACKFLOW PREVENTOR
- PROPOSED WATER VALVE
- PROPOSED WATER METER

WATER NOTES:

1. ALL WATER LINES, 6" AND ABOVE SHALL BE AWWA C900 CLASS 150 PSI.
2. EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS 2 FEET BEYOND PROPOSED CURBS OR AS INDICATED.
3. MAXIMUM TRENCH WIDTH FOR ALL PIPE THROUGH 12" DIA. SHALL BE 32".
4. CONTRACTOR TO DESIGN AND INSTALL THRUST BLOCKS AT ALL BENDS IN WATERLINE.
5. FIRE HYDRANT AND WATER VALVE MUST BE MUELLER.
6. ALL CAST IRON FITTINGS MUST BE WRAPPED IN PLASTIC.

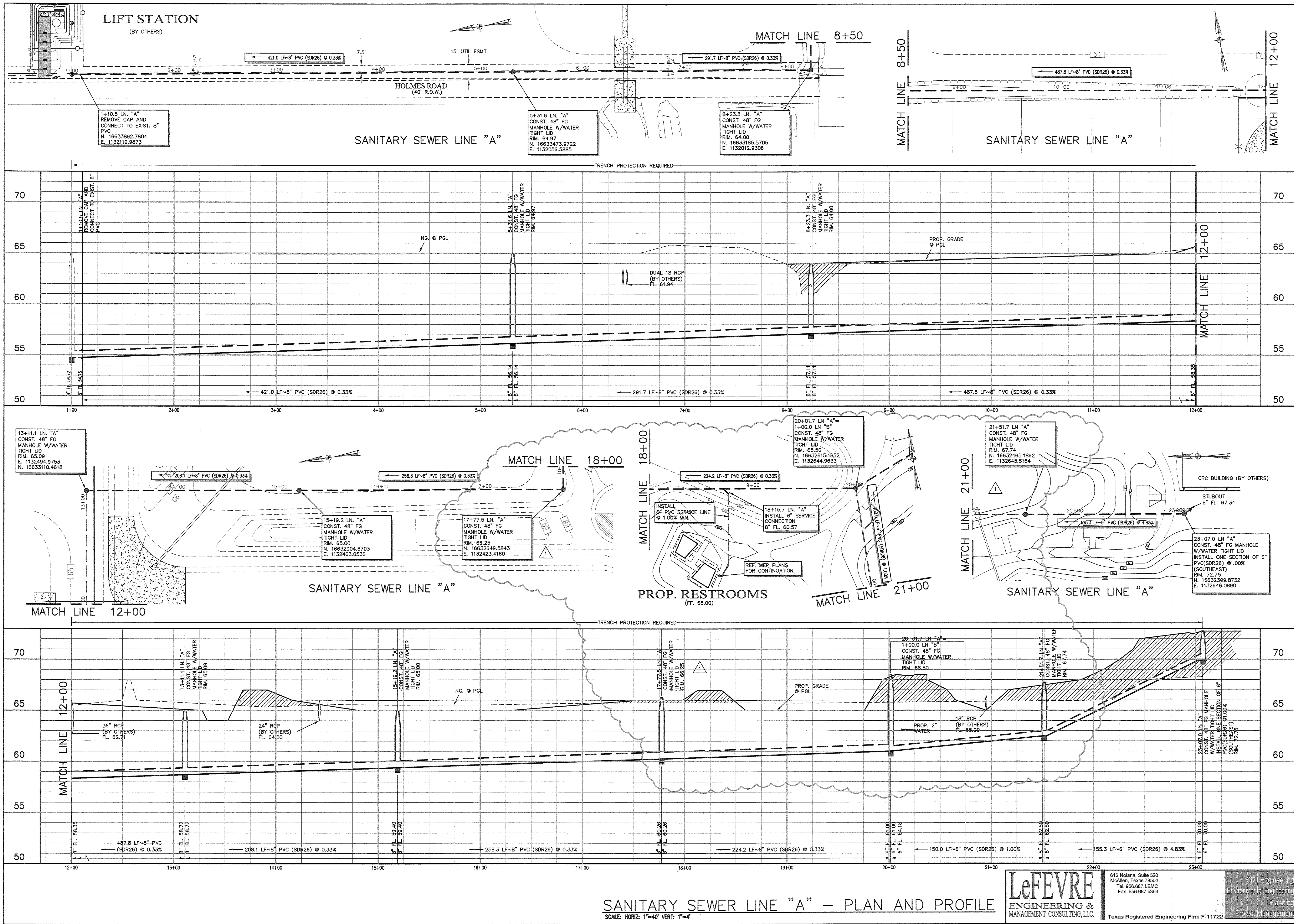
WATER MAIN - SANITARY SEWER CROSSINGS

| PRIMARY CONDITION | PROPOSED WATER EXISTING SANITARY | | PROPOSED WATER EXISTING WATER OR PROPOSED SANITARY | |
|-------------------------|----------------------------------|----------------------------------|--|----------------------------------|
| | WATER OVER SANITARY | WATER UNDER SANITARY | WATER OVER SANITARY | WATER UNDER SANITARY |
| IF THE CLEARANCE IS | LESS THAN 2' | GREATER THAN 2' BUT LESS THAN 9' | LESS THAN 2' | GREATER THAN 2' BUT LESS THAN 9' |
| *PROTECTION REQUIREMENT | 1 | 2 | 3 | 4 |

*PROTECTION REQUIREMENTS FOR SANITARY SEWER CROSSINGS (UNLESS VARIANCE IS GRANTED BY THE TCEQ)
 (ALL CLEARANCES SHALL BE MEASURED FROM OUTSIDE WALL TO OUTSIDE WALL)

WATER MAIN - SANITARY SEWER CROSSINGS

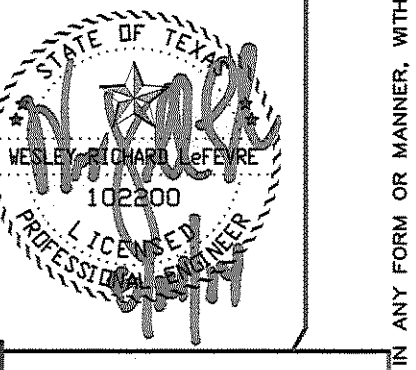
1. CENTER ONE (1) 20-FOOT JOINT OF C-900 PVC DR18, CLASS 150, WATERLINE PIPE OVER SANITARY SEWER; 6-INCH ABSOLUTE MINIMUM CLEARANCE.
2. IF NO EVIDENCE OF SANITARY SEWER LEAKAGE, CENTER ONE JOINT OF WATER LINE OVER SANITARY SEWER; 24-INCH ABSOLUTE MINIMUM CLEARANCE. IF THE SEWER LINE IS LEAKING, THE SEWER LINE SHALL BE REPLACED WITH 150 PSI LINED DUCTILE IRON OR PVC PIPE WITH APPROPRIATE ADAPTERS ON ALL PORTIONS OF THE SANITARY SEWER WITHIN 9- FEET OF THE WATER MAIN.
3. AUGER 9- FEET MINIMUM EACH SIDE OF SANITARY SEWER. PLACE ONE 20-FOOT JOINT OF C900 PVC, 150 PSI, CENTERED UNDER SANITARY SEWER. FILL BORED HOLE WITH BENTONITE/CLAY MIXTURE; 2-FOOT ABSOLUTE MINIMUM CLEARANCE OR REPLACE THE EXISTING SANITARY SEWER WITH 150 PSI LINED DUCTILE IRON OR PVC PIPE WITH APPROPRIATE ADAPTERS ON ALL PORTIONS OF THE SANITARY WITHIN 9- FEET OF THE WATER MAIN.
4. MINIMUM 18-FOOT JOINT OF SANITARY SEWER, 150 PSI LINED DUCTILE IRON OR PVC PIPE CENTERED AT THE WATER LINE; 6-INCH ABSOLUTE MINIMUM CLEARANCE.
5. IF CLEARANCE IS BETWEEN 2 TO 9- FEET
 - A. CENTER A MINIMUM 18-FOOT JOINT OF 150 PSI LINED DUCTILE IRON OR PVC PIPE AT WATER LINE.
 - B. USE CEMENT-STABILIZED SAND BACKFILL (MINIMUM 2 SACKS CEMENT PER CUBIC YARD OF SAND) STARTING AT A POINT 1/4 OF THE PIPE DIAMETER ABOVE THE BOTTOM OF THE SANITARY SEWER TO 1-FOOT ABOVE THE TOP OF SANITARY SEWER, OR ONE SANITARY SEWER DIAMETER, WHICHEVER IS LARGER. CENTER ONE JOINT OF SANITARY SEWER PIPE ABOUT THE WATER MAIN.
7. ALL WATER CROSSINGS TO BE APPROVED BY LEMC AND/OR NORTH ALAMO WATER SUPPLY CORPORATION, AND CITY OF EDINBURG UPON COMPLETION.



PROJECT # 201307
 DATE: 03.00.13
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PRECINCT NO. 4 - PARKS RECREATIONAL FACILITY IMPROVEMENTS PROJECT (SUNFLOWER PARK)

PROJECT: SAN CARLOS, TEXAS
 LOCATION: HIDALGO COUNTY
 OWNER: MATA-GARCIA ARCHITECTS LLP - 2012

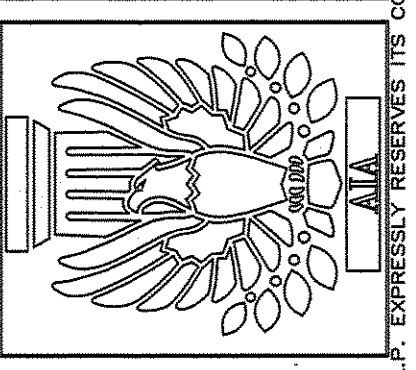


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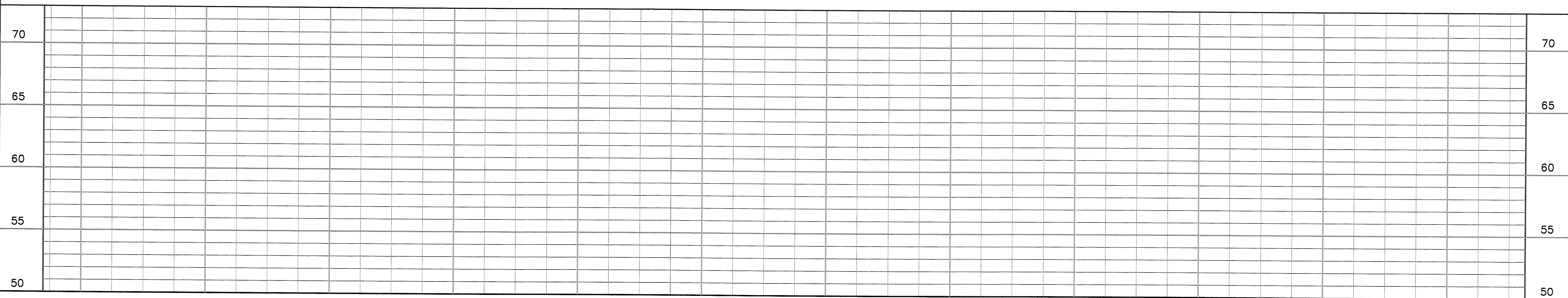
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 Fax. 956.687.5363

Texas Registered Engineering Firm F-11722



SANITARY SEWER LINE "B" - PLAN AND PROFILE

SCALE: HORIZ: 1"=40' VERT: 1"=4'

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PROJECT #: 201307
DATE: 06/01/13
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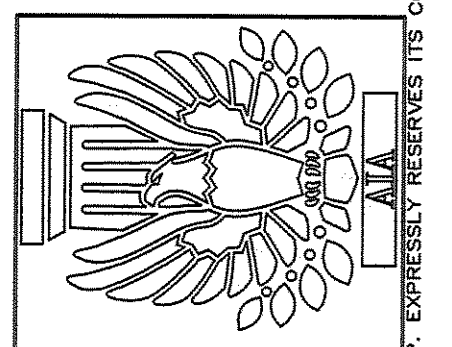
**PRECINCT NO. 4 - PARKS
RECREATIONAL FACILITY
IMPROVEMENTS PROJECT
(SUNFLOWER PARK)**

PROJECT :
LOCATION :
OWNER :
SAN CARLOS, TEXAS
HIDALGO COUNTY
MATA-GARCIA ARCHITECTS L.L.P. - 22812

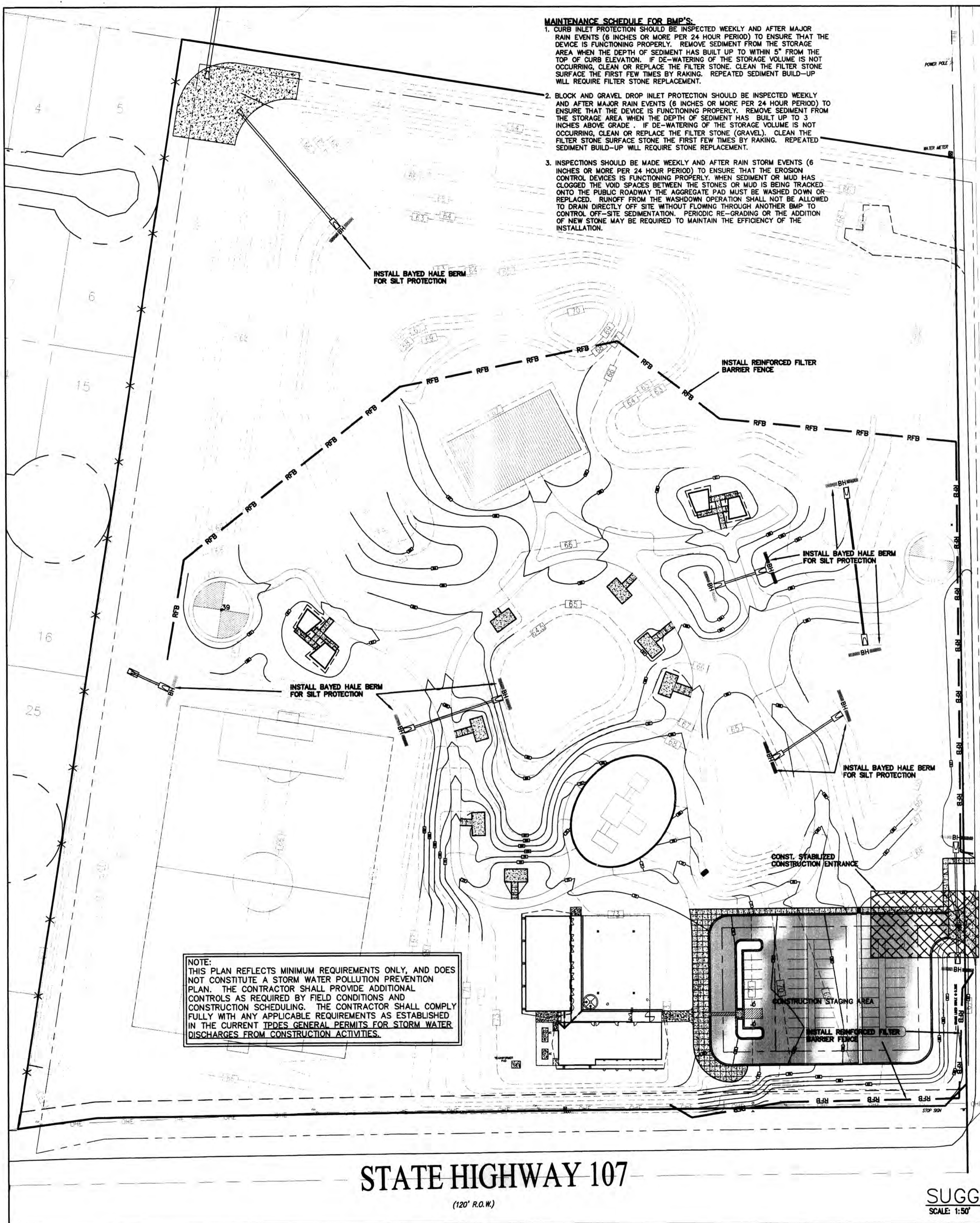


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MAINTENANCE SCHEDULE FOR BMP'S:

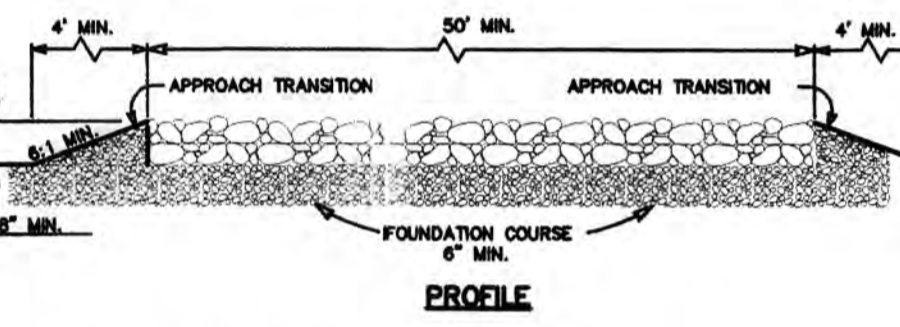
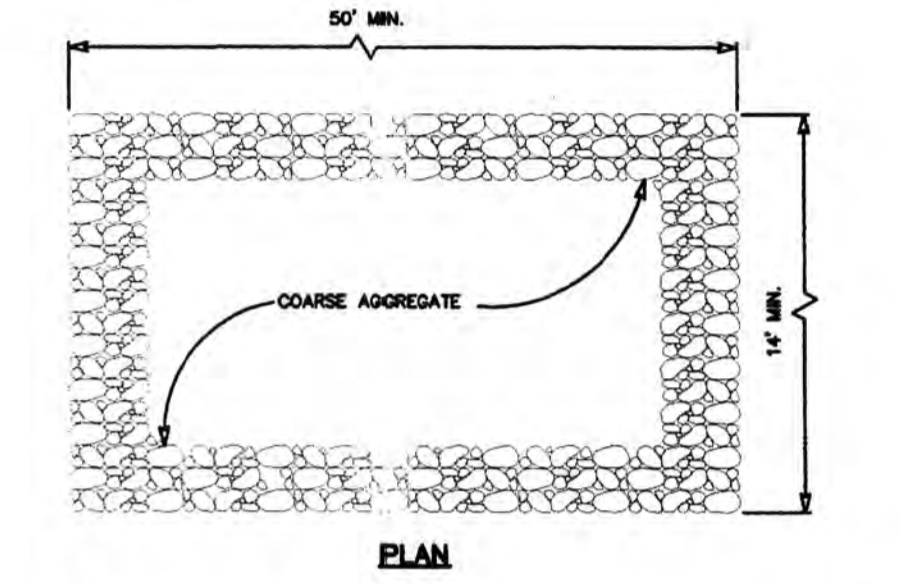
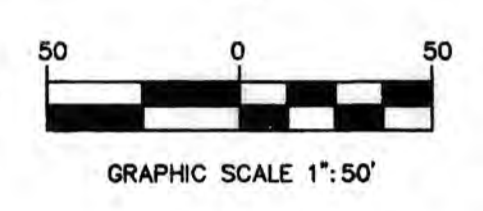
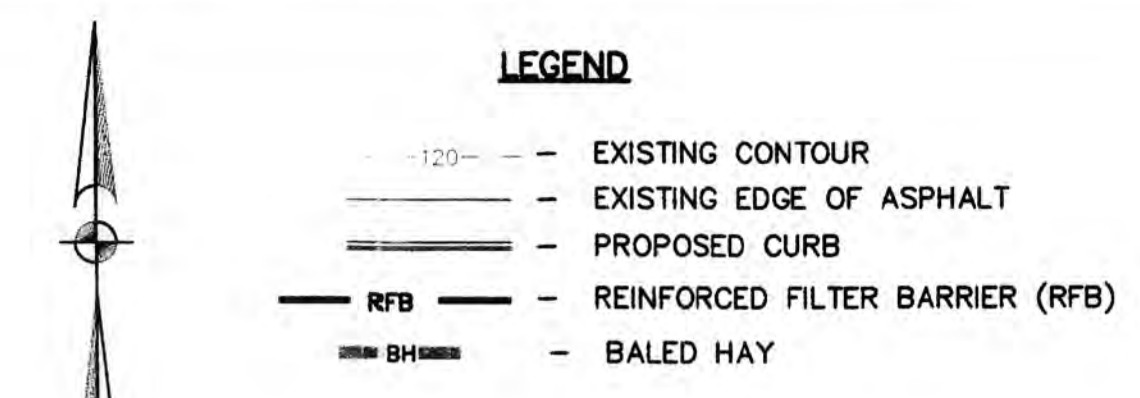
1. CURB INLET PROTECTION SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAIN EVENTS (6 INCHES OR MORE PER 24 HOUR PERIOD) TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO WITHIN 5" FROM THE TOP OF CURB ELEVATION. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE. CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.
2. BLOCK AND GRAVEL DROP INLET PROTECTION SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAIN EVENTS (6 INCHES OR MORE PER 24 HOUR PERIOD) TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO 3 INCHES ABOVE GRADE. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE (GRAVEL). CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE STONE REPLACEMENT.
3. INSPECTIONS SHOULD BE MADE WEEKLY AND AFTER RAIN STORM EVENTS (6 INCHES OR MORE PER 24 HOUR PERIOD) TO ENSURE THAT THE EROSION CONTROL DEVICES IS FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASHDOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FLOWING THROUGH ANOTHER BMP TO CONTROL OFF-SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.

NOTE:
THIS PLAN REFLECTS MINIMUM REQUIREMENTS ONLY, AND DOES NOT CONSTITUTE A STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROLS AS REQUIRED BY FIELD CONDITIONS AND CONSTRUCTION SCHEDULING. THE CONTRACTOR SHALL COMPLY FULLY WITH ANY APPLICABLE REQUIREMENTS AS ESTABLISHED IN THE CURRENT TPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.

STATE HIGHWAY 107
(120' R.O.W.)

SUNFLOWER ROAD
(40' R.O.W.)

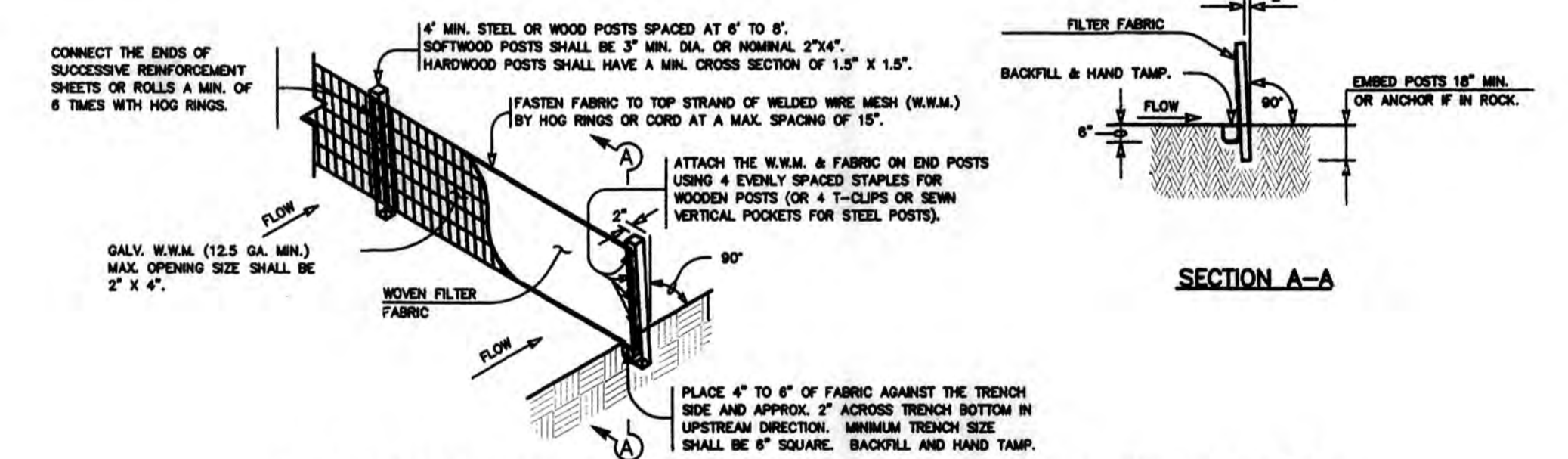
SUGGESTED EROSION CONTROL PLAN
SCALE: 1"=50'



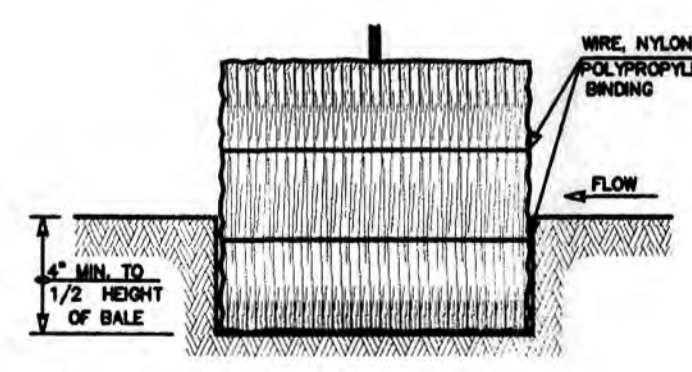
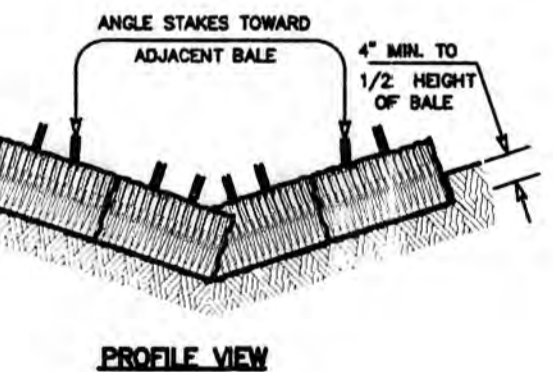
GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 8:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT (TYPE 1)
SCALE: N.T.S.

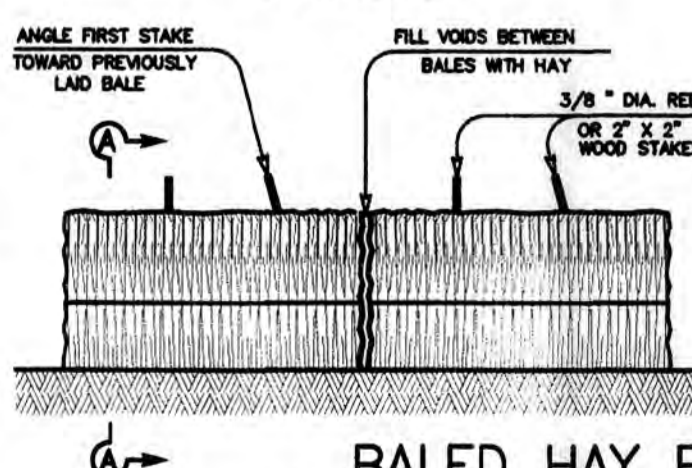
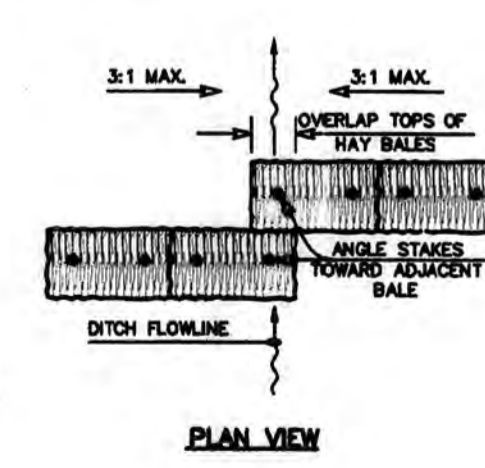


TEMPORARY REINFORCED FILTER BARRIER (RFB)
SCALE: N.T.S.



GENERAL NOTES

1. HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
2. HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETATIVE MATTER.
3. HAY BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND WHERE POSSIBLE 1/2 THE HEIGHT OF THE BALE.
4. HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BROADS PARALLEL TO THE GROUND.
5. HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2" X 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANCHORED THROUGH THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



BAILED HAY FOR EROSION CONTROL
SCALE: N.T.S.

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EROSION CONTROL GENERAL NOTES

1. IT IS THE INTENT OF THE INFORMATION PROVIDED ON THIS SHEET AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES PUBLISHED IN THE FEBRUARY 14, 1998, FEDERAL REGISTER.
2. THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THE FOLLOWING:
 - A) DEFINE THE CHARACTERISTICS OF THE SITE AND THE TYPE OF CONSTRUCTION WHICH WILL BE OCCURRING;
 - B) DESCRIBE THE SITE PLAN FOR THE FACILITY TO BE CONSTRUCTED;
 - C) DESCRIBE THE PRACTICES THAT WILL BE IMPLEMENTED TO CONTROL EROSION AND THE RELEASE OF POLLUTANTS IN STORM WATER;
 - D) CREATE AN IMPLEMENTATION SCHEDULE;
 - E) DESCRIBE THE FINAL STABILIZATION/TERMINATION DESIGN TO MINIMIZE EROSION AND PREVENT STORM WATER IMPACTS AFTER CONSTRUCTION IS COMPLETE.
3. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND RECONFIGURATIONS REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
7. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.
8. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASES, PAINTS, GASOLINE AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE: DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE; CONVENIENTLY LOCATED WASTE RECEPTACLES; AND DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.
9. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
11. BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPP). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDING WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
13. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXTING ONTO ANY PAVED ROADWAY.
14. THE CONTRACTOR SHALL CONSTRUCT A REINFORCED FILTER BARRIER (RFB) AT ALL LOCATIONS SHOWN ON PLANS. THE RFB SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET.

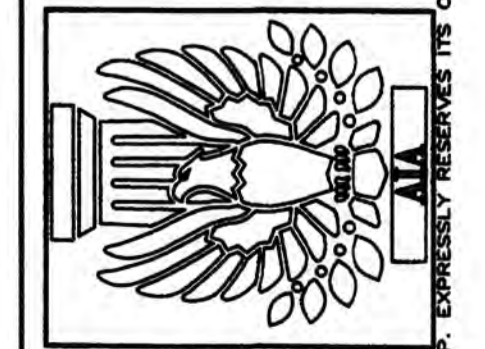
PROJECT #: 201307
DATE: 06.00.13
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CHECKED BY: WR
REVISION:
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PRECINCT NO. 4 - PARKS RECREATIONAL FACILITY IMPROVEMENTS PROJECT (SUNFLOWER PARK)

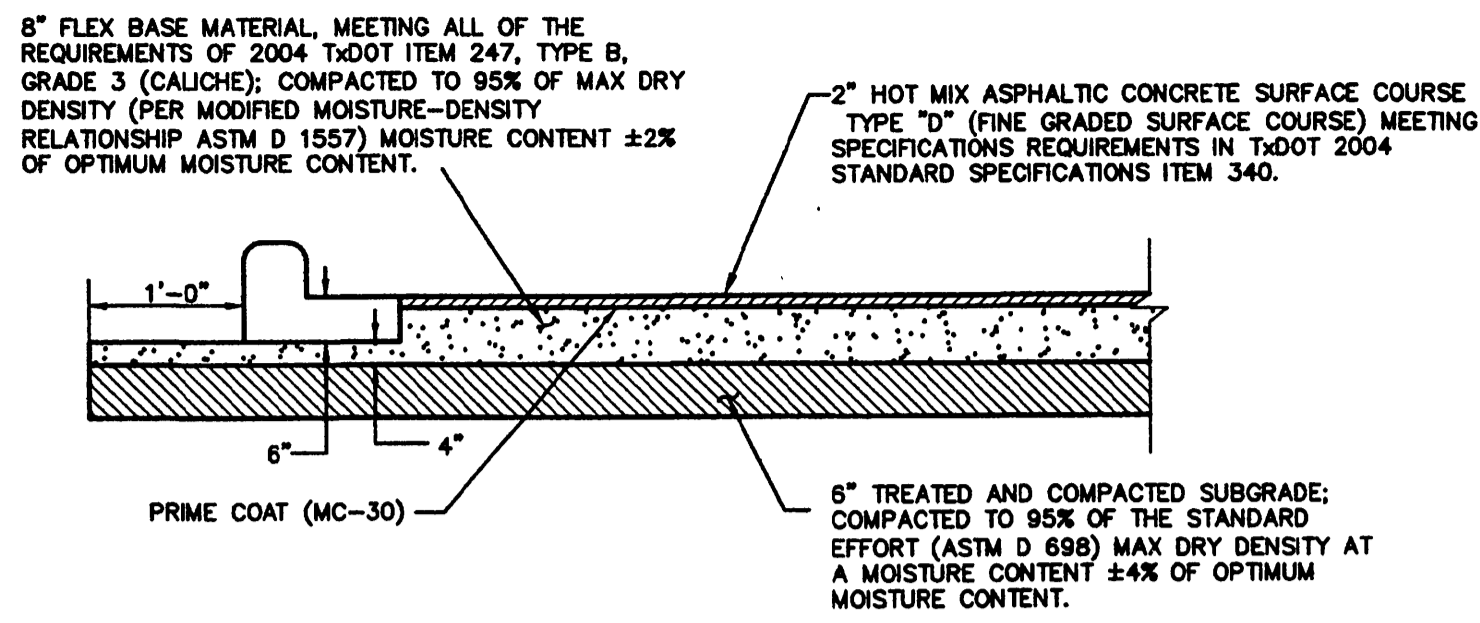


PROJECT: _____
LOCATION: _____
OWNER: _____

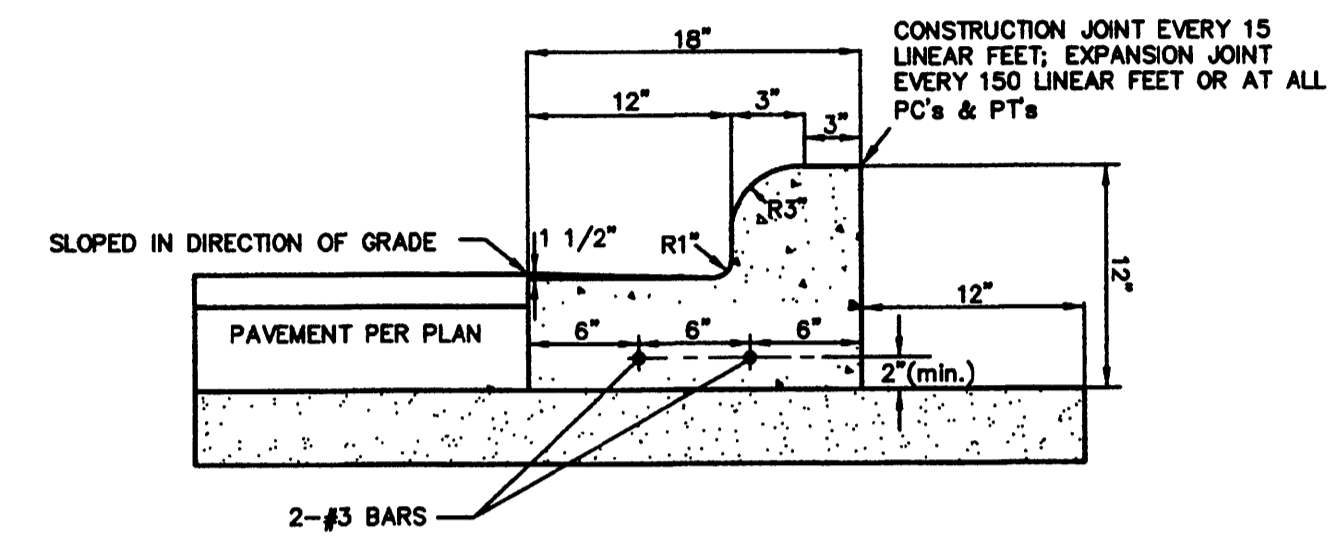
Mata & Garcia
ARCHITECTS LP
architecture project management interior design
Hector Rene Garcia R.A., Partner
Fernando Mata A.I.A., Partner
15th West Ivy Avenue McAllen, Texas 78501
Tel.: (361) 634-9145 Fax: (361) 634-9188



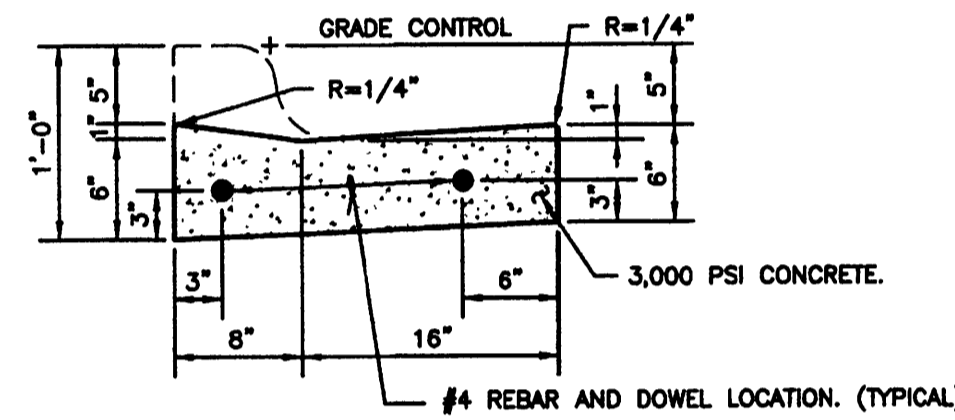
SHEET: **2.10**



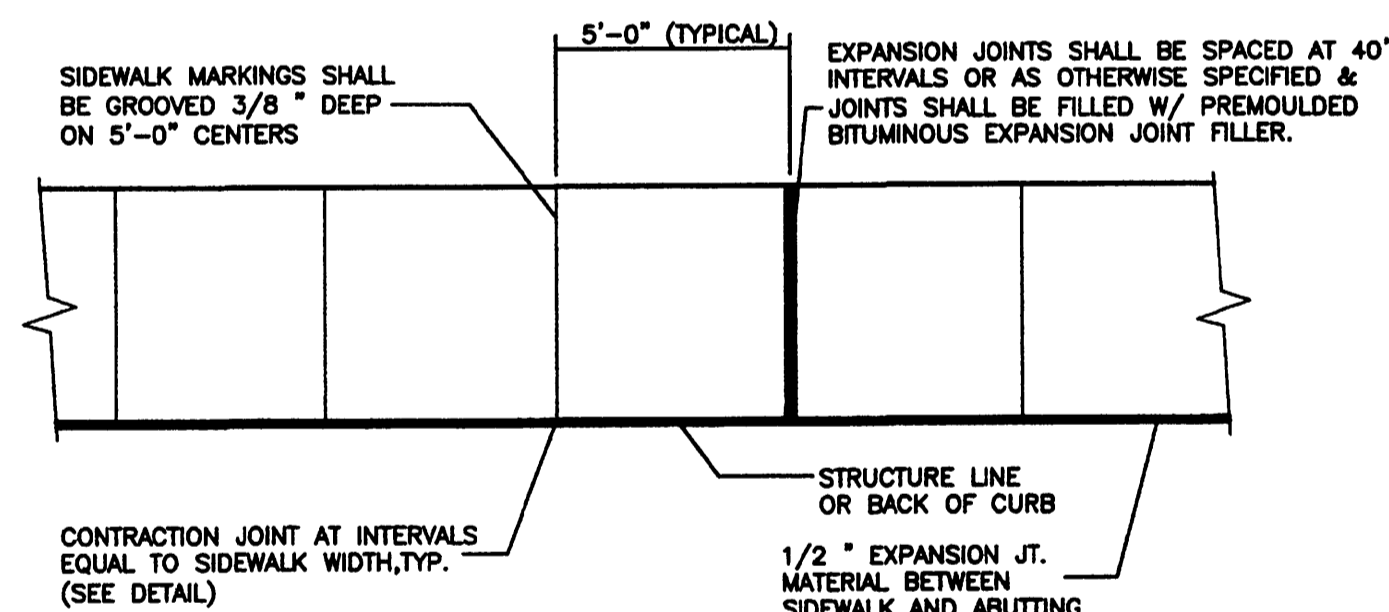
TYPICAL LIGHT DUTY ASPHALT SECTION
SCALE: N.T.S.



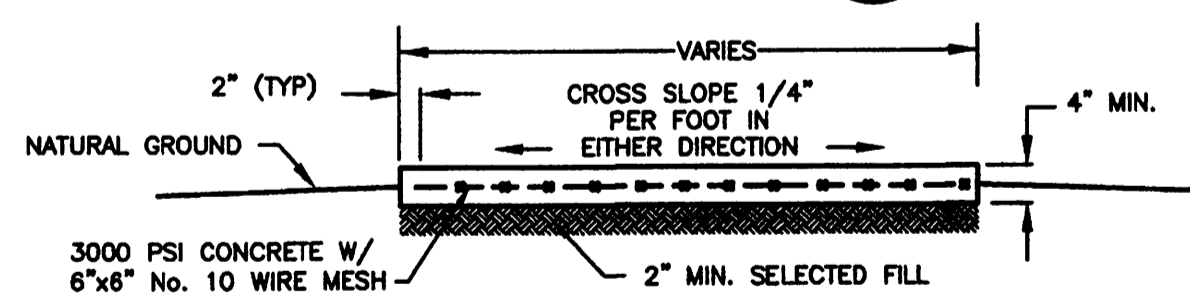
CURB AND GUTTER DETAIL
SCALE: N.T.S.



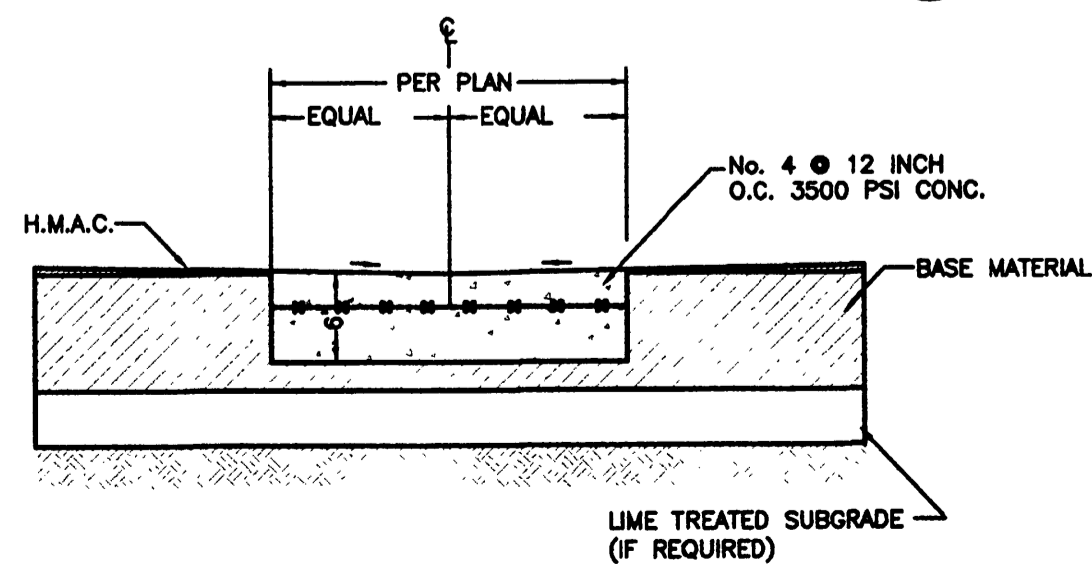
LAY DOWN CURB DETAIL
SCALE: N.T.S.



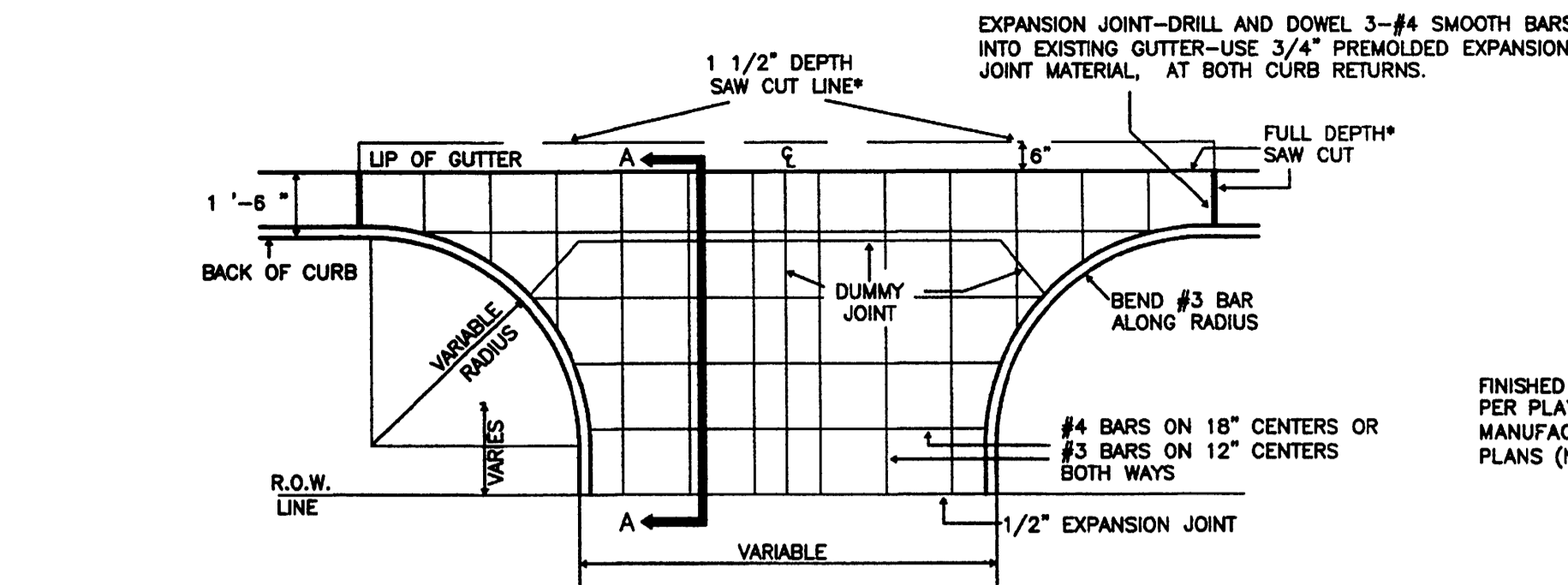
SIDEWALK PLAN
SCALE: N.T.S.



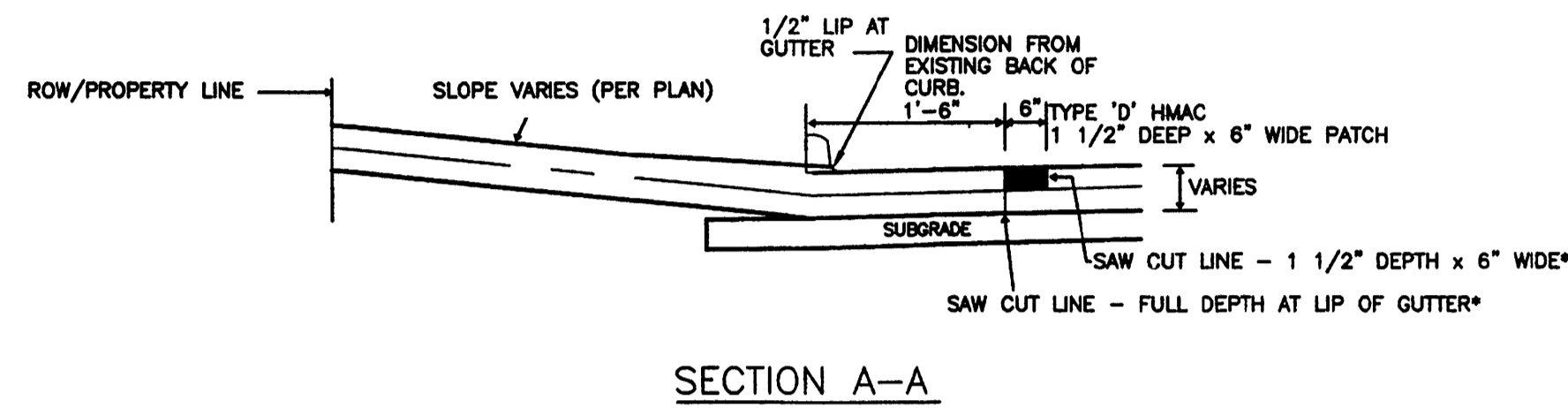
TYPICAL CONC. WALK SECTION
SCALE: N.T.S.



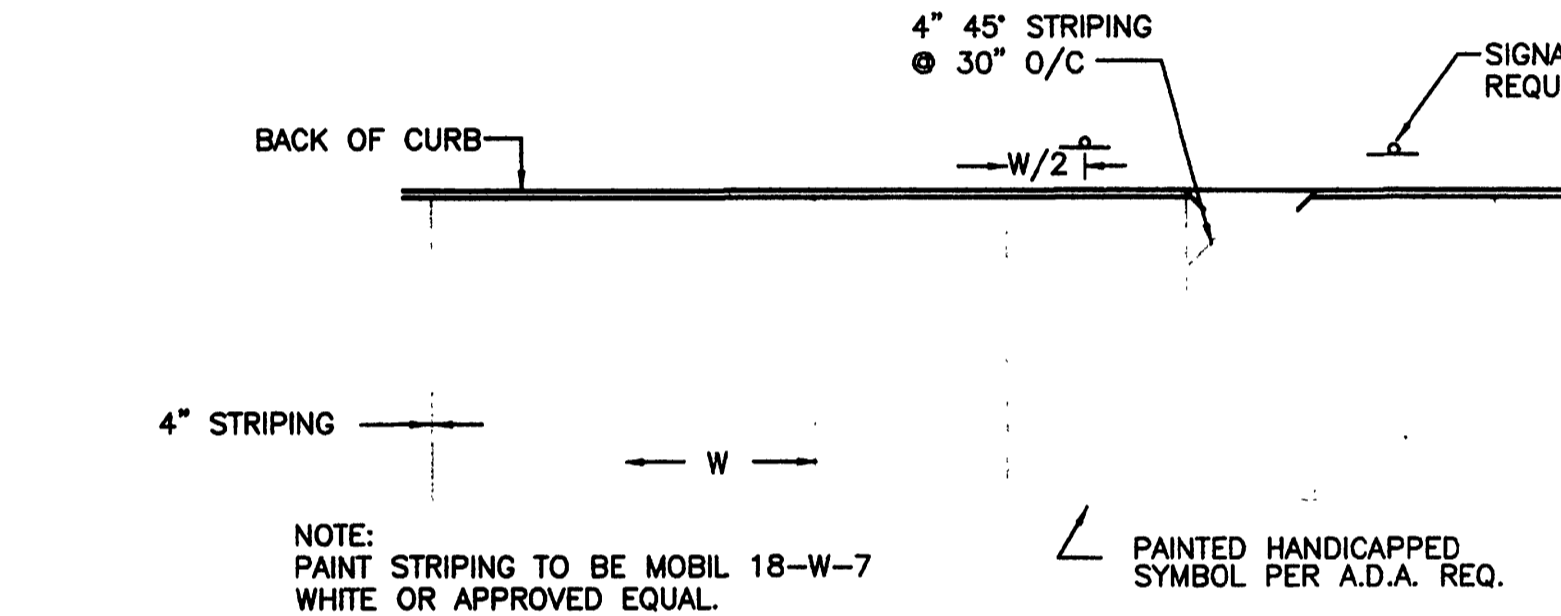
VALLEY GUTTER SECTION
SCALE: N.T.S.



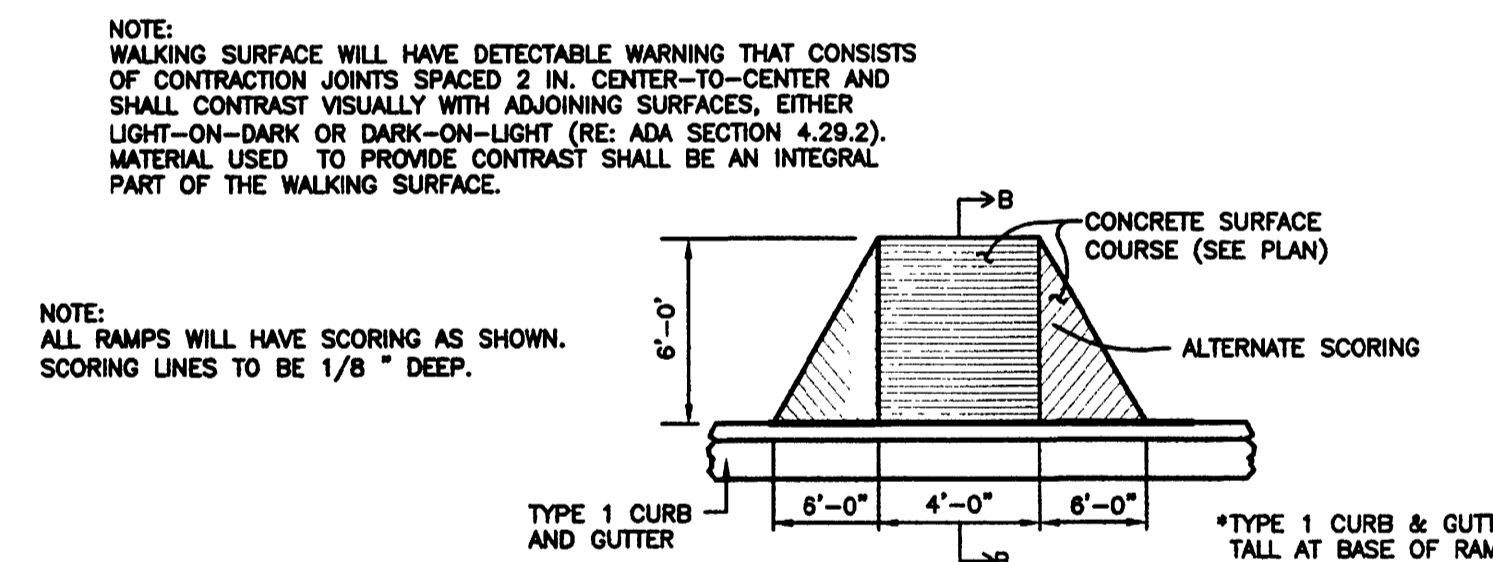
DRIVEWAY APPROACH DETAIL
SCALE: N.T.S.



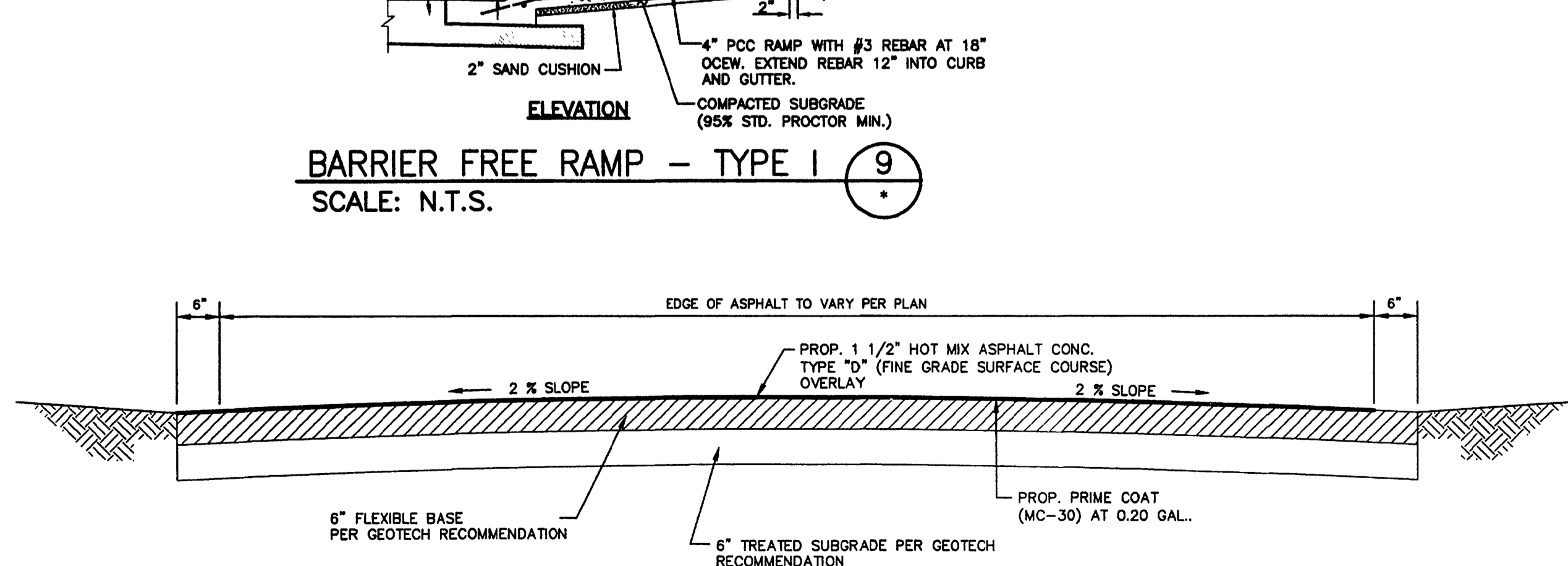
SECTION A-A



PARKING SPACE DETAIL
SCALE: N.T.S.

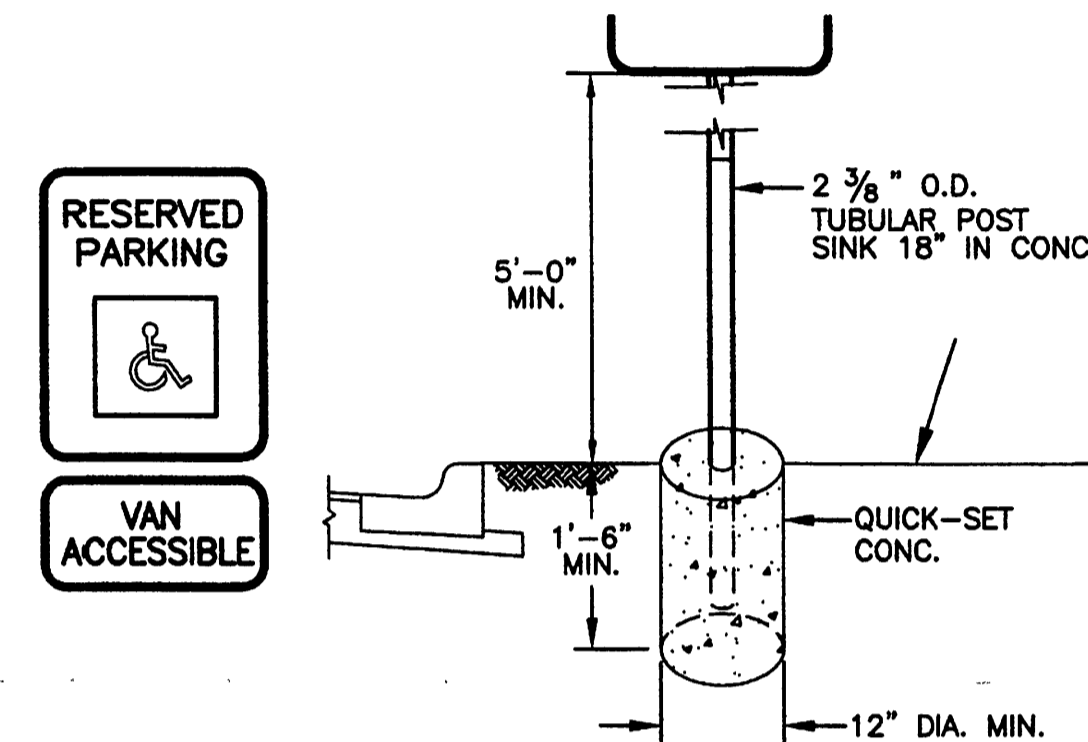


BARRIER FREE RAMP - TYPE I
SCALE: N.T.S.

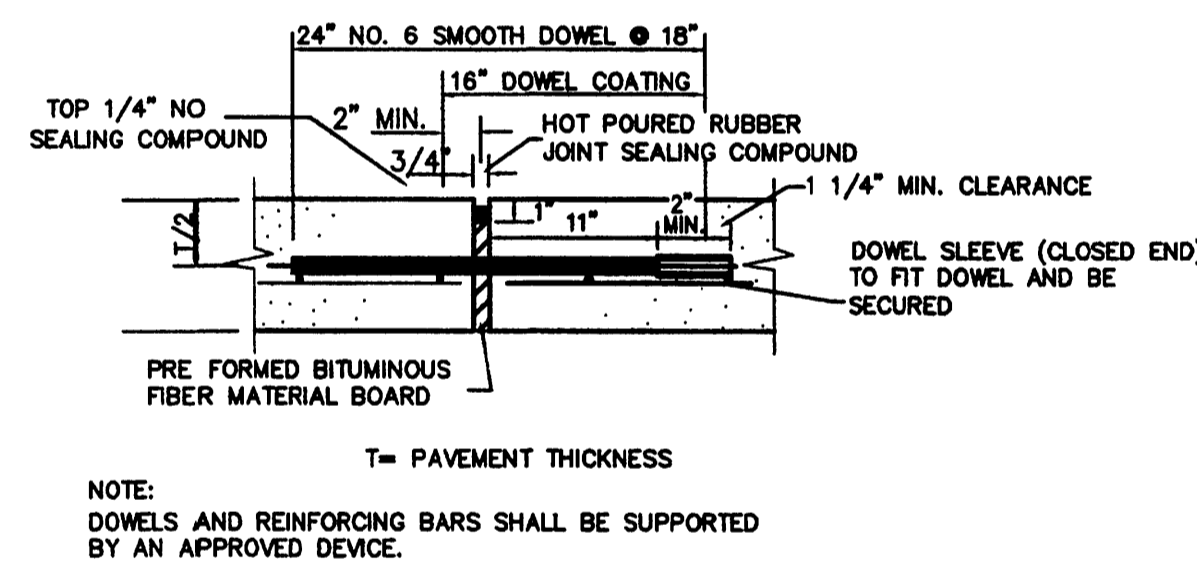


TYPICAL PEDESTRIAN PAVED WALK-WAY
SCALE: N.T.S.

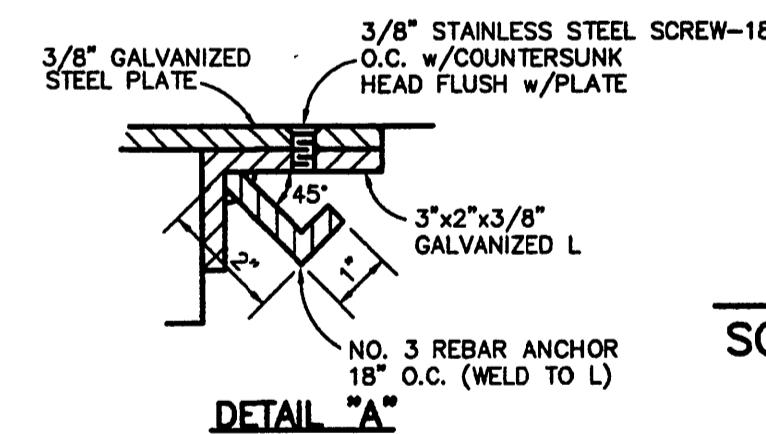
RETAINING WALL DETAIL
SCALE: N.T.S.



PARKING CONTROL SIGN DETAIL
SCALE: N.T.S.

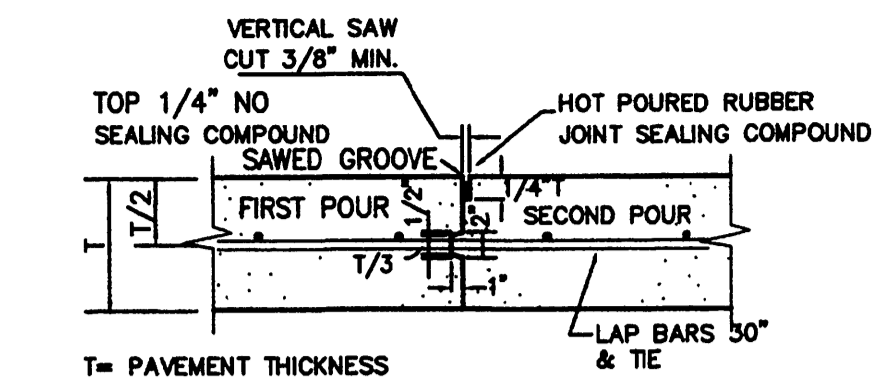


EXPANSION JOINT
SCALE: N.T.S.

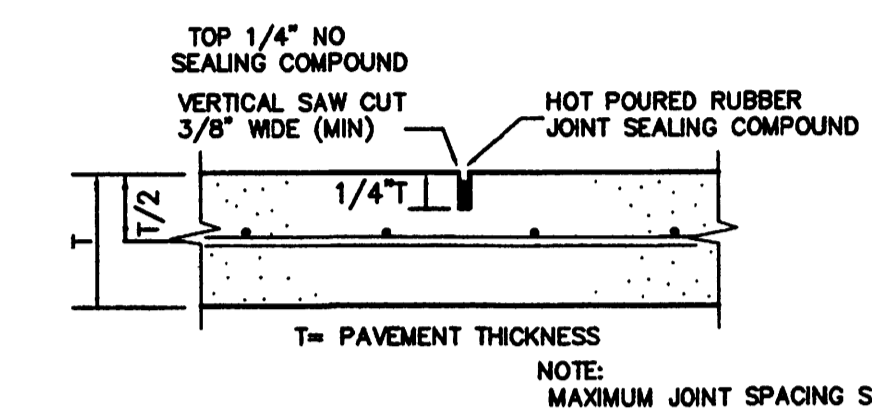


FLUME AT SIDEWALK
SCALE: N.T.S.

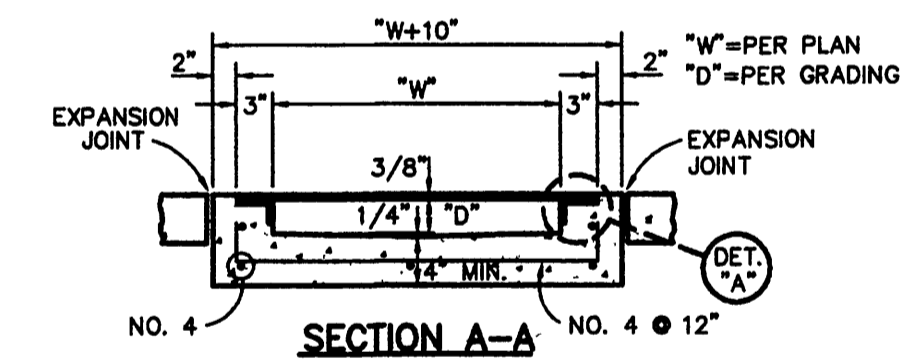
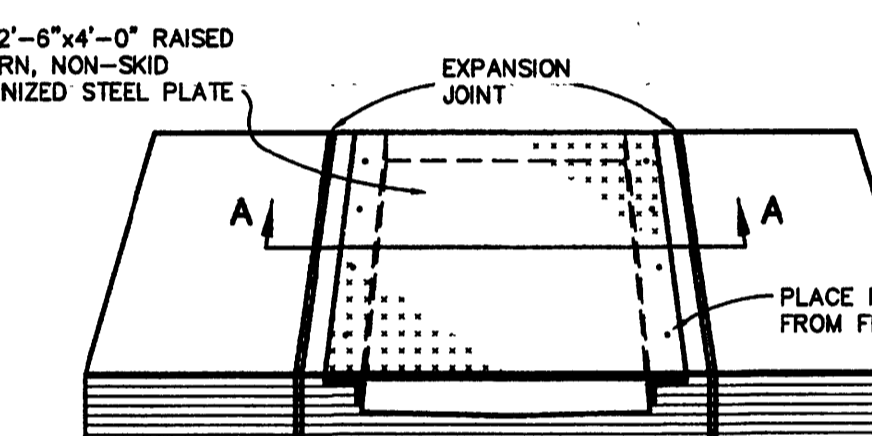
PAVING DETAILS
SCALE: AS SHOWN



CONSTRUCTION JOINT
SCALE: N.T.S.



SAWED DUMMY (CONTROL) JOINT
SCALE: N.T.S.



Lefevre
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McAllen, Texas 78504
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Civil Engineering
Environmental Engineering
Planning
Project Management

PROJECT #: 201307
DATE: 06.03.13
DRAWN BY: HO
CHECKED BY: WRL
REVISION:
1: 2: 3: 4:

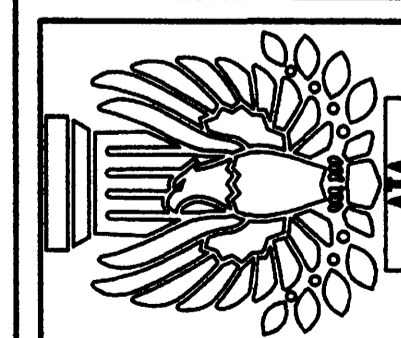
PRECINCT NO. 4 - PARKS RECREATIONAL FACILITY IMPROVEMENTS PROJECT (SUNFLOWER PARK)

SAN CARLOS, TEXAS
Hidalgo County
PROJECT LOCATION:
OWNER:



architecture
project management
interior design

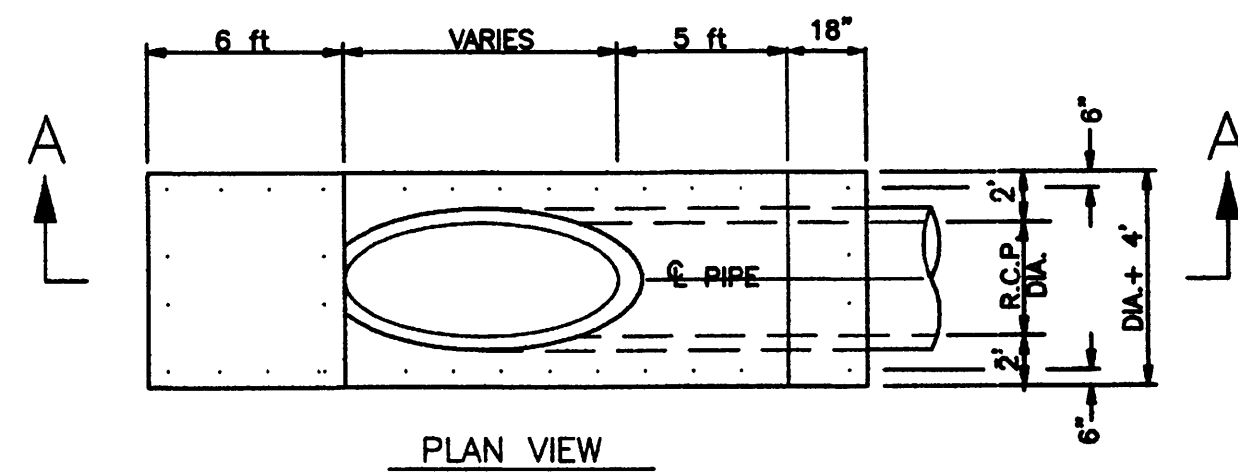
Mata & Garcia
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Hector Rene Garcia R.A., Partner
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18H West Ivy Avenue McAllen, Texas 78501
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SHEET:

2.11

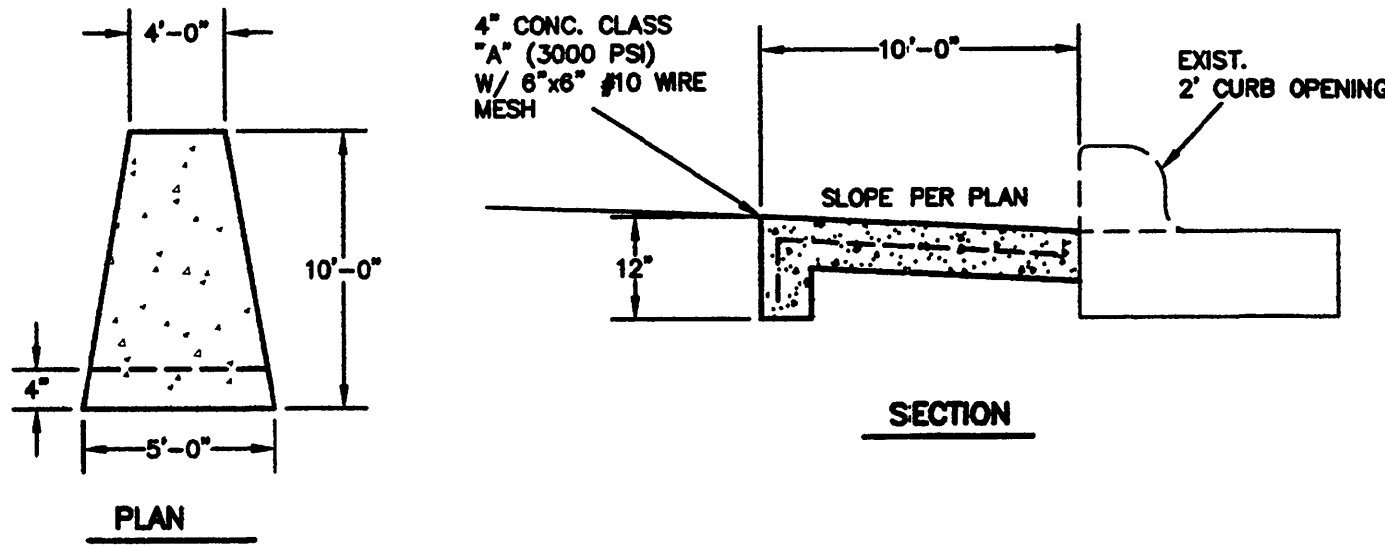
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- NOTES:
1. CONCRETE TO HAVE 3000 PSI MIN. 28 DAYS COMPRESSION STRENGTH.
 2. STEEL TO HAVE 40,000 PSI YIELD STRENGTH.
 3. DOWEL AT CONSTRUCTION JOINTS SHALL HAVE 36 X DIA. EMBEDMENT.

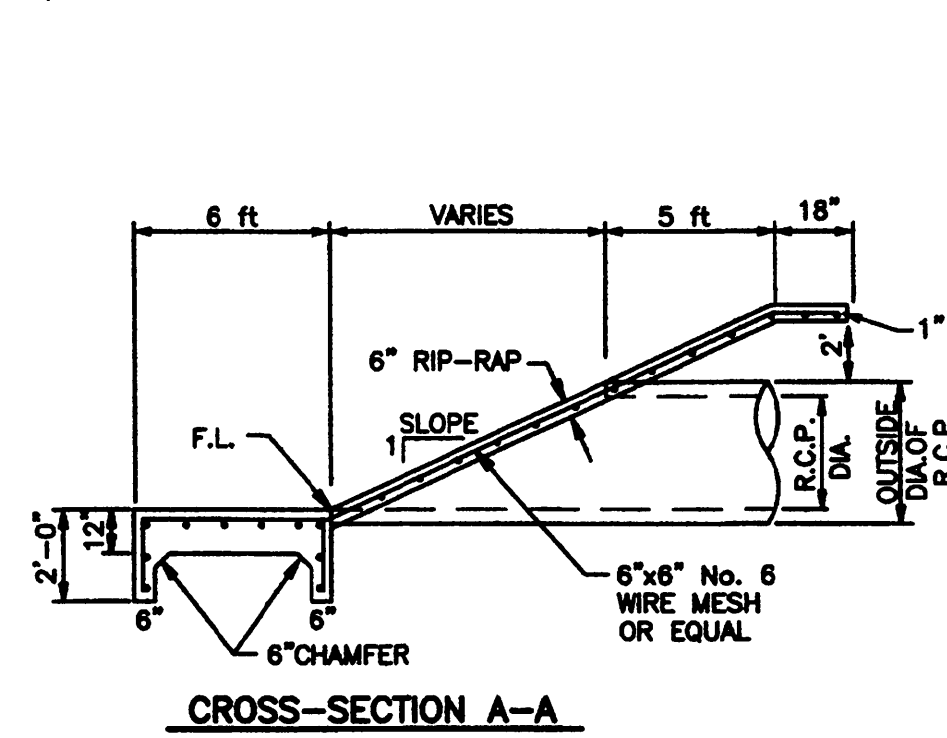
SLOPED END SECTION

SCALE: N.T.S.

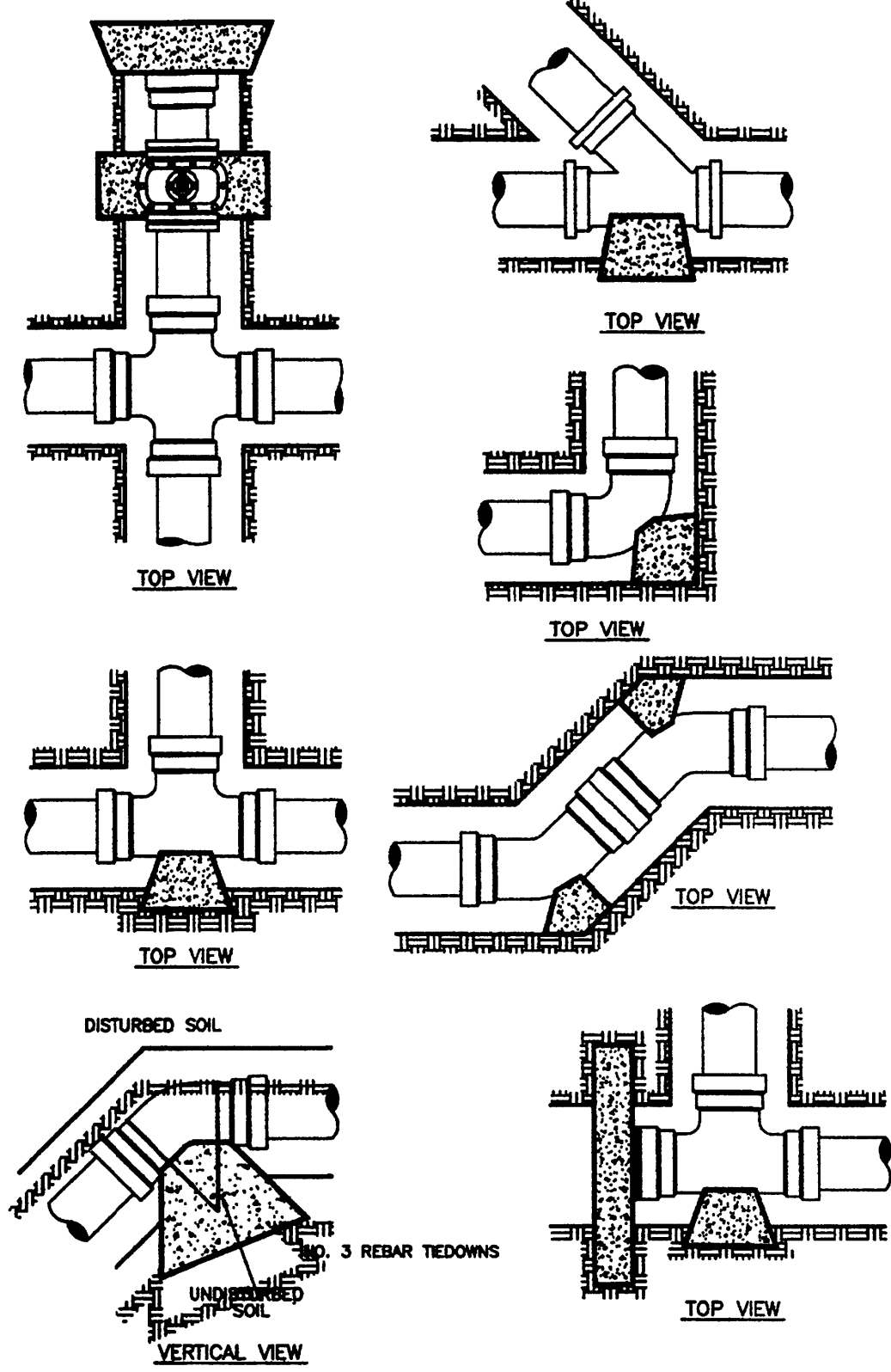


CONCRETE RIP-RAP AT CURB OPENINGS

SCALE: N.T.S.

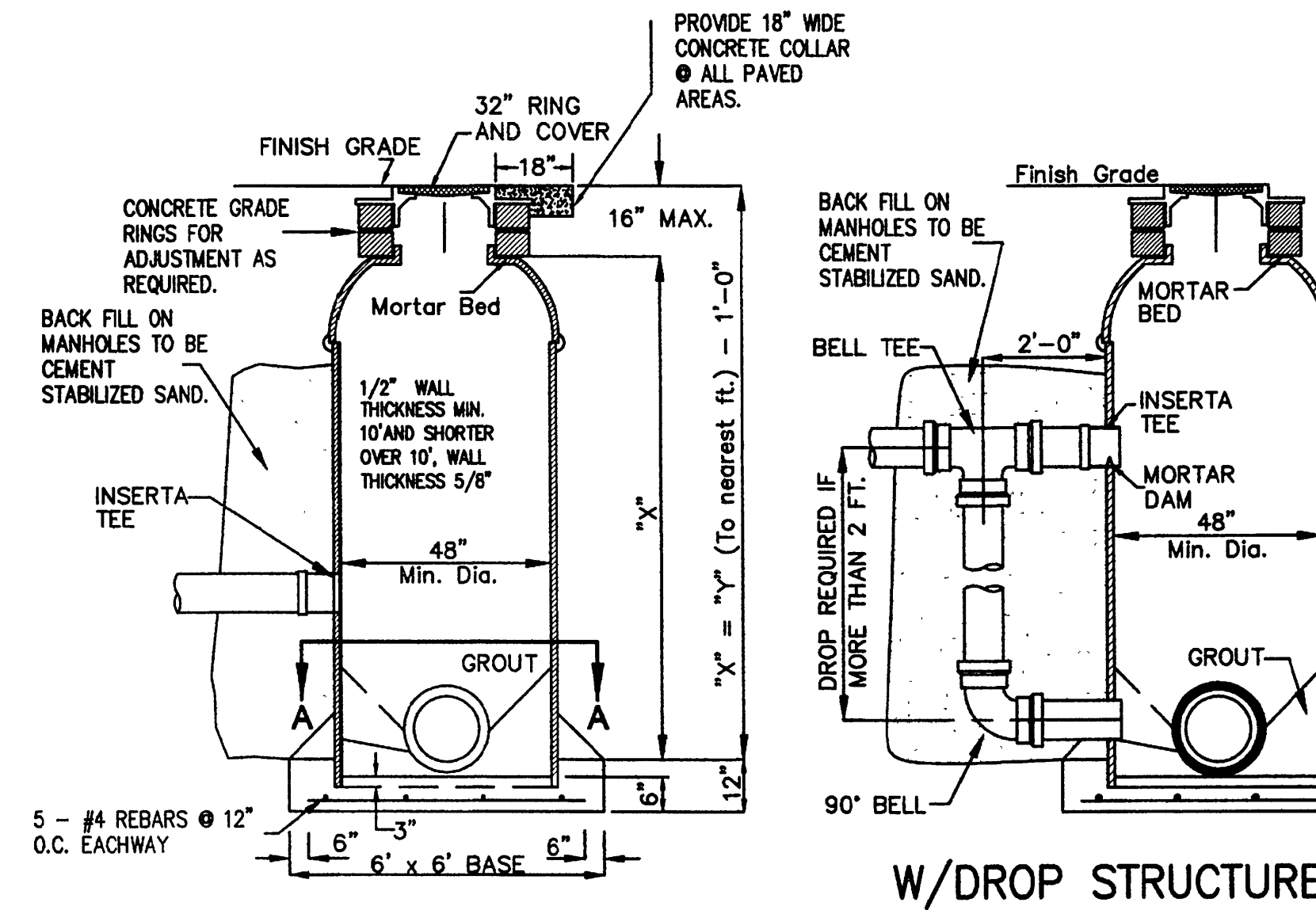


CROSS-SECTION A-A



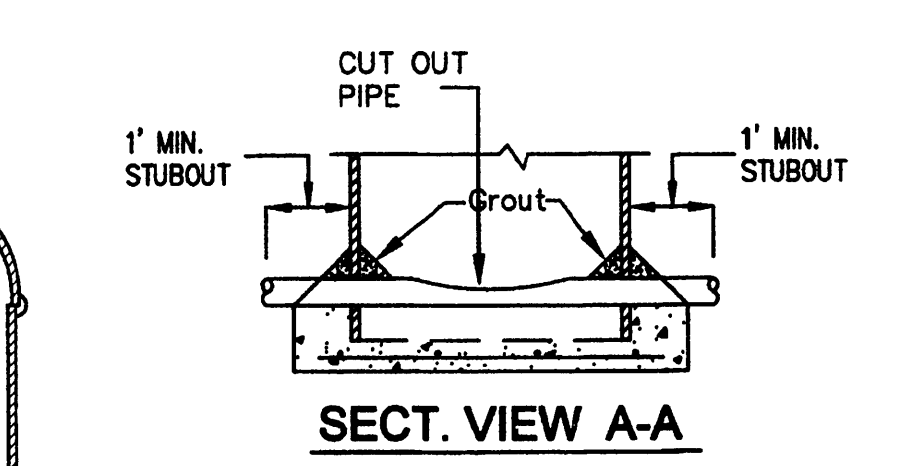
THRUST BLOCK DETAILS

SCALE: N.T.S.

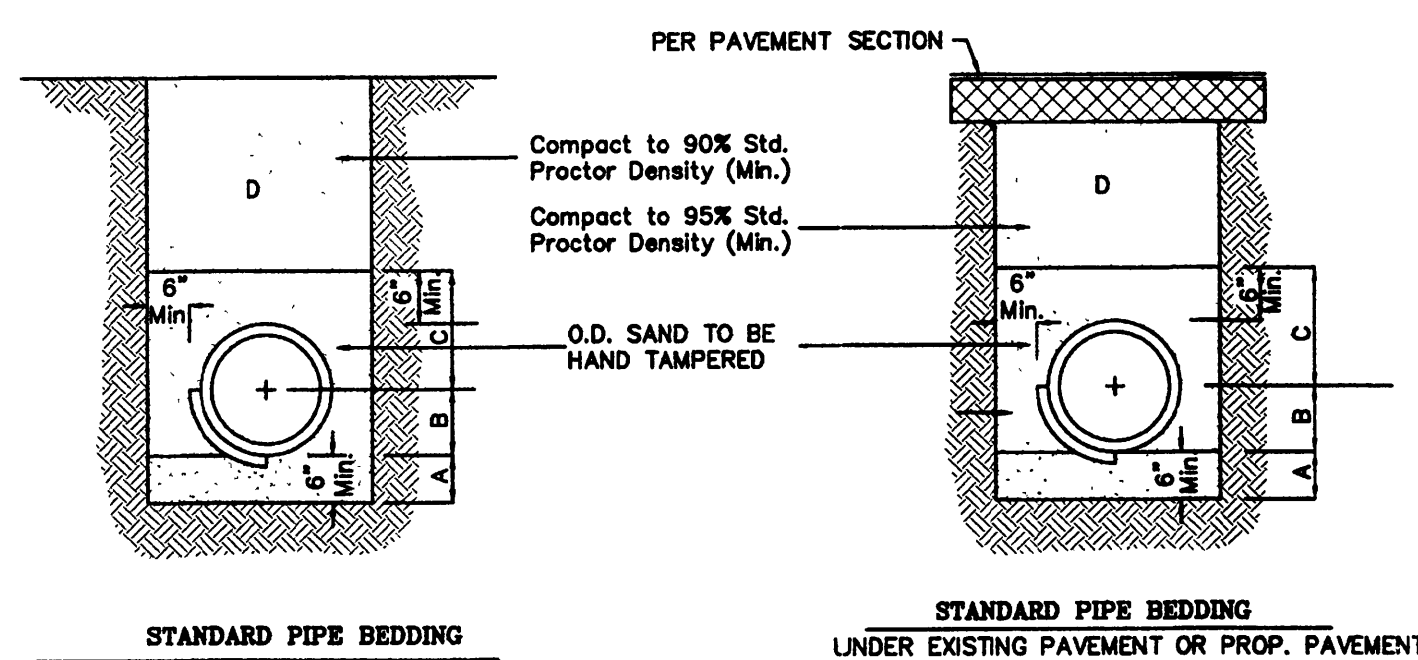


TYPICAL FIBERGLASS MANHOLE

SCALE: N.T.S.



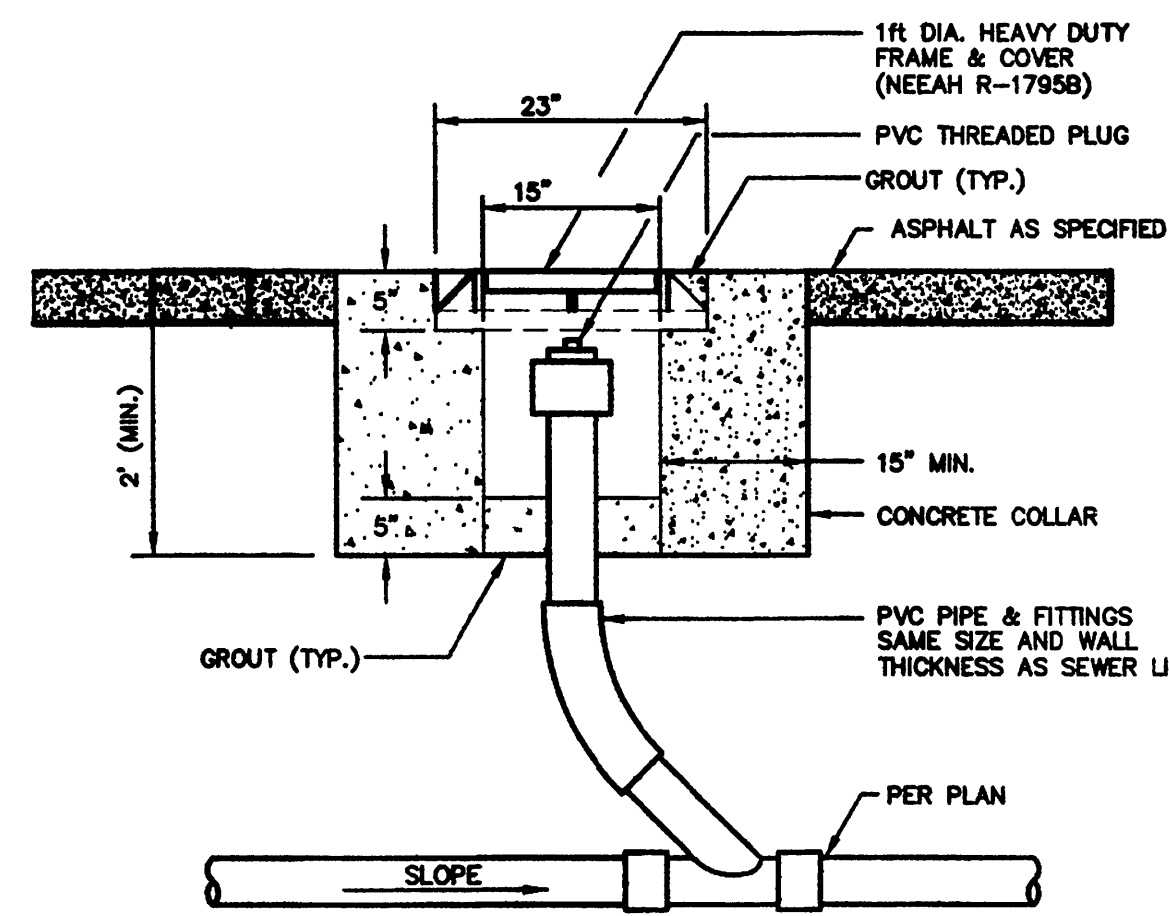
- NOTE:
1. ALL CONNECTIONS LOCATED ABOVE MAIN PIPE SHALL REQUIRE AN INSERTA-TEE.
 2. ALL PVC FITTINGS SHALL BE GASKET TYPE BELL.
 3. ALL EXPOSED CONCRETE INSIDE OF MANHOLE, SHALL BE COATED WITH (CODE 0070) J-4 BRAND 760 TOP SERVICE BLACK, HEAVY DUTY COAL TAR COATING.



- A. SAND BEDDING TO BE PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")
- B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED)
- C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)
- D. FILL TRENCH W/SELECT BACKFILL, W/8" LIFTS COMPACT TO 90% STD. PROCTOR
- FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
- BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 90% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.
- STORM LINE - BACKFILL A,B,C,D SAND TO BE ARROYO SAND W/PI <15

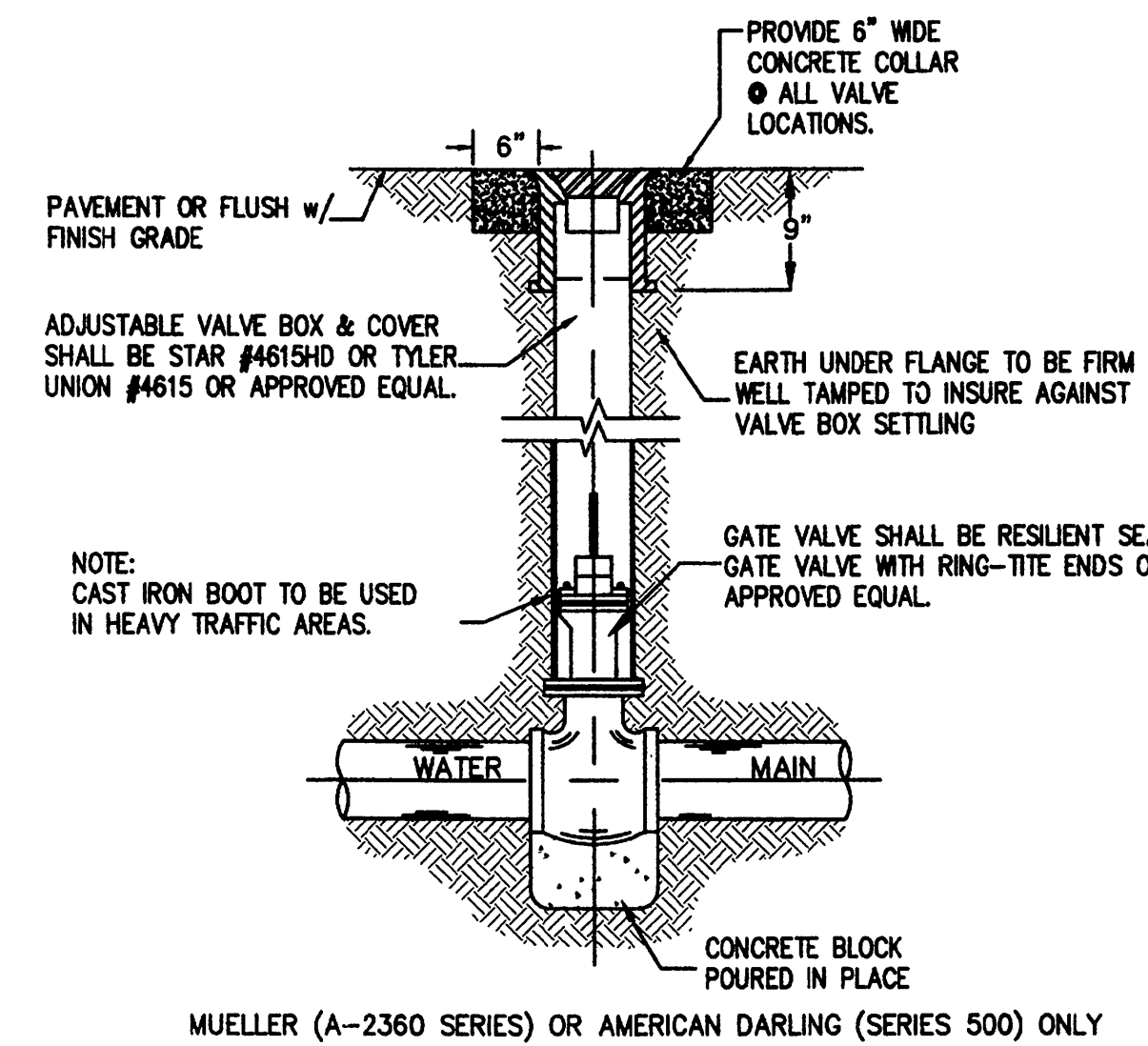
BEDDING AND TRENCH BACKFILL DETAIL

SCALE: N.T.S.



TYPICAL SANITARY SEWER CLEANOUT

SCALE: N.T.S.



TYPICAL VALVE AND VALVE BOX

SCALE: N.T.S.

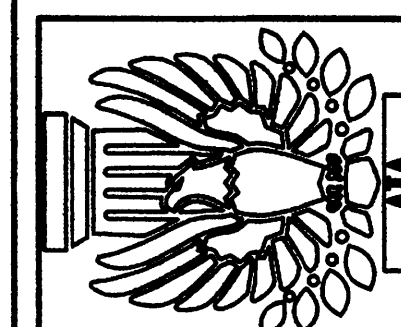
PROJECT # 201307
DATE: 00.00.13
DRAWN BY: HO
CHECKED BY: WRL
REVISION:
1.
2.
3.
4.

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HIDALGO COUNTY
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architecture project management interior design
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SHEET: **2.12**

DRAINAGE AND UTILITY DETAILS
SCALE: AS SHOWN

LeFEVRE
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612 Nolans, Suite 520
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